

# **North-Eastern Hill University**



## **Forty-Eighth**

## **Annual Report**

## **2021 -2022**

**प्रोफेसर प्रभा शंकर शुक्ल**  
**कुलपति**

**पूर्वोत्तर पर्वतीय विश्वविद्यालय**

जिला: पूर्वी खासी हिल्स, शिलांग - 793022  
मेघालय (भारत)



**Professor Prabha Shankar Shukla**  
**Vice-Chancellor**

**North-Eastern Hill University**

District: East Khasi Hills, Shillong - 793022  
Meghalaya (India)

## From the Vice-Chancellor's Desk



I am delighted to present the 48 Annual Report of North-Eastern Hill University (NEHU) for the year 2021-22. The year witnessed a progressive performance of NEHU in terms of its activities in the area of teaching, learning, research, extension/outreach programmes and social participation. This Annual Report is a reflection of concerted effort of the stakeholders for sustaining best for excellence, being a premier Central University at the strategic location of North-East India.

The University has maintained a trajectory of steady and sustained growth since its inception. The University's growth has been astounding in terms of its infrastructure, departments, new courses and programmes, the number of affiliated colleges and recognized institutions. The Annual Report Editorial Committee has candidly tried to capture the dynamic academic environment that exists in the University Campus highlighting the research projects, research publications, participation in international seminars and workshops, special achievements including awards and honours. The notable contributions and achievements by various faculty members and students of the University are also included in the pages that follow.

The University is also having a campus located at Tura (West Garo Hills) apart from a Community College by the name "Deen Dayal Upadhyaya Community College" at Wahiajer (West Jaintia Hills) for the rural development of the region for imparting skill-based education. The University has 288 teachers and 4596 students with an appreciable teacher-student ratio of 1:16. There are 83 colleges affiliated to NEHU, which offer undergraduate and postgraduate courses in different disciplines.

Though, in the midst of the devastating 2nd wave of COVID 19 pandemic, than the 1<sup>st</sup> wave, beginning in March, 2021, the University made a strategic concerted effort for implementation of National Education Policy 2020 at PG level to commence from the academic year 2022-23. The Implementation Committee consisting members from Science, Arts, Humanities and Technology discipline, of the University held series of online meetings to attain the set goal. Besides, remarkable publications by enriched faculty members, organisation of National and International Seminars, Conferences, Webinars, signing of MOUS, etc. also were carried out.

During the year under report, the University has taken initiative for establishment of Intellectual Property Right Cell (IPR), Design Innovation Centre (DIC), Environmental Infor System Resource Partner Centre, Career Counselling Cell, Office of International Affairs, Alumni connect, Research & Development Cell in Higher Education Institute, etc. The University also adhered to the initiative in such as; Academic Bank of Credit, Multiple Entry &

Exit in Academic Programme, CUET, Online & ODL Education, SWAYAM & MOOCs, etc. The University has also been able to settle the large number of outstanding CAS cases in respect of the eligible Faculty members during the period under report.

A collective extraordinary effort and a cooperative approach from all the stakeholders enabled the University in every activity within its available resources. The University has been able to continue its outreach programme such as Swachh Bharat Abhiyan and social initiative during the pandemic situation with the help and cooperation from all stakeholders.

I hope the University will continue to strive for significant progress in various prestigious programmes for academic excellence in pursuit of higher education in the coming years, which in-turn, would contribute for development and nation building in general and for the benefit of the people of North-East India in particular.

  
Vice-Chancellor

(Prof. Prabha Shankar Shukla)

## Executive Summary

The North-Eastern Hill University, a Central University, was established by an Act of Parliament (Act 24 of 1973), at Shillong, the capital city of Meghalaya. The prime objective was to set up a teaching and affiliating Institution for the hill areas of the North-Eastern Region in order to develop the intellectual, academic and cultural background of the people of this region. The University became functional on July 19, 1973 with Dr. Chandran D. S. Devanesan as its founder Vice-Chancellor.

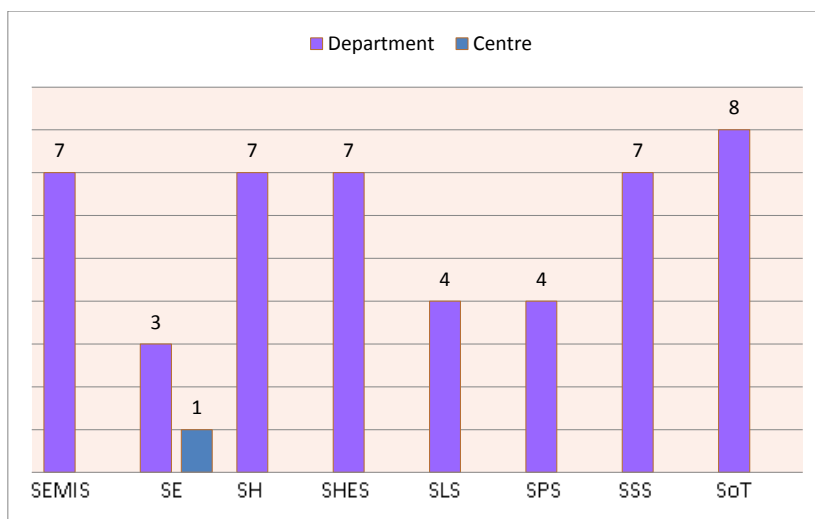
The Permanent Campus of the University located at Mawlai Umshing, Shillong, in the East Khasi Hills District is geographically surrounded with hill tops and Pine trees spread about Twelve Hundred acres (approx) of land area. The administrative department and the examination block are surrounded by the academic departments so as to have easy accessibility for the students.

Keeping with its objective, the University has been striving for the academic excellence of the people of North-Eastern region. In conjunction with this, the University spread its knowledge wings and established Campuses in two different states of the North-East viz. Mizoram and Nagaland. In Mizoram, a full fledged Mizoram Campus was set up at Aizawl with a constituent College i.e. Pachhunga University College at Aizawl. Similarly, a Nagaland Campus in Kohima was set up with a constituent College i.e. College of Agriculture, (renamed as School of Agricultural Science and Rural Development) in Medziphema. With the establishment of separate Central Universities for the states of Mizoram and Nagaland, the North-Eastern Hill University, in the year 1996 established an outlying campus at Tura (West Garo Hills District) within the state of Meghalaya, initially with two departments and now twelve academic departments, one of which is in Public Private Partnership mode. The University also achieved another feather in the cap with the establishment of a Campus at Wahiajer, Jowai (Jaintia Hills District) called Deen Dayal Upadhyaya Community College.

The Forty-Eighth Annual Report showcases the diverse activities and achievements of various Academic Departments, Centres, Administrative Departments and Central Services of the University during April 01, 2021-March 31, 2022.

### Background

The University comprises eight schools: School of Economics, Management, and Information Sciences (SEMIS), School of Education (SE), School of Humanities (SH), School of Human and Environmental Sciences (SHES), School of Life Sciences (SLS), School of Physical Sciences (SPS), School of Social Sciences (SSS) and School of Technology (SoT). The University has forty-seven academic Departments and a Centre for Distance Education (Figure 1). Thirty-six Departments and one Centre are located in Shillong campus, with eleven Academic Departments situated in Tura campus.



**Figure 1. Departments and Centres in each School**

The Academic Departments of the University offer Postgraduate and Ph.D. programmes in various disciplines. Some Departments also offer M. Phil., and Undergraduate programmes, in addition to conducting research and other extension activities. Several Departments have received financial assistance under SAP from University Grants Commission (UGC) and under FIST from Department of Science & Technology (DST), Government of India. The Departments of Botany and Chemistry have been recognized as Centres for Advanced Studies (CAS) by UGC. The University maintains a DBT-sponsored Bioinformatics Centre (BIC), a DST-supported Sophisticated Analytical Instrument Facility (SAIF) and the UGC-supported Human Resource Development Centre (HRDC). There are seventy-nine affiliated colleges offering mostly undergraduate courses with a few colleges servicing postgraduate programmes. The North-Eastern Indira Gandhi Regional Institute of Health and Medical Sciences (NEIGRIHMS), affiliated to NEHU, is a referral Institute of Medicine and Health services for the region, established by the Union Ministry of Health & Family Welfare, Government of India, and it also offers academic programmes in Medicine and Nursing, with North-Eastern Institute of Ayurveda and Homoeopathy (NEIAH) offering Diploma, Undergraduate and Postgraduate programmes in Ayurveda and Homoeopathy.

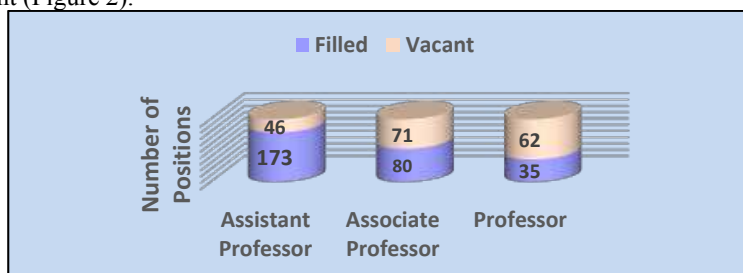
Our University faculty members have been conferred with Civilian Honours. The University has instituted several awards like the President of India Dr. Shankar Dayal Sharma Gold Medal, Smt. Sarada Krishna Iyer Memorial Award, U Tirot Sing Memorial Prize, Rajendra Kumar Sunheri Devi Jain Charitable Award, U Kiang Nangbah Memorial Award, Prof. M. K. Khare Memorial Prize, Prof. M. N. Karna Young Sociologist Award, Dr. D.S. Babu Memorial Award and Prof. S. S. Khare Promising Mathematician Award.

The University offers several central services in order to facilitate educational and research activities as well as health, sports and civic activities for the general welfare of the University community. They include the Bio-Informatics Centre, BIRAC BioNEST Bioincubator Facility, Central Library, Voice and Data Network, Health Centre, Career and Counselling Cell and Students' Welfare Cell. Other central services include Guest Houses, College Development Council, Hindi Cell, Equal Opportunity Cell, Pension Cell, Right to Information Cell, Internal Complaint Committee, Internal Quality Assurance Cell, National Service Scheme Cell, Incubation Centres, Design Innovation Centre, Sports Department, Sophisticated Analytical Instrument Facility, Computer Centre, MOOCs Cell, Intellectual Property Right Cell, Office of International Affairs and Campus Development Department.

The University has extended its sprawling campus facility to house Institutions of National Importance, viz. Indira Gandhi National Open University (IGNOU), Indian Council of Social Science Research-North Eastern Regional Centre (ICSSR-NERC), English and Foreign Languages University(EFLU), Shillong Campus, Kendriya Vidyalaya (KV), Sports Authority of India (SAI), Shillong and the Shillong Science Centre. The University Management System (UMS), an ERP initiative, provides e-governance services to the university. Further, the university has facilitated services to the community at large by providing space for BSNL Extension Unit, State Bank of India and NEHU Sub Post Office (fully managed by women).

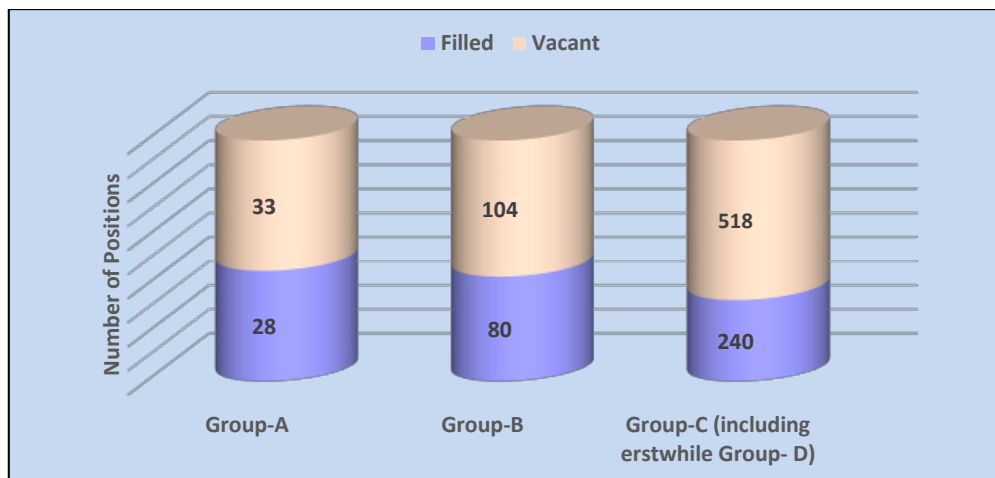
### Teaching and Non-teaching staff

The University has 467 sanctioned positions of teachers, of which 288 have been filled and 179 posts are vacant (Figure 2).



**Figure 2. Sanctioned and Filled Faculty Positions (2021-2022)**

The total sanctioned positions of non-teaching staff in the University are 1003 with 61 in Group-A, 184 in Group-B, 758 in Group-C (including erstwhile Group-D). At present, the total filled posts are 348 and the vacant posts are 655 (Figure 3).



**Figure 3. Sanctioned and Filled Non-Teaching Positions (2021-2022)**

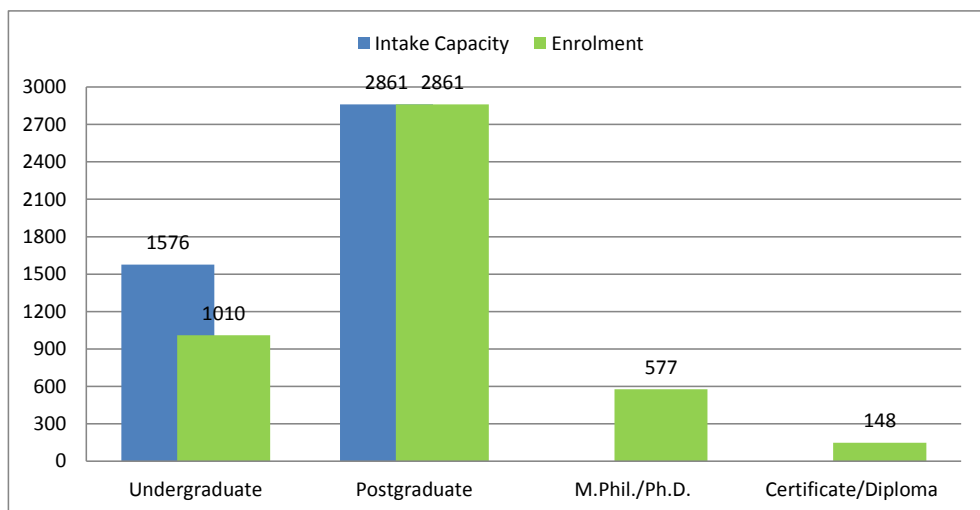
### Student Enrolment

NEHU, a premier university of the region, attracts students from different parts of the country and from abroad. Students are admitted to different programmes in various Schools according to the University Rules and UGC Guidelines. The University follows Choice Based Credit System (CBCS) and now it is all set to introduce NEP 2020. During 2021–22, 4596 students were enrolled in degree/diploma/certificate programmes in various Departments. Out of these, 15 students are from Asian and African countries. The student-teacher ratio is nearly 16:1 in the University during the period under report. The enrolment of students for various academic programmes in the University is detailed in Table 1 and Figure 4.

**Table 1. Enrolment of students in various courses offered by the University (2021-22)**

Courses	GEN		ST		SC		OBC		EWS		PWD		TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
BA LLB (Honours)	7	18	115	179	1	4	0	0	5	6	0	0	128	207
B Arch	37	37	31	18	4	6	0	0	4	7	0	0	76	68
B Tech	160	65	146	68	46	13	18	12	2	1	0	0	372	159
<b>UG TOTAL</b>	<b>204</b>	<b>120</b>	<b>292</b>	<b>265</b>	<b>51</b>	<b>23</b>	<b>18</b>	<b>12</b>	<b>11</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>576</b>	<b>434</b>
MA	26	77	325	982	1	7	2	12	7	19	2	0	363	1097
M Sc	50	72	193	408	4	5	1	2	22	24	3	0	273	511
M Com	2	4	35	69	0	0	0	0	2	1	2	0	41	74
M Lib Info Sc	1	1	14	41	0	0	0	0	1	1	0	0	16	43
M B A (GM)	5	5	6	2	0	1	0	0	0	0	0	0	11	8
M B A (SM)	13	5	30	12	1	1	0	0	0	0	0	0	44	18
MBA (ABFT)	2	4	15	13	0	0	0	0	1	1	0	0	18	18
MCA	11	4	20	25	0	0	0	1	2	0	0	0	33	30
MTTM	3	10	18	24	1	0	0	0	0	1	0	0	22	35

LLM	0	0	8	17	0	0	0	0	0	2	0	0	8	19
M Ed	0	1	17	74	0	2	0	0	1	1	0	0	18	78
M Tech	14	15	34	12	5	2	1	0	0	0	0	0	54	29
PG TOTAL	127	198	715	1679	12	18	4	15	36	50	7	0	901	1960
M Phil	1	0	7	21	0	0	0	0	0	0	0	0	8	21
Ph D	63	74	143	200	16	15	14	19	3	1	0	0	239	309
PG Diploma	1	1	11	11	0	0	0	0	0	0	0	0	12	12
FC SEDE	3	3	42	65	2	1	4	4	0	0	0	0	51	73
Sub Total	399	396	1210	2241	81	57	40	50	50	65	7	0	1787	2809
Grand Total	795		3451		138		90		115		7		4596	



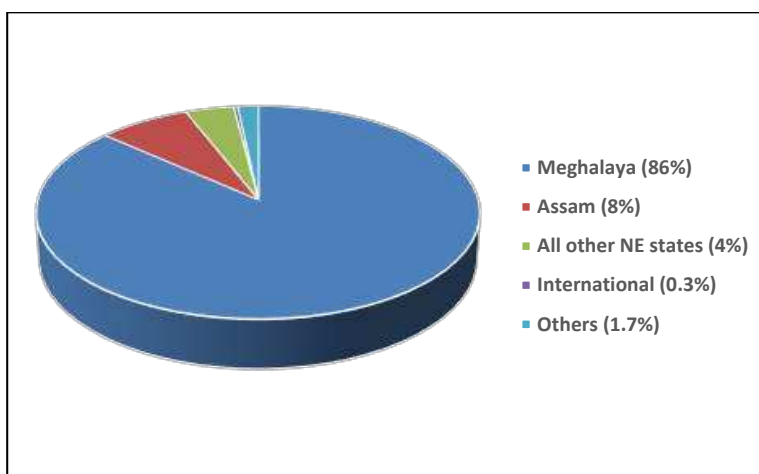
**Figure 4. Programme-wise Student Enrolment Status (2021-2022)**

Enrolment of students from different states of India and abroad for the academic year 2020-2021 is detailed in Table 2 and Figure 5.

**Table 2. Enrolment of students from different States of India and Abroad (2021-2022)**

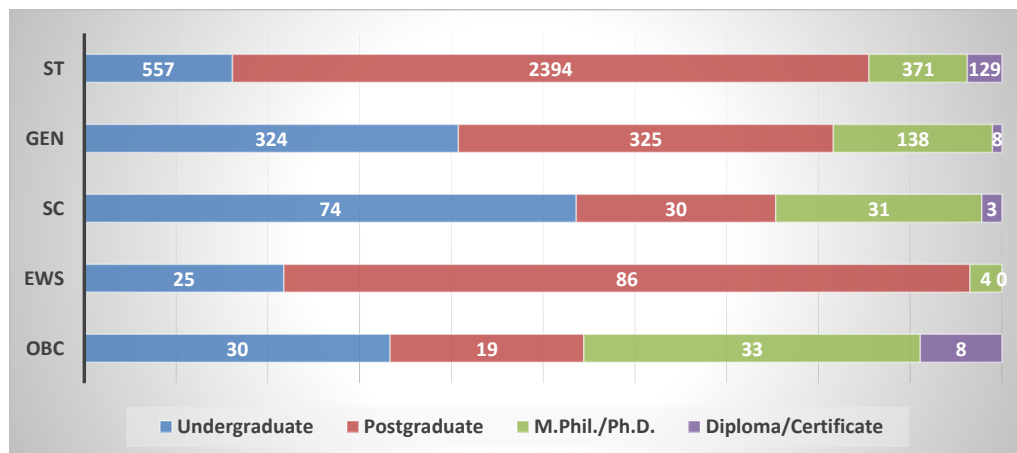
STATES	GEN		ST		SC		OBC		EWS		PWD		TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Andhra Pradesh	1	0	0	0	1	0	0	1	0	0	0	0	2	1
Arunachal Pradesh	3	1	8	12	0	0	0	0	0	0	0	0	11	13
Assam	109	96	40	27	27	13	12	18	1	3	0	0	189	157
Bihar	10	2	0	0	1	0	4	0	0	0	0	0	15	2
Delhi	2	0	0	0	0	1	0	0	0	0	0	0	2	1
Haryana	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Jharkhand	2	0	1	0	0	1	0	0	0	0	0	0	3	1
Kerala	1	1	0	0	0	0	1	0	0	0	0	0	2	1
Maharashtra	0	2	0	0	2	0	0	0	0	0	0	0	2	2
Manipur	3	7	10	38	0	3	1	3	0	0	0	0	14	51

Meghalaya	234	264	1126	2106	41	38	21	28	49	62	7	0	1478	2498
Mizoram	0	0	11	20	0	0	0	0	0	0	0	0	11	20
Nagaland	1	1	7	33	0	0	0	0	0	0	0	0	8	34
Odisha	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Rajasthan	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Tripura	4	2	6	5	1	1	0	0	0	0	0	0	11	8
Uttar Pradesh	5	2	0	0	2	0	1	0	0	0	0	0	8	2
Uttarakhand	4	0	0	0	0	0	0	0	0	0	0	0	4	0
West Bengal	11	9	1	0	5	0	0	0	0	0	0	0	17	9
International	9	6	0	0	0	0	0	0	0	0	0	0	9	6
Sub Total	399	396	1210	2241	81	57	40	50	50	65	7	0	1787	2809
Total	795		3451		138		90		115		7		4596	



**Figure 5. Enrolment of students from North-East India and Others (2021-2022)**

Category-wise enrolment of students in Different Courses (2021 - 2022), has been detailed in Figure 6.



**Figure 6. Category-wise students' enrolment in various courses (2021-2022)**



The students' enrolment in affiliated Colleges of the University is detailed in Table 3.  
**Table 3. Enrolment of Students in Affiliated Colleges for the Academic Year 2021-22**

Courses	GEN		ST		SC		OBC		TOTAL	
	M	F	M	F	M	F	M	F	M	F
B A (Hons)	708	1029	16167	21814	13	144	155	253	17161	23240
B B A (Hons)	35	23	210	111	7	3	12	5	264	142
B C A (Hons)	21	17	211	217	3	2	6	7	241	243
B Com (Hons)	461	321	1746	1381	49	40	54	44	2310	1786
B Ed	9	25	42	176	6	4	7	18	64	223
B Sc (Hons)	262	289	2021	2489	45	41	78	101	2406	2920
B Sc (Nursing)	9	57	6	234	2	3	5	39	22	333
B Sc Home Sc	0	2	0	85	0	0	0	0	0	87
BTTM	0	3	0	64	0	0	0	2	0	69
B. Music	6	4	57	30	0	0	3	1	66	35
BAMS	16	14	17	32	8	6	21	13	62	65
BHMS	11	14	16	44	6	5	11	15	44	78
BSW	6	16	52	98	2	4	1	2	61	120
L L B	20	24	177	159	0	0	0	0	197	183
MBBS	51	23	36	59	0	0	21	10	108	92
<b>UG Total</b>	<b>1615</b>	<b>1861</b>	<b>20758</b>	<b>26993</b>	<b>259</b>	<b>252</b>	<b>374</b>	<b>510</b>	<b>23006</b>	<b>29616</b>
MA	0	10	31	104	0	1	0	2	31	117
M C A	16	3	24	16	0	0	2	1	42	20
M Sc (Nursing)	0	3	0	13	0	0	0	3	0	19
M Sc Biotechnology	2	18	6	10	0	1	2	3	10	32
MSW	4	4	17	50	1	2	0	1	22	57
<b>PG Total</b>	<b>22</b>	<b>38</b>	<b>78</b>	<b>193</b>	<b>1</b>	<b>4</b>	<b>4</b>	<b>10</b>	<b>105</b>	<b>245</b>
P B BSc Nursing	0	0	0	58	0	0	0	3	0	61
PGDCA	0	0	10	9	0	0	0	0	10	9
<b>Grand Total</b>	<b>3536</b>		<b>48099</b>		<b>516</b>		<b>901</b>		<b>53052</b>	

### Examination Results

The number of students who appeared and passed the various degree examinations conducted by the university during the year under report is given in Table 4.

**Table 4. No. of Students who appeared and passed various degree examinations conducted by the university during 2021-2022**

Degree	No of students appeared	No of students passed/ awarded	Pass %
<b>Departments of the University</b>			
<b>Ph.D.</b>	103	103	100%
<b>Postgraduate</b>	1365	1344	98.46%
<b>Undergraduate</b>	195	178	91.28%
<b>Affiliated Colleges</b>			
<b>Postgraduate</b>	214	212	99.06%
<b>Undergraduate</b>	14972	14112	94.26%

## Publications and Presentations

- In the year 2021–2022, various Departments of the University organized 269 academic events, such as conferences, seminars/webinars, symposia and workshops; of which 93 were National, and 176 were International.
- Scholarly publications in peer-reviewed journals by the faculty included 176 research papers in the journals published in India and 295 in the journals published abroad. The faculty members have also authored/edited 226 books and book chapters in edited volumes including seminar and conference proceedings and 45 popular articles (Table 5).

**Table 5. Number of Publications during 2021-2022**

Name of School	Research Papers Published Abroad	Research Papers Published In India	Books, Edited Books/Volumes, Book Chapters & Proceedings Abroad	Books, Edited Books/Volumes, Book Chapters & Proceedings In India	Popular Articles (in Newspaper & magazines)
Life Sciences	71	22	17	04	04
Humanities	4	16	17	03	19
Physical Sciences	62	10	4	1	Nil
Economics, Management & Information Sciences	35	41	4	29	07
Human and Environmental Sciences	16	36	3	23	Nil
Education	nil	18	Nil	11	Nil
Technology	106	8	63	11	2
Social Sciences	1	25	9	27	13
<b>Total→</b>	<b>295</b>	<b>176</b>	<b>117</b>	<b>109</b>	<b>45</b>

## IPR items:

**Table 6(a): Details of Patents and Copyrights during 2021-22**

	Applied		Published		Granted	
	National	International	National	International	National	International
<b>Patents</b>	2	0	12	0	2	4
<b>Copyrights</b>	0	0	0	0	13	0

**Table 6(b): Details of Consultancy 2021-22**

Name of the School	New Projects		Ongoing Projects		Completed Projects	
	Number	Grant Received (Rs in Lakhs)	Number	Grant Received (Rs in Lakhs)	Completed	Grant Received (Rs in Lakhs)
Education	01	1.20	02	1.00	01	0.12

**Table 7. Details of EMR Grants received during 2021-22**

Name of School	New Projects		Ongoing Projects		Completed Projects	
	Number	Grant Received (Rs in Lakhs)	Number	Grant Received (Rs in Lakhs)	Number	Grant Received (Rs in Lakhs)
<b>Life Sciences</b>	04	159.69	07	58.67	06	252.83
<b>Humanities</b>	01	4.00	02	4.00	01	1.50
<b>Physical Sciences</b>	01	9.28	06	1.80	00	-
<b>Economics, Management &amp; Information Sciences</b>	00	-	06	144.98	03	9.375
<b>Social Sciences</b>	00	-	02	nil	00	-
<b>Human and Environmental Sciences</b>	04	69.00	09	357.52476	05	9.2213
<b>Education</b>	0	-	0	-	0	-
<b>Technology</b>	0	-	09	75.53	02	5.16
<b>Total</b>	10	241.97	41	642.51	17	278.09

**Table 8: Details of the Academic Collaborations 2021-22**

Name of School	Number of Academic Collaborations	
	National	International
Life Sciences	30	05
Humanities	33	34
Physical Sciences	25	13
Economics, Management & Information Sciences	7	nil
Social Sciences	1	26
Human and Environmental Sciences	13	11
Education	05	114
Technology	41	13
<b>Total</b>	155	216

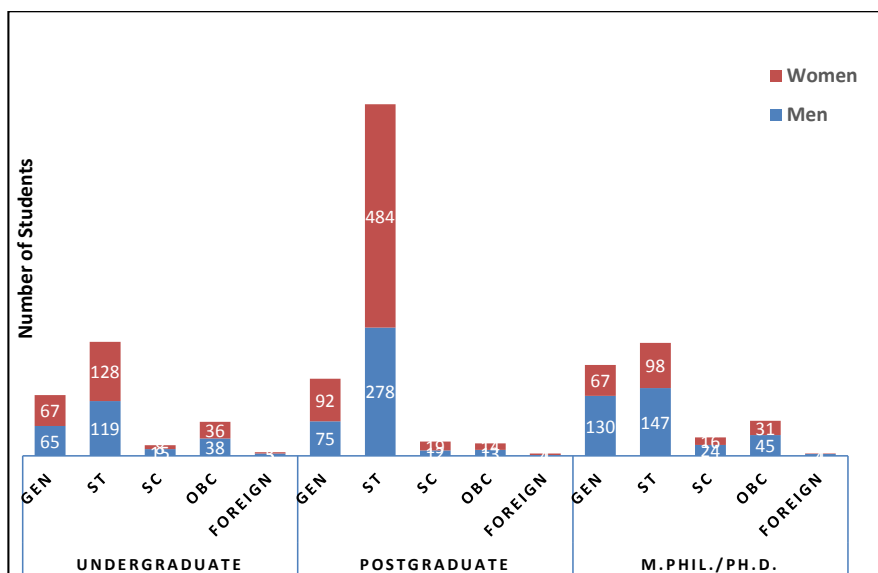
- Faculty members of the University were actively involved in 68 research projects supported by various funding agencies like UGC, DST, DBT, CSIR, DRDO, ICMR, DAE (BRNS), ICSSR, ICAR, and NEC, of which 10 are newly sanctioned, 41 are ongoing and 17 are completed.

#### **Academic Collaborations**

Academic Collaboration is an integral part of teaching and research as enshrined in the Acts and Statutes of NEHU. One of the objectives of the University is to collaborate with other universities and research organizations towards achieving academic learning and intellectual exchanges. During the year, the faculty members have established 155 national and 216 international academic collaborations with eminent scholars and scientists within and outside the country.

## Hostel Accommodation

The University extends on campus accommodation to students in twenty-six hostels. The Shillong campus facilitates twelve hostels for boys, eleven for girls, and one for international students whereas Tura campus houses hostels, one each for boys and girls. A total of 2039 students were provided on campus hostel accommodation. Of these, the campus residential facility was availed by 48% and 52% men and women students respectively. A total of 1254 students (62%) belonging to the Scheduled Tribe category were allotted hostel accommodation. The detailed categories of students residing in University hostels are shown in Figure 7.



**Figure 7. Number of students provided with hostel accommodation (2021-2022)**

The University has set up two studios for developing Massive Open Online Courses (MOOCs) in accordance with UGC Regulation of Credit Framework for Online Learning Courses through SWAYAM.

The University organized several events and observed the occasions of national and international significance as mandated by UGC and MHRD, Govt. of India during the year.

Over the years, NEHU has maintained its position as a leading Central University in building excellence and raising standards of higher education at both national and international arenas. The University is committed to achieving academic excellence by initiating and developing national and international partnerships and collaborations towards promoting the values of diversity and inclusiveness. The University enjoys a relatively high position in terms of student-enrolment, student-teacher ratio, female-to-male ratio enrolment, and above all, teaching and research activities. The University's potential for excellence in teaching and research has also been endorsed by the National Assessment and Accreditation Council (NAAC), which has accredited the University with 'A' Grade. The National Institutional Ranking Framework (NIRF) has ranked NEHU at 66<sup>th</sup> position among universities in 2021-22.

## Major Highlights (2021-2022)

- **Padma Shri** award, India's fourth highest civilian award, was conferred upon Prof. Badaplin War, Department of Khasi on January 26, 2022 for contributions in the field of Literature and Education.

- The **Office of International Affairs (OIA)** was set up in NEHU on March 22, 2022 in line with UGC regulations on Internationalization of Higher Education. The OIA aims to deal with all academic, diplomatic and any other aspect of International relations for NEHU including international collaborations and diplomatic exchanges by acting closely with Government of India's policies like Act East, ASEAN, BIMSTEC, QUAD, G20 and the likes.
- **IPR Cell** was established on March 12, 2022 with the objective to extend initiatives for spreading the awareness about the Intellectual Property Rights among the academicians, scholars and students.
- University has established **BIRAC BioNEST Bioincubator Facility** at TURA campus on 6<sup>th</sup> October, 2021 that aims to provide a cohesive one-stop hand-holding ecosystem consisting of infrastructural, mentorship and funding support for transforming innovative, tradable ideas into large-scale, profitable & sustainable businesses.
- **Gender parity index** for student's gross enrollment (female to male students) ratio is 1.6. The highest value of female student enrolment was from Meghalaya with female to male student ratio of 1.7.
- There were **15 international students** from Bangladesh, Bhutan, Afghanistan, China, Myanmar, and Thailand, Tanzania, Namibia, Ghana, and Netherlands for the period under preparation of this Annual Report.
- **Total number of Publications** for the year 2021-2022 was 742 and 20 **patents** were filed/published/granted.
- **International Day of Yoga** was observed on June 21, 2021.
- **National Unity Day** was celebrated on October 31, 2021

## **NORTH-EASTERN HILL UNIVERSITY**

Visitor	President of India
Chief Rector	Governor of Meghalaya

### **OFFICERS OF THE UNIVERSITY**

Chancellor	Vacant
Vice-Chancellor	Prof. S. K. Srivastava (upto 23.09.21) Prof. P. S. Shukla (w.e.f. 24.09.2021)
Pro-Vice-Chancellor (Shillong)	Vacant
Pro-Vice-Chancellor (Tura)	(I/c) Prof. G. Singaiah
Registrar	Dr. J. N. Nayak
Finance Officer	Sri. L. M. K. Lyngrah
Controller of Examination	Sri. Debashish Chowdhury (OSD)
Librarian	Dr. F. R. Sumer
Dean, Students' Welfare	Prof. R. L. Nongkhlaw
Dean, School of Humanities	Prof. S. Dkhar (Up to 30.11.21) Prof. Vanlalnghak (w.e.f. 02.12.21)
Dean, School of Education	Prof. C. Nongbri
Dean, School of Technology	Prof. L. Joyprakash Singh
Dean, School of Physical Science	Prof. K. M. Rao
Dean, School of Economics Management & Information Science	Prof. A. P. Pati
Dean, School of Social Science	Prof. K. Debbarma
Dean, School of Life Science	Prof. R. N. Sharan
Dean, School of Human & Environmental Science	Prof. Lucy T. V. Zehol

## Members of the Editorial Board

Prof. T. K. Chakraborty	-	Chairman
Prof. S. Mitra	-	Member
Dr. Q. Marak	-	Member
Prof. M. Renganathan	-	Member
Prof. S. R. Joshi	-	Member
Dr. Barika Khyriem	-	Member
Prof. B.P. Tripathi	-	Member
Prof. Brinda B. Kharbiryumbai	-	Member
Prof. Dwijen Sharma	-	Member
Prof. P. Hangsing	-	Member
Prof. I. Hussain	-	Member
Dr. S. Bhattacharjee	-	Member
Dr. A. Sinha	-	Member
Mr. Ivan Lyngdoh	-	Member
Mr. R.K. Ram	-	Member
Dr. D. Biswal	-	Member
Mr. G. Kharumnuid	-	Member

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# I

## SCHOOL OF ECONOMICS, MANAGEMENT AND LIBRARY SCIENCE

**Dean:** PROF. A. P. PATI  
**Telephone:** 0364-2723131(O) 9436161659 (M)  
**E-mail:** deanemis@nehu.ac.in

### 1. Vision and Mission of the School:

**Vision:** Remain relevant in the sphere of studies related to economics, commerce, management, media and library with the contribution to academics, policy and the society at large.

**Mission:** (i) To impart contemporary education and open new frontiers of research in the relevant fields.

(ii) To build permanent tie ups with government, industry, libraries and media houses.

### 2. Name of the Departments under the School

Sl. No.	Name of the Department
1	Agribusiness Management and Food Technology
2	Commerce
3	Economics
4	Journalism and Mass Communication
5	Library & Information Science
6	Management
7	Tourism and Hotel Management

### 3. Salient Data of the School [during the current year]

Total No. of Students awarded Ph.D. Degree	13
Total No. of Research Publications	
National	National – 41
International	International - 35
Total No. of Books, Book Chapters, and Proceedings	
National	National - 29
International	International - 4
Total No. of Research Projects (Fund Received in Lakhs)	
Completed	3 ( Rs. 4.9 lakhs)
Ongoing	Ongoing –2 (Rs. 125 lakhs)
New	NIL
Total No. of Consultancy Projects (Fund Received in Lakhs)	NIL
a) National	
d) International	

Total No. of Students Placed	10
Selected for Higher Studies	01

**Total No. of Patents: NIL**

Patent(s) Filed		Patent(s) Published		Patent(s) Granted	
National	International	National	International	National	International

**4. Total No. of Policy Documents: NIL**

Policy Documents Applied (Name of the Agency/Government)	Policy Documents Approved/Accepted (Name of the Agency/Government)

**5. Major Achievements/Highlights during the period (such as International Funding/Collaborations, International/National Awards):**

- i. Collaboration with Regional Training Institute, Indian Audit and Accounts Department, Shillong on Accounting Standard of Autonomous District Councils in Northeast India.
- ii. Dr. Sashikumar from the Dept. of Agribusiness Management and Food Technology got the Outstanding Teacher Award for the year of 2022 by Society for Biotic and Environmental Research (SBER), Uttarakhand, India and Excellence in Research Award for the year of 2021 by Omm Shanti Narayan Foundation Trust, Odisha, India

**6. Future Plans**

- i. To start Masters' Programme in Finance and Control
- ii. To start a Post Graduate Diploma in Information Management (Self finance)
- iii. To start other Short-Term Certificate Courses and Self-Financing Courses.
- iv. To conduct an International Film Festival in collaboration with MIFF, October 2022
- v. To start a Meghalaya International Film Festival annual event in Collaboration with Meghalaya Film Society, November 2022

To initiate Action Research Project on Local Government Finance.

# DEPARTMENT OF AGRIBUSINESS MANAGEMENT AND FOOD TECHNOLOGY

**Head :** DR. GINO A SANGMA

**Telephone:** 9612155002

**E-mail :** hodabmft@nehu.ac.in

## Faculty Profile:

Designation	Name and Qualification	Specialization
Assistant Professor	Dr. Gino A Sangma, MBA (NEHU) & Ph.D (NEHU)	Marketing, Agri-Tourism & Value Chain Management
	Dr. Sheena Haorongbam, M.Sc. (Panjab University) & Ph.D. (Panjab University)	Food Biochemistry & Analysis, Quality Control in Food Industry
	Dr. R. Sasikumar, M.Sc. (GBPUA&T) & Ph.D. (Tezpur University)	Food Processing and Technology

## Thrust Areas of Research

Management of Small Business, Agri-Tourism, Agri and Food Marketing, Rural Marketing, Entrepreneurship, Supply & Value Chain Management, Food Biotechnology, Food Processing Technology, Food packaging technology, Fermentation technology, Traditional Knowledge and Food Habits, Certification and quality assurance of foods, Post-Harvest and Processing technology and Management of Fruits & vegetables, Skill Development, Rural extension services, Food Analysis and Hygiene, Underutilized Forest resources, Emerging technology in food processing, Improving phytonutrients rich natural fruit juice by employing green hurdle technology, Production of superior quality juice using state of the art non-thermal processing technology, mitigating ultrasonication, microwave and high voltage cold plasma, Microencapsulation technique to offer specific target delivery system of extracted phytonutrients and developing fermented nutraceutical beverages for an alternative to red grape wine, Non-Thermal/ Non-Conventional Food Processing Technology, Ultrasonication, Thermosonication, High voltage cold plasma processing, Microwave processing, Pulsed Electric fields, Green Technology, Encapsulation by Jet Flow Vibrate Flow Technology, Encapsulation by Spray Drying Technique, Sensory Studies by Fuzzy Logical Mathematic Approach, Nanotechnology application in food processing.

## Students' Profile

**Enrolment Capacity: MBA (ABFT) = 22**

### Enrolment of students from different States of India and Abroad

STATE(Name)	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	5	7	-	-	-	-	-	-	-	-	5	7
Tripura	-	-	-	1	-	-	-	-	-	-	-	-	0	1
Assam	1	1	-	-	-	-	-	-	-	-	-	-	1	1
Manipur	-	-	1	-	-	-	-	-	-	-	-	-	1	0
Arunachal Pradesh	-	-	1	2	-	-	-	-	-	-	-	-	1	2
Mizoram	-	-	1	-	-	-	-	-	-	-	-	-	1	0
Bihar	-	-	-	-	-	-	-	-	1	-	-	-	1	0
Sub Total	1	1	8	10	0	0	0	0	1	0	0	0	10	11
International	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	02		18		00		00		01		00		21	

**Enrolment Capacity: PhD – Variable**

### Enrolment of students from different States of India and Abroad

	Gen	ST	SC	OBC	EWS	PWD	TOTAL
							L

STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	0	1	-	-	-	-	-	-	-	-	-	-	0	1
Assam	1	0	-	-	-	-	-	-	-	-	-	-	1	0
Sub Total	1	1	0	0	0	0	0	0	0	0	0	0	1	1
International	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	02		00		00		00		00		00		02	

### Degrees Awarded

Degree: MBA (ABFT)

### Degrees Awarded to students from different States of India and Abroad

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	2	3	-	-	-	-	-	-	-	-	2	3
Tripura	-	2	-	-	-	-	-	-	-	-	-	-	0	2
Arunachal Pradesh	-	-	6	-	-	-	-	-	-	-	-	-	6	0
Manipur	-	1	-	-	-	-	-	-	-	-	-	-	0	1
Assam	-	-	1	-	-	-	-	-	-	-	-	-	1	0
Sub Total	0	3	9	3	0	0	0	0	0	0	0	0	9	6
International	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	03		12		00		00		00		00		15	

### Research Fellowship

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others
NIL	2	1	NIL	NIL	NIL

### Courses Conducted:

#### Postgraduate – MBA (ABFT)

**Semester-I:** Management Concepts; Managerial Economics; Computer Applications; Business Environment; Quantitative Analysis for Managerial Decision; Accounting for Managers; Financial Management; Management of Food and Agribusiness.

**Semester-II:** Business Communication; Agri-Business Marketing; Human Resource Management in Agri-Business; Operations Management; Supply Chain and Retail Management; Legal Aspects of Business; Fundamentals of Food Processing and Preservation; Tax Laws

**Semester-III:** Research Methods; Entrepreneurship and New Venture Development; Agricultural Credit and Co-operative Management; Agribusiness Management; Agri and Food Marketing; Farm

Business Management; Agricultural Project Management; Agricultural Input Management; ICT in Agribusiness; Food Chemistry and Analysis; Food Microbiology; Unit Operations in Food Processing; Post Harvest Management of Horticultural Crops; Food Additives and Regulations

**Semester-IV:** Strategic Management; Intellectual Property Rights; Commercial Horticulture; Commodity Futures Trading; International Trade in Agriculture; Livestock Production Management; Cereal and Bakery Technology; Food Hygiene and Sanitation; Total Quality Management in Food Industry; Beverages and Fermentation Technology; Project/ Dissertation

#### PhD Courses

Research Methodology; Advances in Food Technology; Advances in Agribusiness Management; Literature Review & Seminar

### Seminars/Conferences/Workshops/Symposia/ Extension Programmes (National/International):

*Attended*

### Dr. Gino A Sangma

Participated in International Teachers Development Programme (I-TDP) jointly organized by the Council for Teacher Education

Foundation (CTEF), Assam Chapter, India and the EduEnergy, Singapore on the topic “Strategies for Artistically Facilitating Project Based Learning Programmes” from 5th May to 20th May, 2021.

Invited as a resource person to deliver a lecture on the topic “Building Resilience” in online workshop on ‘Career Management League – The Game of Life, Vitality of Career Planning and Career Development’ organized by ICAI University Meghalaya on 9<sup>th</sup> July, 2021

Participated in CRiT Summer School on Tourism & SDGs organized by Taylor’s University and Centre for Research and Innovation, Malaysia from 26<sup>th</sup> – 30<sup>th</sup> July, 2021

Invited as a resource person to deliver a lecture on the topic “Agribusiness Prospects and Challenges” at the Orientation and Capacity Building on Agribusiness for Trainers/Managers/Business Planners of BAKDIL organized by BAKDIL, Tura, West Garo Hills held on 11<sup>th</sup> September, 2021 at BAKDIL Training Centre, Tura, Meghalaya.

Invited as a resource person to deliver a lecture on the topic “Perspective of Agriculture and its role and importance for sustainable development” in Webinar organized by Science Departments under the DBT – Star College Scheme, Synod College, Shillong on the occasion of Celebration of the ‘International Year of Fruits and Vegetables – 2021’ held on 24<sup>th</sup> September, 2021.

Presented a paper entitled ‘Identifying the Critical Challenges to Agri-Tourism: An Application of Total Interpretive Structural Modelling Approach’ in the two day National Seminar on ‘Political, Economic and Social Development of NEI since 1947’ with special reference to Meghalaya organized by Tura Christian College, Tura held on 14<sup>th</sup> & 15<sup>th</sup> January, 2022.

Invited as a resource person to deliver a lecture on the topic “Agripreneurship – A Way Forward” at the Basic procedure of developing an entrepreneurship on agri-allied activities, for groups of persons as well as for individuals organized by DDM, NABARD, Williamnagar, East Garo Hills in association with BAKDIL, Tura, West Garo Hills held on 18<sup>th</sup> January, 2021 at Songsak, East Garo Hills, Meghalaya.

Participated in the ‘One Day National Workshop on Upskilling Academicians in Teaching Pedagogy and Research writing’

jointly organized by the Assam Kaziranga University and North Eastern Management Association (NEMA) on 26<sup>th</sup> March, 2022

### **Dr. R. Sasikumar**

International Conference Recent Advances in Agricultural, Biological and Applied Sciences Research-2022 “Novel Alginate and  $\beta$ -Lactoglobulin matrix used as wall material for encapsulation of polyphenols to improve efficiency and stability” at Nagaon, Assam, India on 8<sup>th</sup>-9<sup>th</sup> Aug 2022.

Process Optimization of Microencapsulated Polyphenols from Blood Fruits Pomace Extract by Novel Jet Flow Vibration Technology and Evaluation as a Target Delivery System. *Biotic Science Congress (BioSCon), 2022, International Conference Recent Advances in Agricultural, Biological and Applied Sciences Research-2022*, 8<sup>th</sup> -9<sup>th</sup> Aug 2022.

Nutritional and Anti-Nutrient Composition, Bioavailability, and Acute Toxicity Potential of *Haematocarpus validus*. *Biotic Science Congress (BioSCon), 2022, International Conference Recent Advances in Agricultural, Biological and Applied Sciences Research-2022*, 8<sup>th</sup> -9<sup>th</sup> Aug 2022.

Promotion of Potential Agri-Business Ventures in North-East India: A Way Forward. *International Conference Recent Advances in Agricultural, Biological and Applied Sciences Research-2022*, 8<sup>th</sup> -9<sup>th</sup> Aug 2022.

### **Publications**

#### ***Published in India:***

#### **Dr. Gino A Sangma**

Bandaru, T. R., **Sangma, G.A.**, (2021). Tourist Behavioural Pattern and Motivating Factors to Visit Garo Hills, India, Anvesak – A bi-annual journal VOL.51, No.2 (V) July – December 2021, Sardar Patel Institute of Economic and Social Research, Ahmedabad, India. UGC Care Group 1 Journal, ISSN: 0378-4568

#### **Dr. Sheena Haorongbam**

Premlata, T., **Haorongbam, S.** Rawat, K., Bisht, M.S. and Nirmala, C. (2021). Nutritional and mineral element evaluation in young shoots of different bamboo species of Manipur, India. *Plant Archives*, 21 (2): 777-782.

Barman, A., Kar, A. and **Haorongbam, S.** (2022). Indigenous uses of packing leaves (*Phrynium pubinerve*) and their commercial cultivation for livelihood promotion in

Northeast India, Stochastic Modeling & Applications, 26 (3): 239-244 (January - June, Special Issue 2022 Part - 5), Special Issue on Recent Research on Management, Applied Sciences and Technology.

Barman, A., **Haorongbam, S.** and Barman, R.M. (2022). Estimation of cyanogenic glycoside content of some edible bamboo shoots from Meghalaya, India. Stochastic Modeling & Applications, 26 (3): 223-226, (January - June, Special Issue 2022 Part - 5), Special Issue on Recent Research on Management, Applied Sciences and Technology.

#### **Books.**

**Dr. Gino A Sangma**

**Sangma, G.A,** Akoijam, S.L.S & Bandaru, T. R (2021). Tourism Dynamics: Behaviour, Perception and Challenges, Sunmarg Publisher, New Delhi

#### **Published Abroad:**

**Dr. R. Sasikumar**

**Sasikumar R, &Jaiswal AK** (2022). Influence of pediocin assisted thermosonication treatment on phytonutrients, microbial and sensory qualities of blood fruit juice. *Journal of Food Processing and Preservation*, 46(9), 1-8, <https://doi.org/10.1111/jfpp.17105>.

**Sasikumar R, Das D** (2021). Effect of conventional and nonconventional treatments on physicochemical properties and phytonutrients composition of blood fruit (*Haematocarpusvalidus*) juices. *arpathian Journal of Food Science and Technology*, Accepted,

**Sasikumar R, Das AJ, Deka SC** (2021). In vitro cytoprotective activity of cyanidin 3-glucoside extracts from *Haematocarpusvalidus* pomace on streptozotocin induced oxidative damage in pancreatic  $\beta$ -cells. *Saudi Journal of Biological Sciences*, 28(7), 1-14. <https://doi.org/10.1016/j.sjbs.2021.05.065>.

Vivek K, Singh SS, **Sasikumar R**, Sami R (2021). Consumer preference study on combined ultrasound and sodium hypochlorite treated fresh cut kiwifruits coated with chitosan using the fuzzy logic approach. *The Journal of*

#### **IPR Items:**

##### **(a) Patents:**

##### **National**

*Microbiology, Biotechnology and Food Sciences*, <https://doi.org/10.15414/jmbfs.4054>.

**Sasikumar R, Vivek K, Jaiswal AK** (2021). Effect of spray drying conditions on the physical characteristics, amino acid profile and bioactivity of blood fruit (*Haematocarpusvalidus* Bakh.F.Ex Forman) seed protein isolate. *Journal of Food Processing and Preservation*, 44(12),

<https://doi.org/10.1111/jfpp.15401>

**Sasikumar R, Das D, Jaiswal AK** (2021). Effects of extraction methods and solvents on the bioactive compounds, antioxidant activity and storage stability of anthocyanin rich blood fruit (*Haematocarpusvalidus*) extracts. *Journal of Food Processing and Preservation*, 43 (11). <https://doi.org/10.1111/jfpp.15401>.

#### **I. Book Chapters.**

**Dr. Sheena Haorongbam**

Kurbah N. and Haorongbam S. 2022. Nanotechnology: Emerging Technology for Food Preservation, Part II, Chapter 5, In: Nanotechnology Horizons in Food Process Engineering (Food Preservation, Food Packaging and Sustainable Agriculture), Volume 1, Editors Megh R. Goyal, Junaid Ahmad Malik, Satish Kumar, and Ritesh Balaso. Watharkar, ISBN: 9781774910603" under book series "Innovations in Agricultural & Biological Engineering", Apple Academic Press, Inc. & CRC & Taylor and Francis Publishers (Accepted chapter, Hardcover due in August 2022), 437 pp.

Deb, U. and Haorongbam, S. 2022. Citrus as a nutraceutical food: Prospects for utilization of varieties untapped from Meghalaya, India, Part III, Chapter 10. In: Novel and Alternate Methods in Food Processing, Biotechnological, Physicochemical, and Mathematical Approaches, Editors N. Veena and Megh R. Goyal, Ritesh B. Watharkar, ISBN 9781774911624" under book series "Innovations in Agricultural & Biological Engineering", Apple Academic Press, Inc. & CRC & Taylor and Francis Publishers (Accepted chapter, Hardcover due in December 2022), 378 pp.

**Published****I. Dr. R. Sasikumar**

Title	Application No.	Date of filed	Date of published
Development of design and process of low-cost hydro-steam distillation of tezpatta oil	202131060463	24/12/2021	05/08/2022

**Consultancy:**

Title of Consultancy Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of the Consultant	Multi/Sin gle Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Development of Vegetative Propagation Protocol and Vacuum Freeze Dehydrated Probiotic Powder from Sohiong (Prunus Nepalensis) Fruit	Ongoing	Dr. R. Sasikumar (PI)/ Prof. C.P. Suresh (Co-PI)	Multi (2021-2024)	Department of Biotechnology (DBT), New Delhi	INR 120 L

**Honours/Awards/Recognition/Membership/Fellowship**

Dr. R. Sasikumar

- ✓ Best Teacher Award for the year of 2021 by Omm Shanti Narayan Foundation Trust,
- ✓ Outstanding Scientist Award for the year of 2021 by Omm Shanti Narayan Foundation Trust,
- ✓ Excellence in Research Award for the year of 2021 by Omm Shanti Narayan Foundation Trust
- ✓ Outstanding Teacher Award for the year of 2022 by Society for Biotic and Environmental Research (SBER)

**Other Activities**

Dr. Sheena Haorongbam: Reviewer:

Indian Journal of Traditional Knowledge, SCI listed Journal, Journal ISSN: 09751068, 09725938,

Publisher: National Institute of Science Communication and Information Resources

**SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022**

Details of Faculties	Name		1	Dr. Gino A Sangma	Dr. Sheena Horongbam	Dr. R. Sasikumar
	Date of Joining		2	11.06.2012	30.07.2012	09.08.2012
	Field of specialisation		3	Marketing, Agri-Tourism & Value Chain Management	Food Biochemistry & Analysis, Quality Control in Food Industry	Food Processing and Technology
(A) Teaching Experience (in Years)	UG		4	Nil	Nil	2
	PG, including PhD		5	11	9	9
(B) Research	Basic Research		6	Nil	2	1
	Applied Research		7	1	3	3
	Action Research		8	Nil	Nil	2
	Project Submitted		9	Nil	Nil	2
	Ongoing Project		10	Nil	Nil	1
	Research Paper in UGC care list journals	Group I	11	1	3	6
		Group II	12	Nil	Nil	Nil
	Books /Books chapters Published	Books	13	1	Nil	Nil
		Book Chapters	14	Nil	2	Nil



activities	Popular Articles (News Paper/ Magazines)		15	Nil	Nil	Nil
	Seminar / Conference/ Symposia organized	National	16	Nil	Nil	Nil
		International	17	Nil	Nil	Nil
	Seminar / Conference/ Symposia attended	National	18	1	Nil	Nil
		International	19	Nil	Nil	2
	Conference Proceedings		20	Nil	Nil	Nil
	Consultancy		21	Nil	Nil	Nil
(C) Patent	Applied		22	Nil	Nil	1
	Published		23	Nil	Nil	1
	Granted		24	Nil	Nil	Nil
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	Nil	Nil	Nil
(E) Any Other	Teaching /Extension /outreach activities		26	4	Nil	2
	Responsibilities other than teaching		27	Yes	Nil	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	Nil	Nil	2
	Collaborations	National	29	Nil	Nil	Nil
		International	30	Nil	Nil	Nil

## DEPARTMENT OF COMMERCE

**Head :** Dr. R.A.J. SYNGKON  
**Telephone :** 0364-272-3168/ 3161/ 3162  
**E-mail :** [hodcom@nehu.ac.in](mailto:hodcom@nehu.ac.in)

### Faculty Profile:

Designation	Name and Qualification	Specialization
<b>Professor</b>	N.M. Panda, M.Com, (Utkal University) & Ph.D, (Manipur University)	Management Accounting & Entrepreneurship
	A.P. Pati, M.Com, Ph.D, (Utkal University) & CMA (ICAI, Kolkata)	Finance
	K.C. Kabra, M.Com & Ph.D, (JRN Raj. Vidyapeeth University, Udaipur)	Accounting & Finance
<b>Assistant Professor</b>	R.A.J. Syngkon, M.Com & Ph.D (NEHU)	Managerial Economics & Entrepreneurship
	S. Kharmawphlang, M.Com & Ph.D (NEHU)	Entrepreneurship & Marketing

### Thrust Areas of Research:

Imparting education for creating and managing business enterprises in an emerging economy of NER region. Socially relevant research work, awareness programmes, etc. are also conducted from time to time. The thrust areas of research in the Department include –

a. Microfinance, Banking, Corporate Governance, Corporate Social Responsibility & Dividend Policy, Environmental Accounting including Carbon Performance & Carbon Disclosure, Integrated Reporting under Accounting & Finance.

b. Entrepreneurship, Small Business Management, Small Enterprises Finance & Marketing under Entrepreneurship & Management.

### Students' Profile

**Enrolment Capacity: M.COM (62); Ph.D – Variable**

### Enrolment of students from different States of India and Abroad

M.COM	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE (Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	1	2	13	32	-	-	-	-	-	-	2	-	34	16
Manipur	-	-	-	5	-	-	-	-	-	-	-	-	5	-
Mizoram	-	-	-	1	-	-	-	-	-	-	-	-	1	-
Sub Total	1	2	13	38	-	-	-	-	-	-	2	-	40	16
Ph.D	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	-	-	1	-	1	-	-	-	-	-	-	2	-
Bihar	-	1	-	-	-	-	-	-	-	-	-	-	1	-
Meghalaya	-	-	-	1	-	-	-	-	-	-	-	-	1	-
Sub Total	-	1	-	2	-	1	-	-	-	-	-	-	4	-

### Degrees Awarded

**Degree: M.COM & Ph.D.**

### Degrees Awarded to students from different States of India and Abroad

M.COM	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh			1	1									1	1
Assam									1	1			1	1
Manipur			2	1									2	1
Meghalaya	3	3	1	1									2	19
Mizoram	1													
Nagaland			1	1									1	1
Sub Total	4	3	2	1					1	1			2	23
International (Bangladesh)		1												
Total		1												1
Ph.D	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam								1						1
Meghalaya				1										1
Sub Total														2

### Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Binita Topno	“A DESCRIPTIVE STUDY ON THE ENTREPRENEURIAL PROPENSITY AMONG THE ADIVASIS OF ASSAM”.	Dr. R.A.J Syngkon
Ridameka Chyne	“WOMEN ENTREPRENEURSHIP IN A MATRILINEAL SOCIETY: A STUDY OF THE KHASI TRIBE IN MEGHALAYA”.	Dr. R.A.J Syngkon

### Placement of Students:

Though there is an absence of proper record as regards placement of students, but it is known that almost all passing out students are quickly placed in jobs like teaching, marketing, banking & insurance. Amazon, KPMG, AG, NRHM, BSNL, Govt Departments, Schools, Colleges, Banks (both national and state) is amongst few who recruit post-graduate students. Some join further studies leading to research. Some prefer to go for their own businesses.

### Research Fellowship

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others
3	6	1	-	-	-

### Courses Conducted:

#### Postgraduate (M.Com)

Semester-I: Business Environment, Managerial Economics, Organization Behavior,

Financial Analysis and Reporting, Statistics for Decision Making.

Semester-II Financial Management, Human Resource Management, International Business, Services Management, NGO Management, Accounting for Services.

Semester-III: Financial Markets and Instruments, Marketing Management, Corporate Accounting, Derivatives and

Risk Management, Entrepreneurship, *Business Survey and Research*.

Semester-IV: Management Accounting, Venture Creation, Strategic Management, International Accounting and Reporting, Security Analysis and Portfolio Management, and Management of Small Business.

**Seminars/Conferences/Workshops/Symposia/ Extension Programmes (National/International):**

**Organized**

**K.C. Kabra**

Coordinated BSE-SEBI-CDSL sponsored Live Webinar on “*INVESTOR AWARENESS AND THE ROLE OF REGULATORS*” held on 16<sup>th</sup> April 2021 Organized by the Department of Commerce, NEHU, Shillong.

Coordinated at a State Level, a Lecture in blended mode on “*YOGA FOR PHYSICAL AND MENTAL HEALTH*” organized by University Level Yoga Committee, NEHU, Shillong on 2<sup>nd</sup> October 2021 where Prof H R Nagendra, Vice-Chancellor, S-VYASA University, Bengaluru delivered a speech.

Coordinated a Webinar on “*STRATEGY FOR MANAGING PERSONAL FINANCE*” held on 27<sup>th</sup> October 2021 Organized by the Department of Commerce, NEHU, Shillong in Collaboration with Association of Mutual Funds in India.

**Attended:**

**N.M. Panda**

Paper Presentation:

“Audit committee’s gender diversity and firm performance: empirical evidence from select Indian industries” A research paper presented in the international conference on emerging trends in Accounting and Finance (ICETAF) 2021, organised by Tezpur University on 11<sup>th</sup> – 12<sup>th</sup> November 2021.

“Entrepreneurial Intention: The Moderated Mediated effect of Gender and Entrepreneurship Education” A research paper presented in the 11<sup>th</sup> edition of Conference on Excellence in Research and Education (CERE) organised by IIM, Indore during 18-20 June 2021 at IIM, Indore.

**K.C. Kabra**

Presented a paper titled “Mediation of Voluntary Disclosure in Corporate Governance and Firm Performance Relationship: Indian Evidence” in an International Conference on Emerging Trends

**Ph.D.**

Research Methodology, *Management Theory & Entrepreneurship, Accounting and Finance Theory*, and Literature Review in concerned area.

in Accounting and Finance organized by the Department of Commerce, Tezpur University, Tezpur, Assam from 11<sup>th</sup> – 12<sup>th</sup> November 2021. Presented a paper titled “Corporate Social Responsibility Expenditure by Top Listed Companies in India: Trend and Pattern” in an International Conference on Financial Accounting Norms and Forensic Accounting organized by the Department of Commerce, University of Kerala from 7<sup>th</sup> – 15<sup>th</sup> March 2022.

**Publications:**

**Published in India:**

N.M. Panda- 4  
Hussein, S.S., Maji S.G., Panda N.M, THE IMPACT OF BUDGET PARTICIPATION ON MANAGERIAL PERFORMANCE: EVIDENCE FROM MANUFACTURING FIRMS OF IRAQ. *SCMS Journal of Indian Management* 18 (3). (Scopus)  
Baruah, L. and Panda N.M, THE IMPACT OF CORPORATE SOCIAL RESPONSIBILITY ON REPUTATION: A STUDY ON TOP 100 COMPANIES OPERATING IN INDIA, *Metamorphosis* 20 (2), 99-105. (Scopus)

Passah, K.H and Panda N.M, A STRUCTURAL RELATIONSHIP MODEL OF GENDER-ROLE ORIENTATION AND ENTREPRENEURIAL INTENTION: EXAMINING THE MEDIATING EFFECT OF MOTIVATIONAL ANTECEDENTS IN NORTHEAST INDIA, *International Journal of Gender and Entrepreneurship*, 14(2), 167-187. (Scopus)

Deb, R and Panda, NM, SOCIAL ENTREPRENEURSHIP IN SECONDARY EDUCATION OF ASSAM: CREATION AND PURSUANCE OF WORTHY OPPORTUNITIES, *AMC Indian Journal of Entrepreneurship* 4 (2-3), 35-48.

A.P. Pati

Pati, A. P. (2021). STRUCTURAL TRANSFORMATION, PROFIT, AND COST: WHAT DRIVE(S) MISSION DRIFT IN INDIAN MICROFINANCE? *International Journal of Rural Management*, 17 (1): 75-92. DOI: <https://doi.org/10.1177/0973005220965004>

Bhattacharje N. and Pati, A. P. (2021). EFFICIENCY OF SHADOW BANKS IN INDIA AND ITS DRIVERS, *Global Business Review*, Online First: 18.11.2021, DOI: <http://10.1177/09721509211056473>

#### K.C. Kabra

Saha, R. & Kabra, K.C. (2021). IS VOLUNTARY DISCLOSURE VALUE RELEVANT? EVIDENCE FROM TOP LISTED FIRMS IN INDIA. *Vision*. 1-11. <https://doi.org/10.1177/0972262920986293>

Makan, L. T., & Kabra, K. C. (2021). THE VALUE RELEVANCE OF CARBON PERFORMANCE: EMPIRICAL EVIDENCE FROM LARGE GLOBAL COMPANIES. *Journal of Education*. XXIII 6(III): 289-294.

R. A. J. Syngkon

Lyngdoh, V.S. & Syngkon, R.A.J. (2021) ANALYSING THE ENTREPRENEURS CHARACTERISTICS AND ENTERPRISE GROWTH: A STUDY OF MSMES IN MEGHALAYA. *Anvesak*, 51 (02), 34-40

#### Funds Received during the current Year

##### (A) Bulk Grant to Department/Centre/Section etc. other than EMR grant

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	<b>6.40</b> (includes Annual Allocation, Grant for purchase of Capital Assets/small equipments & EWS)

#### Honours/Awards/Recognition/Membership/Fellowship:

##### A.P. Pati

Conferred as Fellow Member of Orissa Commerce Association in the year 2021.

#### Other Activities:

##### N.M. Panda

Contributed as Resource Person in AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "*Strategic Management in New Economic Environment*" from 22/09/2021 to 26/09/2021 at Tezpur University and presented a talk on the topic "THE CONCEPT OF BUSINESS STRATEGY AND STRATEGIC MANAGEMENT"

Participated as a Resource Person in the 5<sup>th</sup> Faculty Induction Programme for college and university teachers organized by HRDC, NEHU and delivered talk on two topics ; TEACHER'S ROLE, RESPONSIBILITY AND

#### Book Chapters:

K.C. Kabra

Kabra K. C., Singh B. (2022). COMMERCE EDUCATION IN MIZORAM: PAST AND PRESENT IN *COMMERCE EDUCATION IN NORTH EAST INDIA: CENTENNIAL JOURNEY*. A Rajamani Singha (Eds.). Akansha Publishing House, New Delhi, Chapter 19, pp. 216-230.

#### Published Abroad:

##### K.C. Kabra

Makan, L. T., & Kabra, K. C. (2021). CARBON EMISSION REDUCTION AND FINANCIAL PERFORMANCE IN AN EMERGING MARKET: EMPIRICAL STUDY OF INDIAN FIRMS. *Indonesian Journal of Sustainability Accounting and Management*, 5(1): 23–32. <https://doi.org/10.28992/ijSAM.v5i1.292>.

Saha, R. and Kabra, K.C. (2022), CORPORATE GOVERNANCE AND VOLUNTARY DISCLOSURE: EVIDENCE FROM INDIA, *Journal of Financial Reporting and Accounting*, 20(1): 127-160. <https://doi.org/10.1108/JFRA-03-2020-0079>.

CHALLENGES ( on 6<sup>th</sup> Sept. 2021 ) and EVALUATION: THE CONCEPT AND THE APPROACHES ( 8<sup>th</sup> Sept. 2021)

##### A.P. Pati

Acted as Resource Person and delivered an invited lecture on HOW TO WRITE A RESEARCH PAPER in the *refresher course ON ECONOMICS AND BUSINESS STUDIES* during 7<sup>th</sup> to 20<sup>th</sup> Feb 2022.

Acted as Resource Person and delivered an invited lecture on WRITING AND EFFECTIVE RESEARCH PAPER IN THE ON LINE TWO WEEKS' CAPACITY BUILDING PROGRAM FOR YOUNG SOCIAL SCIENCE FACULTY organized by Department of

Management and Placement & Counselling Cell, NEHU during 7<sup>th</sup> to 18<sup>th</sup> Feb 2022.

Acted as Resource Person in the Round Table on UNION BUDGET 2022 organised by the ICSSR, NERC, Shillong on 24<sup>th</sup> Feb 2022.

Participated in the National Workshop on LEADERSHIP DEVELOPMENT FOR UNIVERSITY DEANS AND HEAD OF THE DEPARTMENTS organized by the Department of Higher and Professional Education during March 02-04 2022 at NIEPA, New Delhi through Online Mode.

Reviewer of INTERNATIONAL JOURNAL OF RURAL MANAGEMENT

K.C. Kabra

Acted as a Resource Person and Delivered a talk on “Corporate Social Responsibility (CSR) in times of Pandemic” held on 14<sup>th</sup> June 2021

organised by the IQAC Cell, Thomas Jones Synod College, West Jaintia Hills District, Jowai (Meghalaya).

Reviewer of FIIB Business Review: A Sage Journal.

Acted as a Resource Person and Delivered a talk on “Integrated Reporting” held on 2<sup>nd</sup> November 2021 at the UGC-HRDC, NEHU organised by the Department of Commerce, NEHU, Shillong R.A.J. Syngkon

Member, Board of Management, Jowai Cooperative Urban Bank, Jowai.

Coordinated a Refresher Course in COMMERCE AND ENTREPRENEURSHIP held from 20<sup>th</sup> October, 2021 till 2<sup>nd</sup> November 2021 at the UGC-HRDC, NEHU organised by the Department of Commerce, NEHU, Shillong.

S. Kharmawphlang- 1  
Programme Officer, NSS, NEHU Unit

#### SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	Name		1	Nagari Mohan Panda	Ambika Prasad Pati	Kailash Chandra Kabra
	Date of Joining		2	16.09.1985	29.04.2022	18.09.1993
	Field of specialisation		3	Management Accounting & Entrepreneurship	Finance	Accounting & Finance
(A) Teaching Experience (in Years)	UG		4	2	1.5	11
	PG, including PhD		5	38	25	20
(B) Research activities	Basic Research		6	NO	NO	NO
	Applied Research		7	NO	YES	4
	Action Research		8	NO	NO	NO
	Project Submitted		9	NO	NO	NO
	Ongoing Project		10	NO	NO	NO
	Research Paper in UGC care list journals	Group I	11	1	NO	1
		Group II	12	2	2	3
	Books /Books chapters Published	Books	13	NO	NO	NO
		Book Chapters	14	NO	NO	1
	Popular Articles (News Paper/ Magazines)		15	NO	NO	NO
	Seminar / Conference/ Symposia organized	National	16	NO	NO	NO
		International	17	NO	NO	NO
	Seminar / Conference/ Symposia attended	National	18	NO	NO	NO
		International	19	NO	NO	2
	Conference		20	NO	NO	NO

	Proceedings					
	Consultancy		21	NO	NO	NO
(C) Patent	Applied		22	NO	NO	NO
	Published		23	NO	NO	NO
	Granted		24	NO	NO	NO
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	NO	NO	NO
(E) Any Other	Teaching /Extension /outreach activities		26	YES	YES	7
	Responsibilities other than teaching		27	YES	YES	1
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	NO	YES	NO
	Collaborations	National	29	NO	NO	NO
		International	30	NO	NO	NO

Details of Faculties	Name		1	Ricky A J Syngkon	Shimti Kharmawphlang
	Date of Joining		2	10.04.2002	14.12.2005
	Field of specialisation		3	Entrepreneurship	Management
(A) Teaching Experience (in Years)	UG		4	4	5 years
	PG, including PhD		5	24	17 years
(B) Research activities	Basic Research		6	NO	NO
	Applied Research		7	YES	NO
	Action Research		8	NO	NO
	Project Submitted		9	NO	NO
	Ongoing Project		10	NO	NO
	Research Paper in UGC care list journals	Group I	11	1	NO
		Group II	12	NO	NO
	Books /Books chapters Published	Books	13	NO	NO
		Book Chapters	14	NO	NO
	Popular Articles (News Paper/ Magazines)		15	NO	NO
	Seminar / Conference/ Symposia organized	National	16	NO	NO
		International	17	NO	NO
	Seminar / Conference/ Symposia attended	National	18	NO	1
		International	19	NO	NO
(C) Patent	Conference Proceedings		20	NO	NO
	Consultancy		21	NO	NO
	Applied		22	NO	NO
	Published		23	NO	NO
(D)	Granted		24	NO	NO
	MOOC/SWAYAM/ E-		25	NO	NO

E-Content	content developed				
(E) Any Other	Teaching /Extension /outreach activities		26	YES	YES
	Responsibilities other than teaching		27	YES	YES
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	NO	NO
	Collaborations	National	29	NO	NO
		International	30	NO	NO



## DEPARTMENT OF ECONOMICS

**Head:** PROF. S. UMDOR  
**Telephone:** 2723171(O)/9436117388 (M)  
**E-mail:** [hodeco@nehu.ac.in](mailto:hodeco@nehu.ac.in) /[sumdor11@gmail.com](mailto:sumdor11@gmail.com)

### Faculty Profile:

Designation	Name and Qualification	Specialization
Professor	Dr. P. Nayak, M.A (Utkal)., Ph.D (IIT Kharagpur)	Human Development, Women Empowerment
	Dr. B. Mishra, M.A., Ph.D (Utkal)	Public Economics, Political Economy, Fiscal and Budgetary Theory
	Dr. U.K. De, M.Sc., M. Phil, Ph.D. (Burdwan)	Applied Econometrics, Environmental and Resource Economics, Agricultural Economics, Development Economics, Empowerment of Women
	Dr. B. Panda, M.A (Utkal), M. Phil (Berhampur), Ph. D (Utkal)	Development Economics, Act East Policy and Rural Development
	Dr. S. Umdor, M.A., Ph. D. (NEHU)	Development Economics, North East Economy, Local Government Finance
	Dr. P.S. Suresh, M.A., M. Phil (S.V. Univ.), Ph.D.(Hyd.)	Financial Economics
Associate Professor	Dr. V. Pala, M.A., Ph.D. (NEHU)	Poverty analysis, Labour market studies, intergroup disparities.
	Dr. D. Nongkynrih, M.A, Ph. D (NEHU)	Development issues related to North East India – Employment, Unemployment
Assistant Professor	Dr. D.W. Thangkhiew, M.A., Ph.D. (NEHU)	Macroeconomics
	Dr. W. Tariang, M.A., Ph. D (NEHU)	Agriculture Economics, Gender & Poverty

### Thrust Areas of Research

Public Economics, Budgetary Economics, Political Economy, Environmental and Resource Economics, Applied Econometrics, Agricultural Economics and Rural Development, Tourism Valuation, Climate Change and Adaptation, Issues on Empowerment of Women, Economics of Development, Northeast Economy, Autonomous District Councils' Finance and Local Economic Development, Labour Economics, Rural Studies and Gender, Poverty analysis, labour market studies, econometrics, Macroeconomics, Gender and Poverty, Agriculture economics, Economics of social sector.

### Brief Statement of Academic Activities and achievements:

The total number of PG students and Ph.D Scholars enrolled in the department is 161. Besides teaching, research guidance and ongoing project works of individual teachers, the department has conducted (i) Consultative Workshop with RTI Shillong (Indian Audit and Account Department) on Local Government Accounting in India as part of MOU signing programme organised by NEHU held on 22/3/2022 (ii) National Workshop on Empowering the Youth through Financial Literacy Skills held on 24/3/2022.

**Enrolment Capacity: M.A./M.Sc./M.Tech./Any other (Please mention)\_\_\_\_\_ PhD – Variable**

### Enrolment of students from different States of India and Abroad

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	MA/M.Sc.													
	-	-	-	2	-	-	-	-	-	-	-	-	-	2
	Ph.D													
	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Assam	MA/M.Sc.													
	-	2	-	1	-	1	-	-	1	6	-	-	1	10
	Ph.D													
	-	5	-	2	-	-	-	2	-	-	-	-	-	9
Manipur	MA/M.Sc.													
	-	1	3	5	-	-	-	-	-	-	-	-	3	6
	Ph.D													
	-	-	1	1	-	-	-	1	-	-	-	-	1	2
Meghalaya	MA/M.Sc.													
	-	1	24	74	-	-	-	-	-	-	1	-	25	75
	Ph.D													
	-	-	5	6	-	-	-	-	-	-	-	-	5	6
Mizoram	MA/M.Sc													
	-	-	-	3	-	-	-	-	-	-	-	-	-	3
	Ph.D													
	-	-	1	1	-	-	-	-	-	-	-	-	1	1
Nagaland	MA/M.Sc.													
	-	-	-	5	-	-	-	-	-	-	-	-	-	5
	Ph.D													
	-	-	1	2	-	-	-	-	-	-	-	-	1	2
Tripura	MA/M.Sc.													
	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Sub Total	-	9	35	104	-	1	-	3	1	6	1	-	37	123
International Bhutan													1	-
Total	9		139		1		3		7		1		161	

## Degrees Awarded

**Degree: B.Tech./ B.Arch/ BA(LLB)/ M.A./ M.Sc./ Ph.D.**

### Degrees Awarded to students from different States of India and Abroad

MA/M.Sc.														
	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	1	2	-	2	-	-	-	2	1	1	-	-	2	7
Manipur	-	-	4	2	-	-	-	-	-	-	-	-	4	2
Meghalaya	-	1	6	19	-	1	-	-	-	-	-	-	6	21
Mizoram	-	-	4	3	-	-	-	-	-	-	-	-	4	3
Nagaland	-	-	-	1	-	-	-	-	-	-	-	-	-	1
<b>Sub Total</b>	<b>1</b>	<b>3</b>	<b>14</b>	<b>27</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>16</b>	<b>34</b>
<b>International</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Total</b>	<b>4</b>		<b>41</b>		<b>1</b>		<b>2</b>		<b>2</b>		<b>-</b>		<b>50</b>	

### Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
-	-	-

## Placement of Students

Name of the Student(s)	Name of the Programme	Post Held	Place of Work
-	-	-	-

## Students selected for Higher Studies:

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
-	-	-	-

## Research Fellowship

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others
10	14	-	-	-	-

## Fieldwork/Educational Tour of Students

### Teacher-in-Charge:

### Places/Institutions Visited:

### Duration of Tour (Dates and number of days):

### Purpose of Tour:

### Courses Conducted:

### Postgraduate (M.A/M.Sc.)

#### Semester-I:

Microeconomics Analysis-I, Macroeconomics-I, Mathematics for Economists, Economics of Growth & Development-I, Classical Political Economy.

#### Semester-II:

Microeconomics-II, Macroeconomics-II, Techniques of Statistical Analysis, Economics of Growth & Development-II

## Seminar/Conference/Symposium/Extension

### Programme etc

### Organized:

Prof. B. Panda

Organised as Course Director a 11 days online Research *Methodology course with special focus on NSS data extraction* for the research scholars of the North East from 1st to 11th December 2021, ICSSR-NERC, Shillong

(online).In collaboration with ICARE, Shillong, organised as Co-convenor a one-day consultative workshop on “*Community Engagement in Covid-19 Prevention and Control in Meghalaya; lessons Learned and*

Open Course: Budgetary Theory & Practice, Econometrics-I.

#### Semester-III:

Elementary Econometrics, International Economics, Industrial Economics.

Open Course: Economics of Agriculture, Financial Economics, Economy of North-Eastern Region.

#### Semester-IV:

Fundamentals of Financial Markets, Indian Economic Problems and Policy, Environmental Economics, Economics of Social Sector, Public Economics.

#### Ph.D. Courses

Research Methodology in Economics, Contemporary Economic Issues, Review of Literature.

*Future Strategies*’ held on 20th of December 2021, at ICSSR-NERC, Shillong.

Organised as convener *A Roundtable on Budget 2022-23* in the conference hall of ICSSR-NERC on 24th February 2022 with experts and participants from all across the country (blended mode).

As the convener organised an extension programme of *MOU signing ceremony between NEHU and Regional Training Institute, Shillong and Consultative Workshop on ADC’s Accounting* on 22nd March 2022 at ICSSR-NERC, Shillong.

Prof. S. Umdor

Consultative Workshop on Local Government Accounting in India’ (in collaboration with Regional Training Institute, Indian Audit & Accounts Department, NE Region, Shillong),

22<sup>th</sup> March, 2022 at ICSSR-NERC, NEHU Shilong. Prof. S. Umdor (Convener).  
'National Workshop on Empowering the Youth through Financial Literacy Skills, organised on 24<sup>th</sup> March, 2022 at ICSSR, NERC, NEHU Shillong. Prof. S. Umdor (Convener).

Dr. D. Nongkynrih

*Ten Days Research Methodology Course for M.Phil/Ph.D./ PDF scholars in Social Sciences* 1<sup>st</sup> -11<sup>th</sup> December, 2021, Online. Course Director Prof. R. Mahanta, Department of Economics, Guwahati University and Co-Course Director Dr. Deigracia Nongkynrih, Department of Economics, NEHU, Shillong.

#### **Attended:**

##### **Prof. B. Mishra**

Prof. B. Mishra was invited as a Resource Person to deliver a lecture in the 5-Day Workshop on 'Organisational values, Ethics and Workplace Etiquettes' organized by Bharatiya Bhavan Institute of Management Science, Kolkata on 15<sup>th</sup> November, 2021

Prof. B. Mishra was invited as a Resource Person to deliver a keynote address on 'Real and Perceived Conflict of interest in Research: An overview of Ethics and Human Interface' in the International Webinar on "Contemporary Research Methods", organized by Research Forum- India, New Delhi, on 25<sup>th</sup> November, 2021.

Prof B. Mishra acted as a Resource Person in the AICTE-ISTE sponsored Orientation program conducted by the Department of Management, Assam Down Town University and delivered a lecture on "Research Skill Development for Management Faculty on 23<sup>rd</sup> December, 2021.

Prof. B. Mishra was invited as a Resource Person to deliver a lecture on "Professional Values and Ethics in overall Institutional Development" in the Capacity Building Program for Teachers in Social Sciences organized by the Department of Management, NEHU, Tura Campus on 17<sup>th</sup> February, 2022

Prof. B. Mishra was invited as a Resource person to deliver a keynote lecture in a ICSSR Sponsored Two-Day National Seminar on "Contemporary Economic Issues of Developing Countries" organised by the Department of Economics, Assam Don Bosco University, Guwahati on 14<sup>th</sup> March, 2022.

Prof. U. K. De

Delivered *Special Lecture* on "Role of Science & Technology on Sustainable Development and Empowerment of Women" in the National Seminar on 'Science and Technology for Sustainable Development with Women Empowerment' organized by Pathar Pratima Mahavidyalaya, West Bengal in collaboration with Indian Science Congress Association, Kolkata Chapter on 31-03-2022.

Delivered *Keynote Address* on "A Critical Analysis of Budget Provisions and Development Prospects" in the National Seminar on 'Socio-Economic Issues & Regional Development' organized by the Kokrajhar Government College on 12 Feb, 2022.

Presented paper on "Impact of COVID-19 Pandemic on the Tourism Sector of India" in 22<sup>nd</sup> Annual Conference of NEEA organized by the Centre for Development Studies, Department of Economics, Rajiv Gandhi University, Arunachal Pradesh on 14-15 December, 2021.

Delivered *Invited Lecture* on "Challenges of Growth and Employment in India during pandemic and Policy Options" at the techno India University, West Bengal on 21<sup>st</sup> August, 2021.

Delivered *Keynote Address* on "Socio-Economic Development Issues under Pandemic in India" at the National Webinar on "Problems and Prospects of Socio-Economic Development and Demographic Issues of Scheduled Tribes of North-East India" during July 30-31, 2021. Department of Geography, Bodoland University, Kokrajhar, Assam.

Chaired a session and presented paper on "Adaptation of Sustainable Strategies during Covid-19 Pandemic: A Case Study of Tourism Industry Stakeholders in India" in the Global Hospitality and Tourism Conference on Contemporary Marketing Paradigms (GHTC) during 27-29 July, 2022 at NERIST, Arunachal Pradesh.

##### **Prof. B. Panda**

Prof. Bhagirathi Panda delivered the Keynote Address entitled "Social Science Research in North East India: An Analysis" in the ICSSR-NERC sponsored one week online national workshop on *Advanced Research Methodology in Social Sciences and Academic Writings* organised by Kumar Bhaskar Varma Sanskrit and Ancient Studies University from 24-30th August 2021(online).

Prof. Bhagirathi Panda delivered the Keynote Address entitled “Sustainable Development , Entrepreneurship and Higher Education-The Linkage” in the *National Webinar on Higher Education, Entrepreneurship and Sustainable Development* organised by I.G.Govt College, Tezu, Arunachal Pradesh on 23-24th August 2021(online).

Prof. Bhagirathi Panda, made the panellist presentation entitled “Rebuilding Tourism in Meghalaya: Some Reflections” in the National webinar on *Rebuilding Tourism in Meghalaya* organised by Tour Operators Association of Meghalaya (TOAM) on 30th June 2021, Shillong(online)

Prof. Bhagirathi Panda delivered an invited lecture entitled “Importance of Research and Research Methodology courses for effective public Policy” in the 10 days *national workshop on Research Methodology and the Research Process in Social Sciences*, organised by Women's College, Shillong from 20th July 2021 to 2nd August 2021.

Prof. Bhagirathi Panda delivered the inaugural address entitled “Human Rights Education in North East India: Issues and Challenges” in the one week online Inter-disciplinary National Workshop on *Human Rights Education in North East India: Issues and Challenges* organised by CESR, Guwahati in collaboration with department of political sciences, Moridhal College, Dhemaji and Morigaon College, Morigaon, Assam from 7th to 13th August 2021(online).

Prof. Bhagirathi Panda as Guest of Honour delivered a lecture entitled ‘Changing Contours of Educational Landscape and Professional Development of Teachers’ in the 21 Day ‘*International Workshop cum Faculty Development Programme on Innovative Techniques for Professional Development of Teachers in Higher Education*’ organised by the Department of Education, NEHU in collaboration with the department of Philosophy, Moran College, Moranhat, Assam from 1-21st September 2021.

Prof. Bhagirathi Panda delivered the Valedictory address entitled “Reimagining Tribal Identity: Issues and Implications” in the International Webinar on *Tribal Identity: Concept and Implications*, organised by Synod College, Shillong on 10th September 2021.

Prof. Bhagirathi Panda chaired the 7th technical session “Impact of and Adaptation to Climate

Change” in the *International Conference on Political Economy of Climate Change: Convergences and Divergences in Asia* organised online by the Association of Asian Scholars, New Delhi on 25-27th November 2021, Delhi (online).

Prof. Bhagirathi Panda delivered the inaugural address entitled “ Tourism Enterprise in North East India- Facts and Policy Options’ as guest of honour in the inaugural session of the national workshop on *Tourism Entrepreneurship & Start-up Opportunities in North Eastern Region* Organised by: Department of Hospitality & Tourism Management, Assam University, Silchar on 6-10 December 2021.

Prof. Bhagirathi Panda delivered the inaugural address entitled “ Tourism and Sustainable Development” as guest of honour in the national seminar on *Tourism – A Path towards Sustainable Development of North Eastern States and Specially Arunachal Pradesh*, Organised by: Department of Commerce, Indira Gandhi Govt. College, Arunachal Pradesh on 9-10 December 2021, Tezu(online) .

Prof. Bhagirathi Panda, delivered the valedictory address entitled “ Gender and Development during Pandemic Days” in the National Seminar on *Gender and Society in Contemporary India: Issues and Prospects*, Organised by Department of Sociology, Sankardev College on 9-10th December, 2021.

Prof. Bhagirathi Panda chaired the academic session 2.2. titled ‘Pandemic and Economy’ in the *22nd Annual conference of the North Eastern Economic Association* held on 14-15th December 2021 at RGU, Arunachal Pradesh.

Prof. Bhagirathi Panda chaired the Gopal Bordoloi Memorial Lecture ‘Leveraging Migration for Development during COVID-19 Crisis and Beyond’ delivered by Dr.DilipRatha, Lead Economist, World Bank, Washington DC, in the in the *22nd Annual Conference of the North Eastern Economic Association* held on 14-15th December 2021 at RGU, Arunachal Pradesh.

Prof. Bhagirathi Panda delivered an invited talk “Climate Change: Its Manifestations and Impact on Agriculture in North East India” as a panel speaker in the Panel discussion on ‘Climate Change and Agriculture in North East India’ organised by the department of Economics, RGU in the *22nd Annual conference of the North Eastern Economic Association* held on

14-15th December 2021 at RGU Campus, Arunachal Pradesh

Prof. Bhagirathi Panda chaired the parallel technical session III 'International Trade and Investment: Emerging Dynamics' of the *Annual Conference Indian Economic Association* hosted by the AIGGPA, Bhopal and held on 25-27th December 2021 at Swarna Jayanti Auditorium, RCVP Naronha Academy of Administration and Management, Bhopal.

Prof. Bhagirathi Panda delivered an invited lecture 'Economic Theory and Development Practice: The Joy of Studying Economics' to the students and faculty of the department of economics, Institute for Excellence in Higher Education, Bhopal on 27th December 2021.

Prof. Bhagirathi Panda, presented an invited presentation entitled 'Economic Growth, Employment, Innovation and Institutions in North East India' in the *maiden conference of the Vice-Chancellors, Directors and Heads of Academic Institutions in the North East on the topic "Swadeshi and Employment Generation"* organised jointly by Tripura University and North Eastern Hill University held on 9th January 2022 in the NEHU Guest House, Guwahati.

Prof. Bhagirathi Panda, delivered a lecture 'NEP 2020 and Capacity Building of Young Faculty' in the ICSSR sponsored on line Capacity Building Workshop organised by the Department of Management, NEHU, Tura on 7th February 2022.

Prof. Bhagirathi Panda delivered the Keynote address "Integrating Skill Development Programmes in Higher Education : Necessity and Issues" in the two day *National Seminar on Integrating Skill Development Programmes in Higher Education* organised by Livingstone Foundation International College, Dimapur, Nagaland held on 10-11th February 2021(online).

Prof. Bhagirathi Panda delivered the Keynote address titled, 'Research in Social Sciences in the North East: Issues and Challenges' in the *Third Research Conclave 2022* organised by NIT Meghalaya on 28th February 2022, Shillong.

Prof. Bhagirathi Panda Chaired the technical session no XVI of the International Conference on 'Economics to Earthonomics: Shifting Paradigms, Policy Paralysis, and Worsening Sustainability' organised by the BPS Women

University, Sonapat, India on 9-11th March 2022, Sonapat.

Chaired the Consultative workshop on 'Local Government Accounting System in India: A Study of Panchayati Raj Institutions and Autonomous District Councils' organised by the department of Economics in collaboration with Regional Training Institute, Shillong held in the conference hall of ICSSR-NERC on 22nd March 2022.

Delivered the invited valedictory panel address "New Education Policy and Globalisation of Indian Higher Education : Some Reflections" in the *National seminar on Quality and Relevance of Higher Education in India* organised by Women's College, Shillong on 25-26th March 2022, Shillong.

#### **Prof. S. Umdor**

Presented a paper titled Local Government Accounting in India: A case study of Panchayati Institutions and Autonomous District Councils, in a Consultative Workshop on Local Government Accounting in India' (in collaboration with Regional Training Institute, Indian Audit & Accounts Department, NE Region, Shillong), 22<sup>th</sup> March, 2022 at ICSSR-NERC, NEHU Shilong.

Delivered a lecture on the topic 'Understanding the financials of the State, budget and fiscal status of Meghalaya' for the 'Training and Workshop for the Maiden Cohort of the Meghalaya Legislative Research Fellowship (MLRF)' organised by Meghalaya Institute of Governance, Government of Meghalaya on the 15/01/2022.

Invited talk on the topic 'Place based Industrial Policy in NER' as part of UGC-SAP-Seminar 2022 of Department of Economics, Guwahati University held on 29th of March 2022 at Guwahati.

#### **Dr. D. Nongkynrih**

Presented a paper on "Aspects of Female Migration in Meghalaya: A Synopsis" at the, *National webinar on Migration and Development* organised by the Department of Sociology, NEHU, Shillong, 24<sup>th</sup> – 25<sup>th</sup> November, 2021

Invited lecture at the *Webinar on Status of Women in India* organised by Goalpara College, Goalpara, Assam, 15<sup>th</sup> December, 2021. Title of the presentation - Status of Women in India

#### **Dr. V. Pala**

Presented a paper on “Employment and wages of Scheduled Tribes in India: A comparative analysis of recent trends” (with Aibanskhem Nongspung), paper presented in the *International Seminar on Safeguarding Tribal Identity: Concept and Implications*, organized by the Department of Sociology, Synod College, Shillong, 9<sup>th</sup> – 10<sup>th</sup> September, 2021.

Participated in a One-Day National Level Panel Discussion on “National Education Policy (NEP) 2020” organized by the North-Eastern Hill University Teachers’ Association (NEHUTA), North-Eastern Hill University (NEHU), Shillong, Meghalaya, India in collaboration with the Department of Education, NEHU on 14<sup>th</sup> September 2021.

#### **Dr. D. W. Thangkhiew**

How well are the tribal-owned enterprises faring in India? Insights from the non-agricultural informal sector. International Seminar-cum-webinar on Safe-guarding tribal identity: concept and implications, Organised by the Department of Sociology, Synod College, Shillong, 9<sup>th</sup> and 10<sup>th</sup>, September, 2021, Sponsored by ICSSR, NERC.

#### **Dr. W. Tariang**

Attended an Online Workshop on Research Methodology in Social Sciences with Special Focus on NSSO Data Extraction from 1<sup>st</sup> – 11<sup>th</sup> December 2021 organised by ICSSR-NERC Shillong

Participated in a National Workshop on Empowering the Youth through Financial Literacy Skills on 24<sup>th</sup> March 2022 organised by the Department of Economics, NEHU, Shillong

#### **Publications**

##### ***Published in India:***

#### **Prof. U. K. De**

Sinha, A. A., Behera, H. C., Behura, A. K., Sahoo, A. K. and De, U. K. (2021), “Livelihood Assets and Income Generating Activities: A Comparative Analysis in the Scheduled and Non-Scheduled Areas of Jharkhand”, *Indian Journal of Human Development*, **SCOPUS-Listed**. Doi: <https://doi.org/10.1177/09737030211064929> (ISSN: 0973-7030 (Print) ISSN: 2456-480X (Online))

#### **Prof. B. Panda**

Karma Lhendup & Panda, Bhagirathi. (2021), Factors Determining the Revisit Intentions of the Tourists: A case study of Bhutan, *Millennial*

*Asia*, Online first, <https://doi.org/10.1177/09763996211045789>

#### **Prof. S. Umdor**

Place-based Industrial Policy and Changes in the Manufacturing Sector in North-East India, *Review of Development and Change*, 27, 2022, 44-60

#### **Books.**

##### **Prof. B. Panda**

Deka, T and Panda, Bhagirathi. (2022). *Rural Development in Assam: MGNREGA as a Development Practice*, Mittal, Delhi, ISBN 978-33-90692-06-4.

#### **Edited Books/Volumes.**

##### **Prof. U. K. De**

**De, Utpal Kumar, Mehta, Simi & Kapoor, Mahima (2021).** *The State of Economic Development in South Asia: A Compendium of Deliberations: Econ Dev Discussion 2020-21*, Kindle Edition, IMPRI, New Delhi, 2021. (ISBN 978-81-951187-0-0).

#### **Book Chapters.**

##### **Prof. U. K. De**

De, U. K. (2022), “Changing Face of Empowerment of Rural Women: Case of Some Tribal Societies in Two North-East Indian States”, in G. Debnath and C. Taran (Eds) *Philosophy of Tribal Culture and Religion: An Emerging Trend*, Niharika Publishers, Agartala, pp. 34-56. (ISBN: 978-81-953262-9-7).

##### **Dr. V. Pala**

Pala, V. (2021). The role of Khasi-Pnar women as community builders and peace makers. In *Women and Peace Building: Perspectives from the Field*, M. Tula & K. Ghosh (Eds.). North Eastern Social Research Centre, Guwahati. ISBN: 9788195302420, pp. 165-175.

##### **Dr. D. W. Thangkhiew**

Mawkhiew, B., Thangkhiew, D., W. (2021). Size and sectoral distribution of the informal manufacturing sector in India and north eastern states. In *Celebrating India at 75*. D.A. Kharchandy and K., L. Buam. (Eds). Winshield Press, New Delhi, Chapter 29, pp. 273-286.

#### **Proceedings of Seminar/Conferences.**

##### ***Published Abroad:***

### **Prof. U. K. De**

De, U. K. and Borah, B. (2022), "Impact of Covid-19 Pandemic on Tourism in India" *Journal of Tourism & Sports Management (JTSM)*, 4(2), 1117-1127. (ISSN: 2642-021X)

Available at [https://www.scitcentral.com/document/s/2a8de56cd3c698023\\_53d2bb72e77a366.pdf](https://www.scitcentral.com/document/s/2a8de56cd3c698023_53d2bb72e77a366.pdf)

([https://www.scitcentral.com/article.php?journal=47&article=2649&article\\_title=IMPACT%20OF%20COVID-19%20PANDEMIC%20ON%20TOURISM%20IN%20INDIA#tabs6](https://www.scitcentral.com/article.php?journal=47&article=2649&article_title=IMPACT%20OF%20COVID-19%20PANDEMIC%20ON%20TOURISM%20IN%20INDIA#tabs6))

De, U. K. and Khound, K. (2022), "Ethnic Conflict and Changing Socio-Economic Activity: A Non-Parametric Analysis in North-East India", *International Journal of Statistical Sciences*, 22(1), 219-242. (ISSN: 1683-5603).

Karim, M., Huq, M., De, U. K. (2021), "Volatility Pattern and Risk Sensitivity in DSE: Pre and Post Market Shutdown due to COVID-19", *Jagannath University Journal of Economics*, Bangladesh. (Forthcoming). (ISSN:2707-0689)

De, U. K. (2021), "How Road Connectivity affects Access to Healthcare in Rural Meghalaya?", *SUST Journal of Social Science*, 32(2), 138-152 (ISSN: 1682-895X).

### **Prof. B. Mishra**

Hassan, S.U., Alam, Tosib., Mishra, B. and Basumatarya, Joel. (2021). Fiscal rules and Social Sustainability in India: A cross state Analysis. *iassi Quarterly, Journal of the Indian Association of Social Science Institutions*, 40(4), pp.795-812

### **Prof. B. Panda**

Karma Lhendup & Panda, Bhagirathi. (2021), International Tourists' Satisfaction and Loyalty to Bhutan, *Revista Latino-Americana De Turismologia*, 6: 1-18.

### **Prof. P. S. Suresh**

Saji George and P Srinivasa Suresh (2022). Does Behavioral Risk Explain the Value Premium: A Study of Indian Equity Market, *International Journal of Financial Markets and Derivatives*, Vol.8, No.3, 205-222.

Dr. D. W. Thangkhiew

Thangkhiew, D. W., Rymbai, M. S. (2021). Fiscal doldrums and public health spending in

the fragile north eastern states of India. *Turkish Online Journal of Qualitative Inquiry*, vol 12, No.8 <https://www.tojq.net/index.php/journal/article/view/4748>

Thangkhiew, D. W., Rymbai, M. S. (2021). Is public health expenditure converging? Evidence from the north eastern states of India. *Turkish Online Journal of Qualitative Inquiry*, Vol. 12, No. 10.

<https://www.tojq.net/index.php/journal/article/view/7778>

#### **(i) Books.**

#### **(ii) Edited Books/Volumes.**

#### **(iii) Book Chapters.**

#### **(iv) Proceedings of Seminar/Conferences.**

#### **(a) Popular Articles (News Paper and Magazines)**

### **Prof. U. K. De**

De, U. K. and Mehta, S. (2021). "Model Gaon: Changing begging mindset to entrepreneurship for 90% of villagers?". *Counterview.net* Posted on May. 2, 2021. Available at: <https://www.counterview.net/2021/05/model-gaon-changing-begging-mindset-to.html#more>

De, U. K. and Kumar, Arjun (2021). "Statistics: If one only study uses and not abuses, one might be misguided". *Counterview.org*; Posted on April. 21, 2021. Available at: <https://counterview.org/2021/04/21/statistics-if-one-only-studies-uses-and-not-abuses-one-might-be-misguided/>

Prof. B. Panda

Panda, Bhagirathi (2022). NEP 2020 and Globalization of Indian Higher Education, *The Shillong Times*, 29.03.2022

Prof. S. Umdor

Cobra effect of raising upper age limit entry into Govt service, *The Shillong Times*, 16/03/2022

Meghalaya's Economy at 50: How Far We've Come, *The Meghalayan*, 12/01/2022

A curious case of a poor state with richest farmers in the country, *The Shillong Times*, 13/01/2022

MeECL has Failed, But, MeECL Must Succeed, *The Shillong Times*, 17/06/2021

### **Dr. V. Pala**

"Of drones, unemployment and social exclusion", *The Shillong Times*, November 27, 2021.



## Funds Received during the current Year

### (B) Bulk Grant to Department/Centre/Section etc. other than EMR grant

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	1.00 (Annual Allocation)
02	UGC (SAP, CAS, Seminar etc.)	-
03	DST (FIST, PURSE, Seminar etc.)	-
04	NEC (program name)	-
05	Others	2.00 (Allocation under Capital Assets) 3.00 (Allocation under EWS)

### (C) EMR Research Projects to individual faculty members:

Title of Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of Investigator (PI/Co-PI)	Multi/Sing le Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Enumeration and Valuation of the Economic Impact of Female Labour in the Hills: A Study of Indian Himalayan Region (A UGC-STRIDE project assigned by NITI Aayog and conducted by the Consortium of Central Universities in the Himalayan States) (INR 3.75 L)	Completed	Dr. V. Pala (PI)	Multiple (April 2021-February 2022)	University Grants Commission, New Delhi	INR 1.875 L

Prof. Bhagirathi Panda collaborated with ICSSR-NERC, Shillong in jointly organising seminars and academic discussions.

Prof. S. Umdor

**Preparation of a report on the Accounting Standard of Autonomous District Councils in Northeast India between** Regional Training Institute, Indian Audit & Accounts Department, NE Region, Shillong (Collaborators: Prof. S. Umdor & K. Vanlalhrualtuanga (Research Scholar, Economics Dept., NEHU, and Mr. T. Wanniang, RTI, IAAD, Shillong)

**Dr. W. Tariang**

Member of Board of Studies in the Department of Economics, Commerce and Management, Martin Luther Christian University, Shillong w.e.f. January 2022

Member Research Advisory Committee, in the Department of Economics, Commerce and

## Academic Collaborations

### (i) National

**Prof. U. K. De**

**Guest faculty of Indian Statistical Institute - 07-02-2022 to 30-06-2022**, taught “Financial Models in Agriculture” of the Course of “Agricultural Economics and Agricultural Marketing” to the PGD-ARSMA (2<sup>nd</sup> Semester) students.

**Prof. B. Panda**

Management, Martin Luther Christian University, Shillong w.e.f. April 2022

## **(ii) International**

### **Honours/Awards/Recognition/Membership/Fellowship**

#### **Prof. B. Panda**

Prof. Bhagirathi Panda is currently the editor of the national journal “Man and Society-A Journal of North East Studies” published by ICSSR-NERC, Shillong.

Prof. Bhagirathi Panda worked as a member of the Ombudsman Selection Committee for Government of Meghalaya, constituted by Ministry of Rural Development, Government of India.

Prof. Bhagirathi Panda is the Vice-president of North East Economic Association, Guwahati.

Appointed as member of the Board of Research Studies, Mizoram University, Aizawl.

#### **Prof. S. Umdor**

Member of Governing Board of the Meghalaya Board of School Education (MBOSE) (2021 to 2024)

Member of the Board of Studies of the Indian Institute of Public Health (IIPH) Shillong

#### **Dr. V. Pala**

Member of the Task Force for Documentation of 50 years of Meghalaya, Government of Meghalaya, Shillong

Member of Doctoral Committee, Martin Luther Christian University, Shillong.

### **Other Activities**

#### **(a) Invited talks at recognized institutions within or outside NEHU;**

#### **Prof. B. Mishra**

Prof. B. Mishra was invited to deliver a Webinar Lecture organized by St. Edmund's College, Shillong on “Market and the Government” on 30<sup>th</sup> June, 2021.

#### **Prof. U. K. De**

Delivered and invited lecture on “Challenges of Growth and Employment in India during Pandemic and Policy Options” at the Techno India University, Kolkata on 21<sup>st</sup> August 2021.

Chaired and moderated an invited lecture session on Malnutrition & Anaemia among Adult Women in India delivered by Dr Susmita

Bharati and Prof Kaushik Bose and organised by the Techno India.

#### **Prof. B. Panda**

Delivered an invited talk as the Guest of Honour in the Inaugural Programme of Faculty Development on Research Methodology in Rural Development, organised by NIRDPR-GHY, GOI on 21<sup>st</sup> June 2021.

Delivered as the guest of honour an address “Non-Violence and Economic Development” In the international workshop on Non-Violence for happy and healthy world, organised by Department of Education and IQAC, NEHU Shillong in collaboration with Department of Philosophy and IQAC, Moran College, Assam and Department of Philosophy, Sri Venkateswara University, Tirupati.

Delivered the Valedictory address “Fourth World Literature and Development” as Chief Guest in the National Seminar entitled “Fourth World Literature: Voices of the Marginalised with Special Reference to Northeast India” organised by Testo College, Nagaland and held on 24th November 2021.

Delivered a lecture “The why, what and how of Academic Writing, Research and Publishing” in the online international Workshop on Academic Writing & Publishing organised by the Central Library and Department of Library and Information Science, Tripura University, on 17-21 January, 2022.

Delivered as Guest of Honour a lecture entitled ‘Capacity Building for Teachers in the Context of Globalisation of Higher Education’ to the participants of the 10 days sponsored Capacity Building workshop held on 7th February 22 and organised by the Department of Management, Tura.

As Chief Guest delivered an invited lecture ‘What to research, how to research and how to research in Social Sciences’ in the One Week Workshop on “Research Methodology and Data Analysis for Social Science Research” organized by Department of Commerce, Tezpur University, Assam-784028 at 10.30 AM – 11.00 AM on the 7 th March 2022

#### **Prof. S. Umdor**

Resource Person for Introductory Training Programme for the Meghalaya Civil Services (MSC) 2021 at Meghalaya Administrative Training Institute, Government of Meghalaya (17th, November, 2021)

Speaker for Panel Discussion on “Some Reflections on Progress and Gaps in Development Interventions for the North Eastern Region of India ‘webinar organized by EGROW Foundations, New Delhi on March 4, 2022

Managing Secretary of Malki Presbyterian School (outreach).

Consultation on Workshop ‘Community Engagement in Covid-19 Prevention and Control in Meghalaya: Lessons Learned and Future Strategies’ jointly organised by **ICSSR-NERC in collaboration with ICARE** (Advocacy group) (Co-Convener) held on 20/12/2021.

### **Dr. D. Nongkynrih**

Chaired a Session at the National webinar on Migration and Development organised by the Department of Sociology, NEHU, Shillong, 24<sup>th</sup> – 25<sup>th</sup> November, 2021.

### **Dr. D. W. Thangkiew**

Resource person for SC Dutta Memorial Lecture on *Education and Economic Growth Perspective on Ne Education Policy 2020*, organised by the Department of Economics, Shillong College in collaboration with Meghalaya Economic Association on the 14<sup>th</sup> December 2021.

Resource person for Vartalap- media Workshop on the theme ‘Let’s talk budget 2022’ organised by the Press Information Bureau, GOI, Shillong in association with Shillong Press Club on the 19<sup>th</sup> of March 2022.

### **Dr. W. Tariang**

Guest Speaker in the 1<sup>st</sup> National Conference on “The Rise in Digitisation in Business/Organisation- A Boon or Bane” organised by Department of Economics, Commerce and Management, Martin Luther Christian University, Shillong on 3<sup>rd</sup> and 4<sup>th</sup> March 2022.

### **(b) Editors/Reviewers for journals of national/international repute;**

#### **Prof. U. K. De**

*Economic Analysis and Policy (Elsevier), Global Ecology and Conservation (Elsevier), Applied Economics (Routledge), Land Use Policy (Elsevier), International Journal of Statistical Sciences (Rajshahi University), Archives of Agronomy and Soil Science (Taylor*

*& Francis), Applied Economics Letters (Taylor & Francis), Journal of Climatology and Weather Forecasting (Longdom Publishing SL), International Journal of Environment and Sustainable Development (Inderscience), Journal of Development and Agricultural Economics (Academic), African Journal of Agricultural Economics, Educational Research and Reviews (Academic), International Journal of Financial Economic Policy (Emerald), Science Journal of Ecology, Journal of Agricultural Extension and Rural Development (Academic), International Journal of Agricultural Resources (Inderscience), Governance and Ecology (Inderscience), Arthaniti (Sage), Journal of Tekirdag Agricultural Faculty (Namik Kemal University, Turkey), Indian Economic Journal (Sage), Housing Studies (Sage).*

#### **Prof. B. Panda**

Was the reviewer of the Scopus indexed International Journals of (i) **Pluralism and Economics Education**, Inderscience; (ii) **Millennial Asia**, SAGE; (iii) **Review of Development and Change**, SAGE.

#### **Prof. S. Umdor**

Asian Ethnicity (taylor and francis)

### **(c) Outreach activities**

#### **Prof. B. Panda**

Acted as resource person for the session ‘Research Project Proposal Presentation & Discussion – II’, to assess the feasibility/suitability of the proposal, and suggest improvements wherever necessary, in the two-week Capacity Building programme for social science faculty members and researchers, organised by the School of Social Sciences, Central University of Punjab on 19.8.2021.

Participated as an invited participant in a virtual Round Table of all major Stakeholders on "Startups for New and Atmanirbhar Bharat" organised by ICSSR, New Delhi on 9<sup>th</sup> September 2021 at 3:00 PM.

Participated in a special roundtable organised in honour of HE Mr. Satoshi Suzuki, Ambassador of Japan by Asian Confluence, Shillong on 24<sup>th</sup> November 2021.

Interacted online on invitation with two master students (Nicolas Roman & Pierre Frys) from ICHEC, the Brussels business management school, and delivered a small talk on “How MGNREGA contributes to increasing the

climate resilience and gender empowerment of rural populations in India.” on 6th December 2021.

Attended the State of Employment and Livelihoods – #Employment Debate organised by IMPRI Impact and Policy Research Institute, New Delhi on 11th of December 2021.

As the guest of honour, addressed the one day consultative workshop on “Community Engagement in Covid-19 Prevention and Control in Meghalaya; lessons Learned and Future Strategies’ held on 20th of December 2021, at ICSSR-NERC, Shillong and also participated in the discussion.

Delivered the Chief Guest address in the 3rd the third Webinar of the Azadi Ka Amrit Mahotsav Webinar Series on “National Education Policy, 2020: towards an Equitable and Inclusive Society” organised jointly by NEHU, Tura Campus, India and ICSSR-NERC, Shillong, India on 16th March, 2022.

Organised one online lecture entitled. The Plan That Fell Through: Crown Colony Protectorate for North East India: Concept to Collapse 1941-1946 delivered by Prof. David R. Syiemlieh., Eminent Historian and Former Chairman of the Union Public Service Commission of India on 2nd July 2021 at 11.00 at ICSSR-NERC Conference Hall(online)

Organised an online lecture in collaboration with ISTD (Shillong Chapter) entitled Academic Leadership: An Imperative delivered by Prof.Hemnath Rao Former Director, Development Management Institute (DMI), Patna and Former Professor, Administrative Staff College of India, Hyderabad on 27th August 2021 at ICSSR-NERC, Shillong(online).

As a part of year long Azadi Ka Amrit Mahotsav Webinar Series, organised jointly with NEHU, Tura Campus, a discussion session on National Education Policy, 2020: Towards an Equitable and Inclusive Society on 2nd October 2021(online).

Organised one special lecture under Azadi Ka Amrit Mahotsav entitled The Forgotten Marginal: Recovering some gender and indigenous voices of freedom struggle, 1947 delivered by Dr. Binayak Dutta, Faculty Department of History, NEHU on 17th December 2021 at ICSSR-NERC, Shillong.(blended mode).

**(b) Panellists, judges, moderators, etc. of events held at recognized academic institutions within or outside the University and its affiliated institutions;**

**Prof. U. K. De**

Participated as a panellist in a panel discussion on the title "Let's Talk: Meghalaya & Smart Meters" hosted by The Shillong Times on August 23, 2022.

As a **Panellist** delivered a lecture on “Perspectives of India’s Union Budget 2022-23 and Development” in the Round Table Panel Discussion on Union Budget 2022-23 organised by ICSSR-NERC on 24-02-2022.

**Prof. B. Panda**

Moderated a Roundtable on Budget 2022-23 with Prof. Lakhwinder Singh, Prof. M.P. Bezbaruah, Ms. Patricia Mukhim, Prof. A.P. Pati, Prof. Prasenjit Biswas, Prof. U.K. De as panellists, organised by ICSSR-NERC on 24th February in the conference hall of ICSSR-NERC, Shillong.

Acted as the discussant of the online lecture “Disenfranchised Migrants and the City: Theory and Evidence’ delivered by Prof Ashwani Kumar,Professor and Dean, School of Development Studies, Tata Institute of Social Sciences (TISS), Mumbai. The programme was organised by IMPRI Center for Habitat, Urban and Regional Studies (CHURS), New Delhi on 29th July 2021.

**Dr. W. Tariatang**

External Expert during the technical session in the 1<sup>st</sup> National Conference on “The Rise in Digitisation in Business/Organisation- A Boon or Bane” organised by Department of Economics, Commerce and Management, Martin Luther Christian University, Shillong on 3<sup>rd</sup> and 4<sup>th</sup> March 2022.

**(e) Lectures delivered at Refresher Courses/Orientation Programs/Workshops, etc.**

**Prof. U. K. De**

Delivered a lecture on “Tourism and Inclusive Development for the Tribes of North-East” on 05-11-2022 in the Refresher Course in Tribal Studies organised by the UGC-Human Resource Development Centre, NEHU, Shillong.

Delivered two lectures on “Research Methodology” and “Techniques of Data

Analysis” on 26-10-2021 in the Refresher Course in Commerce and Entrepreneurship organised by the Department of Commerce, NEHU during 20-10-2021 to 02-11-2021.

Delivered a lecture on “Nature based Tourism, Resource Management and Empowerment of Women in Rural Tribal Societies” on 07-12-2021 in the Refresher Course of the Department

of Tourism and Hospitality Management, NEHU, Shillong, during 02-15 December 2021.

Delivered two lectures on “Introduction to Research Methodology” and “Research Design” in the Workshop on “Research Methodology and Data Analysis for Social Science Research” organised by the Department of Commerce, Tezpur University during 7-11 March 2022.

#### PhD Guided

Kaveri Khound	Ethnic Conflicts and Socio-Economic Development: A Case Study of Bodoland Territorial Area District of Assam	2022
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#### Prof. B. Panda

Delivered two lectures entitled “Higher Education in India: Current Status and Challenges” and “Current Trends of Global Education” in the fifth Faculty *Induction Programme for teachers of University and Colleges* conducted by HRDC, Shillong on 10<sup>th</sup> September 2021 and 14<sup>th</sup> February 2022.

Delivered two lectures entitled “Sustainable Development and MGNREGA” and “Sustainable Development and Social Enterprise” in the refresher course in Commerce and Entrepreneurship” conducted by the Department of Commerce, NEHU and HRDC, Shillong on 21<sup>st</sup> October 2021.

Delivered two lectures entitled “Globalisation of Indian Higher Education: Challenges for Teaching” in the workshop on leadership development programme for teachers of University and Colleges conducted by HRDC, Shillong on 12th March 2022.

#### SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	Name		1	P. Nayak	B. Mishra	U. K. DE
	Date of Joining		2	19.09.2001	01.04.1987	04.10.2001
	Field of specialisation		3	Human Development, Women Empowerment	Public Economics, Budgetary Economics, Political Economy	Econometrics And Statistics, Agricultural And Rural Development, Environmental And Resource Economics
(A) Teaching Experience (in Years)	UG		4	No	No	No
	PG, including PhD		5	34	35 Years	28 Years
(B) Research activities	Basic Research		6	No	No	Yes
	Applied Research		7	No	No	Yes
	Action Research		8	No	No	Yes
	Project Submitted		9	No	No	No
	Ongoing Project		10	No	No	No
	Research Paper in UGC care list journals	Group I	11	No	1	1
		Group II	12	No	No	3
	Books /Books chapters Published	Books	13	No	No	1
		Book Chapters	14	No	No	1
	Popular Articles (News Paper/ Magazines)		15	No	No	2
	Seminar / Conference/ Symposia	National	16	No	No	No
		International	17	No	No	No

	organized					
	Seminar / Conference/ Symposia attended	National	18	No	4	7
		International	19	No	1	1
	Conference Proceedings		20	No	No	No
	Consultancy		21	No	No	No
(C) Patent	Applied		22	No	No	No
	Published		23	No	No	No
	Granted		24	No	No	No
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	No	No	No
(E) Any Other	Teaching /Extension /outreach activities		26	No	No	1
	Responsibilities other than teaching		27	No	No	No
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	No	No
	Collaborations	National	29	No	No	1
		International	30	No	No	No

Details of Faculties	Name		1	Bhagirathi Panda	Sumarbin Umdor	P. S. Suresh
	Date of Joining		2	17.10.2003	21.05.2003	05.06.2003
	Field of specialisation		3	Economics of Development	Northeast Economy, Autonomous District Councils' Finance and Local Economic Development	Economics
(A) Teaching Experience (in Years)	UG		4	11 Years	3 Years	2 Years
	PG, including PhD		5	19Years	19Years	20Years
(B) Research activities	Basic Research		6	No	No	No
	Applied Research		7	No	Yes	37
	Action Research		8	No	No	No
	Project Submitted		9	No	No	No
	Ongoing Project		10	No	No	No
	Research Paper in UGC care list journals	Group I	11	1	1	1
		Group II	12	1	No	No
	Books /Books chapters Published	Books	13	1	No	No
		Book Chapters	14	No	No	No
	Popular Articles (News Paper/ Magazines)		15	1	4	No
	Seminar / Conference/ Symposia organized	National	16	4	2	No
		Internationa l	17	No	No	No
	Seminar / Conference/ Symposia attended	National	18	20	3	No
		Internationa l	19	3	No	No

	Conference Proceedings		20	No	No	No
	Consultancy		21	No	No	No
(C) Patent	Applied		22	No	No	No
	Published		23	No	No	No
	Granted		24	No	No	No
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	No	No	No
(E) Any Other	Teaching /Extension /outreach activities		26	yes	Yes	No
	Responsibilities other than teaching		27	Yes. Honorary Director of ICSSR-NERC, Shillong.	Yes	No
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	Yes	Yes	No
	Collaborations	National	29	Yes (1)	Yes	No
		International	30	No	No	No

Details of Faculties	Name		1	Deigracia Nongkynrih	Veronica Pala
	Date of Joining		2	20-12-2006	22-03-2007
	Field of specialisation		3	Labour Economics, Rural Studies and Gender	Econometrics
(A) Teaching Experience (in Years)	UG		4	4 Years	8 Years
	PG, including PhD		5	15 Years	12 Years
(B) Research activities	Basic Research		6	Yes	Yes
	Applied Research		7	No	Yes
	Action Research		8	No	No
	Project Submitted		9	No	1
	Ongoing Project		10	1	No
	Research Paper in UGC care list journals	Group I	11	No	No
		Group II	12	No	No
	Books /Books chapters Published	Books	13	No	No
		Book Chapters	14	No	1
	Popular Articles (News Paper/ Magazines)		15	No	1
	Seminar / Conference/ Symposia organized	National	16	1	No
		International	17	No	No
	Seminar / Conference/ Symposia attended	National	18	2	1
		International	19	No	1
	Conference Proceedings		20	No	No
	Consultancy		21	No	No
(C) Patent	Applied		22	No	No
	Published		23	No	No
	Granted		24	No	No
(D) E-Content	MOOC/SWAYAM/ E- content developed		25	No	No
	Teaching /Extension		26	No	No

(E) Any Other	/outreach activities				
	Responsibilities other than teaching		27	Yes	No
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	2
	Collaborations	National	29	No	No
		International	30	No	No

Details of Faculties	Name		1	Darishisha War Thangkhiew	Wandinecia Tariang
	Date of Joining		2	20.12.2006	13.05.2003
	Field of specialisation		3	Macroeconomics	Gender and poverty, Agriculture Economics, Economics of Social Sector
(A) Teaching Experience (in Years)	UG		4	No	No
	PG, including PhD		5	14 Years	19 Years
(B) Research activities	Basic Research		6	Yes	Yes
	Applied Research		7	Yes	No
	Action Research		8	No	No
	Project Submitted		9	No	No
	Ongoing Project		10	No	No
	Research Paper in UGC care list journals	Group I	11	No	No
		Group II	12	No	No
	Books /Books chapters Published	Books	13	No	No
		Book Chapters	14	1	No
	Popular Articles (News Paper/ Magazines)		15	No	No
	Seminar / Conference/ Symposia organized	National	16	No	No
		International	17	No	No
	Seminar / Conference/ Symposia attended	National	18	1	2
		International	19	No	No
	Conference Proceedings		20	No	No
	Consultancy		21	No	No
(C) Patent	Applied		22	No	No
	Published		23	No	No
	Granted		24	No	No
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	No	No
(E) Any Other	Teaching /Extension /outreach activities		26	Yes	Yes
	Responsibilities other than teaching		27	Yes	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	No
	Collaborations	National	29	No	No
		International	30	No	No



## DEPARTMENT OF JOURNALISM & MASS COMMUNICATION

**Head** : Dr. Barath N  
**Telephone** : 0364-2723401  
**E-mail** : hodjmc@nehu.ac.in

### Faculty Profile:

Designation	Name and Qualification	Specialization
<b>Assistant Professor</b>	Dr. Kamaljit Chirom. MA, PhD (Manipur University)	Film Studies, Communication Research, Communication Theories
	Dr. Barath N. M.Phil., PhD (University of Hyderabad)	History of Media, Media and Culture Studies, Media and Minority Discourse, Development Studies.
	Dr. Karen L Donoghue. MA, Ph.D. (NEHU)	Media Representation. Television Studies, Media and Gender

**Thrust Areas of Research** – Film Studies, Representations in Media, Political Communication, Media and Folkloristic Practices,

### Brief Statement of Academic Activities and achievements:

The Department conducted webinars, National Seminar and also film screening events in collaboration with Films Division, India

### Students' Profile

**Enrolment Capacity:** M.A 24

### Enrolment of students from different States of India and Abroad – MA Students

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	6	4	6	3									12	7
Manipur			1										1	
Nagaland				1										1
Mizoram			1										1	
Total													14	8

### Enrolment of students from different States of India and Abroad – PhD Students 4

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	2			1									2	1
Arunachal Pradesh				1										1
Sub Total														
International														
Total													2	2

### Degrees Awarded -- MA and PhD

### Degrees Awarded to students from different States of India and Abroad (MA – 2020 Batch)

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	3	2	2	2									5	4
Assam	1	2											1	2
Kerala	1												1	
Sub Total														
International														
Total													7	6

## Research Fellowship

UGC- Non Net – 8

### Courses Conducted:

#### Postgraduate

Semester I: Mass Communication: Theory and Principles, History of Print Media, Basic Photography (Practical), Print Journalism (Practical)

Semester II: Film Studies, Radio Production (Practical), Television Studies and Communication Research

Semester III: Media and Gender, Media, Culture and Society, Film Studies, Advertising and Public Relations (Practical), Internship and Dissertation

Semester-IV: Film Production (Practical), Media Management, Media Laws and Ethics, Communication for Development

#### PhD Courses

Research Methodology, Media Studies, Review of Literature and Presentation,

#### Seminar/Conference/Symposium/Extension Programme etc

##### Organized:

Organised a National Seminar on “*Cinema in the Digital Age: A Medium in Crisis/Transformation*” on 4<sup>th</sup> & 5<sup>th</sup> February 2022 through online mode. Coordinator: Dr. Kamaljit Chirom.

### Publications

#### Published in India:

#### Research Papers.

Nongkseh, G., Naga, M., & Chirom, K. (2021). Impact of E-Resources Literacy on E-Resources Consumption habits among College students: An Experimental Study. *Library Philosophy and Practice*, Winter-11.

### Funds Received during the current Year

Title of Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of Investigator (PI/Co-PI)	Multi/Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Capturing Migrant Experiences in Shillong: The Mizos of Happy Valley	Ongoing	Dr. Karen L. Donoghue (PI) Ms. D. Junisha Khongwir (Co-PI)	1. Dept. of JMC, NEHU 2. NE Archive. St. Anthony's College 3. Sasakawa Peace Foundation, Japa (2022-2023)	Sasakawa Peace Foundation, Japan	INR 5 L

The Department in collaboration with the Films Division India conducted an Online Screening of Documentaries son the lives of eminent scientist on 10<sup>th</sup> November 2021, World Science Day  
The Department in Collaboration with the Films Division India conducted a Screening of films on the theme “Colours of North-East India” on from 28<sup>th</sup>-30<sup>th</sup> November 2021

The Department organized a Webinar “Cinema as the Index of Culture” on 15<sup>th</sup> December 2021

#### Attended:

Dr. Barath N delivered as lecture titled, “Language as History” in the Lecture Series- Alumni Panel conducted by Centre for Comparative Literature, School of Humanities, University of Hyderabad on 28<sup>th</sup> January 2022

Dr. Barath N chaired a session titled – ‘A room of One’s own : Filming Food, Disability and Technology at National Student’s Seminar (online) on Gender and Visual Culture, conducted by Department of English, Vivekananda College. University of Delhi on 3<sup>rd</sup> March 2022

Dr. Barath N chaired a session on “OTT’s and Cinema’s Future” at the National Seminar on “*Cinema in the Digital Age: A Medium in Crisis/Transformation*” on 5<sup>th</sup> February 2022

Dr. Karen L Donoghue was invited as a resource person on Media and Literacy at Kiang Nongbah Govt. College on 30<sup>th</sup> of Sept. 2021.

### Honours/Awards/Recognition/Membership/Fellowship

Dr. Karen L. Donoghue is a member of Editorial Board of Man and Society, Journal, ICSSR

Dr. Karen L Donoghue is a Member, Monitoring Committee at the State Level for Television (Meghalaya)

### SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	Name		1	Dr. Kamaljit Chirom	Dr. Barath N	Dr. Karen L Donoghue
	Date of Joining		2	03.07.2012	04.07.2012	30.07.2012
	Field of specialisation		3	Film Studies, Communication Research, Communication Theories	History of Media, Media and Culture Studies, Development Studies.	Television Studies, Media and Gender, Media Representation.
(A) Teaching Experience	UG		4			1
	PG, including PhD		5	10	10	10
(B) Research activities	Basic Research		6	1	1	1
	Applied Research		7	1	1	1
	Action Research		8			
	Project Submitted		9			
	Ongoing Project		10			1
	Research Paper in UGC care list journals	Group I	11			
		Group II	12	1		
	Books /Books chapters Published	Books	13			
		Book	14			
	Popular Articles (News Paper/ Magazines)		15			
	Seminar / Conference/ Symposia organized	National	16	1		1
		International	17			
	Seminar / Conference/ Symposia attended	National	18		3	1
		International	19			
	Conference Proceedings		20			
	Consultancy		21		-	-
(C)	Applied		22			
	Published		23			
	Granted		24			
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	--	--	--
(E) Any Other	Teaching /Extension /outreach activities		26	--	--	--
	Responsibilities other than teaching		27		Teacher-In-Charge	MOOC Mentor
	Awards/ Honours/ Recognition/ Membership/		28			
	Collaborations	National	29		-	-
		International	30		-	-

## DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

**Head:** Prof. Moses M. Naga  
**Telephone:** +91 9615037789; +91364-2723142  
**E-mail:** [mosesmnaga@gmail.com](mailto:mosesmnaga@gmail.com); [moses@nehu.ac.in](mailto:moses@nehu.ac.in)

### Faculty Profile

Designation	Name and Qualification	Specialization
<b>Professors</b>	Dr Moses Mark Naga, MLISc, Ph.D (NEHU)	Information Literacy, Application of Management Concepts and Principles in Libraries and Information Centres,
	Dr Bikika Laloo Tariang, MLISc. (NEHU), Ph.D (Gauhati University)	User Studies, Collection Development, Documentation of Indigenous Knowledge
	Dr Paokholun Hangsing, MLISc.(University of Delhi), PGDCA, Ph.D (NEHU)	Information System Analysis & Design, Database Management System, Information Communication Technology, and Digital Libraries
<b>Associate Professor</b>	Dr S. Ravi Kumar, M.Phil (Madras), Ph.D.(Mizoram)	Scientometrics; Information Visualization; Scholarly Communication; Information Retrieval; Open Source Library Software Packages
<b>Assistant Professors</b>	Dr Jacqueline Jeane Thabah, MLISc, Ph.D.(NEHU)	Knowledge Organisation, Research Methodology and Professional Competencies
	Dr Jiarlimon Khongtim, MLISc, Ph.D(NEHU)	Information Literacy on Reading Habits, Applications of Computer and Communication Technologies in Libraries and Information Centres.

### Thrust Areas of Research

Information literacy, bibliometrics, content analysis, indigenous knowledge of North-east India, global perspective on Library and Information Science education, information needs and information seeking behaviour of users, applications of computer and information communication technology, professional competency, measurement & effectiveness of information services, utilization of information resources on development programmes both in urban and rural settings of north-east India.

**Brief Statement of Academic Activities and achievements:** Apart from regular academic and research activities, the Department could frequently organise talks on several prominent and relevant issues pertinent to the subject.

### Students' Profile

#### Enrolment Capacity: M.Lib.I.Sc and Ph.D Enrolment of students from different States of India and Abroad

Master of Library & Information Science						
STATE (Name)	Gen		ST		TOTAL	
	M	F	M	F	M	F
Meghalaya			7	22	7	22
Manipur				2		2
Doctor of Philosophy						
STATE (Name)	Gen		ST		Total	
	M	F	M	F	M	F
Meghalaya			1	3	1	3

Manipur	1			2	1	2
Assam		1				1
Sub Total	1	1	8	29	9	30
Total	2		37		39	

#### Degrees Awarded to students from the different States of India and Abroad

Degrees Awarded to Students from the different States of India and Abroad						
Master of Library & Information Science						
STATE (Name)	Gen		ST		TOTAL	
	M	F	M	F	M	F
Meghalaya			7	15	7	15
Nagaland			1	1	1	1
Manipur			1	1	1	1
Assam		1		2	1	2
Sub Total		1	9	19	10	19
Total	1		28		29	

#### Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Mr. Jangkhohao Hangshing.	“Preservation of Indigenous Agricultural Knowledge of the Kukis of Senapati District of Manipur: A Study” (22/04/2021)	Prof. Bikika Laloo Tariang. Supervisor
Ms. Karen L. Donoghue.	“Representation of the North-East India in National News Magazines: A Content Analysis” (05/10/2021)	Prof. P. Hangsing. Supervisor
Mr. Hirak Jyoti Hazarika.	“DICOM Based Medical Image Repository using DSpace” (29/03/2022)	Dr. S.Ravikumar Supervisor Dr. Akash Handique Joint Supervisor

#### Placement of Students

Name of the Student(s)	Post Held	Place of Work
Dr. Florence Guite	Assistant Professor	University of Punjab, Bathinda, Punjab
Dr. Brandon Lyttan	Librarian	District Institute of Education and Training, Thadlaskein
Dr. Hirak Jyoti Hazarika	Librarian	Assam Don Bosco University
Badahunlang Thangkhiw	Librarian	District Institute of Education and Training, Sohra
Badonboklang Kharlyngka	Jr Library Assistant	NEHU Central Library, Shillong
Cleverly Reenborne	Librarian	Khadsawphra College Mairang
Richborn Kharkongor	Librarian	District Institute of Education and Training, Nonstoin
Saphira Kharkongor	Assistant Librarian	Umshyrpi College, Shillong
Bakysiew Wanhat	Librarian	Carmel School, Sadew
Ruovitso Mezhu	Librarian	Department of Higher and Technical Education, Nagaland

#### Students selected for Higher Studies

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
Dr. Jangkhohao Hangshing	Post-Doctoral Fellowship	Indian Council of Social Science Research (ICSSR)	India

#### Library Study Tour:

Due to the Covid19 pandemic, students of the Department were not able to go on a physical study tour. In view of this, a virtual study tour was carried out. Each student was assigned a city in a country and asked to virtually visit one library there. Thereafter, students were to write a report on the functions, services, and other interesting information and their personal opinion on the libraries assigned to them. Students were instructed in the WhatsApp group on the steps for carrying out the virtual tour, including

search strategies and how to write the report. Students were instructed to submit both the video of the library and the report on the library to the teacher in charge of the paper. The assignments were evaluated by the teacher in charge and returned to the students for corrections, after which a final report was submitted for evaluation by an external examiner. A Viva Voce was also held in this regard.

**Teacher-in-Charge:** Prof. Bikika Laloo Tariang

**Places/Institutions Visited:** Virtual Tour of libraries in various countries

**Duration of the Library Study Tour (Dates and number of days):** Assigned on the 3<sup>rd</sup> of July, 2021; Submitted on the 15<sup>th</sup> of July, 2021

**Purpose of the Library Study Tour:** To apprise the students on the functions and services of various libraries through observation and exploration of the library websites.

## Courses Conducted

### Postgraduate

Semester I: Foundation of Library and Information Science; Knowledge Organisation I (Theory); Knowledge Organisation I (Practice); Information Sources and Services; Foundation of Computer Application

Semester II: System Analysis and Design; Knowledge Organization II (Theory); Knowledge Organization II (Practice); Library Software Packages (Theory and Practice); Library Housekeeping Operations

### Seminar/Conference/Symposium/Extension Programme, etc.

#### Organized:

Prof. Bikika L. Tariang

**Organiser, convener and moderator** of online panel discussion on '*Documentation of indigenous knowledge with special reference to the role of libraries*,' organized by the Department of Library and Information Science (DLIS), NEHU on the 7<sup>th</sup> of December, 2021

### Prof. P. Hangsing

Prof. P. Hangsing organised an *Online lecture on "Classification: Some Basics, Some Myths"* on the 21<sup>st</sup> March 2022

#### Attended

### Prof. Bikika L. Tariang

**Attended** the National Seminar on "*Integration of Indigenous Knowledge in the School Curriculum: Prospects and Challenges*" NERIE, NCERT, Umiam, Ri-Bhoi, Meghalaya and **presented** a **paper** titled "**Indigenous**

Semester III: Information Retrieval; Research Methodology; Collection Development; Database Management System; Information Communication Technology.

Semester IV: Management of Library and Information Systems; Digital Libraries; E-Learning and Content Management System (Theory and Practice); Information Sources and Services (Practice); Dissertation.

### PhD Courses

Research Methodology in Library and Information Science; Advances in Library and Information Management; Trends in Libraries and Librarianship; Advances in Information System Studies; Review of Literature. **Knowledge as a Way of Knowing** on 18. 02. 2022

Chaired one session in the Virtual International Conclave on "*Latest Advancement in Library and Information Science*" organised by the Library and Information Science Professionals' Association (LISPA) and Central Library, Assam Don Bosco University (ADBU), 28th October-30th October, 2021.

### Prof. P. Hangsing

Prof. P. Hangsing attended an Eight Days International author workshop on "*Academic Writing and Publishing*" in collaboration with Elsevier, Taylor and Francis, Cambridge University Press, Springer Nature, Brill, Oxford University Press, Emerald and Wiley held during 21-29 October 2021 organised by Manipur University Library

### Dr. J. J. Thabah

Attended and presented a paper on 'Requisite Technological Skills of University Library Professionals in North East India: A Study' at the International Conference on "Visualising Librarianship in the 21<sup>st</sup> century: Connecting

Minds and Creating the Future”, the 66<sup>th</sup> Annual Conference of the Indian Library Association-2021, organized jointly by ILA, New Delhi; Department of Public Libraries, Karnataka and Kalyan Karnataka Librarians Association, Kalaburagi held at Gulbarga University, Karnataka on September 27-28, 2021.

#### **Dr. J Khongtim**

Attended and presented a paper on “**Library and Information Science Post-graduate Students’ Perception and Preference for Online Education During the Covid-19 Pandemic**” in the one day National Level Virtual Conference on “***Making Online Teaching Learning More Effective and Outcome Based***” held on 3<sup>rd</sup> August, 2021 organised by Department of Library and Information Science, MBB University, Agartala.

#### **Talks delivered**

##### **Prof. Bikika L. Tariang**

Invited Speaker in the *XXXVII Conference (International) of IATLIS and Platinum Jubilee Celebration Seminar of CU-DLIS*, Jointly organized in blended mode by Indian Association of Teachers of Library and Information Science (IATLIS) and Department of Library and Information Science, University of Calcutta, Kolkata, held on 25<sup>th</sup> to 27<sup>th</sup> November, 2021 and spoke on the topic “**LIS Education during and beyond the COVID-19 Pandemic**” on 25.11.2021

##### **Prof. P. Hangsing**

delivered an invited lecture in the National Webinar on “*MOOCs: Problems & Prospects*” organised by UGC-HRDC, Jadavpur University on 2<sup>nd</sup> December, 2021 at 12 Noon to 1-30 P.M.

##### **Dr. J. J. Thabab**

delivered lectures on “Documentation of Indigenous Knowledge (a) with reference to medicinal plants; (b) Traditional attires” on the 16<sup>th</sup> and 18<sup>th</sup> November 2021, at the Refresher Course of the Khasi Department organised by the UGC-HRDC, NEHU Shillong w.e.f. 15<sup>th</sup> to 30<sup>th</sup> November 2021.

Delivered two lectures on “Documentation of Indigenous Knowledge (a) With reference to medicinal plants; (b) Traditional attires” on the 16<sup>th</sup> and 18<sup>th</sup> November 2021, at the Refreshers Course of the Khasi Department organized by the UGC- HRDC, NEHU Shillong w.e.f. 15<sup>th</sup> to 30<sup>th</sup> November 2021

#### **Dr. S. Ravikumar**

delivered talks on

Computation tools for literature search and literature review, 16th September, 2021, for 6th Faculty Induction Programme. Organised by UGC-HRDC, NEHU.

Moodle as a Learning Management System –I, 30th September, 2021 for 6th Faculty Induction Programme, Organised by UGC-HRDC, NEHU

Moodle as a Learning Management System –II, 1th October, 2021 for 6th Faculty Induction Programme, Organised by UGC-HRDC, NEHU

#### **Publications:**

##### ***Published in India***

##### **Prof. Moses M. Naga**

**Nongkse, G, Naga, M. M., & Chirom, K. (2022).** “Information Literacy and Information-Seeking Pattern: A Study with a Special Reference to Media Literacy among the Students of Select Colleges in Shillong”, *IASLIC Bulletin (UGC CARE listed)*, 67(1), 3-13.

##### **Dr. S. Ravikumar**

**Jeevan Singh, A., & Ravikumar, S. (2021).** “Newspaper Citations in Scientific Publications Indexed in Web of Science (2001-2010)”, *SRELS Journal of Information Management*, 58(4), 263–272. <https://doi.org/10.17821/srels/2021/v58i4/155744>.

**Hazarika H. J. & Kumar S. R. (2021).** “Gate Register Tool with Koha Library Automation Software”, *Library Herald* 60–69. <https://doi.org/10.5958/0976-2469.2021.00010.5>.

#### **Book Chapters**

##### **Dr. J. Khongtim**

Khongtim, J. (2022). “Library and Information Science Post-graduate Students’ Perception and Preference for Online Education during the Covid-19 Pandemic”. In *Teaching Learning Process Offline to Online Classes*. Sudip Bhattacharjee (ed.). Raghav Publication, New Delhi, Chapter 10, pp 90-105. ISBN: 978-93-93655-10-3

#### **Proceedings of Seminar/Conferences**

##### **Dr. J. J Thabab**

**Lyngdoh, Betbhalin and Thabab, Jacqueline (2021).** “Requisite Technological Skills of University Library Professionals in North East India: A study”. In: Shokeen, Ashu and Ramesh

Babu, A. (eds.) Proceedings of the 66<sup>th</sup> ILA International Conference on “Visualising Librarianship in the 21<sup>st</sup> century: Connecting Minds and Creating the Future”. ILA, Delhi. Pp. 601-609. ISBN: 978-81-85216-53-3

#### **Published Abroad**

**Prof. Moses M. Naga**

**Nongkseh, G., Naga, M. M. & Chirom, K. (2021).** “Impact of E-resources Literacy on E-resources Consumption Habits among College Students: An Experimental Study”. *Library Philosophy and Practice (Scopus indexed e-journal)*  
<https://digitalcommons.unl.edu/libphilprac/6322>

**Prof Bikika L. Tariang**

**Gohain, A., Tariang, B.L. and Saikia, M. (2021)** “Disaster Management in Central Library, Tezpur: A Study,” *Library Philosophy and Practice (e-journal)*, ISBN 1522-0222

**Prof. P. Hangsing**

**Guite, Florence and Hangsing, Paokholun (2021).** "Rural tribal women's health information sources and seeking behaviour: a study of Kangpokpi in Manipur, North East India." *Library Philosophy and Practice (e-journal)*.  
<https://digitalcommons.unl.edu/libphilprac/6550>.

**Dr. J. Khongtim**

**Nonrang, J. & Khongtim, J. (2021).** “Disaster Management of College and University Libraries: A Survey”, *Library Philosophy and Practice (e-*

*Journal)*. 8-19-2021. **6198**. ISSN : 1522-0222.  
<https://digitalcommons.unl.edu/libphilprac/6198>

**Wann, T & Khongtim, J. (2021).** “Agricultural Information Literacy Skills of Turmeric Farmers in Shangpung Village of Meghalaya”, *Library Philosophy and Practice (e-journal)*. 10-30-2021. **6543**. ISSN: 1522-0222  
<https://digitalcommons.unl.edu/libphilprac/6543>

**Dr. S. Ravikumar**

**Jeevan Singh, A., & Ravikumar, S. (2021).** “Newspaper Citations in Scientific Publications Indexed in Web of Science (2001-2010)”. *SRELS Journal of Information Management*, 58(4), 263–272.  
<https://doi.org/10.17821/srels/2021/v58i4/155744>

**Hazarika, H.J., Ravikumar, S. and Handique, A. (2022),** "Developed DICOM Standard Schema with DSpace", Collection and Curation, Vol. 41 No. 2, pp. 50-61. <https://doi.org/10.1108/CC-05-2021-0015>

**Ravikumar, S. (2021).** “Intellectual Network Structure. Modern Technological Intervention Advancements for the Physically Challenged and Disabled Population”.

#### **Other Activities**

**Prof. P. Hangsing**

Prof. P. Hangsing is an Honorary **Reviewer** of "College Libraries (WBCLA)", a UGC CARE listed- I Journal

### **SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022**

Details of Faculties	Name		1	Dr Moses M. Naga	Dr Bikika Laloo Tariang	Dr P. Hangsing
	Date of Joining		2	29th January, 1991	1ST July, 1996	10th April 2002
	Field of specialisation		3	Information Literacy, Application of Management Concepts and Principles in Libraries and Information Centres	User Studies, Collection Development, Documentation of Indigenous Knowledge	Information System Analysis & Design, Database Management System, Information Communication Technology, and Digital Libraries
(A) Teaching Experience (in Years)	UG		4			
	PG, including PhD		5	31	25 +18	20
	Basic Research		6	2		1
	Applied Research		7			
	Action Research		8			
	Project Submitted		9			



(B) Research activities	Ongoing Project		10			
	Research Paper in UGC care list journals	Group I	11	2		1
		Group II	12			
	Books /Books chapters Published	Books	13			
		Book Chapters	14			
	Popular Articles (News Paper/ Magazines)		15			
	Seminar / Conference/ Symposia organized	National	16	1		
		International	17	1		
	Seminar / Conference/ Symposia attended	National	18	1		
		International	19			
(C) Patent	Conference Proceedings		20			
	Consultancy		21			
	Applied		22			
(D) E-Content	Published		23			
	Granted		24			
(D) E-Content	MOOC/SWAYAM / E-content developed		25			1
(E) Any Other	Teaching /Extension /outreach activities		26		YES	
	Responsibilities other than teaching		27	Yes		
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28			
	Collaborations	National	29			
		International	30			

Details of Faculties	Name		1	Dr(Mrs.) Jacqueline J. Thabah	Dr Jiarlimon Khongtim	Dr S. Ravikumar
	Date of Joining		2	18th April 2002	15th December, 2005	3rd July, 2012
	Field of specialisation		3	Knowledge Organisation, Research Methodology and Professional Competencies	Information Literacy on Reading Habits, Applications of Computer and Communication Technologies in Libraries and Information Centres	Scientometrics Information Retrieval, Library Software.
(A) Teaching Experience (in Years)	UG		4			
	PG, including PhD		5	20	16	

(B) Research activities	Basic Research		6	3	2	
	Applied Research		7	1	2	
	Action Research		8			
	Project Submitted		9			
	Ongoing Project		10		2	3
	Research Paper in UGC care list journals	Group I	11			
		Group II	12			
	Books /Books chapters Published	Books	13		1	1
		Book Chapters	14			
	Popular Articles (News Paper/ Magazines)		15			
	Seminar / Conference/ Symposia organized	National	16			
		International	17	2	7	
	Seminar / Conference/ Symposia attended	National	18	3	12	
		International	19	1		
	Conference Proceedings		20			
	Consultancy		21			
(C) Patent	Applied		22			
	Published		23			
	Granted		24			
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	2		
(E) Any Other	Teaching /Extension /outreach activities		26			
	Responsibilities other than teaching		27			
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28			
	Collaborations	National	29			
		International	30			

## DEPARTMENT OF MANAGEMENT (TURA CAMPUS)

**Head:** Prof. K. C. Biswal

**Telephone:** 03651-224566(0)/08414077901 (M)

**E-mail:** [kcbiswal@rediffmail.com](mailto:kcbiswal@rediffmail.com), [hodmng@nehu.ac.in](mailto:hodmng@nehu.ac.in)

### Faculty Profile:

Designation	Name and Qualification	Specialization
<b>Professor</b>	G. Singaiah, M.Com (Andhra), PhD (Utkal)	Cross Cultural Management, Marketing and Entrepreneurship Development
	J. U. Ahmed, M.Com, PhD (Assam)	Finance and Strategic Management
	K. C. Biswal, M.Com (BU), PhD (Berhampur)	Accounting and Finance, Management Information System, and E-commerce, Microfinance
	A. Bhattacharjee, M.Com, PhD (Gauhati)	Human Resource Management, OB, Rural Marketing
<b>Associate Professor</b>	D. Bhagat, MBA (Assam Agri Univ), PhD (Gauhati)	Agribusiness Management, Agriculture Value Chain Management, Food Consumption Behaviour, Ergonomics
<b>Assistant Professor</b>	Kh. Devananda Singh, MBA (IGNOU), PhD (Manipur)	Institutional Finance, Entrepreneurship, Project Management & Tourism
	S. B. A. Mazumder, MBA (Assam University) PhD (Assam)	Finance, Migration and Remittance, Consumer Behaviour, Operations Management
	S. L. S. Akoijam, MBA (Amity), PhD (Manipur)	Marketing, Strategy, Tourism
	Thrinadha Rao Bandaru, MBA & PhD (Pondicherry)	Human Resource Management, and Tourism Management
	Bimal Deb Nath, MBA (Devi Ahilya), PhD (NEHU)	Information System , Data Analytics and Research Methods

### Thrust Areas of Research

The thrust areas of the Department are entrepreneurship development, small business management, behavioural studies, cross-cultural management, international business, tourism management, supply chain management, micro-finance and rural credit management, business process re-engineering, agri-business, food security, e-commerce, corporate finance, bank finance, portfolio management, information technology, social marketing and Ergonomics

### Brief Statement of Academic Activities

During the period under report, the faculty members published books and research papers in various national and international journals and edited books. They also participated and presented papers in a number of national and international seminars and conferences. The faculty members also organised seminars/workshop/symposiums/conferences/MDPs and participated in FDPs, refresher courses, and orientation programmes. The Department has also published one issue of the International Journal of Applied Management Research with Prof. K. C. Biswal as Chief Editor and Dr. Deepak Bhagat as Managing Editor.

### Students' Profile

**Enrolment Capacity: MBA(66)\_\_\_\_\_ PhD Variable**

**Enrolment Capacity:** MBA-General – 33, MBA-Services – 33, PhD -Variable

### Students' Profile

### Enrolment Capacity: M.B.A 60Ph.D – Variable

#### Enrolment of students from different States of India and Abroad

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
M.B.A (General)														
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
State 1 (Meghalaya)	02	00	25	04	00	00	00	00	00	00	00	00	23	4
Non Meghalaya	1	2	2	1	00	1	00	00	00	00	00	00	03	06
Sub Total	03	02	27	05	00	01	00	00	00	00	00	00	26	10
International													02	
MBA(Service) Meghalaya	00	00	05	00	00	00	00	00	00	00	00	00	05	00
MBA(Services) Assam	01	02	00	00	00	00	00	00	00	00	00	00	01	02
Total													46	
PhD														
State 1 (Meghalaya)	01	00											01	00
State 2 (Assam)			02	00									02	00
State 3 (Sikkim)			01	00									01	00
State 4 (Odisha)	01	00											01	00
Total	02		03										05	

#### Degrees Awarded

#### Degree: M.B.A/ Ph.D.

#### Degrees Awarded to students from different States of India and Abroad

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
M.B.A (General)														
State 1 (Meghalaya)	00	00	06	04	00	00	00	00	00	00	00	00	06	04
State 2 (Assam)	07	05	00	00	00	00	05	03	00	00	00	00	12	08
MBA (Service) Meghalaya	00	00	00	02	00	00	00	01	00	00	00	00	00	03
Assam	03	00	00	01	00	00	00	00	00	00	00	00	03	01
Sub Total													21	16
Total													37	
PhD														
State 1 (Meghalaya)	02		01	01	01		01						03	03
Total	02		02		01		01						06	

#### Students Awarded Ph.D Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Ms. Lipika Sarkar	“Developing E-Marketing Web Portal for Small and Medium Manufacturing Enterprises in Assam (Regn.No.2708 of 16.02.2016)	Dr. Bimal Debnath
Mrs. Sugata Debnath	“ User Perspectives of Human Resource Information system Application in Higher Education Institutions of North East India” (Regn.No.2381 of 03-06-2014)	Prof. A. Bhattacharjee
Mr. Thokchom Suranjoy Singh	A study on Supply Chain Management Practices of Food Processing Industry in Manipur. (Regn.No.2729 of 16.02.2016)	Dr.Sunildro L.S. Akoijam
Mr.Abdullah Haider Thabet Shamsan	“Strategic Orientations and Business Performance : A Study on Select Firms	Prof. J.U. Ahmed

	in Yemen: (Regn.No. 2907 of 21.02.2017)	
Mr. Hemanta Rabha	Cluster Development Interventions in Meghalaya: A study of Umden Eri Cluster:	Prof. G. Singaiah
Tapsri R Marak	An Ergonomic Study on Occupational Discomforts among Women Workers of Tea Gardens in West Garo Hills in Meghalaya (Regn. No. 10-07-2015)	Dr. Deepak Bhagat

### Placement of Students

Name of the Student(s)	Name of the programme	Post Held	Place of Work
John Rangam R Marak	MBA	PRIME Associate	East Garo Hills (William Nagar)
Kapil Mahanta	MBA	Sales Trainer	Gaygya Toyota, Guwahati
Porismita Deka	MBA	HR Trainee	Flipkart, Jorhat

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi SC/ST	ICPR Fellowship	Meritorious Malana Azad Minority Fellowship	Any other
<b>03</b>	<b>21</b>	<b>01</b>		<b>01</b>	<b>02</b>

### Courses Conducted:

#### Postgraduate: MBA (General) and MBA (Service Management)

##### MBA (General Management)

The Department offers thirty-two courses for the MBA programme, out of which twenty are core courses and one project work equivalent to two courses. Besides these, ten special courses, five each from two specialisation groups are to be pursued. The dual specialisation courses are

based on four functional areas of management, viz., Financial Management, Marketing Management, Human Resource Management and Agri-Business Management.

##### MBA (Service Management)

The Department offers thirty-two courses for MBA (Service Management), out of which twenty are core courses and one project work equivalent to two courses. Besides these, ten special courses, five from any one of the functional areas and five from any one of the sartorial areas are to be pursued. The specialisation courses are based on four functional areas of management, viz., Finance, Marketing Management, Human Resource Management and Agri-Business Management; and three sartorial areas of Management, viz., Banking and Insurance, NGO Management, and Tourism Management.

##### Ph.D Courses

Business Research Methods, Management Thoughts and Thinkers, Emerging Issues in Business.

### Seminars/Conferences/Workshops/Symposia/Extension Programmes

#### Organized:

Organised an National Webinar on “Understanding Securities Market & Investment Portfolio on 12<sup>th</sup> June, 2021 as Co-ordinator at Department of Management, NEHU, Tura Campus, Meghalaya. Prof.K.C.Biswal was the Programme Co-ordinator,(ii) Organised an National Webinar on “ Online Shopping Behaviour Analysis: Use of Intelligent approaches on 09<sup>th</sup> July, 2021 as Co-ordinator at Department of Management, NEHU, Tura

Campus, Meghalaya.Prof.K.C.Biswal was the Programme Co-ordinator, (iii) Organised a National Webinar on “Entrepreneurship in the 21<sup>st</sup> Century” on 13<sup>th</sup> July, 2021 as Co-ordinator at Department of Management, NEHU, Tura Campus, Meghalaya.Prof.K.C.Biswal was the Programme Co-ordinator , (iv) Program Director for 2 Weeks’ Capacity Building Program for Teachers in Social Sciences (February 7-18, 2022), Organized by the Department of Management and Placement & Counseling Cell, North-Eastern Hill University, Tura Campus, Meghalaya, Sponsored by ICSSR, New

Delhi. Prof. A. Bhattacharjee was the Programme Co-ordinator, (v) Conducted training as Resource Person in the Caregivers Program of BOSCH India Foundation for Odisha and West Bengal caregivers training centers (September 6-10), 2021. Prof. A. Bhattacharjee was the Programme Co-ordinator, (vi) Conducted training as Resource Person in the Caregivers Program of BOSCH India Foundation (Dec 13-17), (Dec 20-24), 2021. Prof. A. Bhattacharjee was the Programme Co-ordinator, (vii) Conducted Webinar on “Decision Making and Lateral Thinking”- A Tribute to Edward de Bono”, on 19th June 2021. In collaboration with Placement & Counselling Cell, NEHU, Tura Campus and ISTD, Guwahati Chapter. Prof. A. Bhattacharjee was the Programme Co-ordinator, (viii) Conducted Webinar on “Career after Graduation”, in collaboration with T.I.M.E, Guwahati on 18th June 2021, Placement & Counselling Cell, NEHU, Tura Campus. Prof. A. Bhattacharjee was the Programme Co-ordinator, (viii) Conducted Webinar on “Relevance of Corporate Communications as a Strategic Management Tool” on 30th May 2021, Placement & Counselling Cell, NEHU, Tura Campus. Prof. A. Bhattacharjee was the Programme Co-ordinator, (ix) Conducted Webinar on “Managing Expectations and Facing the Reality” on 26th May 2021, Placement & Counselling Cell, NEHU, Tura Campus. Prof. A. Bhattacharjee was the Programme Co-ordinator, (x) Conducted Webinar on “Management-4.0: Developing the Next Generation Managers and Leaders” on 22nd May 2021, Placement & Counselling Cell, NEHU, Tura Campus. Prof. A. Bhattacharjee was the Programme Co-ordinator, (xi) Dr. Deepak Bhagat was Coordinator of “27th International Conference of International Academy of Physical Sciences (CONIAPS XXVII) on Advances in Food Science and Technology" October 26-28, 2021 organized by North- Eastern Hill University, Tura Campus, Meghalaya, India in Association with Swedish South Asian Network on Fermented Foods, Anand, Gujarat, India, (xii) Dr. Deepak Bhagat was Coordinator of Azadi Ka Amrit Mahotsav Yearlong Webinar Series on “National Education Policy, 2020: Towards an Equitable and Inclusive Society” organized jointly by North-Eastern Hill University, Tura Campus and Indian Council of Social Science Research, North Eastern Regional Centre, Shillong starting from 2nd October, 2021, (xiii) Dr. Deepak Bhagat organised awareness/outreach programmes on “Role of Wild Edible Plants in Reducing

Vulnerability of Indigenous Hill People to Food Insecurity” in Doldam village (East Garo Hills district, Meghalaya, India) on 29/01/2022 and in Dagal Aga village (East Garo Hills district, Meghalaya, India) on 31/01/2022, (xiv) Dr. Sunildro L.S. Akoijam organised an International Webinar on “Start-Ups as a new Entrepreneurial Opportunity” on Saturday, 19th February, 2022 as Co-Coordinator under the banner of North Eastern Management Association (NEMA) in collaboration with ABVSEM, JNU, New Delhi, (xv) Organised an International Webinar on “Marketing Opportunities and Challenges post COVID 19” on Monday, 25th October, 2021 as Co-Coordinator under the banner of North Eastern Management Association (NEMA).

#### **Attended:**

Prof. J. U. Ahmed

Presented papers on (i) “Corporate governance in Indian banking sector: A theoretical underpinning through review of related literature” in the *Three Days Multi-Disciplinary International Seminar on Education, Human Development and Sustainable Growth*, organized by Rabindra Nath Tagore University, Assam during 27th - 30th November 2021, (ii) “A study on customer relationship management in Northeast Small Finance Bank with special reference to Goalpara district of Assam” in the *Three Days Multi-Disciplinary International Seminar on Education, Human Development and Sustainable Growth*, organized by Rabindra Nath Tagore University, Assam during 27th - 30th November 2021, (iii) “Conceptual skills of private sector bank employees in a competitive banking environment” in the *National Seminar on Business Practices in the Age of Disruption, Innovation and Sustainability*, organized by the Department of Business Administration, Gauhati University, Guwahati, during 3rd - 4th September, 2021, (iv) “Measuring corporate governance in banking sector: An exploration” in the *National Seminar on Business Practices in the Age of Disruption, Innovation and Sustainability*, organized by the Department of Business Administration, Gauhati University, Guwahati, during 3rd & 4th September, 2021.

#### **Prof.K.C.Biswal**

Presented Papers on (i) “Recent Trends in India’s Export: A Comparative Study of Pre and Post Make in India Policy in the International Seminar on Commerce, Management & Interdisciplinary subjects on 28<sup>th</sup>- 29<sup>th</sup> October, 2021 organised by Department of Commerce and International Business, Central University of

Kerala;(ii) Participated in the National Webinar on Research Insights and Publication Prospects by Centre for Research and Training, National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu on 1st May, 2021, (iii) Participated in the National Webinar on Managing Positive Industrial Relations during Covid-19 Pandemic organised by School of Business, ASBM University, and Bhubaneswar on 30<sup>th</sup> May, 2021, (iii) Participated in the FDP on Capital Markets jointly organised by NSE Academy Ltd and School of Commerce, Bharathiar University, Coimbatore, Tamil Nadu on 22<sup>nd</sup>-23<sup>rd</sup> June, 2021, (iv) Participated in the National Banking Conclave, 2021 on “Indian Banking- The Evolving Landscape” by School of Business, ASBM University, Bhubaneswar on 26<sup>th</sup> June, 2021, (v) Participated on online Certificate Programme on Advanced Research Methodology( eARM) by School of Business, ASBM University, Bhubaneswar from 14<sup>th</sup> - 30<sup>th</sup> June, 2021, (vi) Participated on online Certificate Programme on Advanced Research Methodology( eARM) by School of Business, ASBM University, Bhubaneswar from 14<sup>th</sup> - 30<sup>th</sup> June, 2021, (vii) Participated in workshop on Learning Statistics and Data analysis Using MS Excel organised by Simple Statistics Solution and Training Provider, Tirunelveli, Tamilnadu, from 16<sup>th</sup> – 18<sup>th</sup> July, 2021, (viii) Participated in workshop on Data Analysis and Statistics Using PAST Statistical Software organised by Simple Statistics Solution and Training Provider, Tirunelveli, Tamilnadu, from 19<sup>th</sup> – 21<sup>st</sup> July, 2021, (ix) Participated in National Webinar on Fostering Multidisciplinary Geography for Global Competency through NEP-2020 organised by Department of Geography, Bangalore University, Bengaluru, Karnataka on 10<sup>th</sup> July, 2021, (x) Participated in one week online workshop on questionnaire development and Structural equation modelling using AMOS, SMART PLS and PROCESS MACROS” organised by Department of Commerce, Kurukshetra University, Kurukshetra on 02<sup>nd</sup> - 07<sup>th</sup>, August, 2021, (xi) Participated in one week FDP on DATA DRIVEN DECISION MAKING organised by School of Management Studies of National Institute of Technology, Calicut, Kozhikode, Kerala during 3<sup>rd</sup> - 8<sup>th</sup>, August, 2021.

### **Prof. A. Bhattacharjee**

Presented a joint paper on (i) “The Influence of Brand Post Message Strategy on Consumer Engagement with Organic Retail Products on Instagram” in the 4<sup>th</sup> ICDE

Conference, Organized by IIM, Raipur, Dec 3-4, 2021, (ii) Presented a paper in the Two Days’ International Conference on Continuing Professional

Development of Teachers in the Digital World, Organized by Department of Education, NEHU, Shillong in Collaboration with Department of Philosophy, Moran College, Moranhat, Assam, India, 6-7 September, 2021, (iii) Completed Training in Nation Building Trainers Training Program from BOSCH (July 19-22), 2021.

### **Dr. Deepak Bhagat**

Presented Paper on (i) Dr Deepak Bhagat presented paper on “Household food insecurity and the nutritional status of children aged 6–59 months: insights from rural indigenous Garo tribes of Meghalaya, India”, 81st Agricultural Economics Conference of the Indian Society of Agricultural Economics, held in Katra (Jammu & Kashmir), 1st- 3rd December, 2021, (ii) Dr Deepak Bhagat participated in “Online national workshop on MOOCS, e-content development and open educational resources” (14th- 18th February, 2022) organised by Department of Education, NEHU, Tura Campus, Tura Meghalaya in collaboration with Department of Education & Educational Technology, University of Hyderabad, Telangana and Don Bosco College, Tura, Meghalaya.

### **Dr Sunildro L.S. Akoijam**

Presented a paper on (i) "Investigating the issues of overtourism in Kullu Hill Station: An exploratory study" in the 7th International Youth Symposium 2022 on *Achieving Sustainable Development Goals : Business and Policy Interventions* organized by BKSPMS, Gujarat University, Gujarat, 28-29 January, 2022, (ii) Presented a paper on "Gibbon Wildlife Sanctuary: Prospect for ecotourism" in the ISDSI-Global International Conference on *Leading business in a FLUID world* organized by ISDSI and Indian Institute of Management, Nagpur (IIM-Nagpur), 27-30 December 2021, (iii) Presented a paper on "Issues of Sustainability: A case study of Assam Silk industry" in the 8<sup>th</sup> International Conference on *Sustainability (SUSCON 2021)* organized by Indian Institute of Management, Shillong (IIM-Shillong), 26-30 July 2021, (iv) Presented a paper on "Bargaining power of buyers in the Assam silk industry- An Empirical Study" in the International Conference on *Finance Business and Banking (ICFBB)* organized by Faculty of

Islamic Economics and Business (FEBI) UIN Mataram, Indonesia in collaboration with Kyoto University Japan, Universiti Sains Islam Malaysia (USIM), Gulf Medical University UAE, and Aligarh Muslim University, 7-8 July 2021, (v) Presented a paper on "Competitive Advantage of Assam Silk: An Empirical Study" in the 11<sup>th</sup> International Conference on *Excellence in Research and Education (CERE)*, organized by Indian Institute of Management, Indore (IIM-Indore), 18-20 June 2021, (vi) Presented a paper on "Exploring the COVID-19 revival strategies adopted by Assam silk industry" in the 1<sup>st</sup> International Conference on *Public Policy, Governance and Management (ICPGM)*, organized by Department of Public Policy and Governance, BKSPMS, Gujarat University, Gujarat, 12 June, 2021, (vii) Participated and completed a Certificate Course on Communication Strategies for a virtual age conducted by University of Toronto during 25<sup>th</sup> June-26<sup>th</sup> July 2021, (viii) Participated in the Advanced FDP on "Data Analytics for Research and Publications" under AICTE Training and Learning Academy (ATAL Academy) organized by IIM, Vishakhapatnam, 4<sup>th</sup> -8<sup>th</sup> October 2021, (ix) Participated in the FDP on "Emphasizing the Centrality of Marketing to Business" organized by CMS, Jain University, Bangalore, 20<sup>th</sup> -24<sup>th</sup> September 2021, (x) Participated in the FDP on "Capacity Building through Academic and Research Writing" under AICTE Training and Learning Academy (ATAL Academy) organized by IIT, Tirupati, 10<sup>th</sup> -14<sup>th</sup> September 2021, (xi) Participated in the FDP on "Teaching and Research Methods" under AICTE Training and Learning Academy (ATAL Academy) organized by IIM, Jammu, 2<sup>nd</sup> -6<sup>th</sup> August 2021, (xii) Participated in the workshop on "How to identify fake/predatory/cloned journals in academics" organized by Sabaragamuwa University of Sri Lanka in association with Emerald Publishing and Gulf Medical University, 5<sup>th</sup> August 2021, (xiii) Participated in the FDP on "Digital Marketing" under AICTE Training and Learning Academy (ATAL Academy) organized by IIHMR University, Jaipur, 26<sup>th</sup> -30<sup>th</sup> July 2021, (xiv) Participated in the workshop on "Navigating the publishing process in Journals" organized by Sabaragamuwa University of Sri Lanka in association with Emerald Publishing and Gulf Medical University, 22<sup>nd</sup> July 2021, (xv) Participated in the workshop on "Elsevier Tools Facilitating Research Writing" organized by Sabaragamuwa University of Sri Lanka in

association with Emerald Publishing and Gulf Medical University, 15<sup>th</sup> July 2021, (xvi) Participated in the National Webinar on "Digital Scholarship and Digital Humanities in Knowledge World" organized by Library Division, Social Development Federation, Agra, 10<sup>th</sup> July 2021, (xvii) Participated in the workshop on "EndNote" organized by Sabaragamuwa University of Sri Lanka in association with Emerald Publishing and Gulf Medical University, 8<sup>th</sup> July 2021, (xviii) Participated in the National Webinar on "Tokyo Olympics 2020-India's journey and expectations" organized by National Sports University, Manipur, 3<sup>rd</sup> July 2021, (xix) Participated in the workshop on "Take Your Research to the Next Level" organized by Sabaragamuwa University of Sri Lanka in association with Emerald Publishing and Gulf Medical University, 1<sup>st</sup> July 2021, (xx) Participated in the workshop on "Understanding the 'Methodology' and 'Sections' for Conceptual Papers" organized by Sabaragamuwa University of Sri Lanka in association with Emerald Publishing and Gulf Medical University, 24<sup>th</sup> June 2021, (xxi) Participated in the "Journal Citation Reports (JCR) Certification series 2021" organized by Clarivate Analytics, 15<sup>th</sup> & 17<sup>th</sup> June 2021, (xxii) Participated in the International Conference (Phuket ITC 2021) on "Crisis Management in Tourism: Challenges, Responses and Recovery Strategies" organized by Phuket Rajabhat University, Thailand and UCSI University, Malaysia, 15<sup>th</sup> June 2021, (xxiii) Participated in the workshop on "Understanding Sections and Structure of Literature Review Papers" organized by Sabaragamuwa University of Sri Lanka in association with Emerald Publishing and Gulf Medical University, 10<sup>th</sup> June 2021, (xxiv) Participated in the workshop on "How to select the suitable journal" organized by Sabaragamuwa University of Sri Lanka in association with Emerald Publishing and Gulf Medical University, 3<sup>rd</sup> June 2021, (xxv) Participated in the workshop on "Rationale for Methodology Selection" organized by Sabaragamuwa University of Sri Lanka in association with Emerald Publishing and Gulf Medical University, 27<sup>th</sup> May 2021, (xxvi) Participated in the workshop on "Generating Literature review: Fundamentals" organized by Sabaragamuwa University of Sri Lanka in association with Emerald Publishing and Gulf Medical University, 20<sup>th</sup> May 2021, (xxvii) Participated in the workshop on "Generating Research Question through problematization"



organized by Sabaragamuwa University of Sri Lanka in association with Emerald Publishing and Gulf Medical University, 13<sup>th</sup> May 2021, (xxviii) Participated in the AICTE-ISTE approved Online Refresher Course on “Business Analytics in Management Research” organized by Bhartiya Vidya Bhavan Institute of Management Science, Kolkata, West Bengal, 3<sup>rd</sup>-8<sup>th</sup> May 2021, (xxviii) Participated in the workshop on “Philosophy of Research” organized by Sabaragamuwa University of Sri Lanka in association with Emerald Publishing and Gulf Medical University, 6<sup>th</sup> May 2021, (xxix) Participated in the workshop on “How relevant is the Innovative approach in research for targeting high impact journals” organized by Sabaragamuwa University of Sri Lanka in association with Emerald Publishing and Gulf Medical University, 29<sup>th</sup> April 2021, (xxx) Participated in the workshop on “Putting eggs in a different basket: The rationale and complexities in publishing” organized by Sabaragamuwa University of Sri Lanka in association with Emerald Publishing and Gulf Medical University, 22<sup>nd</sup> April 2021

#### **Dr. Sultana Begum Abida Mazumder**

Presented a Paper on (i) Mallick T & Mazumder S. B. (2022, July 29). *Is green behavior a response to the growing environmental challenges of a globalized world?* [Paper presentation]. 16<sup>th</sup> GJ International Conference on “Challenge of Changing Patterns in a Borderless World” at Gyan Jyoti Institute of Management and Technology University, Faculty of Commerce and Management, Mohali, India, (ii) Bharadwaj H.S & Mazumder S. B. (2022, May 27-28). *International Remittances and the impact of COVID-19 pandemic*. [Paper presentation]. National Conference on “The New Normal - Recent Trends in Business and Management 2022” at Kalinga University, Faculty of Commerce and Management, Naya Raipur, Chhattisgarh, India, (iii) Mazumder S. B. & Malngiang A. (2021, September 1-2). *International Remittances and the impact of COVID-19 pandemic*. [Paper presentation]. International Seminar on ‘Emerging Challenges and Opportunities in Business and Economy: Lesson from COVID-19 Pandemic’ organized by International University of Business Agriculture And Technology, Bangladesh and Faculty of Management and Commerce, The ICAI University of Tura, (iv) Participated in an online webinar on “Systematic Review and Meta-Analysis” on 8<sup>th</sup> August 2021 organized by Research Graduate, the best PhD

and Masters Consulting Company, (v) Participated in an online webinar on “The Complete Guide on Review Paper Publication for PhD scholars” on 21<sup>th</sup> June 2021 organized by Research Graduate, the best PhD and Masters Consulting Company, (vi) Participated in an online webinar on “Basic to advanced guide on Review Paper Writing” on 13<sup>th</sup> June 2021 organized by Research Graduate, the best PhD and Masters Consulting Company, (vii) Participated the University Distinguished Lecture titled “Higher Education in India in the Post COVID-19” delivered by Prof. Anil D. Sahasrabudhe, Chairman of AICTE and special address by Shri Satish Chandra, IAS, Special Chief Secretary, Higher Education, Government of Andhra Pradesh. It is organized by SRM University-AP, in association with India's national newspaper, "The Hindu" held on 05<sup>th</sup> JUNE 2021.

#### **Publications:**

##### ***Published in India***

Ahmed, J. U., Sultana, M. (2022). Perceptions of bank employees on customer relationship management: Evidence from India's private sector banks. *EDUSEARCH* (Multidisciplinary Research Journal). 7: 29-43

Biswal, K.C., & Nararoy, D (2022): Effect of Mergers and Acquisitions on Stock Behavior. *Dogo Rangsang Research Journal*: Vol.12 (4).

Biswal, K.C., & Narzaroy, D. (2022): "Intraday and Small Stocks- A Perspective of Stock Trading in North-East India. *Dogo Rangsang Research Journal*: Vol.12 (6).

Bhattacharjee, A., Marak, D, Brenda. (2021). Institutional Determinants on Career Choice of Undergraduate Students, *The Journal of Oriental Research Madras*, October, Vol XCII No 04: 208-220.

Bhattacharjee, A., Marak, D, Brenda. (2021). Personal Variables' Effect in Recognizing the Preference of Career Choice of Undergraduate Students, *Turkish Online Journal of Qualitative Inquiry (TOJQI)* July, 12(5): 4266-4283.

Marak, T. R., Bhagat, D., Borah, S. (2021). Occupational health of tribal women engaged in weeding activity in tea gardens. *Indian Journal of Hill Farming*, 34 (2): 217-223

Bhagat, D. (2021). Household food insecurity and the nutritional status of children aged 6–59

- months: insights from rural indigenous Garo tribes of Meghalaya, India. *Indian Journal of Agricultural Economics*, 76(3): 460-470
- Tiwari, S. & Bhagat, D. (2021). Moderating effect of emotional intelligence on occupational stress and burnout of health care professionals. *Prabandhan: Indian Journal of Management*, 14(4): 39-54
- Khaund, M., & Nath, B. D. (2021). A critical review on services available for small enterprises : A Study with reference to select development organisations of Kamrup District of Assam ,Wesleyan Journal of Research, 14(01), 80–93.
- Khaund, M., & Nath, B. D. (2021). A review on Information Technology Dimensions for designing Information system, *Anvesak*, 51(1), 203-211 .
- Nath, B. D., Nath and Sarkar Lipika (2021). *A Random Forest Algorithm for Predicting Crop Yield in Hilly Regions of North*, International Journal of Modern Agriculture 10(2), 3415–3433.
- Nath, B. D., Nath S.D. (2021). Crop Productivity in Hilly Areas of North East India: Constraint and strategies, *Journal of Maharaja Sayajirao University of Baroda* : ISSN 0025-0422, 55(1), 88-107.
- Singh, K. D. (2021). Coronavirus Transmission Mitigation Behaviors: The first-line intervention against COVID-19. *BLDE University Journal of Health Sciences*, 6(1), 70-74.
- Khundrakpam, P. & Singh, K. D. (2022). Gandhi and entrepreneurship. *Third Concept: An International Journal of Ideas*, 35(419), 15-17.
- Mazumder, S. B., Bhattacharjee D. (2022, January). Case Study on Quick-O-Book- an Online Appointment Booking System for Patients in North-East India. *IITM Journal of Business Studies (JBS)*, 10 (1) ISSN 2393-9451, a UGC Care listed Journal. Pages 393-405
- Mazumder, S. B., Chanda, D., Nilanjan, M., , Ghose, D. (2022, January). Operations of Online Food Delivery System: A study of the pertinent Factors in the Cachar District of Assam. *Dogo Rangsang Research Journal*, 12 (1) ISSN 2347-7180, UGC Care Approved, Group I, Peer-Reviewed, Bilingual and Referred Journal. Pages 7-13
- Kumar, N, & Akoijam, S. L.S. (2022): "Investigating the issues of overtourism in Kullu hill station: An exploratory study", *Towards Excellence*, 14(1), pp. 1065-1073
- Bharali, D, & Akoijam, S. L.S. (2021): "Exploring the Covid-19 Revival Strategies adopted by Assam Silk Industry", *Towards Excellence*, 13(4), pp. 540-547
- Bharali, D, & Akoijam, S. L.S. (2021): "Delineating Threats In Assam Silk Industry: An Empirical Investigation", *Journal of Oriental Research Madras*, XCII, (4), pp. 262-270
- Bharali, D, & Akoijam, S. L.S. (2021): "Competitor Identification of Assam silk-An Exploratory Investigation", *PIMT Journal of Research*, 13(4A), pp. 60-64
- Thrinadha Rao, B., Sivaji D. & Srinivasa Rao S. (2022). The growth of pharma entrepreneurship during the post-liberalisation period in Hyderabad. *Bhavaveena*, Vol. 19, Issue. 2(2), ISSN:2456 4702, Pp 78-83.
- Thrinadha Rao, B., & Gino A. Sangma (2021). Tourist behavioural pattern and motivating factors to visit Garo Hills, India. *Anvesak*, Vol.51, No.2 (V), ISSN:0378 4568, Pp 73-79
- Thrinadha Rao, B., & Md Abdur Rouf (2021). Sales promotion strategies of pharmaceutical industries with special reference to vaccines segment in India during post COVID-19 outbreak. *Anvesak*, Vol.51, No.2 (V), ISSN:0378 4568, Pp 56-63
- Published in Abroad**
- Ahmed, J. U., Laskar, N., Choudhury K.S., Khan, S.B., Mohammed, S (2021), Nexus between women directors and firm performance: A study on BSE 200 companies. *International Journal of Business Innovation and Research*. (Scopus): DOI: 10.1504/IJBIR.2021.10043979.
- Priyamvada, S., Mishra, B. K., Bhagat, D. (2021). Economic analysis of unorganized dairy cattle farms in Jorhat district of Assam, India. *Alinteri Journal of Agriculture Sciences*, 36(1): 38-46
- Mazumder, S. B. (2021, April). Determinants of Remittances: A Study in Cachar District of Assam. *Global Business Review*, 22 (2), Sage Publications, 474-484.
- Debnath, P., Laskar, Ghose, Mazumder, S. B., (2021, August). Impact of Material Handling

Operations in Controlling Damages: A Study on Selected Hub. *Vidyabharati International Interdisciplinary Research Journal*, Special Issue on Recent Research Trends in Management, Science and Technology, ISSN: 2319-4979, Pages 2145-2150

Laskar, M. A., Mazumder, S. B., Ghose, D. (2021, August). Mobile Payment Applications Adaptability amongst Street Vendors during Post Covid-19 Pandemic: A Study in the Silchar City of Assam. *Vidyabharati International Interdisciplinary Research Journal*, Special Issue on Recent Research Trends in Management, Science and Technology, ISSN: 2319-4979, Pages 1133-1145.

Akoijam, S. L.S. & Sharma, L.S. (2021): "North East India and Potential Impact on Economy from COVID-19", *Empirical Economic Letters*, 20, (Special Issues 5), pp. 99-105

#### **Books/Book Chapters/Proceedings:**

##### **Books.**

Ahmed, J. U., Haider, T.S.A. (2022). *Strategic Orientations and Business Performance: Evidence from Republic of Yemen*. Mahi Publications, Ahmedabad, ISBN: 978-93-94238-21-3

Ahmed, J. U (2022). *Behavioural Finance and Investment Strategies*. New Century Publications, New Delhi, ISBN: 978-81-7708-545-7

Biswal, K.C., Sain, R. & Jena, M.B. (2022): *Financial Accounting*, Bharti Publications, New Delhi, ISBN: 978-93-91681-11-1

Biswal, K.C., Jena, B.M. & Gupta, Sachin (2022): *Go Vocal for Local- Make In India*, Bharti Publications, New Delhi, ISBN: 978-93-91681-81-4

Biswal, K.C., & Agarwal, A (2021). *Impact of Covid 19 on FDI In India*, edited In *Go Vocal for Local- Make In India*, Bharti Publications, New Delhi, ISBN: 978-93-91681-81-4

Bhattacharjee, Abhigyan., Bhagawati, Anulekha. (2022). *Terracotta and Pottery Craft of Asharikandi: A Pre and Post-COVID Analysis*, In *COVID-19 and Its Reflection on SMEs in Developing Countries*, Nova Publishing, USA., DOI: <https://doi.org/10.52305/JCJ15976>.

Denyse, M., & Bhagat, D. (2021). *Exploring Ethical Consumer Behaviour in Rwanda*.

Kunal Books, New Delhi, India. ISBN: 978-93-91908-33-1

Tiwari, S., & Bhagat, D. (2021). *Emotional Intelligence and Occupational Stress among Health Care Professionals*. N B Publications, Ghaziabad, India. ISBN 9789391550042

Changde Catherine, Lh., Bhagat, D., Marak, Ch. A. A. (2021). Nutritional properties of black rice: A review. In D. Bhagat, & R. Singh (Eds.), *Vulnerability to Food and Nutrition Insecurity under Mountain Specificities: Unique Challenge and Niche Opportunities*. New Delhi Publishers, New Delhi.

Sangma, G., Akoijam, S. L.S. & Bandaru, T.R. (2021). *Tourism Dynamics: Behaviour, Perception and Challenges*, Sunmarg Publisher, New Delhi, , ISBN: 978-93-82606-89-5

#### **Edited Books/Volumes.**

Ahmed, J. U., Talukdar, J. A. (2022). Measuring corporate governance in banking sector: An exploration. In *Business Practices in the Age of Innovation, Disruption and Sustainability: Volume 1*. R. P. Kakati and M. Mahanta (Eds.). Excel India Publishers, New Delhi pp. 52–68

Ahmed, J. U., Chakravorty, D. (2022). Competitive banking environment: A study on private sector banks in Tura region of Meghalaya. In *Business Practices in the Age of Innovation, Disruption and Sustainability: Volume 2*, R. P. Kakati and M. Mahanta, (Eds.). Excel India Publishers, New Delhi pp. 115–119.

Ahmed, J. U., Sultana, M. (2022). A study of customer relationship management as a strategic tool adopted by banks with special reference to Axis Bank in Goalpara district. In *Business Practices in the Age of Innovation, Disruption and Sustainability: Volume 2*, R. P. Kakati and M. Mahanta, (Eds.). Excel India Publishers, New Delhi pp. 3–10.

Ahmed, J. U. (2021). Education, human development and sustainable growth: An introspection. In *Education Human Development and Sustainable Growth*. N. I. Barbhuyan, and A. K. Choudhury, (Eds.). A.I. Publishers, Assam.

Bhagat, D., & Singh, R. (2021). *Vulnerability to Food and Nutrition Insecurity under Mountain Specificities: Unique Challenge and Niche*

### Research Projects:

#### *Ongoing Research Project(s)*

Title of Project	PI/Co-PI	Funding Agency	Amount (Rs)
Mapping the Vulnerability of Indigenous Hill People of Meghalaya to Food Insecurity	Dr. Deepak Bhagat	ICSSR, New Delhi, IMPRESS Project	Rs. 10,00,000.00
Application of Big Data in Agriculture Development in rural areas : A Study on three rural districts of Garo Hills, Meghalaya	Dr. Bimal Deb Nath	ICSSR, New Delhi, IMPRESS Project	Rs. 7,00,000.00

Title of Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name (PI/Co-PI)	Multi/Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Mapping the Vulnerability of Indigenous Hill People of Meghalaya to Food Insecurity (INR 10.00 L)	On- Going	Dr. Deepak Bhagat (PI)	Single (2019-2021)	Impactful Policy Research in Social Science (IMPRESS), Indian Council of Social Science Research (ICSSR), New Delhi	INR 2.50 L
Application of Big Data in Agricultural Development in three districts of Garo Hills, Meghalaya (INR 7.00 L)	Submitted	Dr. Bimal Debnath	Single (2019-2021)	ICSSR, New Delhi	INR 2.10L

### Honours/Awards/Recognition

Prof. J. U. Ahmed:

### Honours/Awards/Recognition/Membership/Fellowship

President, North Eastern Management Association, India.

Member, Mahatma Gandhi School of Economics & Commerce, Assam University, Silchar

Member, Research Council, University of Science & Technology, 9th Mile, Meghalaya  
Executive Editor, Journal of Advances in Management Sciences & Information Systems, Life Science Global, Mississauga Ontario, Canada.

Member, Advisory & Reviewers Board, PCC Journal of Economics & Commerce, Public College of Commerce, Dimapur, Nagaland, India.  
Member, Advisory & Reviewers Board, Edu Search, Research Journal of N.C. College, Badarpur, Assam.

### Prof. K. C. Biswal:

National Coordinator of Research Forum-India  
Reviewer of Orissa Journal of Commerce.

### Prof. A. Bhattacharjee

Life Member, Indian Society for Training and Development, India

Governing Body Member, Captain Williamson Sangma Technical University, Tura, Meghalaya.  
Visiting Faculty, USTM, Meghalaya.

Dr. Deepak Bhagat

President, North Eastern Region Chapter of the Institute for Supply Management (ISM) - India (An affiliate of ISM, USA)

Secretary, Council for Teacher Education (CTE), Meghalaya Chapter

Managing Editor, International Journal of Applied Management Research, published by Department of Management, NEHU, Tura Campus

Managing Editor, Multidisciplinary International Research Journal, published by CTEF, India.

### **Dr Sunildro L.S. Akoijam**

Appointed as Visiting Faculty at NIT Meghalaya in Jan 2022

Editorial Board Member of Shodh Journal of Multidisciplinary Innovative Thoughts

### **Other Activities:**

#### **Prof. G. Singaiah:**

(i) Delivered lecture on 'Intrapreneurship for Faculty Development in Capacity Building programme for Young Social Science Faculty sponsored by ICSSR, New Delhi, organised by NEHU, Tura Campus during February 2022, (ii) Delivered lecture on 'Leadership Development' in Virtual National conference on Leadership skills, Teaching Learning strategies, Challenges and opportunities of NEP 2020 organised by Central University of Tamil Nadu during December 2021, (iii) Delivered lecture on 'Integrated Approach to Course design and development' in National workshop on MOOCS, E- content, Development, and Open Educational Resources organised by NEHU, Tura Campus & University of Hyderabad during February 2022, (iv) Delivered lecture on 'Inter-disciplinary Research and Teaching Orientation' in World Heritage Week Lectures 2021 organised by Department of History and Archaeology, NEHU, Tura Campus during November 2021

#### **Prof. J. U. Ahmed:**

(i) Delivered the Presidential Address in the National Webinar on "Start-up as a New Entrepreneurial Opportunity", organized by North Eastern Management Association in Collaboration with JNU on 19th February 2022; (ii) Delivered one Lecture (online platform) titled "Creativity at Work and Building Team Synergy" on 11th February 2022 at the Capacity Building Program for Young Social Science Faculty members, organized by the Dept. of Management NEHU, Tura Campus in collaboration with

ICSSR, New Delhi during 7<sup>th</sup>-18th February 2022; (iii) Delivered Keynote Address (online) titled "Sustainable Management Practices and Workable Strategies" in the National Seminar on Management Practices and Sustainable Strategies, organized by the Department of Commerce, University of Science & Technology, Meghalaya on 18th January 2022; (iv) Delivered one Lecture (online platform) entitled "Building Research Capacity and Internalisation for Effective Teaching Learning" on 9th December 2021 at the Refresher Course on Tourism, Hospitality and Management, organized by the UGC HRDC in association with Dept of Tourism and Hospitality, NEHU during 2nd – 15th December, 2021; (v) Delivered a talk (online) as panel speaker on "Education, Human Development and Sustainable Growth: An Introspection" on 27th November 2021 in the Three Days Multi-Disciplinary International Seminar, organized by Rabindra Nath Tagore University, Assam during 27th -30th November 2021; (vi) Delivered Keynote Address titled "Contemporary Challenges in Academic Research" in the international webinar on 'Think: The Challenges in Research', organized by the Research Forum India in collaboration with Department of Management NEHU, Tura Campus on 12th July, 2021; (vii) Delivered a talk as Panel Speaker in the webinar on Environmental, Social and Corporate Governance: Global Perspectives, organized by the Institute of Chartered Accountant of Bangladesh on 21st August, 2021.

#### **Prof. K. C. Biswal**

(i) Invited as Resource Person for Problems and Challenges of Entrepreneurship on the Eve of world Entrepreneurship Day 2021 Programme organized by AITAM, Tekeli, Andhra Pradesh delivered 1 lecture on 21<sup>st</sup> August, 2021; (ii) Invited as Resource Person for How to Submit IQAC Report for NAAC Accreditation organized by IQAC Cell, NSCB Govt College, Sambalpur, Odisha, delivered 1 lecture on 21<sup>st</sup> August, 2021.

#### **Prof. A. Bhattacharjee**

(i) Delivered a lecture as Resource Person on the topic 'Event Tourism' on 15th December 2021 in UGC HRDC Refresher Course on Tourism, Hospitality and Management (Dec 2-15, 2021), at UGC HRDC, NEHU, Shillong, Meghalaya ;(ii) Invited as a Resource Person in the ICSSR-NERC, Shillong Sponsored 21 Days' International Workshop cum FDP on Innovative Techniques for Professional Development of Teachers in Higher Education (1st - 21st

September, 2021). Delivered a talk on the topic “Project Management Skills A-Z, 19th September, 2021; (iii) Invited as a Resource Person in the three days’ online workshop on “Career Management League-The Game of Life, Vitality of Career Planning and Career Development” organized by ICAFI University, Meghalaya during 8th -10th July 2021. Session presented on “Coping with Mid-Career Crisis” on 10th July 2021; (iv) Delivered an Invited Talk on “Relevance of Creative Thinking as a Soft Skills Tool in Education Paradigm” at the National Seminar and Workshop on “Significance of Soft Skills and Life Skills and its Pertinence in Career Development” (24th -26th June 2021) Organized by Jorhat Kendriya Mahavidyalaya under the aegis of Incubation Centre, IQAC, Humanities & Communities College, In association with CT Bora College and Skilling India, Bangalore ; (v) Presented an invited session as Resource Person on “Grading System: Universal or Diversified” in the four days’ online International Conference on Examination-IDEA 2021, organized by Council of Examiners, India and SkillsLabs Foundation,Pune during 8th -11th June 2021; (vi) Delivered a session as Resource Person on the topic “How to Write an Effective Research Paper?” in a Workshop on “Strategies for Writing Quality Research Paper”, organized by the Department of Commerce, USTM, Meghalaya on 14th June 2021.

Reviewer of South Asian Journal of Business Studies (Emerald, UK); Reviewer of Sage Open Journal.

### **Dr. Deepak Bhagat**

(i)Resource person in “Three- Day Online Workshop on Career Management League-Career Planning and Career Development” organized by The ICAFI University, Tura, Meghalaya during 8th July- 10th July, 2021. Topic Covered- “Career Exploration and Networking”.

Chairman- Technical Session in National E-Conference on “Advances in Business Management & Technology” organized by Department of Management Sciences, Mahatma Gandhi Central University, Motihari Bihar during on 25th -26th June, 2021.

### **Dr. Sunildro L.S. Akoijam**

(i)Invited as Resource Person for Entrepreneurship Awareness Programme organized by Indian Institute of Entrepreneurship (IIE), Guwahati in collaboration with National Skill Training Institute, Tura and delivered 1

lecture on 9th March 2022,(ii) Invited as Guest Speaker and Session Chair in the 1st National Conference on The Rise of Digitization in Business or organizations: A Boon or Ban organized by Martin Luther Christian University, Shillong, Meghalaya, 3rd -4th March, 2022, (iii) Invited as Resource person for the HRDC Refresher Course on “Tourism, Hospitality and Management” organized by UGC Human Resource Development Centre and Department of Tourism and Hospitality Management, NEHU, Shillong and delivered 1 lecture during 2nd to 15th December 2021, (iv) Invited as Subject Matter Specialist for the Workshop on Global Logistics Management by FMS, Ganpat University, Gujarat and delivered 30 lectures during 18th October to 4th December 2021 (v) Invited as Resource Person for Teachers Training Programme by Meghalaya Shiksha Samiti and delivered 1 lecture on 19th November 2021, (vi) Invited as Resource Person for EDP for JSS beneficiaries of Thoubal Manipur by Indian Institute of Entrepreneurship (IIE), Guwahati and delivered 2 lectures on 3rd November 2021, (vii)Invited as Resource Person for Online FDP on Emerging tools of societal marketing by Department of Management, JMIT, Yamuna Nagar, Haryana and delivered 2 lectures on 26th October 2021, (viii) Invited as Resource Person for 3 days Online workshop on “Career Management League- The Game of Life, Vitality of Career Planning and Career Development” and delivered a lecture on “Career Management Components” organized by ICAFI University, Meghalaya on 9th July 2021, (ix) Invited as Resource Person for Online FDP on Digital Marketing by Department of Management, JMIT, Yamuna Nagar, Haryana and delivered 2 lectures on 15th May 2021, (x) Invited as Resource Person for one day workshop on “Organic Farming for Sustainable Agricultural production in Garo Hills” and delivered a lecture on “Marketing Challenges and Certification of Organic Products in India: An Overview” organized by KVK,ICAR, West Garo Hills, Meghalaya on 23rd April 2021.

Reviewer of International Journal of Social Economics (Emerald, UK),Reviewer of Journal of Retailing and Consumer Services (Elsevier, Netherland),Reviewer of Internet Commerce Research and Applications (Elsevier, Netherland),Reviewer of Journal of Hospitality and Tourism Insights (Emerald, UK), Reviewer of Journal of Tourism Review (Emerald, UK), Reviewer of Journal of Global Business Review (Sage, US)

**Dr. Sultana Begum Abida Mazumder**

Delivered a lecture on "*Economic Independence and Education for Women*" at a Workshop for female employees of Power System Operation Corporation Ltd (POSOCO) organized by Power System Operation Corporation Ltd (POSOCO), a Government of India Enterprise on 8<sup>th</sup> July 2021, (ii) Delivered a lecture on "*Women Agricultural Entrepreneurs*" at the 27<sup>th</sup> International Conference of International Academy of Physical Sciences on Advances in Food Science and

Technology organized by North-Eastern Hill University, Tura Campus in Association with Swedish South Asian Network on Fermented Foods, Anand, Gujarat, India during October 26-28, 2021, (iii) Assistant Editor for the International Journal of Applied Management Research (ISSN 2347-2839) of the Department of Management, North-Eastern Hill University, Tura Campus from July 2013 to August 2019, (iv) Reviewer for Global Business Review, Asian Journal of Management Cases, Sage.

**SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022**

Details of Faculties	Name		1	Prof.G.Singaiiah	Prof. Jaynal Uddin Ahmed	Prof.K.C.Biswal
	Date of Joining		2	04-08-2006	23rd.07 2006	18th.10.2012
	Field of specialisation		3	Entrepreneurship Development, HRM	Finance & Strategic Management	Finance and Accounting
(A) Teaching Experience (in Years)	UG		4	16 years	7 years	
	PG, including PhD		5	-	18 years	24 years
(B) Research activities	Basic Research		6	-		
	Applied Research		7	-	yes	
	Action Research		8	-	Yes	
	Project Submitted		9	-	no	
	Ongoing Project		10	-	no	
	Research Paper in UGC care list journals	Group I	11	-	1	2
		Group II	12	-	1	—
	Books /Books chapters Published	Books	13	-	2	2
		Book Chapters	14	-	4	01
	Popular Articles (News Paper/ Magazines)		15	-	Nil	—
	Seminar / Conference/ Symposia organized	National	16	-	--	3
		International	17	-	---	
	Seminar / Conference/ Symposia attended	National	18	-	1	13
		International	19	-	1	
	Conference Proceedings		20	-	----	—
	Consultancy		21	-	---	
(C) Patent	Applied		22	-	No	—
	Published		23	-	No	—
	Granted		24	-	No	—
(D) E-Content	MOOC/SWAYAM/ E-content		25	-	Yes	—

	developed					
(E) Any Other	Teaching /Extension /outreach activities		26	-	Yes	--
	Responsibilities other than teaching		27	-	----	1
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	-	6	---

Details of Faculties	Name		1	Prof. Abhigyan Bhattacharjee	Dr. Deepak Bhagat	Dr.Bimal Debnath
	Date of Joining		2	29th .06 2012	28.03.2007	05.07.2013
	Field of specialisation		3	HRM, OB, Rural Marketing	Agribusiness Management	System
(A) Teaching Experience (in Years)	UG		4	3 years	No	Nil
	PG, including PhD		5	15 years	15 Years	10
(B) Research activities	Basic Research		6		No	-
	Applied Research		7	yes	Yes	-
	Action Research		8	yes	No	-
	Project Submitted		9	no	2	1
	Ongoing Project		10	no	1	-
	Research Paper in UGC care list journals	Group I	11	2	2	2
		Group II	12	-	2	2
	Books /Books chapters Published	Books	13	-	3	0
		Book Chapters	14	1	1	0
	Popular Articles (News Paper/ Magazines)		15	nil	No	-
	Seminar / Conference/ Symposia organized	National	16		1	Nil
		International	17		1	0
	Seminar / Conference/ Symposia attended	National	18	2	2	0
		International	19	-	No	0
	Conference Proceedings		20	-	No	-
	Consultancy		21	-	No	
						0
						-
						-
(C) Patent	Applied		22	no	No	0
	Published		23	no	No	0
	Granted		24	no	No	0
(D) E-Content	MOOC/SWAYAM / E-content developed		25	yes	No	0



(E) Any Other	Teaching /Extension /outreach activities		26	yes	Yes	0
	Responsibilities other than teaching		27	Placement In charge, NEHU, Tura Campus	Coordinator, Special Lecture and Events, NEHU, Tura Campus Programme Officer, National Service Scheme (NSS) Unit, NEHU, Tura Campus	0
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	2	Yes (4)	
				-	No	
				-	No	

Details of Faculties	Name		1	Dr. Khundrakpam Devananda Singh	Dr Sunildro L.S. Akoijam
	Date of Joining		2	14.06.2012	25-06-2012
	Field of specialisation		3	Institutional Finance, Entrepreneurship, Project Management & Tourism	Marketing & IB
(A) Teaching Experience (in Years)	UG		4		11
	PG, including PhD		5	16 years	11
(B) Research activities	Basic Research		6	Yes	
	Applied Research		7	Yes	5
	Action Research		8	Yes	
	Project Submitted		9	No	1
	Ongoing Project		10	No	
	Research Paper in UGC care list journals	Group I	11	01	4
		Group II	12	01	—
	Books /Books chapters Published	Books	13	No	1
		Book Chapters	14	No	—
	Popular Articles (News Paper/ Magazines)		15	No	—
	Seminar / Conference/ Symposia organized	National	16	No	
		International	17		2

	Seminar / Conference/ Symposia attended	National	18	No	8
		International	19	No	23
	Conference Proceedings		20	No	—
	Consultancy		21	No	—
(C) Patent	Applied		22	No	—
	Published		23	No	—
	Granted		24	No	—
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	No	—
(E) Any Other	Teaching /Extension /outreach activities		26	No	16
	Responsibilities other than teaching		27	No	2
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	-	2

Details of Faculties	Name		1	Dr. Sultana B.A. Mazumder	Dr.T.B.Rao
	Date of Joining		2	18.06.2012	22nd .04.2013
	Field of specialisation		3	Finance and Marketing	HR and Tourism Management
(A) Teaching Experience (in Years)	UG		4	-	
	PG, including PhD		5	10	09
(B) Research activities	Basic Research		6	-	-
	Applied Research		7	-	-
	Action Research		8	-	-
	Project Submitted		9	-	-
	Ongoing Project		10	-	-
	Research Paper in UGC care list journals	Group I	11	5	-
		Group II	12	-	03
	Books /Books chapters Published	Books	13	-	01
		Book Chapters	14	-	-
	Popular Articles (News Paper/ Magazines)		15	-	-
	Seminar / Conference/ Symposia organized	National	16	-	-
		International	17	-	-
	Seminar / Conference/ Symposia attended	National	18	4	-
		International	19	3	-
	Conference Proceedings		20	-	-
	Consultancy		21	-	-
(C) Patent	Applied		22	-	-
	Published		23	-	-
	Granted		24	-	-
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	-	-

(E) Any Other	Teaching /Extension /outreach activities		26	-	-
	Responsibilities other than teaching		27	Reviewer, editor, Resource person	-
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	-	-

## DEPARTMENT OF TOURISM AND HOTEL MANAGEMENT

**Head** : Dr. Punit Gautam  
**Telephone** : 03642723444  
**E-mail** : hodthm@nehu.ac.in

### Faculty Profile:

Designation	Name and Qualification	Specialization
Professor	Prof. Saurabh Kumar Dixit BHM & CT, MTM, JRF-NET (Tourism Administration/ Mgt.), Ph. D.	Experiential Marketing, Gastronomic Tourism, Consumer Behavior, Urban Tourism, Service Marketing
Associate Professor	Dr. Punit Gautam B. Sc. Dairying (Dairy Technology), MTA, D.Phil. (Tourism), IATA/ FIATA Diploma, Certificate Course in Basic Cargo (Air India)	Eco & Sustainable Tourism; Tourism Policy, Planning & Impacts; Tour Operations
	Dr. Benjamin F. Lyngdoh M. Com, NET, PhD	Management and Entrepreneurship
Assistant Professor	Dr. Sharad Kumar Kulshreshtha B.Com (Hons.), M.Com, PG Dip in EDP M.T.A., Ph.D (Tourism & Management), PG Diploma. in Management (IGNOU)	Event Tourism, Event Management, Tourism Marketing, Emerging Concepts of Tourism, Indigenous Food & Beverage, Rural & Sustainable Tourism

### Thrust Areas of Research

Hospitality and Tourism Studies in General; Sustainable Tourism; Gastronomic Tourism; Entrepreneurship; Emerging Tourism Trends; MICE and Events Tourism; Tourism Service Marketing and Tourism Promotion in Region through a Synthesis of the Socio-Economic Systems, Culture, Practices and Processes in Particular.

### Brief Statement of Academic Activities

The Department is offering postgraduate degree, i.e. Master of Tourism and Travel Management (MTTM) and Ph.D degree in Tourism and Hotel Management. During the period under report, the faculty members published books and research papers in various national and international journals. They also participated and presented papers in a number of national and international seminars and conferences. The Department has also organised a Two-week Refresher course in Tourism, Hospitality & Management for College and University Teachers organized by the Department of Tourism & Hotel Management, in collaboration with UGC - Human Resource Development Centre, NEHU, Shillong, from December 2, 2021 to December 15, 2021.

### Students' Profile

#### Enrolment Capacity: Master of Tourism and Travel Management(MTTM)

#### Enrolment of students from different States of India and Abroad

STATE(Nam)	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam			1	1									1	1
Meghalaya	1		12	15									13	15
Uttarpradesh					1								1	
West Bengal		1												1
<b>Sub Total</b>														
<b>International</b>	1												1	
<b>Total</b>	3		29		1								33	

## Degrees Awarded

### Degree: Master of Tourism and Travel Management (MTTM)

#### Degrees Awarded to students from different States of India and Abroad

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Nam	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh				2										2
Assam				2		1								3
Meghalaya			13	7									13	7
Manipur		3	1										1	3
West Bengal	1												1	
<b>Total</b>	<b>4</b>		<b>25</b>		<b>1</b>								<b>30</b>	

#### Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Ms. Hakamelamphylla Mawroh	“Gastronomic Tourism in Meghalaya” A study on Khasi Food”	Dr. Saurabh Kumar Dixit
Mr. Ashok Kumar	“Wine Tourism In Meghalaya, Prospects and Challenges and challenges”	Dr. Sharad Kumar Kulshreshtha
Mr. Rashmi Ranjan Choudhury	“ Community participation in Tourism: A Case study of Chilika Lake, Odisha.”	Dr. Saurabh Kumar Dixit
Mr. Londoner Murphy Sohtun	“A Study of Adventure Tourism in the East Khasi Hills of Meghalaya”.	Dr. Punit Gautam
Ms. Sabrina Lyngdoh	“ Cultural Tourism : A Study of Myths, Legends and folk Tales in Ri Hynniewtreph, Meghalaya”	Dr. Punit Gautam Professor Kynpham Sing Nongkynrih

#### Courses Conducted:

##### *Master of Tourism and Travel Management (MTTM) Four Semesters Programme*

**Semester-I:** THM – 101: Principles and Practices of Tourism ,THM – 102:Principles of Management and Organizational Behavior ,THM – 103: Hotel Operations and Management ,THM – 104:Tourism Geography, THM – 105: Business Communication ,THM – 106 :Economics for Tourism ,THM – 107:Tourism Products of India ,THM – 108: Human Resource Management

**Semester- II:** THM – 201: Travel Agency and Tour Operations Management, THM – 202: Tourism Marketing THM – 203: Transport Operations and Linkages, THM – 204:Accommodation Management ,THM – 205: Accounting and Finance for Tourism and Hotel Business ,THM – 206 :Research Methodology, THM – 207:Event Management, THM – 208: Legal and Regulatory Framework of Tourism

**Semester- III:** THM-301:Tour Guiding and Escorting, THM – 302: Food and Beverage Management,THM – 303: Society and Culture of North East India, THM –304 :Information Technology for Tourism and Hotel Business, THM -

315 :Aviation Management ,THM - 316 : Tour Packaging Management, THM - 325 :Rooms Division Management ,THM – 326 :Revenue and Yield Management ,THM - 335 :Tourist Behavior ,THM – 336: Selling and Negotiation Skills ,THM - 345 :Tourism and Hotel Entrepreneurship, THM – 346 :Small Business Management

**Semester-IV:** THM – 401: Tourism Products of North East India, THM – 402 :Destination Planning and Development, THM – 403 :Internship ,THM - 414 :MICE Management, THM – 415: Sustainable Tourism ,THM - 424 :Property Planning and Development ,THM – 425: Quality Management ,THM – 434: Destination Marketing and Branding ,THM – 435 :Customer Relationship Management, THM - 444 :Business Plan Development, THM – 445: Social Entrepreneurship

#### *MPhil/PhD Courses*

##### *Doctor of Philosophy in Tourism & Hotel Management (Ph.D-THM)*

THMPHD-101: Research Methodology

THMPHD-102: Contemporary Issues in Tourism & Hospitality Management

**Seminars/Conferences/Workshops/Symposia/  
Extension Programmes**

**(National/International):**

**Organized:**

**Dr. Sharad Kumar Kulshreshtha & Professor  
Saurabh Kumar Dixit:**

*Programme Coordinator Online UGC HRDC  
Refresher Course in Tourism, Hospitality and  
Management, UGC-HRDC, NEHU, Shillong 2-15  
December, 2021*

a.

organised as coordinator A Two-week Refresher course in Tourism, Hospitality & Management for College and University Teachers organized by the Department of Tourism & Hotel Management, in collaboration with UGC - Human Resource Development Centre, NEHU, Shillong, from December 2, 2021 to December 15, 2021.

**Attended:**

**Professor Saurabh Kumar Dixit**

(i) Delivered a Guest Lecture on “Trends in Linkage Operations and Culinary Tourism: Emergence, Operations and Development” on 26 October, 2021 at School of Hotel Management & Tourism, Lovely Professional University, Phagwara (Punjab), India.

(ii) Participated as Resource Person in on Sustainable Culinary Tourism in the *One-Week AICTE ONLINE Faculty Development Program (ATAL) "Responsible Tourism in the new normal"* December 8, 2022 organised by Jamia Millia Islamia, Department of Tourism and Hospitality Management, New Delhi.

(iii) Participated as Session Chair in the *third International Conference on Sustainable Developmental Goals and Management Practices* on February 11-12, 2022 held at School of Hotel Management & Tourism, Lovely Professional University, Phagwara (Punjab), India.

(iv) Participated as Panelist in the *International Conference on Tourism, Hospitality, and Sustainable Development Goals (THSDGs)* on February 18, 2022 held at National Institute of Tourism & Hospitality Management, Hyderabad, India.

THMPHD-103: Literature Review and Presentation

(v) Delivered a Guest Lecture (online) on “Food Tourism” on 25 March, 2022 at Department of Tourism Studies, Central University of Kerala, Kasaragod (Kerala), India.

**Publication**

**Published in India:**

**Professor Saurabh Kumar Dixit:**

1. Gunasekar, S, Kumar, DS, Purani, K, Sudhakar, S, Dixit, SK, Menon, D (2021). Understanding service quality attributes that drive user ratings: A text mining approach. *Journal of Vacation Marketing*. 27 (4): 400-419: <https://doi.org/10.1177/13567667211003246>

2. Dixit, S.K. (2021), Service Encounters in Tourism, Events and Hospitality: Staff Perspectives, *Journal of Qualitative Research in Tourism*. 2 (1): 80-81: <https://doi.org/10.4337/jqrt.2021.01.07>

3. Dixit, SK (2021). Tourist Consumption Behavior: An Unsolved Puzzle. *International Journal Of Hospitality & Tourism Administration*. 22 (5): 475-480: <https://doi.org/10.1080/15256480.2021.1982104>

4.

5. Gunasekar S., Das P., Dixit S. K., Mandal S. and Mehta S. R (2021). Wine-experiencescape and Tourist satisfaction: Through the lens of online reviews. *Journal of Foodservice Business Research*: <https://doi.org/10.1080/15378020.2021.2006039>

6. Menon D., Gunasekar S., Dixit S.K., Das P. & Mandal S. (2021), Present and prospective research themes for tourism and hospitality education post-COVID19: A bibliometric analysis, *Journal of Hospitality, Leisure, Sport & Tourism Education*: <https://doi.org/10.1016/j.jhlste.2021.100360>

7. Piramanayagam, S., Dixit, S. and Seal, P.P. (2022), We are in survival mode: how family-owned small foodservice firms in India responded to the Covid-19 pandemic", *Journal of Family Business Management*, Vol. ahead-of-print No. ahead-of-print: <https://doi.org/10.1108/JFBM-10-2021-0130>

*Dr. Benjamin Franklin Lyngdoh:*

1. Lyngdoh, B.F. (2022). An exploration of tourism development of Meghalaya, India: What is the way forward? *Atna-Journal of Tourism Studies* 17(1): <https://doi.org/10.12727/ajts.27.6>.

**Dr. Sharad Kumar Kulshreshtha**

1. Kumar, A. Kulshreshtha, S.K. (2021) Marketing Strategies For Packaging & Labeling Fruit Wines in Meghalaya: Reflection of Newly Introduced 'Manufacture and Sale of Homemade Fruit Wines Rules, 2020' *ANVESAK* ISSN: 0378 – 4568 UGC Care Group 1 Journal Vol. 51, No.2(V) July – December 2021 9

2. Kumar, A. Kulshreshtha, S.K. (2021) Production and Consumption Culture of Fruit Wines of Meghalaya: An Explorative Study, *The Journal of Oriental Research Madras* ISSN: 0022-3301 | OCTOBER 2021 | 327 UGC Care Group 1 Journal

**Published Abroad**

**Dr. Sharad Kumar Kulshreshtha**

1. Pillai, SKB, Kulshreshtha, SK, & Korstanje, ME. (2021) . *The Real Implications and Effects of Covid19 on the Tourism Industry: what is the future of tourism in a world without tourists?* *Brazilian Annals of Tourism Studies - ABET*, 11 (Single). Retrieved from <https://periodicos.ufrb.br/index.php/abet/article/view/33298> ABET is listed on ESCI/WoS (Emerging Sources Citation Index, from Web of Science Group/Scopus)

2. Kulshreshtha, S.K. and Kumar, A. Consumption Culture of Indigenous Beverages: An Explorative Study of Fruit Wines of Meghalaya (India), *Territoires du vin [Online]*, 13 | 2021, Online since 15 December 2021, connection on 21 September 2022. DOI: <http://preo.u-bourgogne.fr/territoiresduvin/index.php?id=2270>

**(ii) Books. (Edited Books/Volumes.)**

*Professor Saurabh Kumar Dixit:*

1. Dixit, S.K. (2021) (ed.), *Tourism in India: Marketing Perspectives*, Routledge Publications, UK (ISBN No's. Hardback-978-0-367-74626-1, E-Book 978-1-003-15878-3).

2. Dixit, S.K., Kuan-Huei Lee & PohTheng Loo (2021), *Consumer Behavior in Hospitality and Tourism*, Routledge Publications, UK (ISBN No. Hardback - 9781032019345, E-Book 978 100 3181071).

3. Kotur, S. A., Dixit, S.K. (2022) (eds.), *The Emerald Handbook of Luxury Management for Hospitality and Tourism*, Emerald Publishing,

UK (ISBN No's. Hardback - 978-1-83982-901-7, E-Book- 978-1-83982-902-4, Online- 978-1-83982-900-0).

**Dr. Sharad Kumar Kulshreshtha**

Kulshreshtha, S.K. Editor. (2019). *Virus Outbreaks and Tourism Mobility: Strategy to Encounter Global Health Hazards*, Publisher: Emerald Publishing Limited under Book Series: Tourism Security Safety and Post Conflict Destinations Series editors: Prof. Maximiliano E. Korstanje & Prof. Hugues Seraphin ISBN: 978-1-80071-335-2

**(iv) Book Chapters.**

**Dr. Benjamin Franklin Lyngdoh:**

Lyngdoh, B.F. (2021). An exploration of tourism development of Meghalaya India. In *Celebrating India @75*. David A. Kharchandy and Kerlihook L. Buam (Eds.). Winshield Press, New Delhi, Chapter 28, pp. 265-272.

**Dr. Sharad Kumar Kulshreshtha**

Kulshreshtha, S.K. (2022) *Green Tourism Marketing Strategies vis-vis Sustainable Tourism Practices*; Green Marketing and Sustainable Development Mittal Publication. Singh, A.K. and Mahanta, P. (Eds.) Chapter 4 pp-65-84

Kumar, A. & Kulshreshtha, S.K. (2022) *Green Practices of Fruits Wines: Sustainable Approach Wine making in Meghalaya Tourism Marketing Strategies vis-vis Sustainable Tourism Practices*; Green Marketing and Sustainable Development. Mittal Publication. Singh, A.K. and Mahanta, P. (Eds.) Chapter 4 pp-285-306

**(v) Proceedings of Seminar/Conferences.**

**(v) Books.**

**(iii) Edited Books/Volumes.:**

**(iv) Book Chapters.**

**Dr. Sharad Kumar Kulshreshtha**

Kulshreshtha, S.K. (2022) *Sustainable Transport and Mobility for Future Tourism: A Futuristic Outlook for India. Future of Tourism in Asia*. Sharma, A., Hassan, A. (Eds.) Springer Nature Publication, Singapore, Chapter 17 pp 279–294 DOI link: [https://doi.org/10.1007/978-981-16-1669-3\\_17](https://doi.org/10.1007/978-981-16-1669-3_17)

**Professor Saurabh Kumar Dixit:**

Kotur, S.A. & Dixit, S.K. (2022), Introduction, in Kotur, S. A., Dixit, S.K. (eds.), *The Emerald Handbook of Luxury Management for Hospitality and Tourism* (pp. 1-16), Emerald Publishing, UK.

Gupta, V. & Dixit, S.K., (2022), Influence of branded luxury guestroom amenities on guest's

hotel buying decisions: A case of five-star hotels in Delhi, in Kotur, S. A., Dixit, S.K. (eds.), *The Emerald Handbook of Luxury Management for Hospitality and Tourism*, Chapter 15, (pp. 305-319), Emerald Publishing, UK.

Dixit, S.K. & Kotur, S.A., (2022), Conclusion: Way forward for the hospitality and tourism luxury, in Kotur, S. A., Dixit, S.K. (eds.), *The Emerald Handbook of Luxury Management for Hospitality and Tourism*, Chapter 27, (pp. 533-538), Emerald Publishing, UK.

#### (v) Proceedings of Seminar/Conferences.

##### **Dr. Benjamin Franklin Lyngdoh**

Lyngdoh, B.F. (2021). Covid-19 pandemic and tourism of Meghalaya, India: Is marketing the solution? In *Proceedings of the International E-Conference Gen- Next Hospitality, 2021–*

##### **IPR Items:**

##### **(a) E-Content developed (MOOCs/SWAYAM):**

#### **VIDEO RECORDING FOR THE MOOCs (SWAYAM PLATFORM)**

Recorded the following 11 videos for **TS 6 Tourism Marketing Course (IGNOU)**

**Professor Saurabh Kumar Dixit:**

*Fostering Research, Innovation and Entrepreneurship*. Institute of Hotel Management, Bhopal. pp. 121-126.

#### **(c). Popular Articles (News Paper and Magazines)**

##### **Dr. Benjamin Franklin Lyngdoh:**

1. Cognition a cure for PGI woes. The Shillong Times, pub 20<sup>th</sup> July, 2021
2. The political economy of Meghalaya tourism. The Shillong Times, pub 27<sup>th</sup> September, 2021
3. Beyond 50 years of Meghalaya. The Shillong Times, pub 2<sup>nd</sup> December, 2021
4. Juvenile militancy. The Shillong Times, pub 24<sup>th</sup> February, 2022
5. Focus on tourism transportation a boon. The Shillong Times, pub 19<sup>th</sup> March, 2022
6. Meghalaya and its 'gig economy'. Eastern Panorama Magazine, pub March, 2022

Marketing strategies for the Hotels	<a href="https://youtu.be/hU9b4axjYpE">https://youtu.be/hU9b4axjYpE</a>
Basis of Hotel Classification	<a href="https://youtu.be/KH_FViHLnD0">https://youtu.be/KH_FViHLnD0</a>
Hotel products and services marketing	<a href="https://youtu.be/pwfs6pVqqpk">https://youtu.be/pwfs6pVqqpk</a>
Hospitality Marketing Mix	<a href="https://youtu.be/4mBuZ5EboqM">https://youtu.be/4mBuZ5EboqM</a>
Hospitality Market segmentation	<a href="https://youtu.be/Km8SSEDuWZc">https://youtu.be/Km8SSEDuWZc</a>
Hotel pricing strategies and policies	<a href="https://youtu.be/RJYIgh6nuOk">https://youtu.be/RJYIgh6nuOk</a>
Supplementary and Alternative accommodation	<a href="https://youtu.be/hPkddlOz0W4">https://youtu.be/hPkddlOz0W4</a>
Heritage Accommodation	<a href="https://youtu.be/-DfX2b0YXA">https://youtu.be/-DfX2b0YXA</a>
Other emerging accommodation Units	<a href="https://youtu.be/eXpsKwkFEpU">https://youtu.be/eXpsKwkFEpU</a>
Digital and social media marketing	<a href="https://youtu.be/V79sJc-KrIk">https://youtu.be/V79sJc-KrIk</a>
Linkages in the trade	<a href="https://youtu.be/YmBUhmV-LXE">https://youtu.be/YmBUhmV-LXE</a>



**Funds Received during the current Year**  
**(D) EMR Research Projects to individual faculty members:**

Title of Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of Investigator (PI/Co-PI)	Multi/Sing le Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Covid-19 pandemic and tourism of Meghalaya: Socio-economic impact and mitigation measures	On-going	Dr.Benjamin F. Lyngdoh	Single	ICSSR-NERC, Shillong	` 48000/-
A study of Indian Himalayan Region (IHR) by Indian Himalayan Central Universities Consortium under NEHU 5 Thematic areas Theme - 3 - Development of eco-friendly and cost-effective tourism in hills	Completed	Dr. Sharad Kumar Kulshreshtha (Theme - 3 Development of eco-friendly and cost-effective tourism in hills)	Multi Institute (2021-2022)	Funding Agency - Department of Higher Education Central Univ Division, Ministry of Education, Govt. of India. Year 2021 - 2022.	Total outlay – INR.18.75 lakhs (Total outlay allocated for 1-5 Themes equally)  Sanctioned -INR. 9.375 lakhs (Sanctioned fund allocated for 1-5 Themes equally)

**Honours/Awards/Recognition/Membership/Fellowship**

*Dr. Sharad Kumar Kulshreshtha*

*Member of Advisory Board in Book Series on Tourism Security-Safety and Post Conflict Destinations, Emerald Insight, U.K.*

<https://books.emeraldinsight.com/page/series-detail/tourism-security-safety-and-post-conflict-destinations/?K=e201903271354321889>

*Professor Saurabh Kumar Dixit:*

1. Associate Editor SCHOLE: A Journal of Leisure Studies and Recreation Education (Taylor and Francis Group Journal)
2. Editorial Advisory Board Member: Tourism Geographies (Taylor and Francis Group Journal)
3. Editorial Advisory Board Member Journal of Research in Interactive Marketing (Emerald Group Journal)
4. Guest Editor: Special Issue of Tourism Recreation Research on Gastronomic Tourism Experiences and Experiential Marketing (Taylor and Francis Group Journal)
5. Guest Editor: Special Issue of Journal of Foodservice Business Research on Food and

Beverage Tourism: Management and Marketing Perspectives(Taylor and Francis Group Journal)

6. Guest Editor: Special issue of Journal of Hospitality, Leisure, Sport & Tourism Education on Hospitality, Leisure, Sport and Tourism Education, and COVID-19 Disruptions (Elsevier Journal)

**Other Activities:**

*Dr. Sharad Kumar Kulshreshtha*

*7. Resource Person in AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Indian Heritage Management" from 05/07/2021 to 09/07/2021 at Amity University, Haryana.*

*8. Panelist at the International Conference "Renaissance: Challenges & Prospects of New Normal of Life in Various Spheres Surviving the COVID-19 Pandemic Era" held from 6th to 7th August 2021, organized by School of Business & Management, CHRIST (Deemed to be University), Bannerghatta Road Campus, Bangalore, India.*

*9. Invited as Subject Expert for the Board of Studies, Amity Institute of Travel & Tourism,*

Amity University, Kolkata 13th August, 2021, from Academic Year 2021-22.

**10. Board Member of BOS in Department of Tourism and Travel Management, Martin Luther Christian University, Shillong held 4 February, 2022.**

**11. Co-ordinator World Tourism Day Celebration 2021 Department of Tourism & Hotel Management, NEHU, Shillong**

**12. Invited as resource person for conducted sessions in a Online Training Program on "Tourism Transport and Travel Services" sponsored by Higher Education Department organized by RCVP Noronha Academy of Administration and Management, Bhopal for Professor and Assistant Professors of the**

Madhya Pradesh Government, from 28.03.2022 to 01.04.2022.,

**13. Participated Interdisciplinary Refresher Course Online on Foundation of Education Held from 17-30 August, 2021 organised by UGC HRDC, Mizoram University, Mizoram.**

**14. Resource person of 7th Faculty Induction Programme as recourse person to deliver talk on "Managing Campus Environment through Sustainable Development" organised by UGC HRDC, NEHU, Shillong on 9<sup>th</sup> February 2022.**

**15. Resource person of 7th Faculty Induction Programme as recourse person to deliver talk on "Managing Campus Environment through Sustainable Development" organised by UGC HRDC, NEHU, Shillong on 30<sup>th</sup> March 2022.**

### SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	Name		1	Prof. Saurabh Kumar Dixit	Dr Punit Gautam
	Date of Joining		2	April 23, 2013	April 25, 2013
	Field of specialisation		3	Hospitality and Tourism	Eco & Sustainable Tourism; Tourism
(A) Teaching Experience (in Years)	UG		4	22 Years	13 Years
	PG, including PhD		5	21 Years	29 Years
(B) Research activities	Basic Research		6	NIL	
	Applied Research		7	YES	NIL
	Action Research		8	NIL	YES
	Project Submitted		9	NIL	NIL
	Ongoing Project		10	NIL	NIL
	Research Paper in UGC care list journals	Group I	11	NIL	NIL
		Group II	12	5	NIL
	Books /Books chapters Published	Books	13	3	
		Book Chapters	14	3	
	Popular Articles (News Paper/ Magazines)		15	NIL	
	Seminar / Conference/ Symposia organized	National	16	1	
		International	17	NIL	
	Seminar / Conference/ Symposia attended	National	18	3	
		International	19	2	
	Conference Proceedings		20	NIL	
	Consultancy		21	NIL	
(C) Patent	Applied		22	NIL	
	Published		23	NIL	3
	Granted		24	NIL	

(D) E-Content	MOOC/SWAYAM/ E-content developed		25	11	
(E) Any Other	Teaching /Extension /outreach activities		26	yes	
	Responsibilities other than teaching		27	Registrar (In charge)	
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	03	
	Collaborations	National	29	NIL	
		International	30	NIL	

Details of Faculties	Name		1	Dr. Benjamin F. Lyngdoh	Dr. Sharad Kumar Kulshreshtha
	Date of Joining		2	7th July, 2006	July 2, 2012
	Field of specialisation		3	Management and Entrepreneurship	Tourism and Event Management
(A) Teaching Experience (in Years)	UG		4	2 years	18
	PG, including PhD		5	14 years	15
(B) Research activities	Basic Research		6	0	
	Applied Research		7	05	
	Action Research		8	02	
	Project Submitted		9	0	1
	Ongoing Project		10	1	
	Research Paper in UGC care list journals	Group I	11	1	2
		Group II	12	0	
	Books /Books chapters Published	Books	13	0	1
		Book Chapters	14	2	3
	Popular Articles (News Paper/ Magazines)		15	7	
	Seminar / Conference/ Symposia organized	National	16	0	
		International	17	0	
	Seminar / Conference/ Symposia attended	National	18	1	
		International	19	1	
	Conference Proceedings		20	1	
	Consultancy		21	0	
(C) Patent	Applied		22	0	1
	Published		23	0	
	Granted		24	0	
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	0	
(E) Any Other	Teaching /Extension /outreach activities		26	Yes	NO
	Responsibilities other than teaching		27	Yes	NO
	Awards/ Honours/ Recognition/		28	NO	NO

	Membership/ Fellowship				
	Collaborations	National	29	No	
		International	30	No	

## II

### SCHOOL OF EDUCATION

**Dean:** Prof. E. Jyrwa

**Telephone:** (0364) 2723590

**E-mail:** deanedu@nehu.ac.in

#### **1. Vision and Mission of the School:**

##### **Vision and Mission of the School of Education**

###### **Vision**

- Developing the human resource for the Nation's Educational System in general and Teacher Education in particular.
- Facilitating adult learning in addressing the diverse learning needs of different segments of the population.
- Empowering individuals and communities to improve the quality of life.
- Determining of standard and maintenance of quality in Distance Education with UGC norms.
- Flexibility in the system for wider coverage.
- Freedom to the learners to study at his/her own place and convenience.
- Omnipresent education, using emerging communication technologies.

###### **Mission**

- Preparing educationist in responding to the changing educational needs and challenges of contemporary Indian society in general and North East India in particular.
- Preparing teacher educators of taking responsibility of training elementary/secondary level school teachers for the Teacher Education Institutions of State/Nation.
- Pushing forward the recognition of adult learning and education as an important element of lifelong learning, of which literacy is the foundation.
- Highlighting the crucial role of adult learning and education for the realization of current education and development agendas of the state and the country.
- Renewing the momentum for adult learning and adult education.
- Developing the teaching tools for adult learners for implementation in order to move from rhetoric to action.
- Developing appropriate strategies to redress the discrepancy between the insights and discourse on one hand and lack of systematic and effective policies and conditions for adult education and learning on the other.
- Providing equitable access of quality education for different group of learners irrespective of their age or status of employment.
- Providing education to the doorsteps of the learner for easy accessibility.
- Opportunity to learner to study from his/her own chosen location.

#### **2. Name of the Departments/Centres under the School:**

Sl. No.	Name of the Department/Centre
1.	Department of Adult and Continuing Education, NEHU, Shillong
2.	Department of Education, NEHU, Shillong
3.	Department of Education, NEHU, Tura Campus
4.	Centre for Distance Education, NEHU, Shillong

#### **3. Salient Data of the School during the year 2021-22**

Total No. of Students awarded Ph.D. Degree	12 Students
Total No. of Research Publications	
National	18
International	-
Total No. of Books, Book Chapters, and Proceedings	
National	Books – 4
International	Books Chapters -7 -
Total No. of Research Projects (Fund Received in Lakhs)	
Completed - 3	
Ongoing - 5	-
New - Nil	
Total No. of Consultancy Projects (Fund Received in Lakhs)	
National - 2	
International - Nil	Rs. 2. 20 Lakhs
Total No. of Students Placed.	6
Selected for Higher Studies.	1

#### **4. Major Achievements/Highlights during the period (such as International Funding/Collaborations, International/National Awards):**

##### **Major Achievements**

Various activities/Programmes has been organized by different Department under the School of Education in collaboration with various agencies at the National Level. At the International Level the various Programme have been organized in collaboration with the **University of Leeds and Institute of Coding, British Council, UK, Johns Hopkins University, JHPIEGO, Lancaster University, University of Birmingham, University of Glasgow, King's College London, University of Southampton, University of Edinburgh.**

##### **National Award**

Faculty members under the School of Education have also been appointed/recognized at various capacity as member for UGC National Testing Agency (NTA) under the ministry of Education (MoE-erstwhile MHRD), GOI, Focus Group- State Curriculum Framework for the state of Meghalaya, Advisory Board (IAB) of North East Regional Institute of Education, NCERT, New Delhi, National Institute of Open Schooling (NIOS), Regional Advisory Committee (RCAC) of NIOS Regional Centre, Guwahati, Interviews: An Interdisciplinary Journal in Social Sciences. Peer reviewed international journal of St. Claret College, Ziro India ISSN: 2349-400X.

#### **5. Future Plans**

Co-ordinating, collaborating and implementing the policies and programme of Education as in accordance with the new national policy of Education, 2020 for career employability and sustainability.

## DEPARTMENT OF ADULT AND CONTINUING EDUCATION

Head : Dr. Jemino Mawthoh  
Telephone : (0364) 3322, 3327  
E-mail : hodace@nehu.ac.in & jeminomawthoh@gmail.com

### Faculty Profile:

Designation	Name and Qualification	Specialization
<b>Professor</b>	Dr. B. P. Sahu, MSW & Ph.D. (Kurukshetra)	Human Resource Development, PMIR Group Work in Adult Education
	Dr. E. Jyrwa, MPhil & Ph.D. (NEHU)	National, Regional and International Perspective of Adult Education, Philosophy of Adult Education, Rural Development
<b>Associate Professor</b>	Dr. J. Mawthoh, MA & Ph.D.(NEHU)	Environmental Education, Disaster Management, Research Methodology
	W.S. Myllemngap, MA, MPhil and Ph.D. (NEHU)	Adult and Continuing Education, Material Development
<b>Assistant Professor</b>	Dr. J.I. Rapthap, MSW(Bombay University), Ph.D.(NEHU)	Guidance and Counselling, Community Organization and Empowerment, Inclusive Education
	N. S. Devi, M. Sc (NEHU)	Rural Development, Extension Education, Communication methods in Adult Education

### Thrust Areas of Research

Thrust areas of Research in the Department include Migrant workers, Health and Education, Women Empowerment, Literacy, Post Literacy and Continuing Education, Study on the Aged, Guidance and Counselling, HIV/AIDS, Mass Media, Vocational Training, Skill Development, Family Life Education, Substance Abuse, Rural Tourism, Health, Challenged/ Differently Abled, Environmental Education, Disaster Management, Research Methodology, Entrepreneurship Development, Social Security.

### Brief Statement of Academic Activities and achievements

The Department of Adult and Continuing Education offers courses for the MA and Ph.D. programmes. The current intake capacity for MA is 55.

Lifelong Learning and Skill Development has emerged as the key component in the field of Adult and Continuing Education. Keeping this

### Students' Profile

**Enrolment Capacity: M.A.- 55 seats PhD –06**

**Enrolment of students from different States of India and Abroad**

in view, the Department has widened its scope to cover multidisciplinary subjects. The students admitted to this Department are drawn from various academic disciplines. The teachers in the Department make effort to utilize new techniques of teaching by supplementing lectures with slides presentation, group discussions and exposure trips. The Department offers Open Courses on Extension Education, Rural Development and Human Resource Development. The Department also introduced a core paper on Disaster Management which is a relevant subject in this contemporary world. In addition, the students are taught to develop literary materials such as posters and booklets for the neo-literates on various components of Adult Education in local dialect. These materials can be used for the benefit of the neo-literates at the grass root level. The Department is also involved in Field Outreach and Extension programmes besides Teaching and Research.

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya			5	43										
Manipur				2										
Assam	1								1					
Mizoram				1										
Meghalaya (Ph.D.)			1	3										
Manipur	1													
Sub Total	2		6	49	-	-	-	-	-	1	-	-	8	50
International (Ph.D.)	1													
Total	3		55						1				59	

#### Degrees Awarded

**Degree: B.Tech./ B.Arch/ BA(LLB)/ M.A./ M.Sc./ Ph.D.**

#### Degrees Awarded to students from different States of India and Abroad

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya (MA)	1		5	25										
Assam (MA)	2													
Meghalaya (Ph.D.)				3										
Sub Total	3		5	28										
International														
Total	3		33										36	

#### Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Ms. Ibadasuklin Kharshandi	Assessing Job Quality and its Implication on Security of Street Vendors in Shillong.	Prof. E. Jyrwa
Ms. Iwiwanini Jones D. Kharlukhi	National Rural Health Mission : A Study of ASHA on Health Care Practices in Rural Areas of Meghalaya	Prof. E. Jyrwa
Ms. Faithfulness Marngar	Health Literacy of Adult Women in West Khasi Hills District of Meghalaya	Dr. Jemino Mawthoh

#### Placement of Students

Name of the Student(s)	Name of the Programme	Post Held	Place of Work
Dr. M. I. Passah	MAAE	Guest Lecturer	Deptt. of Adult and Continuing Education
Dr. Wetshololu Wezah	MAAE	Guest Lecturer	Deptt. of Adult and Continuing Education

#### Students selected for Higher Studies:

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
Ena Lyngdoh	Ph.D.	Deptt. Of Adult and Continuing Education	India

#### Research Fellowship

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship(SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others
JRF-3	17			1	ICSSR- 1 NFST-2

#### Fieldwork/Educational Tour of Students

**Teacher-in-Charge: Mrs. N. S. Devi**

**Places/Institutions Visited: Indian Council of Agricultural Research (ICAR), Umiam, Meghalaya 793122**



***Duration of Tour (Dates and number of days):1 Day (14.05.2022)***

***Purpose of Tour: Educational***

**Courses Conducted:**

***Postgraduate: M.A. in Adult and Continuing Education***

***Semester I***

Foundation of Adult and Continuing Education; Adult Psychology and Learning; Communication in Adult Education; Environmental Education; Research Methodology.

***Semester II***

National and International Perspective of Adult and Lifelong Learning; Policies and Programmes of Adult Education in India; Human Relationship: Group Dynamics, Leadership and Management; Inclusive Education; Extension Education and Development.

***Semester III***

Guidance and Counselling; Women Literacy and Empowerment; NGO: Concept and Management; Human Resource Development; Rural Development.

***Semester IV***

Population Education; Community Organization and Empowerment; Entrepreneurship and Skill Development; Material Development in Vernacular Language; Disaster Management.

***PhD Courses***

Research Methodology; Perspective in Adult and Continuing Education; Literature Review and Seminar Presentation.

***Seminars/Conferences/Workshops/Symposia/Extension Programmes (National/International):***

***Organized***

Mrs. N. S. Devi

1. Acted as Workshop Coordinator and organized the International Workshop on “Personality Development in the Digital World” in the NEHU International Workshop Series: Look Up Aim High: Nation First Self Next”, 5<sup>th</sup> International Workshop jointly organized by the Department of Education and IQAC and Department of Adult and Continuing Education, NEHU, Shillong on 30<sup>th</sup> October, 2020.

***Attended***

Prof. E. Jyrwa

1. Acted as Resource person on the Online Training programme on “Capacity Building of KRPs on Adult Education and Lifelong Learning for all the North-Eastern States” from 21.02.2022 to 25.02.2022 in collaboration with NIE, NCERT, New Delhi and deliver a lecture on “Financial Literacy with reference to the North-Eastern Region of India” on 23<sup>rd</sup> February, 2022, held at (NERIE), NCERT, Umiam.

2. Attended and participated in a special lecture series on “Role of Higher Education Institutions in promoting Entrepreneurship among students” by R. Ramachandran, Field Co-ordinator – Hub Office, Madurai, Entrepreneurship Development – TN (Govt. of Tamil Nadu), Madurai, Kamaraj University on 28<sup>th</sup> February, 2022 through Google Meet organized by Department of Lifelong Learning and Extension, Indian Adult Education Association, New Delhi, Tamil Nadu Open University and Delhi University.

Prof. B. P. Sahu

1. Attended a Seminar on “Integration of Indigenous Knowledge in the School Curriculum: Prospects and Challenges” organized by the North East Regional Institute of Education (NERIE), NCERT, Umiam, on 17<sup>th</sup> February, 2022.

2. Acted as Resource Person in the One Day Workshop on “National Education Policy 2020: Challenges for Higher Educational Institutions” organized by Jaintia Eastern College, Khliehriat on 7<sup>th</sup> March, 2022.

3. Acted as Resource Person and a Panellist in the Two Day National Seminar on “National Education Policy 2020: Bridging the gaps in Accessibility, Equity, and Quality Learning outcomes in School Education” organized by Prof. Qoumrul Hoqu School of Education, University of Science & Technology Meghalaya (USTM) on the 13<sup>th</sup> and 14<sup>th</sup> May, 2022

4. Delivered lecture in the Virtual International Conference on “Protecting Children from Multiple Vulnerabilities: Social Work Responses from Community to Global Context” organized by Assam down town University, Faculty of Humanities and Social Sciences in collaboration with the Department of Social Work, Assam University (Central), Silchar on the 17<sup>th</sup> and 18<sup>th</sup> May, 2022.

Dr. J. Mawthoh

1. Delivered lecture on “Community Participation in Disaster Risk Reduction” at the Induction Training Programme for MCS Officers batch 2021 organised by the Govt. of Meghalaya, Meghalaya Administrative Training Institute, Shillong on the 3<sup>rd</sup> November, 2021 at MATI, Shillong.
2. Delivered lecture on “The Sixth Schedule/District Councils in Meghalaya and its Constitutional Mandate” at the Orientation Programme for IAS(P) of 2020 Batch organized by the Govt. of Meghalaya, Meghalaya Administrative Training Institute, Shillong on the 17<sup>th</sup> January, 2022 at MATI, Shillong.
3. Delivered lecture on “Road safely” organized by TULBA at State Central Library, Shillong on the 22<sup>nd</sup> April, 2022
4. Delivered Keynote Address in the Seminar on “Drugs and Substance Abuse” organized by the Salesian Youth Movement, Shillong Province in collaboration with Kripa Foundation, Shillong at St. Anthony’s Higher Secondary School on the 28<sup>th</sup> May, 2022

#### **Funds Received during the current Year**

##### **(E) Bulk Grant to Department/Centre/Section etc. other than EMR grant**

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	2
02	UGC (SAP, CAS, Seminar etc.)	1.40
03	DST (FIST, PURSE, Seminar etc.)	
04	NEC (program name)	
05	Others	

#### **Honours/Awards/Recognition/Membership/Fellowship**

Prof. B. P. Sahu

(i) Member of the Panel for test development and Paper Setting for Paper “Adult Education” for UGC National Testing Agency (NTA) under the Ministry of Education (MoE – erstwhile MHRD), GOI.

Dr. W. Myllemgap

- Member, Focus Group- State Curriculum Framework for the state of Meghalaya.
- Member, North East Regional Institute of Education (NERIE) Governing Body

#### **Other Activities**

**Prof. E. Jyrwa**

1. Developing of 7<sup>th</sup> Semester Curriculum for the Undergraduate as per National Education Policy (NEP) 2020 in January 2022 of the following papers:

- 1) LLE(core)701 – Research Methodology (6 Credits)

5. Panelist in a discussion on “State Budget of Meghalaya” on the occasion of World Economics Day organized by Econ Club of the Department of Economics, Commerce and Management, Martin Luther Christian University on 29<sup>th</sup> March, 2022.

Mrs. N. S. Devi

1. Acted as Resource Person and delivered lecture entitled “Gender Based Violence and Human Rights” in the Webinar on Human Rights & Feminist Issues organized by Department of Philosophy, A.M.B.S. Mahavidyalaya, Amarapur, Tripura on 22<sup>nd</sup> July, 2021.

#### **Publications**

##### **Published in India:**

##### **(i) Books.**

1. Myllemgap, W and B.P.Sahu. (2021). *Literacy, Functionality and Awareness of the Neo-literates*. Mittal Publication, ISBN-13 978-9390692125

- 2) LLE(core)702 – Field Work Methods in Extension Education (6 Credits)
- 3) DSE(3)703 – Community Organization (6 Credits)
- 4) GEC(5)704 – Tribal Development (6 Credits)

2. Developing of 4<sup>th</sup> Semester Curriculum for the Post Graduate as per National Education Policy (NEP) 2020 in January 2022 of the following papers:

- 1) MAE:401 – Research Methodology (4 Credits)
- 2) MAE:402 – Vocational Education and Skill Development (4 Credits)
- 3) MAE:403 (LLE) (c) - Dissertation – (4 Credits)
- 4) MAE:404(A) - Andragogy (4 Credits)
- 5) MAE:404(B) - Continuing Education (4 Credits)
- 6) MAE(405)(D) - Extension Education (4 Credits)
- 7) MAE:305 – Women Studies (4 Credits)

- 8) MAE:405 – Environmental Education (4 Credits)  
 9) MAE:406(AB) – Population Education (4 Credits)  
 10) In-charge of identify and framing the Generic Elective Courses (GEC) for the 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup> and 8<sup>th</sup> Semester Courses (Total 6 Courses) for the undergraduate.

Dr. J. Mawthoh

2. Prepared Draft Syllabus for Post Graduate level on Disaster Management, Human Resource Development, Sustainable Development and Research Methodology.

Dr. W. Myllemngap

1. Attended Orientation Programme for the Development of State Curriculum Framework 23 March 2022 organised by DERT, Meghalaya.  
 2. Attended Orientation Programme for the Development of State Curriculum Framework 25 March 2022 organised by DERT, Meghalaya.  
 3. Attended as Resource Person in a Regional Workshop on Indigenous Knowledge System in

Meghalaya and Gujrat organised by Distance Education, NEHU on 15 July 2022.

4. Incharge, Admission 2021  
 5. Incharge, Examination 2021 and 2022  
 6. Preparation of Syllabus for UG and PG

Dr. J. I. Rapthap

1. In Charge of Semester Examination held on July 2021  
 2. Member Admission Committee  
 3. Prepared the Structure of the Curriculum on Lifelong Learning and Extension for Undergraduate Level (U.G)  
 4. Prepared Syllabus for Undergraduate level (U.G.) on Adult Learning and Psychology, Foundation of Non-Formal Education, Health Education, Youth and Development, Emerging trends in Lifelong Learning

Mrs. N. S. Devi

1. Prepared the Structure of the Curriculum on Lifelong Learning and Extension for Undergraduate Level (U.G) and Post Graduate Level (P.G.).

#### SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	Name		1	Prof. E. Jyrwa	Prof. B. P. Sahu	Dr. Jemino Mawthoh
	Date of Joining		2	9.06.1989	14.05.2002	10.04.2002
	Field of specialisation		3	Adult Education, Continuing Education, National and International Adult Education, Rural Development	Human Resource Development, PMIR Group Work in Adult Education	Environmental Education, Disaster Management, Research Methodology
(A) Teaching Experience (in Years)	UG		4	No	no	No
	PG, including PhD		5	Yes	Yes	PG-20 Years Ph.D. 12 Years (Coursework and Supervision)
(B) Research activities	Basic Research		6	No	No	No
	Applied Research		7	No	No	No
	Action Research		8	No	No	No
	Project Submitted		9	No	No	No
	Ongoing Project		10	No	2	No
	Research Paper in UGC care list journals	Group I	11	No	Yes	No
		Group II	12	No	No	No
	Books /Books chapters Published	Books	13	No	No	No
		Book Chapters	14	No	No	No
	Popular Articles (News Paper/ Magazines)		15	No	No	No
	Seminar /	National	16	No	Yes	No

	Conference/ Symposia organized	International	17	No	No	No
	Seminar / Conference/ Symposia attended	National	18	No	Yes	No
		International	19	No	No	No
	Conference Proceedings		20	No	No	No
(C) Patent	Consultancy		21	No	No	No
	Applied		22	No	No	No
	Published		23	No	No	No
(D) E-Content	Granted		24	No	No	No
	MOOC/SWAYAM/ E-content developed		25	No	No	No
(E) Any Other	Teaching /Extension /outreach activities		26	Yes	Yes	Yes
	Responsibilities other than teaching		27	Yes	Yes	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	Yes	No
	Collaborations	National	29	No	Yes	No
		International	30	No	No	No

Details of Faculties	Name		1	Dr. J. I. Rapthap	Dr. Wandashisha Myllemngap	Mrs. N. S. Devi
	Date of Joining		2	3rd June 2002	10.04.2002	18.6.2012
	Field of specialisation		3	Guidance and Counselling, Community Organization and Empowerment, Inclusive Education	Adult and Continuing Education, Material Development	Entrepreneurship, NGO Management, Communication in Adult Education, Rural Development, Extension Education, Women Empowerment
(A) Teaching Experience (in Years)	UG		4	No	No	No
	PG, including PhD		5	PG- 20 Years PhD- 5 Years (Coursework and Supervision)	PG- 20 years PhD- 5 years (Coursework and Supervision)	Yes
	Basic Research		6	No	No	No
	Applied Research		7	No	No	No
	Action Research		8	No	No	No
	Project Submitted		9	No	No	No
	Ongoing Project		10	No	No	No
	Research Paper in UGC care list journals	Group I	11	No	No	No
		Group II	12	No	No	No
	Books /Books	Books	13	No	Yes	No

(B) Research activities	chapters Published	Book Chapters	14	No	No	No
	Popular Articles (News Paper/ Magazines)		15	No	No	No
	Seminar / Conference/ Symposia organized	National	16	No	No	No
		International	17	No	No	No
	Seminar / Conference/ Symposia attended	National	18	No	No	No
		International	19	No	No	No
	Conference Proceedings		20	No	No	No
	Consultancy		21	No	No	No
(C) Patent	Applied		22	No	No	No
	Published		23	No	No	No
	Granted		24	No	No	No
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	No	No	Yes
(E) Any Other	Teaching /Extension /outreach activities		26	Yes	Yes	Yes
	Responsibilities other than teaching		27	Yes	Yes	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	Yes	No
	Collaborations	National	29	No	No	No
		International	30	No	No	No

## DEPARTMENT OF EDUCATION

Head : Prof. Ibadani Syiem

Telephone : 2723340 (Head), 2723341(O), 9436104631(M)

E-mail : [hodedu@nehu.ac.in](mailto:hodedu@nehu.ac.in)

### Faculty Profile:

Designation	Name and Qualification	Specialization
Professor	Dr. S. M. Sungoh M.Phil; Ph.D. (NEHU)	Teacher Education, Teaching at Tertiary Level, Measurement & Evaluation, Educational Psychology, Guidance & Counseling, Research Methodology.
	Dr. C. Nongbri M.Ed; Ph.D. (NEHU)	Teacher Education, Educational Management, Curriculum Development, Educational System
	Dr. Ibadani Syiem MA; Ph.D (NEHU),	Educational Psychology, Environmental Education, Guidance & Counselling, Teacher Education, Curriculum Development , Early Childhood Education
	Dr. B. Bazeley Kharbiryimmbai M.A Education,, Ph.D (NEHU)	ICT in Education, Philosophy of Education, Research Methods, Curriculum Development, Higher Education, Economics of Education
Assistant Professor	Dr. Rihunlang Rymbai M.Ed (NEHU), PH.D (NEHU)	Teacher Education, Science Education, , Curriculum Development, Research Methodology, Educational Psychology
	Dr. Ashok Kumar M. Phil (Edu), Ph.D (Andhra)	Educational Policy; Educational Exclusion of disadvantaged sections; Psychological and Sociological aspects of Education; Constructivist Pedagogy.
	Dr. Vandana M. Ed, Ph.D (BHU)	Teacher Education, Research Methodology, Mental Health
	Dr. Euodia B Myrthong M.A.Edn, Ph.D (NEHU)	Mental Health Education, Educational Psychology, Research Methodology , Teacher Education
	Dr. Naraginti Amareswaran M.Ed. ,Ph.D (Sri Venkateswara)	ICT in Education, Teacher Education, Inclusive Education, Philosophy of Education, Research Methodology in Education, Value Education, and Philosophy of Religion

### Thrust Areas of Research

System of Education in North East, Test Construction, Teacher Education, Educational Psychology, Environmental Education, ICT in Education.

### Brief Statement of Academic Activities and achievements:

The Department of Education has been offering courses for M.A, M.Ed and Ph.D Programmes. The Department admitted 51 Students in the M.A. Programme and 50 in the M.Ed Programme. At present, the M. Ed programme is enhanced to Two Years Course comprising of four semesters as per the NCTE Regulations, 2014. The current intake capacity for MA is 51 and M. Ed is 50.

### Students' Profile

**Enrolment Capacity: MA 51, M.Ed 50, PhD 3**

**Enrolment of students from different States of India and Abroad ( For MA Education)**

STATE(Name)	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	1	-	1	-	-	-	-	-	-	-	-	-	2
Meghalaya	-	-	8	40	-	-	-	-	-	-	-	-	8	40
Tripura	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Sub Total	-	1	8	42	-	-	-	-	-	-	-	-	8	43
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	1		50		-		-		-		-		51	

**Enrolment of students from different States of India and Abroad ( For M.Ed)**

STATE(Name)	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Assam	1	-	1	-	-	1	-	-	-	-	-	-	2	1
Meghalaya	-	-	6	39	-	-	-	-	-	-	-	-	6	39
Sub Total	1	-	7	41	-	1	-	-	-	-	-	-	8	42
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	1		48		1		0		0		0		50	

**Enrolment of students from different States of India and Abroad ( For Ph.D)**

STATE(Name)	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	1	-	-	-	1	-	-	-	-	-	-	-	2
West Bengal	-	-	-	-	1	-	-	-	-	-	-	-	1	-
Sub Total	-	1	-	-	1	1	-	-	-	-	-	-	1	-
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	1		0		2		0		0		0		3	

**Degrees Awarded**

**Degree:**

**Degrees Awarded to students from different States of India and Abroad (For MA Education)**

Degree*	Male	Female	SC	ST	OBC	GN	EWS	Meghalaya	Non-Meghalaya	Total				
M.A	11	37	1	44	1	1	1	35	13	48				
M.Ed	11	29	1	37	0	1	1	35	5	40				
PhD	4	5	0	8	0	1	0	5	4	9				
Gen		ST		SC		OBC		EWS		PWD		TOTAL		
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	-	2	1	1	-	-	1	1	-	-	-	4	2
Arunachal Pradesh	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Manipur	-	-	1	1	-	-	-	-	-	-	-	-	1	1
Meghalaya	1	-	6	28	-	-	-	-	-	-	-	-	7	28
Mizoram	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Nagaland	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Sub Total	1	1	9	34	1	-	-	1	1	-	-	-	12	36
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	2		43		1		1		1		0		48	

**Degrees Awarded to students from different States of India and Abroad (For MEd)**

STATE(Name)	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	1	-	-	1	-	-	-	1	-	-	-	2	1
Meghalaya	-	-	9	26	-	-	-	-	-	-	-	-	9	26
Tripura	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Sub Total	-	1	9	28	1	-	-	-	1	-	-	-	11	29

International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	1		37		1		0		1		0		40	

### Degrees Awarded to students from different States of India and Abroad (For Ph.D)

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	3	2	-	-	-	-	-	-	-	-	3	2
Nagaland	-	-	2	-	-	-	-	-	-	-	-	-	-	2
West Bengal	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Sub Total	-	-	3	5	-	-	-	-	-	-	-	-	3	5
International	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Total	1		8		0		0		0		0		9	

### Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)
Ms. A. Ethel Kikon	Quality of Teacher Education in Nagaland	Dr. Naraginti Amareswaran
Mr. Welbirthstone L. Nonglait	Social-Emotional Competency in Relation to Classroom Behaviour of Secondary School Teachers in Meghalaya	Dr. Euodia B. Myrthong
Mr. Aden Ali Abdi	Problems of Teacher at School Level in Garissa County of North-Eastern Kenya.	Prof. B.B. Kharbiryumbai
Ms. Kesang Sherpa	Development and Challenges of Women in Higher Education in Darjeeling	Dr. Rihunlang Rymbai
Mr. Baldwin Banrapbor Sumer	Professional Ethics and Teacher Effectiveness among Secondary School Teachers of East Khasi Hills District of Meghalaya	Prof. I. Syiem
Ms. Tiamongla Kichu	Status of Technical and Vocational Education in Nagaland	Dr. N. Amareswaran
Ms. Toba Lamare	Influence of Socio- Economic Status on Academic Interest and Academic Achievement of the Secondary School Students in Meghalaya	Dr. E.B. Myrthong
Mr. Ferrando Lyngdoh Nonglait	Problems and Challenges of Rural Students in Higher Education in Meghalaya- An Exploratory Study	Dr. E.B. Myrthong
Ms. Ayophika Wallang Pahsyntiew	Self- concept and Happiness in relation to Academic Achievement among Higher Secondary Students in Meghalaya	Dr. R. Rymbai

### Placement of Students

Name of the Student(s)	Name of the Programme	Post Held	Place of Work
Mr. Ferrando Lyngdoh Nonglait	Ph.D	Asst Professor	Jaintia Eastern College, Khliehriat
Mr.Lamshailang Gordon Blah	Ph.D	Asst Professor	Alpha College, Ri Bhoi
Ms. Irilang Lyngdoh Mawlong	MA	Asst. Professor	St Anthony's College, Shillong
Ms. Lawanhunshisha	MA	Asst Professor	Shillong Commerce,



Kharshiing			Shillong
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### Research Fellowship

CSIR-UGC-NET (UGC NET JRF)	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others
13	3	6	0	1	0

### Courses Conducted:

#### M.A (Education)

Semester I: Philosophical Foundations of Education, Advanced Educational Psychology, Educational Management and Change, Research Methodology in Education (I&II)

Semester II: Curriculum Development and Instruction, Sociology of

Education, Educational Testing & Evaluation, Environmental Education and Mental Health Education,

Semester III: Information & Communication Technology (ICT) in Education, Comparative Education, Elective I- Experimental Research Designs in Education, Early Childhood Education, Open Learning and Distance Education, Elective-II- Inclusive Education-I, Educational Thought-I (Indian), Teacher Education-I, Education in Political Perspective.

Semester-IV: Laboratory Practical, Higher Education in India, Elective-III- Guidance & Counseling, Women Studies and Education, Education for Rural Development, Elective-IV- Inclusive Education-II, Educational Thought-II (Western), Teacher Education-II, Economics of Education.

M.Ed Semester- I: Introduction to Educational Studies, Teacher Education I –

#### Seminars/Conferences/Workshops/Symposia/ Extension Programmes (National/International):

##### Organized:

##### Prof C. Nongbri

- Organised the One Day Open House Discussion on NEP 2020 with special reference to National Professional Standard for Teachers on 15<sup>th</sup> February 2022 through blended mode in NEHU, Shillong.

##### Prof I. Syiem

Teachers and Teaching, Psychology of Learning & Development, Research Method-I, Research Method-II, Skill Development.

Semester- II: Theory & Practice of Teaching, Educational Testing, Teacher Education II – Professional development of Teachers, Internship in DIET's/CTE's for Four weeks, Academic Writing & Presentation, Mental Health.

Semester- III: Education in Philosophical Perspective, Elective – Development of Elementary Education, Development of Secondary & Higher Secondary Education, Optional –ICT in Education, Inclusive Education, Educational Planning, Management & Finance, Early Childhood Education, Dissertation, Historical Development of Education in India, Curriculum Development.

Semester- IV: Educational in Social Perspective, Elective – Management of Elementary Education, Management of Secondary and Higher Secondary Education, Optional – Experimental Education, Guidance & Counseling, Women Education, Environmental Education, Dissertation.

#### Ph.D Courses

Course Work: Higher Education, Research Methodology, Data Analysis & Computer Applications.

- Coordinator of the One Day National Webinar on NEP 2020: Challenges and Opportunities on 8<sup>th</sup> October, 2021 organised by HRDC NEHU Shillong with Dept of Education, NEHU Shillong.
- Organised the National Webinar on Commemoration of Sexual Harassment Act 2013 on 9<sup>th</sup> December, 2021
- Organised the National Workshop: Four Day series on Capacity Building & Personality Development, Sponsored by the National Commission for Women (NCW) New Delhi on 15<sup>th</sup>, 17<sup>th</sup>, 22<sup>nd</sup> & 24<sup>th</sup> November 2021

##### Prof. B. B. Kharbirymbai

- Organized an International conference on “Gender Equity for Sustainable Development (SDGs)” on the 11<sup>th</sup> and 12<sup>th</sup> of November, 2021 organized by the Department of Education, NEHU Shillong with Council for Educational Administration and Management (CEAM), India.

### **Dr. Rihunlang Rymbai**

- Organized with Dr. Vandana & Dr E. Myrthong the Poster Making Competition for Students of all the departments, NEHU, Department of Education, NEHU, Shillong to popularise the Vigilance programme, on 29<sup>th</sup> October 2021
- Organized with Prof. C. Nongbri an Open House Discussion on NEP 2020 and National Professional Standards for Teachers (Hybrid Mode) Department of Education, NEHU & NCTE, New Delhi on 15<sup>th</sup> February 2022.

### **Dr. Naraginti Amareswaran**

- One-Day National Workshop on *Digital Skills for Learning to Learn* organised by North-Eastern Hill University, Shillong, Meghalaya on 18<sup>th</sup> June 2021.
- Two-Day National Workshop on *Education Research: Innovative Ways of Researching* organised by North-Eastern Hill University, Shillong, Meghalaya in collaboration with School of Education, Savitribai Phule Pune University, Pune from 19<sup>th</sup> June to 20<sup>th</sup> June 2021.
- Two-Day International Workshop on *Teacher Education Paradigm Shift: Challenges in NEP 2020 and Global Perspective* organised by North-Eastern Hill University, Shillong, Meghalaya, India in collaboration with University College of Education, Karnataka University, Dharwad University, Dharwad, Karnataka, and School of Education, SPPU, Pune from 24<sup>th</sup> to 25<sup>th</sup> July 2021.
- ICSSR Sponsored One-Week FDP cum Workshop on *Innovative Techniques for Professional Development of Teachers in Higher Education* organised by the Department of Education, North-Eastern Hill University, Shillong, Meghalaya, India in collaboration with the Department of Philosophy, Moran College, Moranhat, Charaideo Dist., Assam, India during 1<sup>st</sup> -7<sup>th</sup> September 2021.
- ICSSR Sponsored 21-Day FDP cum Workshop on *Innovative Techniques for Professional Development of Teachers in*

*Higher Education* organised by the Department of Education, North-Eastern Hill University, Shillong, Meghalaya, India in collaboration with the Department of Philosophy, Moran College, Moranhat, Charaideo Dist., Assam, India during 1<sup>st</sup> -21<sup>st</sup> September 2021.

- ICSSR Sponsored One-Day International Workshop on *Philosophical Way of Life for Professional Development of Teachers in Higher Education* organised by the Department of Education, North-Eastern Hill University, Shillong, Meghalaya, India in collaboration with the Department of Philosophy, Moran College, Moranhat, Charaideo Dist., Assam, India on 8<sup>th</sup> September 2021.

- ICSSR Sponsored Two-Week FDP cum Workshop on *Innovative Techniques for Professional Development of Teachers in Higher Education* organised by the Department of Education, North-Eastern Hill University, Shillong, Meghalaya, India in collaboration with the Department of Philosophy, Moran College, Moranhat, Charaideo Dist., Assam, India during 8<sup>th</sup> -21<sup>st</sup> September 2021.

- Two-Day International Conference on *Online Teacher Effectiveness & Digital Capabilities: Keys for Quality Education and Research* organised by the Department of Education, North-Eastern Hill University, Shillong, Meghalaya, India in collaboration with the Department of Philosophy, and IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India during 5<sup>th</sup> -6<sup>th</sup> October 2021.

- SNCI Virtual Satellite Meeting on *Cognitive and Neurodevelopmental Disorders* organised by the Department of Education, North-Eastern Hill University, Shillong, Meghalaya, India in collaboration with the Department of Biomedical Engineering, NEHU, Shillong, Meghalaya, India during 30<sup>th</sup> October – 1<sup>st</sup> November 2021.

### **Attended**

#### **Prof. S. M. Sungoh**

- Attended the online Orientation Programme on “State Curriculum Framework (SCF)” organised by Department of Curriculum Studies and Development, NCERT, New Delhi  
Prof C. Nongbri

- Attended the National Workshop on “Leadership Development for University Deans and Head of Departments” organized by the Department of Higher and Professional

Education during March 02-04, 2022 at NIEPA, New Delhi through Online mode.

### **Prof I. Syiem**

- Presented a paper at the International conference: “Gender Equity and Self Esteem of Secondary School students: A Qualitative Study” organised by Dept of Education, NEHU Shillong in collaboration with Council of Educational Administration and management (CEAM) India on 11<sup>th</sup> & 12<sup>th</sup> November, 2021
- Attended a One Day Workshop on “ Forest based livelihoods, livelihood security and Indigenuous peoples Right on Natural Resources in Meghalaya on 22<sup>nd</sup> April, 2022 organised by Aaranyak , Assam in collaboration with State Council of Science, Technology & Environment, Meghalaya .

### **Prof. B. B. Kharbirymbai**

#### **Presented paper-**

- Celebrating India at 75: special reference to National Education Policy-2020” on the 27<sup>th</sup> of May, 2021 at the National Webinar organized by Synod College Shillong in collaboration with Department of Arts and Culture, Government of Meghalaya on the theme-“Celebrating India at 75” held on the 27<sup>th</sup> -28<sup>th</sup> May, 2021.
- At the National webinar organized by centre of Historical Research Synod College (CHRSC) in collaboration with Department of Arts and Culture, Government of Meghalaya on the theme-“A Retrospection in Meghalayas 50 years journey of Statehood ( 21-22 October 2021) on the the paper titled” Development of Higher Education in Meghalaya since statehood on the 21<sup>st</sup> of October, 2021.
- Attended one day National Workshop (online mode) on “Digital Skills for Learning to Learn” on 18<sup>th</sup> June, 2021 organized by NEHU, Shillong.
- Attended the two days International workshop on the 24<sup>th</sup> -25<sup>th</sup> July, 2021 (online mode) on “Teacher education Paradigm Shift: Challenges in NEP-2020 and global Prespective” organized by university college of Education, Karnatak University (KUD) Dharward in collaboration with NEHU, Shillong.
- Attended one day International workshop on “Communication competencies for online reflective teaching and Learning : Global prespective held on the 10<sup>th</sup> of july, 2021 organized by institute of Education and Behavioural Science, AMBO University,

AMBO-Ethiopia in collaboration with NEHU, Shillong.

- Attended the 2<sup>nd</sup> international workshop on “Essential Competencies for online teaching and learning on 3<sup>rd</sup> July, 2021 organized by Department of Education & IQAC Mazbat College, Mazbat, Udalguri, Assam in collaboration with NEHU, Shillong.
- Attended the two days International Workshop on-“Essential Skills and Moral values for career development of teachers: Global Prespective held on the 30<sup>th</sup> June-1<sup>st</sup> July, 2021 (online-mode) organized by department of Philosophy & IQAC, Moran College, Moranhat Assam in collaboration with NEHU, Shillong.
- Attended a lecture by Dr. Phanwin Yokying on the topic-“Migration and Family left behind” (live via zoom) organized by EWC Insights: Asia-Pacific Demographic Transitions on the 22<sup>nd</sup> of July, 2021.
- Attended the talk series on the topic-Regulatory system of Indian higher Education: Challenges and reforms by Department of Education, Mizoram University on 7<sup>th</sup> of August 2021 organized by CEAM-Edu confluence.
- Attended a one day International workshop on “ Open Educational Resources (OER) for reflective learning” organized by department of Philosoph, Moran College, Moranhat Assam and State College of Teacher Education (SCTE) Kohima, Nagaland in collaboration with School of Education, NEHU Shillong.
- Attended one day national workshop on “Youth Empowerment for better society on the 12<sup>th</sup> of August 2021 organized by Sri Venkateswara University, Tirupati Andhra Pradesh in collaboration with School of Education, NEHU, Shillong.

### **Dr. Rihunlang Rymbai**

- Attended a UGC Sponsored ID Refresher Course, organized by UGC – Human Resource Development Centre, Gauhati University, Guwahati from 27<sup>th</sup> December, 2021 to 9<sup>th</sup> January, 2022.

### **Dr. Euodia Bahun Myrthong**

- Attended the Choice or Obligation of Hijab to Muslim Women, In International Conference on Women Identity: Narratives and Discourses Heritage Society Patna (Bihar) & Gulab Bai Yadav Smriti Shiksha Mahavidhyalaya, Khargone (Madhya Pradesh)

### **Dr. Naraginti Amareswaran**

### **Presented a paper-**

- Continuing Professional Development of Teachers in the Digital World: Global Perspective & Digital Capabilities for Professional Development of Teachers in the Digital World: Global Perspective at international conference organized by the Department of Education, NEHU, Shillong with Moran College, Assam, on the 6<sup>th</sup> to 7<sup>th</sup> September 2021.
- Attended the Panel Discussion on NEP 2020 organized by the Department of Education, NEHU, Shillong, with NEHUTA on 14<sup>th</sup> September 2021.
- Digital Capabilities for Quality Education & Research at the International Conference organized by the Faculty of Humanities and Social Sciences, Chiang Mai Rajabhat University, Chiang Mai, Thailand, IQAC Moran College, Department of Education and IQAC, NEHU, Shillong, on the 5<sup>th</sup>-6<sup>th</sup> October 2021.
- 5 L's Model of Education for Gender Free Sustainable Development at the Online International Conference organized by the Department of Education, NEHU, Shillong collaborated with CEAM, India during 11<sup>th</sup> -12<sup>th</sup> November 2021.
- Attended the international workshop on Search and Research: Digital Humanities organized by the Department of Education, NEHU Shillong, India, with IQAC, Moran College, Assam, Sri Venkateswara University (SVU), Tirupati, Andhra Pradesh, India 12<sup>th</sup> November 2021.
- Mindfulness for Wellbeing and Peak Performance in the Digital World, Human Rights for Well-being and World Peace: Issues and Challenges & AtmaNirbhar Bharat for World's Happiness, Cooperation and Peace, ICT Integrated Research Methodology & Review of related literature: Innovative Approaches, Teaching Effectiveness of STEM Teachers & Innovative and Scientific Teaching and Learning in Higher Education, Innovative Approaches for Happiness: The Philosophical Perspective, Research Process and Research Design, Digital Empowerment of Students in Higher Education at the International Conference on organized by IQAC, NEHU, Shillong, ISTD, Shillong Chapter, Moran College, Assam, Sri Venkateswara University, Tirupati on 18<sup>th</sup> November, 10<sup>th</sup>

December, 2021 & 26<sup>th</sup> & 27<sup>th</sup> January, 28<sup>th</sup> February, 20<sup>th</sup> & 30<sup>th</sup> March, 2022.

### **Publications**

#### ***Published in India:***

#### **Research Papers.**

1. KharbiRymbai (2021) "Issues & Challenges of Higher education" Edu-Care-A Multidisciplinary International Peer Reviewed Journal published by APH publishing Corporation, Vol-IX, No.1, ISSN-2319-5282
2. KharbiRymbai (2021) "Educational Interest in relation to academic achievement of secondary school students in Meghalaya" at the International Journal of Education Culture and Society, doi:10.15503/jecs2021.1.555.562 No.1
3. KharbiRymbai (2021) "Science Teaching in schools of Meghalaya" at the on-line International Interdisciplinary Research Journal (OIIRJ), peer reviewed, open access, interdisciplinary refereed research journal, Impact factor = 6.855 (ISRAJIF) ISSN: 2249-9598, vol-II/Issue 05/Sept-Oct 2021
4. KharbiRymbai (2021) "ICT for Blended learning in Higher Education" at the on-line International Interdisciplinary Research Journal (OIIRJ), peer reviewed, open access, interdisciplinary refereed research journal, Impact factor = 6.855 (ISRAJIF) ISSN: 2249-9598, vol-II/Issue 05/Sept-Oct 2021
5. KharbiRymbai (2022) "Human Rights and Gender Equality" at a multi-disciplinary International Peer Reviewed/Refereed Journal – Excellence in Education, published by APH publishing corporation, ISSN No. 2320-7019, vol. XI No. 3
6. KharbiRymbai (2022) "Educational Applications of ICT" at a multi-disciplinary International Peer Reviewed/Refereed Journal – Excellence in Education, published by APH publishing corporation, ISSN No. 2320-7019, vol. XI No. 3
7. KharbiRymbai (2022) "A study on the problems faced by college going women students in Kamrup district of Assam" at the Journal of Education: Rabindra Bharati University, ISSN: 0972-7175, Impact Factor: 5.8, Vol: XXV, No.: 4(I), UGC CARE, Peer Reviewed and Referred Journal

8. Rymbai, R. (2021). Professional development of science teachers in Meghalaya. *Education India Journal: A Quarterly Refereed Journal of Dialogues on Education*, 10(4): 172 – 178. (A UGCCARE List Journal, ISSN 2278-2435)
9. Tiewsoh, I.& Rymbai, R. (2022). Women Leadership: Challenges of Women Leaders in Secondary Schools. *Research and Reflections on Education*, 20(1A): 32 – 37. (A UGCCARE List Journal, ISSN 974-684X)
10. Ashok Kumar. Eand Dibya Rumba (2021). Social Constructivist Model of Teaching-Learning. *Education India Journal: A Quarterly Refereed Journal of Dialogues on Education*, 10(S5): 204-209. (UGC-CARE).....(Nov, 2021)
11. Ashok Kumar.E&Laurence Kharluni (2021). Social Intelligence and Pro-social behaviour of Higher Secondary Students in East Khasi Hills District, Meghalaya. *Research and Reflections on Education*. 19(3): 6-9. (UGC-CARE) (July - Sep 2021)
12. Sarif, N., Ngasainao, G & Vandana. (2021). Psychological capital and academic adjustment among first-year university students in Meghalaya, North-East India. *International Journal of Education & Psychology in the Community*, 11.
13. Sarif, N. & Vandana. (2021). Digital learning, students' mental health and role of psychological capital amidst Covid-19 pandemic in India. *Ensemble ((CARE List - Group I))*
14. Sarif, N. & Vandana (2022). Correlates and Antecedents of Academic Achievement: A Systematic Review. *Int J Edu Sci*, 36(1-3): 19-29 (DOI: 10.31901/24566322.2022/36.1-3.1210) (CARE List -Group II)
15. Amareswaran, N. & Gogoi, S. (2022). 7S's Model of Learning and Teaching through Online. *Zeichen Journal*, 08 (03), 284-295

#### **Books.**

- (i) Sungoh.S.M., Sahu B.P., (2021). *Crime Against Women and Children*. Mittal Publications, New Delhi, ISBN 978-93-90692-61-3
- (ii) Kharbiryumbai B B(2022) *Study on Social and Vocational Maturity in relation to Academic achievement*, Publisher-Navyug Books International, New Delhi ISBN:978-93-93462-05-3

#### **(iii) Book Chapters.**

- (i) Kharbiryumbai,B.B (2021) chapter-17, "Degradation of Umiam Lake-Implication and challenges", Pages-195-200, book titled- *Understanding Water crisis* Edited by David Arnold Kharchandi and KwillyNongrum, Published by- Lakshi Publishers and publishers, New Delhi (India) ISBN: 9789-3821-20414
- (ii) Kharbiryumbai,B.B (2021) "Mental Health of teachers during COVID-19 pandemic" book titled- *"COVID-19 and its impact"* Edited by Dr.Parbin Sultana, Published by-Empyreal Publishing House (An International Publishing House), Ghaziabad, Uttarpradesh, India.
- (iii) Kharbiryumbai,B.B (2022) chapter-1, "Understanding Mental Health and Learners Participation –Role of teachers during Pandemic situation", Pages-1-14, book titled- *Emerging issues and recent trends in Indian Education* Edited by Dr.Phunu Das Sarma and Dr.Sechnaz Sultana, Published by- Research and Publication Cell and AnundoramBorooah Academy Degree College, Guwahati (India) ISBN: 978-93-90706-41-9
- (iv) Kharbiryumbai,B.B (2022) chapter-1, *Empowering women through higher Education for Sustainable Development*, Pages-158-162, book titled- *Identification of Abusive relationship and prevention of Domestic Violence*, Edited by Dr.AbulFoyes MD Malik, Published by- Akhand Publishing House(online), ISBN: 978-93-90870-70-7.

#### **Published Abroad:**

##### **Research Papers.**

- Nonglait, F. L, & Myrthong, E. B. (2021). Rural students' transition into higher education in Meghalaya: Challenges and coping strategies. *The Qualitative Report*, 26(5), 1663-1677, Texas, USA

##### **Book**

- Sharmistha Ghosh, Naraginti Amareswaran Reddy (2022), *Digital Initiatives of the Government of India for Education*, Publisher Lap Lambert Academic, Publishing Germany, ISBN:9786205501153

**IPR Items:****(b) Policy Reports:****(b) E-Content developed (MOOCs/SWAYAM):****Dr. Naraginti Amareswaran**

1. 7 S's Model of Learning and Teaching through Online (one quadrant e-videos, ARPIT, SWAYAM under SPPU, Pune).

**(d) Consultancy:**

Title of Consultancy Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of the Consultant	Multi/Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Stress and Coping with Online Education During the COVID-19 Pandemic: A Qualitative Study of the Post Graduate Students of North-Eastern Hill University	Ongoing	Dr. Rihunlang Rymbai	Single (2021-2022)	Indian Council of Social Science Research-North Eastern Regional Centre (ICSSR-NERC), Shillong	INR 1 L
A study of Online Learning Experiences of School Students in Meghalaya	New	Dr Vandana	Single 2021-2022	ICSSR-NERC	INR 1.20 Lacs

**Funds Received during the current Year****(F) Bulk Grant to Department/Centre/Section etc. other than EMR grant**

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	Rs. 2 Lakhs (Non Plan Consumbales for MA)
		Rs. 1 Lakhs (Non Plan Consumbales for M.Ed)
		Rs. 5 Lakhs (For Equipments)
	Total	8 Lakhs

**Academic Collaborations****Prof I.Syiem**

Sl .No.	Name of the Collaborator(s)	Collaborating Institution(s)	Title of Academic Activity	Date
1	Dept of Forestry, Govt of Meghalaya, Shillong & The Shillong Golf Course,(coordinator Prof.I.syiem)	Department of Education, NEHU, Shillong	World Environment Day	3rd June, 2022

**Prof. B. B. Kharbirymbai**

Sl .No.	Name of collaborator	Collaborating Institution	Academic activity	Title	Date
1	Council for Educational Administration and Management (CEAM), India.	Department of Education, NEHU, Shillong	International conference	Gender Equity for Sustainable Development (SDGs)”	11-12 November 2021

### **Honours/Awards/Recognition/Membership/**

#### **Fellowship:**

#### **Prof S. M. Sungoh**

1. Member of the Advisory Board (IAB) of North East Regional Institute of Education, NCERT, New Delhi.
2. Chairperson of National Institute of Open Schooling (NIOS), Regional Advisory Committee (RCAC) of NIOS Regional Centre, Guwahati.

#### **Prof. B. B. Kharbiryumbai**

1. North East India Educational Society. (Life membership)
2. Life Member of Commonwealth Council for Educational Administration and Management (CCEAM) Waterloo, Ontario, Canada.
3. Association of Indian University, New Delhi.
4. All India Association of Educational Research, Bhubaneswar.
5. National University of Educational Planning and Management (NUEPA).
6. Indian academy of social sciences, Allahabad (Life fellowship)
7. Indian Association of Gerontology, Banaras (Life membership)
8. Chairperson- Council of Educational Administration and Management (CEAM) Meghalaya, (A National Professional organization to strengthen educational organization and management)
9. Editorial Board member of NEIES Journal
10. Managing Editor of Red Flower Publications. Editorial Board of 'RFP Journal
11. Editorial Board member of Tetso Journal of Educational Research
12. Member of Board of Studies, William Carey university, Shillong, Meghalaya
13. Member of School Board, School of Humanities and Education, Nagaland University, Kohima Nagaland.
14. Member of School Board, Mizoram University, Mizoram.

#### **Dr. Naraginti Amaeswaran**

Life Member of TTD Saptagiri, Tirupati, Andhra Pradesh, India.

1. Life Member of North East India Education Society (NEISE), Shillong, Meghalaya, India.
2. Life Member of All India Association for Educational Research (AISER), Bhubaneswar, Odissa.
3. Life Member of Council for Teacher Education Foundation (CTEF), Meghalaya Chapter, Shillong.
4. Life Member of Commonwealth Council for Educational Administration and Management (CCEAM) Waterloo, Ontario, Canada.
5. Life Member of Council for Educational Administration and Management (CEAM), Thiruvananthapuram, Kerala, India.
6. Life Member of Indian Society for Training and Development (ISTD), New Delhi, India.

#### **Other Activities:**

#### **Prof S. M. Sungoh**

#### **Resource person-**

1. Understanding and Addressing Learners Needs, Nature and Types of Stress and Stress Management, Micro Teaching, Skills in Teaching, Strategies of Teaching-Learning, Stress management, Teaching, Tribal Studies for College and University Teachers on NEP 2020: Challenges and Opportunities, NEP 2020, organised by UGC- Human Resource Development Centre, NEHU, Shillong on 5<sup>th</sup> & 7<sup>th</sup> April, 9<sup>th</sup>, 15<sup>th</sup>, 16<sup>th</sup> September, 4<sup>th</sup>, 8<sup>th</sup> October, 8<sup>th</sup> November, 2021, 3<sup>rd</sup>, 4<sup>th</sup>, 8<sup>th</sup>, 9<sup>th</sup> February 2022.
2. Orientation Programme on “Team Work and Soft Skills” organised by North East Adventist University, on 11<sup>th</sup> April, 2021.
3. International Workshop on “Teacher Education- Paradigm Shift: Challenges in NEP 2020 and Global Perspective” Organised by University College of Education, Karnataka, University, Sharward, Karnataka on 24<sup>th</sup> - 25<sup>th</sup>, July 2021.
4. International workshop on “Blog-Based Learning, Teaching and Research” organised by S.S. Khanna Girls’ Degree college, University of

Allahabad, Prayagaraj, UP, NEHU on 17<sup>th</sup> August, 2021.

5. “Panel Discussion on NEP, 2020”, organised by North-Eastern Hill University Teachers’ association, NEHU on 14<sup>th</sup> September 2021.

6. International Webinar on Innovative Techniques for Professional Development of Teachers in Higher Education, Teacher Effectiveness and Digital Capabilities: Keys for quality education and research, organised by Department of Education, NEHU, Shillong with Moran College, Assam on 21<sup>st</sup> September, 5<sup>th</sup> October 2021.

7. International Webinar on “NEP 2020: a paradigm Shift for Education organised by Political Science and Public Administration” Department of Sociology, Sri Venkateshwara University College of Arts, SVU, Tirupati, Andhra Pradesh on 26<sup>th</sup> September, 2021.

8. “Research Ethics” for Research Methodology course for M.Phil and Ph.D. PDF Scholars in Social Sciences organised by Dept of Management and Department of Teacher Education, Nagaland University on 26<sup>th</sup> October 2021.

9. International Conference on “Global Issues in Multidisciplinary Academic Research” Organised by Indian Academicians and Researchers Association (IAA) in association with Rajabhat Maha Sarakham University, Thailand on 31<sup>st</sup> October, 2021.

10. International Conference on “Gender Equity for Sustainable Development: Participation of Women in Decision Making” organised by Department of Education, in collaboration with CEAM on 11<sup>th</sup> November 2021.

11. Higher Education in Post Pandemic World: Challenges in the New Normal” organised by Shillong College, Shillong on 22<sup>nd</sup> November, 2021

12. Workshop for all Principals of Affiliated Colleges under North-Eastern Hill University, Shillong on, “The implementation of NEP 2020: Prospects and Challenges” organised by Shillong College, Shillong on 22<sup>nd</sup> November, 2021

13. Expert Committee Member to develop strategies for phasing out of TEIs organised by NCTE, MOE, New Delhi on 17<sup>th</sup> and 18<sup>th</sup> November, 2021.

**Prof C. Nongbri**

**Resource person-**

1. Blended Learning on the theme “Advances in Pedagogical Approaches” (Online Mode) conducted by the UGC – Human Resource Development Centre, Panjab University, Chandigarh on January 12, 2022.

2. Refresher Course on NEP2020: A reformist step forward in the context of Teacher Education on the theme “Educational Reforms and Teacher Education with special Reference to NEP 2020” organized by UGC- Human Resource Development Centre, Gauhati University, Guwahati on 8/01/2022

3. Faculty Induction Programme for College & University teachers organized by UGC-HRDC, NEHU, 10<sup>th</sup>, August 26<sup>th</sup> and 3<sup>rd</sup> 16<sup>th</sup> September, 2021, 24<sup>th</sup> January, 2<sup>nd</sup> February, 23<sup>rd</sup>, 24<sup>th</sup> March 2022.

4. Key Speaker for the Two-Day Symposia- Panel Discussion on the theme: Prospects and Challenges of Teacher Education in the light of NEP 2020 held on organised by the College of Teacher Education (PGT), Shillong at Shillong Club on 25 & 26 March, 2022

**Prof I. Syiem**

**Resource person**

1. Sustainability Development in Higher Education with special focus on Women”, Emotional Intelligence and Entrepreneurship, organised by HRDC NEHU Shillong on 7<sup>th</sup> September, 27<sup>th</sup> October, 2021, 7<sup>th</sup> February, 31<sup>st</sup> March, 2022.

**Prof. B. B. Kharbirybmai**

**Resource person-**

1. ICT for Blended Learning in Higher education organized by ICSSR-NERC & Department of Education, NEHU Shillong) on the 12<sup>th</sup> of September 2021

2. Sampling Design and techniques, Mental health of teachers during COVID-19 pandemic, Introduction to learning theories, Importance of Soft Skills in Higher Education, Life skills for teachers, ICT in Higher Education, Sampling Technique, Sampling Design, Sampling Technique, Introduction to Learning Theories organized by UGC-HRDC-NEHU Shillong on the 15<sup>th</sup>, 22<sup>nd</sup> September, 16, 17<sup>th</sup> November, 13<sup>th</sup> December, 2021, 20<sup>th</sup>, 22<sup>nd</sup> January, 4<sup>th</sup>, 21<sup>st</sup> March, 2022 organized by ICSSR-NERC & Department of Education, NEHU, Shillong

3. Understanding Mental Health and Learners participation-Role of Principals during Pandemic situation” at the 2 days interdisciplinary E-



orientation programme for principals under CBSE schools on 25<sup>th</sup> September 2021.

4. Tools for data collection at the Research Methodology course organized by Department of Management & Department of Teacher Education, Nagaland University on 23<sup>rd</sup> October, 2021

5. Identifying Career Opportunities I-IV at NCW Capacity Building and personality development programme organized by the school of Humanities, NEHU Shillong in collaboration with ICC NEHU, Shillong 15<sup>th</sup>, 17<sup>th</sup>, 22<sup>nd</sup> 24<sup>th</sup> of November, 2021

6. Work Place discrimination of women-vulnerability and consequences at the National webinar on Women at work place: Is gender equality still at crossroads” organized by Department of Education, West Bengal State University, Barasat, Kolkata, West Bengal on the 4<sup>th</sup> of December, 2021

7. NEP-2020-Teacher Education organized by UGC-HRDC Jadavpur University, Kolkata, India on the 7<sup>th</sup> of December, 2021.

8. Mental health of Teachers during COVID-19 pandemic organized by Department of Bio-medical engineering for the IBRO-APRC short term course on the theme- depression, anxiety, mental stress and its remedies in light of COVID-19 on the 14<sup>th</sup> of December, 2021

9. Chairperson at the National Webinar organized by Synod College Shillong with Department of Arts and Culture, Government of Meghalaya on the theme-“Celebrating India at 75” held on the 27<sup>th</sup> -28<sup>th</sup> May, 2021.

11. Presidential address on “Professional Development of Teachers during COVID-19 Pandemic at the international organized by Department of Education, NEHU Shillong, with Moran College, Assam on the 6<sup>th</sup> and 7<sup>th</sup> of September, 2021

12. Keynote speaker on Qualitative Approach in Educational Research at FDP on “Enhancing Quality Approach in Education” organized by IQAC of Army Institute of Education, Greater Noida, U.P on the 10<sup>th</sup> of June, 2021

13. Keynote speaker on “Education Research: Innovative ways of researching” organized by Savitri Bhai Phule Pune University, Pune held on the 19<sup>th</sup> -20<sup>th</sup> June, 2021.

14. Keynote speaker at an International conference titled-“ Gender Equity for Sustainable Development(SDGs)” on the topic- Gender and its influence on matrilineal society in Meghalaya” organized by the Department of Education,

NEHU Shillong with CEAM India on the 12<sup>th</sup> of November, 2021.

15. Key note speaker on “Blog based Learning, Teaching and Research” organized by SS Khanna Girls Degree University of Allahabad, Prayagraj UP with Department of Education, NEHU Shillong on the 17<sup>th</sup> of August, 2021

16. Keynote speaker on “Qualitative approach in Educational Research” at the FDP on Enhancing Qualitative Approach in Education organized by Army Institute of Education, Noida on the 10<sup>th</sup> of June, 2021.

17. Expert for paper review on the title” Supporting ODL learners through alternative means of Curriculum transaction during COVID-19 times” for Indian Journal of Educational Technology (ISSN-2581-8325) UGC CARE list bi-annual peer reviewed (double blind) published in English on the 28<sup>th</sup> of October, 2021.

18. Chairperson at the National webinar organized by centre of Historical Research Synod College in collaboration with Department of Arts and Culture, Government of Meghalaya on the theme-“A Retrospection in Meghalaya’s 50 years journey of Statehood on the 22<sup>nd</sup> of October, 2021.

### **Dr. Rihunlang Rymbai**

#### **Resource person-**

1. Education beyond face-to-face mode: Values and productive habits of e-learning organised by Office of Research and Innovation, Spicer Adventist University, Pune, Maharashtra on 29<sup>th</sup> April 2021

2. National Education Policy 2020 organised by Department of Education, St Mary’s College, Shillong, Meghalaya on 7<sup>th</sup> July 2021

3. Gender Equity for Sustainable Development Goals and Well-Being organised by Department of Education, NEHU, Shillong, in collaboration with CEAM, India 12<sup>th</sup> November 2021.

### **Dr. Ashok Kumar Erigala**

#### **Resource person-**

1. Using Action Research for Better learning FDP, organized by UGC-HRDC, NEHU, Shillong on 7<sup>th</sup> March 2022

2. Computing Statistics in SPSS at Short-term Course on SPSS, organized by UGC-HRDC, NEHU, Shillong on 8<sup>th</sup> & 13<sup>th</sup> Dec. 2021.

3. Using Action Research for Better learning at FDP organized by UGC-HRDC, NEHU, Shillong 13<sup>th</sup> September 2021.

### **Dr. Naraginti Amareswaran**

### Resource person-

1. Education Research: Innovative Ways of Researching, Blended Learning Approach, TPACK & New Pedagogy organized by the School of Education, SPPU, Pune on 19<sup>th</sup> & 20<sup>th</sup> June, 17<sup>th</sup> November, 2021.

2. Online Learning: Grow with Google Workspace organized by St. Joseph's College for Women, Guntur, Andhra Pradesh on 25<sup>th</sup> June 2021.

3. Career Development of Teachers: Global Perspective organized by the Department of Philosophy & IQAC, Moran College, 30<sup>th</sup> June- 1<sup>st</sup> July 2021.

4. Essential Competencies for Online Teaching and Learning organized by KSS Vijayanagar College of Education, and KSR College of Education, Karnataka, on 2<sup>nd</sup> July 2021.

5. Communication Competencies for Online Reflective Teaching and Learning: Global Perspective at the Institute of Education and Behavioural Science, Ambo University, Ambo, Ethiopia on 10<sup>th</sup> July 2021.

6. Neuropedagogy & 5 L's Model of Education at the International Workshop organized by University College of Education, Karnataka University, School of Education, SPPU, Pune, India from 24<sup>th</sup> to 25<sup>th</sup> July 2021.

### SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	Name		1	Prof. B. B. Kharbiryam bai	Prof S M Sungoh	Prof C. Nongbri
	Date of Joining		2	13.07.2006	18.12.1996	18.01.1997
	Field of specialisation		3	Higher Education	Teacher Education, Research Method and Educational Psychology	Curriculum Development, Teacher Education
(A) Teaching Experience (in Year)	UG		4	6	6 yrs	NO
	PG, including PhD		5	19	26 yrs	YES, 25 Years
(B) Research activities	Basic Research		6	8	2	YES
	Applied Research		7		2	YES
	Action Research		8	0	-	YES
	Project Submitted		9	1	1	YES
	Ongoing Project		10	0	-	NO
	Research Paper in UGC care list journals	Group I	11	1		NO
		Group II	12	7		NO
	Books /Books chapters Published	Books	13	1	1	YES
		Book Chapters	14	5		YES
	Popular Articles (News Paper/ Magazines)		15	0		YES
	Seminar / Conference/ Symposia organized	National	16	0		YES
		International	17	1		YES
	Seminar / Conference/ Symposia attended	National	18	7	20	YES
		International	19	6	7	YES

	Conference Proceedings		20	0		YES
	Consultancy		21	0		YES
(C) Patent	Applied		22	0		NO
	Published		23	0		NO
	Granted		24	0		NO
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	0		NO
(E) Any Other	Teaching /Extension /outreach activities		26	37	10	YES
	Responsibilities other than teaching		27	2	27	YES
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	0	3/4	YES
	Collaborations	National	29	1		YES
		International	30	0		YES

Details of Faculties	Name		1	Prof I. Syiem	Dr. Rihunlang Rymbai	Dr. Ashok Kumar Erigala
	Date of Joining		2	15.12.2005	12.06.2012	29.06.2012
	Field of specialisation		3	Educational psychology, Environmental Education, Teacher Education , Curriculum Development, Early Childhood Education, Guidance & Counselling	Teacher Education, Science Education, Well-being in Education, Curriculum Development, Research Methodology	Sociology of Education
(A) Teaching Experience (in Year)	UG		4	7.5 yrs (CTE, PGT) Shillong	6.5 years	
	PG, including PhD		5	16yrs	10.4 months	10 years
(B) Research	Basic Research		6	Yes as in the case of PhD & MEd Dissertation	No	Yes
	Applied Research		7		Yes	Yes
	Action Research		8		No	Yes
	Project Submitted		9		1	No
	Ongoing Project		10		1	No
	Research Paper in UGC care list journals	Group I	11	-	2	2
		Group II	12		0	0

activities	Books /Books chapters Published	Books	13		0	0
		Book Chapters	14		0	0
	Popular Articles (News Paper/ Magazines)		15		0	0
	Seminar / Conference/ Symposia organized	National	16	3	2	0
		International	17		0	0
	Seminar / Conference/ Symposia attended	National	18	1	3	0
		International	19	1	0	0
	Conference Proceedings		20		0	0
(C) Patent	Consultancy		21		2	0
	Applied		22		0	0
	Published		23		0	0
	Granted		24		0	0
(D) E-Content	MOOC/SWAYAM/ E-content developed		25		0	0
(E) Any Other	Teaching /Extension /outreach activities		26	Yes, Resource person for varied programs	3	3
	Responsibilities other than teaching		27	Yes, HoD (July 2019-21st July 2022) Presiding Officer Internal Complaint Committee (ICC) –(July 2019-January 2022)	0	0
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	Yes, Editorial Board Member of An Interdisciplinary Journal in Social Sciences	0	0
	Collaborations	National	29	Yes, Observance of World Environment day with Forest Dept, Govt of Meghalaya & Shillong Golf Course	0	0
		International	30	-	0	0

Details of Faculties	Name		1	Dr Vandana	Dr. Euodia B Myrthong	Dr. Naraginti Amareswaran
	Date of Joining		2	02.07.2012	11.4. 2013	25.4.2022
	Field of specialisation		3	Teacher Edu, Mental Health	Mental Health Education, Educational Psychology, Research Methodology	ICT in Education, Teacher Education, Inclusive Education, Philosophy of Education, Research

					, Teacher Education	Methodology in Education, Value Education, and Philosophy of Religion.
(A) Teaching Experience (in Year)	UG		4			
	PG, including PhD		5	10 years, 8 months	9 years	11 Years 1 month
(B) Research activities	Basic Research		6		PhD 4 completed. 3 ongoing	
	Applied Research		7			
	Action Research		8			
	Project Submitted		9			
	Ongoing Project		10	1		
	Research Paper in UGC care list journals	Group I	11	1	1	
		Group II	12	1	Group II	
	Books /Books chapters Published	Books	13	0	Books	
		Book Chapters	14	0	1	
	Popular Articles (News Paper/ Magazines)		15	0		
	Seminar / Conference/ Symposia organized	National	16	0	National	2
		International	17	0	International	116
	Seminar / Conference/ Symposia attended	National	18	0	National	3
		International	19	0	1	117
	Conference Proceedings		20	0		
	Consultancy		21	0		
(C) Patent	Applied		22			
	Published		23			
	Granted		24			
(D) E-Content	MOOC/SWAYAM/ E-content developed		25			460 Vedios (YouTube) 46 Posts (Blogs)
(E) Any Other	Teaching /Extension /outreach activities		26			1. IQAC Member 2. IPR Member 3. NEP 2020 Convenor
	Responsibilities other than teaching		27	Hostel Warden	Member BOS DoE &NSS PO	
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28			59 Certificate of Achievements Membership in 7 Professional Bodies
	Collaborations	National	29	0	National	2
		International	30	0	International	114

## DEPARTMENT OF EDUCATION (TURA CAMPUS)

Head : Prof. S. C. Subudhi  
 Telephone : 9436703629 / 7005927638 (Mobile)  
 Email : sibasubudhi.nehu@rediffmail.com / sibasubudhi.nehu25@gmail.com  
 Faculty :

Designation	Name & Qualification	Specialization
Professor	Prof.S.C.Subudhi, MA, M.Phil & Ph.D (Kurukshetra University).	Research Methodology & Statistics in Education, Educational Testing & Measurement and Inclusive Education
	Prof. Nikme S.C.Momin, MA & Ph.D. NEHU.	Educational Psychology, Teacher Education & Environmental Education ,Early Childhood Care & Education

### Thrust Area of Research

Educational Psychology, Educational Management and Change, Curriculum Development and Instruction, Value and Peace Education, Environmental Education, Teacher Education & Methods of Teaching, Special Education & Inclusive Education, Research Methodology, Early Childhood Education & Elementary Education, Higher Education & Comparative Education.

### Brief Statement of Academic Activities

The Department of Education, NEHU, Tura Campus was established in August 2001. Since then, it has been offering two years M.A. and Ph. D. Programmes in Education. Besides regular teaching and research work, the department conducted course seminars in which students presented papers on various topics.

The department is also engaged in Research Project works funded by the UGC and ICSSR, New Delhi, and ICSSR, NEHU-Shillong. The Department has a well-established Psychological Laboratory with adequate number of psychological tests and equipments where students conduct tests and experiment as a part of their course work.

### STUDENTS' PROFILE

**Enrolment Capacity: P.G. : 30: Ph.D: Varies as per capacity**

#### Actual Admission:

	OBC	SC	ST	GEN	Male	Female	Meghalaya	Non- Meghalaya	Total
P.G	-	-	20	-	4	20	24	-	24
Phd	-	-	-	-	-	-	-	-	-

#### P.G Degree Awarded

	OBC	SC	ST	GEN	Male	Female	Meghalaya	Non- Meghalaya	Total
P.G	-	01	29	-	06	24	29	01	30

#### Ph.D. Degree Awarded

Name of Student	Title of Thesis	Name(s) of Supervisor(s) / Joint Supervisor
Ms. Kasaatchi Tera K Marak	"Effect of Thinking Strategy on Creativity of University Students".	Prof.Nikme S.C.Momin
Ms. Tengchira T Sangma	"Effectiveness of Reading Comprehension Package on Reading Comprehension in English of Class IX students of Meghalaya"	Prof.Nikme S.C.Momin

#### Research Fellowship

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi SC/ST	ICPR Fellowship	Meritorious Malana Azad Minority Fellowship	JRF	Other
-	02	-	-	-	01	01

### Seminars/ Conference/ Symposia/ Extension Programmes/Attended /and Paper

#### Organized:

Prof. S. C. Subudhi

Organized Two days Workshop on “NEP 2020-its strategies and Implementation in teacher

Education’ for pre-service and in-service teachers and teacher educators at **DIET, Resubelpara, North Garo Hills, Meghalaya** on 30<sup>th</sup> November to 1<sup>st</sup> December, 2021

#### Prof. Nikme S. C. Momin

Organized 5 days online National Workshop on “*MOOCs, E-Content Development and Open Educational Resources*” w.e.f 14<sup>th</sup> to 18<sup>th</sup> February, 2022 jointly organized by the Department of Education, North- Eastern Hill University, Tura Campus, Tura, Don Bosco College, Tura, Meghalaya and Department of Education & Educational Technology, School of Social Science, University of Hyderabad, Telangana State, Hyderabad.

#### Attended:

1. Faculty Development Programme on “*Qualitative Research on Content Analysis, Grounded Theory and Case Study*” on 28<sup>th</sup> to 30<sup>th</sup> January, 2021 organized by Indian Teacher Education Community in collaboration with Delhi Metropolitan Education, College, New Delhi.

2. International Workshop on “*Teacher Education-Paradigm Shift: Challenges in NEP 2020 and Global Perspective*” on 24<sup>th</sup>& 25<sup>th</sup> July, 2021 organized by the Department of Education, North- Eastern Hill University (NEHU), Shillong, Meghalaya in collaboration with the School of Education, Savitribai Phule Pune University, Maharashtra.

3. International Workshop on “*Youth Empowerment for Better Society*” on 12<sup>th</sup> August, 2021 organized by the Department of Education, North- Eastern Hill University (NEHU), Shillong, Meghalaya in collaboration with the Department of Education, Centre for Extension Studies, Sri Venkateswara University, Tirupati, Andhra Pradesh.

4. International Workshop on “*Blog-based Learning, Teaching and Research*” on 17<sup>th</sup> August, 2021 organized by the Department of Education, North- Eastern Hill University (NEHU), Shillong, Meghalaya in collaboration with the Department of Education, S.S.Khanna Girls’ Degree College, University of Allahabad, Uttar Pradesh.

5. National Webinar on “*National Education Policy 2020: Role of Education Teachers*” on 12<sup>th</sup> August, 2021 jointly organized by School of Education, Dr B.R. Ambedkar University of Social Sciences, Mhow, Indore and Bhartiya Shikshan Mandal.

6. International Workshop on “*Professional Development of Teachers: Global Perspectives*” on 1<sup>st</sup> September, 2021 organized by the Department of Education, North- Eastern Hill University (NEHU), Shillong, Meghalaya in collaboration with the Department of Philosophy, Moran College, Moranhat, Assam.

7. “*Professional Development Program-Foundational Numeracy*” on 04<sup>th</sup> September, 2021 organized by Association of Early Childhood Education & Development, Centre of Human Ecology, Tata Institute of Social Sciences, Mumbai.

#### A. Publications:

##### Prof. Nikme S.C.Momin

##### (a)Published in India:

**Books:** Marak, N, Momin, N. (2021). *Manual and Consumable Booklet of Problem Behaviour Scale* (PBSMRNMCNS). National Psychological Corporation, Agra.

##### (b) Published Abroad:

##### Research Papers.

(a) Momin, N., Koch, R., (2021). Mastery and Performance Goal Orientations Amongst Koch Adolescents of Meghalaya. <http://ijcrt.org/viewfull.php?&p.id=IJCRT2111159>

(b) Momin, N., Koch, R., Marak, C. (2021). Rural Youths of Meghalaya and their Educational Aspiration. <http://ijrar.org/viewfull.php?&pid=IJRAR21D1973>

(c) Mushahary, R., Momin, N., (2022). Psychological Well-Being, Self-Perception and Social Motives among Post Graduates of Meghalaya.

<http://jetir.org/view?paper=JETIR2201286>

#### (b) Policy Reports:

(i) **National:** *Position Papers for the State Curriculum Framework (SCF, January to May, 2022)* under the Directorate of Educational Research and Training, Government of Meghalaya.

#### (b) Participated :

Participated in the workshop” ***Leadership Challenges at Institution Level and Strategies to Overcome***” from 2<sup>nd</sup> to 4<sup>th</sup> March, 2022 at NIEPA, New Delhi.

#### Academic Collaborations

##### (i). National

Name of the Academic Activity	Name of the Programme	Date	Organizer	Collaborating Institutions
National Workshop	“MOOCs, E-Content Development and Open Educational Resources”	14th to 18th February, 2022	Department of Education, North-Eastern Hill University, Tura Campus, Tura ,	Don Bosco College, Tura, Meghalaya & Department of Education & Educational Technology, School of Social Science, University of Hyderabad, Telengana State, Hyderabad.

#### Other Activities

#### Delivered lecturers:

##### **Prof. Nikme S.C.Momin**

1. Delivered a Lecture on “*Child Development and Developmentally Appropriate Practices (DAP)*” on 30<sup>th</sup> November, 2021 in the Faculty Extension Programme organized by the Department of Education, NEHU, Tura Campus, Tura, Meghalaya.

2. Delivered a Lecture on “*National Education Policy (NEP-2020) and Early Childhood Care and Education (ECCE)*” on 6<sup>th</sup> December, 2021 in the Faculty Extension Programme organized by the Department of Education, NEHU, Tura Campus, Tura, Meghalaya.

##### **Prof.S.C.subudhi**

1. Delivered four lectures on NEP 2020 its strategies and implementation in Two days Workshop on “NEP 2020-its strategies and Implementation in teacher Education’ for pre-service and in-service teachers and teacher educators **at DIET, Resubelpara, North Garo Hills, Meghalaya on 30<sup>th</sup> November to 1<sup>st</sup> December, 2021.**

2. Delivered a lecture on ‘Research Tools-Its construction and standardization’ on 25<sup>th</sup>-26<sup>th</sup> March, 2022 **as a resource person** in a CRE faculty Induction programme **organized by the PPWO, Odisha on 25<sup>th</sup> March, 2022.**

#### Articles Published in Journals:

1. Subudhi S C & Brahma M. (2021). “An assessment of statistical competency among Ph.D. research scholars of North-East India in Quantitative Research”. Journal of Education, Rabindra Bharati University, Kolkata, Vol XXIII, No-3, ISSN: 09727175, UGC care list J, ID-1010026258.

2. Subudhi, S.C. (2022). ‘Middle school education in North-Eastern states of India’. International Journal of Current Science, Vol - 12, Issue- 1, ISSN: 2250-1770. Pp 514-522, Impact factor-8.17(calculated by Google scholar and semantic scholar).

3. Subudhi, S.C. (2022). ‘Child worker and child marriage among tea working class communities in Assam: Scheme for engagement’. International Journal of Research Culture Society (IJRCS), Vol -6, Issue- 4, ISSN: 2456-6683. Pp 78-87, Impact factor-5.743 (calculated by Google scholar and semantic scholar).



3. A Paper presented in National Colloquium on Implementation of NEP 2020: Issues and challenges in context of Teacher Education at Trisha College of Education, Thain, Hamirpur, Himachal Pradesh on 24<sup>th</sup>-25<sup>th</sup> Feb. 2022. Topic entitled “Sustainable goal in Higher Education.

### SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	Name		1	Prof .S. C. Subudhi	Prof Nikme S C Momin
	Date of Joining		2	01/05/2002	10.04.2002
	Field of specialization		3	Research Methodology & Statistics in Education, Educational Testing, Special Education, Inclusive Education	Educational Psychology, Early Childhood Care and Education, Environmental Education
(A) Teaching Experience (in Years)	UG		4	Yes	No
	PG, including PhD		5	Yes	yes
(B) Research activities	Basic Research		6	Yes	No
	Applied Research		7	no	yes
	Action Research		8	no	yes
	Project Submitted		9	no	No
	Ongoing Project		10	no	Yes
	Research Paper in UGC care list journals	Group I	11	no	Yes
		Group II	12	yes	Yes
	Books /Books chapters Published	Books	13	no	Yes
		Book Chapters	14	yes	Yes
	Popular Articles (Newspaper/ Magazines)		15	no	
	Seminar / Conference/ Symposia organized	National	16	yes	Yes
		International	17	no	Yes
	Seminar / Conference/ Symposia attended	National	18	yes	Yes
		International	19	no	Yes
	Conference Proceedings		20	yes	Yes
	Consultancy		21	no	Yes
(C) Patent	Applied		22	no	No
	Published		23	no	No
	Granted		24	no	No
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	yes	No
(E) Any Other	Teaching /Extension /outreach activities		26	yes	yes
	Responsibilities other than teaching		27	yes	yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	no	yes
	Collaborations	National	29	yes	yes
		International	30	no	No

## CENTRE FOR DISTANCE EDUCATION

Head : Prof.R.N.Rai (up to May 11, 2022)  
 Prof. B. P.Sahu (w.e.f. May 12, 2022)  
 Telephone : 0364-2722961 (o) / 94851 06057  
 Email : bishnusw@gmail.com

**Faculty: 01**

Designation	Name and Qualification	Specialization
<b>Professor</b>	Dr. R. N. Rai M.A & Ph.D (Kashi Vidyapith, Varanasi)	Psychological Testing and ial Psychology of Aging

### Thrust area of the Centre:

The thrust area of the Centre is to offer General, Certificate, Diploma and Degree Courses in distance mode to all those who have for some reason or other been deprived of formal education and are seeking higher education irrespective of age or region where they reside. The Centre offers Degree, Diploma and Certificate Courses through distance mode relevant to the region.

### Brief Statement of Academic Activities:

The Centre for Distance Education (CDE) has been selected as the only nodal agency of the Rehabilitation Council of India (RCI), New Delhi to spread the teaching learning on disabilities areas in the entire North Eastern Region of India through the distance mode. In the disability areas, the Centre for Distance Education, NEHU presently offers the Foundation Course on Education of Children with Disability (FC-SEDE). The programme coordinators and counselors have been exposed to the new techniques of distance mode of education through orientation programmes.

The Centre is hosting the IGNOU Study Centre, Shillong. Under this Centre, Master and Bachelor Degree Programmes, Diploma and Certificate Programmes are offered to students of different categories. More than 1200 distance learners are enrolled under this Study Centre.

### Students Profile

#### Students' Profile

**Enrolment Capacity:** FC-SEDE – 150

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	14	19	-	-	-	-	-	-	-	-	14	19
Puducheery	2	-	-	-	-	-	-	-	-	-	-	-	2	-
Assam	-	7	-	-	-	-	-	1	-	-	-	-	-	8
<b>Sub Total</b>	<b>2</b>	<b>7</b>	<b>14</b>	<b>19</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>16</b>	<b>27</b>
<b>International</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Total</b>	<b>9</b>		<b>33</b>		<b>-</b>		<b>1</b>		<b>-</b>		<b>-</b>		<b>43</b>	

### Degrees Awarded

#### Degree: FC-SEDE

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	8	12	-	-	-	-	-	-	-	-	-	-
<b>Sub Total</b>	<b>-</b>	<b>-</b>	<b>8</b>	<b>12</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Total</b>	<b>-</b>		<b>20</b>		<b>-</b>		<b>-</b>		<b>-</b>		<b>-</b>		<b>-</b>	

### Students Awarded PhD Degree:

Name of Student	Title of Thesis	Supervisor/Joint Supervisor
Ms. Faithfulness Marnagar	" Health Literacy of Adult Women in West Khasi Hills District of Meghalaya."	Joint Supervisor : Prof. R. N. Rai. (Supervisor : Dr. J. Mawthoh)

**Placement of Students:**

Successful students of Disability Programmes are placed under SSA and special schools of the North-East Region of the Country and all over the country. The students have also joined various NGOs to cater the needs of the challenged population which is a sizable number in the North Eastern Region.

**Courses conducted :****Foundation Course on Education of Children with Disabilities (FC-SEDE)**

- Developing Broad Positive Perception of Children with Disabilities and Intervention Measures.
- Understanding Education for the Children with Disabilities.
- Understanding of Early Childhood Development and Intervention of Children with Disabilities.
- Development of Adaptive Skills, Assistive Devices and Special Therapies for Children with Disabilities.
- Basic Training for Teaching Children with Special Needs.

**Seminar/Conference/Symposium/Extension Programme etc****(i) Attended:**

Prof. R. N. Rai chaired the Scientific Session in the 57<sup>th</sup> National & 26<sup>th</sup> International Conference of the Indian Academy of Applied Psychology (RCI - Accredited), organised jointly by the Department of Clinical Psychology and Department of Psychology,

Mizoram University, from 27<sup>th</sup> January to 29<sup>th</sup> January, 2022.

**Academic Collaborations**

The Centre is conducting the FC-SEDE course in collaboration with Rehabilitation Council of India, New Delhi.

### III SCHOOL OF HUMANITIES

**Dean** : Prof. Vanlalnghak  
**Telephone** : 3501-2551722(O)/9862248481(M)  
**E-mail** : vanlalnghak@yahoo.co.uk, deanhum@nehu.ac.in

#### 1. Vision and Mission of the School:

##### Vision

The school has been fulfilling its vision to impart education and research in the discipline of literary studies in English, Khasi, and Garo as well as in philosophy and linguistics.

##### Mission

The school has the mission to provide a space for the promotion of free thinking the development of creativity and imbibing scientific temperament in the fields of philosophical discourses, language learning, literature studies and linguistics. The school also has the mission to take initiatives to facilitate research and studies in the ethnic and marginal languages and literature of the region and indigenous philosophical and critical discourses of the North East.

#### 2. Name of the Departments/Centers under the School:

Sl. No.	Name of the Department/Centre
1	English Department NEHU, Shillong
2	English Department NEHU, Tura
3	Khasi Department NEHU, Shillong
4	Hindi Department NEHU, Shillong
5	Philosophy Department NEHU, Shillong
6	Linguistics Department NEHU, Shillong
7	Garo Department (Tura) NEHU, Shillong

#### 3. Salient Data of the School

Total No. of Students awarded Ph.D. Degree	16
Total No. of Research Publications	35
National	4
International	
Total No. of Books, Book Chapters, and Proceedings	84
National	
International	
Total No. of Research Projects (Fund Received in Lakhs)	
Completed	
Ongoing	10 (Rs. 23.3 Lakhs)
New	
Total No. of Consultancy Projects (Fund Received in Lakhs)	
National	
International	2 (Rs. 50.0 Lakhs)
Total No. of Students Placed/Selected for Higher Studies	20

#### 4. Total No. of Patents: 15

Patent(s) Filed		Patent(s) Published		Patent(s) Granted	
Nation	Internation	Nation	Internation	Nation	Internation

#### 5. Total No. of Policy Documents: 24

Policy Documents Applied (Name of the Agency/Government)	Policy Documents Approved/Accepted (Name of the Agency/Government)
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#### 6. Major Achievements/Highlights during the period (such as International Funding/Collaborations, International/National Awards):Collaborations

Total No of National	Total No of International
145	150

## DEPARTMENT OF ENGLISH

**Head** : (1) Prof. Mala Renganathan  
(Reinstated as HOD English on 7<sup>th</sup> July 2021 up to 25<sup>th</sup> October, 2021)  
(2) Prof. Jyotirmoy Prodhani, w.e.f.25<sup>th</sup> October 2021.

**Telephone** : (i) 9436732332 (Mobile), (ii) 0364-2723503/9436315650

**E-mail** : (i) malareng@yahoo.com, (ii) jprodhani@nehu.ac.in,  
(iii) rajaprodhani@gmail.com

### Faculty Profile:

Designation	Name and Qualification	Specialization
Professor	Dr. Jyotirmoy Prodhani (Professor & HOD) MA (Pune Univ), PhD (NEHU)	Theatre and Performance Studies, Translation, North East Literature
	Dr. Esther Syiem M.A. (Delhi Univ), MPhil & PhD (NEHU)	American Literature, Modern Fiction, Oral Literatures
	Dr. Moon Moon Mazumdar MA & PhD (NEHU), DDE (IGNOU)	English Literature Shakespeare Studies, British Fiction, Postcolonial Literature and Tagore Studies
	Dr. Sukalpa Bhattacharjee MA, MPhil & PhD (NEHU)	Critical Theory, Gender Studies, Postcolonial and Decolonial Literatures
	Dr. Mala Renganathan MA (Madurai Kamaraj Univ) MPhil (Pondicherry Univ), PhD (MKUniv)	Drama / Theatre Studies, South Asian Terror/Literature Studies
	Dr. Utpala Ghaley Sewa MA, MPhil & PhD (NEHU)	British Poetry and Diasporic Literature (Retired in April 2021)
	Dr. Kynpham Sing Nongkynrih MA & PhD (NEHU)	(a)World Poetry in English Translation (b)English Poetry (c)Indian Poetry in English Translation (d) Northeast Poetry in English Translation (e) Classical Literary Criticism (f) English Literary Criticism up to the Romantics (g)Haiku/Senryu/Haibun Poetry
Associate Professor	Mr. Rabindra Singh Ngangom, MA (NEHU)	Modern Poetry, World Literature in Translation, Indian Writing in English
Assistant Professor	Mr. Lang Kupa K. War, MA (NEHU)	Modern Fiction, Postcolonial Literature and Visual Studies
	Dr. Suranjana Choudhury, MA (Assam Univ, Silchar), MPhil (Jadavpur Univ) & PhD (Calcutta Univ)	Partition Writings, Women's Studies, South Asian Literatures, Cultural Studies
	Dr. Rimi Nath, MA & PhD (Gauhati Univ)	South Asian Literature, Indian Writing in English, Partition Literature, Migration and Diaspora Studies, Postcolonial Studies,

		Poetry (including haiku)
	Dr. Somjyoti Mridha, MA, MPhil & PhD (JNU)	Indian English Literature, Literature of Kashmir Conflict

### **Thrust Areas of Research:**

Theatre and Performance Studies, Translations, Ethnic and Indigenous Studies, Northeast Literature, American Literature, Indian Writing in English, Folklore Studies, Shakespeare Studies, British Fiction, Postcolonial Literature and Tagore Studies, Critical Theory, Postcolonial Literatures and Gender Studies, Terror Literatures of South Asia, British Poetry and Diasporic Literature, Northeast Poetry, World Poetry in English, Translation/Classical Criticism, Indian Poetry in English, World Literature in English Translation, Modern Fiction, Visual Studies, Partition Writings, South Asian Literatures, British Fiction, Ideas of Nation and Nationalism.

### **Brief Statement of Academic Activities:**

(i) 6<sup>th</sup> October, 2021 – Dr. Piyali Gupta, Assistant Professor, Department of English, Bethune College, Kolkata delivered a special talk on “Decency Forbids: Women Autobiographies and the Silences” as part of a special lecture series for the course on Women’s Writings in the Department of English, NEHU, Shillong, through online mode.

(ii) 17<sup>th</sup> November 2021 - Dr. Nabanita Sengupta, Assistant Professor and Head, Department of English, Sarsuna College, Kolkata delivered a special talk on “Gender Representations in Popular Indian Animations” as part of a special lecture series for the course on Women’s Writings in the Department of English, NEHU, Shillong, through online mode.

(iii) 24<sup>th</sup> November, 2021 –Students of the MA (English) first and third semesters as well as Research Scholars participated in the Programme on Capacity building & personality Development Programme (PDP) for female students organized by the School of Humanities, NEHU, Shillong in collaboration with the Internal Complaint Committee (ICC), NEHU, Shillong. This programme provides an excellent opportunity to women students to be acquainted with different skills including resume making, facing interviews and preparing them to face the challenges with confidence. The programme was held online through Zoom Platform – <https://zoom.us/j/4429672307?Pwd=UjZWNHRCdEdjQkMwVVhLMnVQWHNEdz09>.

(iv) 25<sup>th</sup> November 2021 - The Department organized an online lecture through Google Meet ([meet.google.com/ubg-tret-fri](https://meet.google.com/ubg-tret-fri)) delivered by Prof. G.J.V. Prasad, Retired Professor Centre for English Studies, Jawaharlal Nehru University, New Delhi on the topic “India in the English Literature Classroom”. The Coordinator of the Programme was Dr. Somjyoti Mridha, Assistant Professor in the Department.

(v) 8<sup>th</sup> December 2021 - Dr. Sudeshna Chakravorty, Assistant Professor and Head, Department of English, Sushil Kar College, Kolkata delivered a special talk on “The unfairness of them all: A brief look into the gender stereotypes in fairy tales and their relevance to today’s world” as part of a special lecture series for the course on Women’s Writings in the Department of English, NEHU, Shillong, through online mode.

(vi) 31<sup>st</sup> March 2022 - The following MA students from the Department of English participated in the Online UGC Consultative Workshop organized by Pro-chancellor, SGT University, Gurugram:

1. Alicia Watre
2. Lalvenhimi Tochhawng
3. Hrangalou Agu
4. Kanika Chakraborty
5. Tupsi Paul
6. Talisola Pongen

### **Students’ Profile**

**Enrolment Capacity: M.A./M.Sc./M.Tech./Any other 57**

**PhD – 2 (Newly enrolled) ; Variable**

**Enrolment of students from different States of India and Abroad**

**MA:**

	GEN		ST		SC		OBC		EWS		PWD		TOTAL	
STATE (Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam		1								1				2
Manipur				8		1								9
Meghalaya	1		3	32					1	1		1	5	34
Mizoram				3										3
Nagaland				3										3
Tripura			1										1	
Sub Total													6	51
International														
	TOTAL												6	51

**PhD: Newly enrolled:**

	GEN		ST		SC		OBC		TOTAL		
PhD (Newly enrolled)	M	F	M	F	M	F	M	F	M	F	
Assam						1				1	
Meghalaya				1						1	
	TOTAL									2	

**Degrees Awarded to students from different States of India and Abroad**

STATE (Name)	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh			1										1	
Assam		2	1							2			1	4
Manipur				5		1								6
Meghalaya		3	5	22									5	25
Mizoram			1	1									1	1
Nagaland				5										5
West Bengal		1												1
TOTAL													8	42

**Students Awarded PhD Degree**

Name of Student	Registration No.	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Ms. Gurumayum Deepika	2682 of 23.02.2016	“Writing as Resistance: A Study of Three Meitei Women Writers – Binodini, Nee Devi and Ningombam Sunita.”	Prof. Utpala G. Sewa

**Placement of Students:**

Name of the student (s)	Name of the programme	Post held	Place of Work

**Students selected for Higher Studies:**

Name of the student(s)	Name of the Programme	Institution/Organization	Country
Ms. Nikita Celine Dawn Synrem	PhD English	Department of English NEHU Shillong	India

## Research Fellowship

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship SC/ST	ICPR Fellowship	Meritorious Fellowship	Maulana Azad National Fellowship	Others
UGC-NET for Assistant Professor - 1		NFST - 2				JRF – 11 NEHU Non NET Fellowship - 19

### Organized

### Courses Conducted

The following new syllabus is effective from August 2017 till date:

### SEMESTER I

#### Postgraduate:

Semester I: Poetry (Chaucer to Pope), Fiction (19<sup>th</sup> Century to the Beginning of the 20<sup>th</sup> Century), Drama (Renaissance to Restoration), Classical Literary Theory and Criticism, Nineteenth Century American Literature

Semester II: Poetry (Blake to Browning), Fiction (Early Twentieth Century to Mid-Twentieth Century), Environment & Indian Writing in English, The Beginnings of English Literary Criticism, World Literature in Translation (Option A), South Asian Literature (Option B), Modern Indian Drama (Option C)

Semester III: Poetry (Yeats to Duffy), Shakespeare I, Literary Theory and Criticism: Romantic Age to Structuralism, Contemporary Indian Fiction in Translation

(Option A), Women and Travel (Option B), Drama in Performance (Option C),

Women's Writings (Option A), River Narratives from India (Option B), Literature from India's North East (Option C)

Semester IV: Fiction: Late Twentieth Century and Beyond, Contemporary American

Literature (Option A), Postcolonial Literatures (Option B), Shakespeare II,

Contemporary Theory, Modern Drama

**PhD Courses:** Research Methodology, Research Writing and Presentation, The Literature of

North-East India

**Seminars/Conferences/Workshops/Symposia/Extension/Programmes (National/International):**

The Department of English, NEHU, Shillong organized an Online Lecture by Prof. G.J.V. Prasad, Retired Professor, Centre for English Studies Jawaharlal Nehru University, New Delhi, on the 25<sup>th</sup> of November, 2021 via Google Meet. The topic of the Lecture is ***"India in the English Literature Classroom."*** The Co-ordinator was Dr. Somjyoti Mridha, Assistant Professor, Department of English, NEHU, Shillong.

#### Prof. Jyotirmoy Prodhani:

Organized an Online Lecture by Prof. G.J.V. Prasad on the 25 November 2021 on English in Indian Classrooms. Programme Coordinator, Dr. Somjyoti Mridha

#### Dr. Somjyoti Mridha:

Coordinated an Online Lecture by Prof. G.J.V. Prasad on the 25<sup>th</sup> of November, 2021 via Google Meet as coordinator.

### Attended

#### Prof. Jyotirmoy Prodhani:

(a) Chaired session, *Gender & Beyond* on 28 August, 2021 in *Rupkatha International Conference 2021*. Online

(b) Delivered Plenary Talk on "Theatre of the Northeast: Ratan Thiyam and Kanhailal" in the International Webinar organised by Dept of English, USTM, Guwahati on 5 July, 2021.

(c) Delivered Plenary Talk on Postcolonial Indian State: Theatre of Roots" in the National Webinar organised by Dept of English, Royal Global University, Guwahati on 22 May, 2021.

(d) Chaired a session in the International Webinar on *Processes of Memory: Toward a New Understanding* on 9 -10 June 2021. (10 June, 2021) Organised by the Dept. of English, Bodoland University, Kokrajhar, Assam.

(e) Delivered a special lecture on



“Postcolonial Indian Stage: The Theatre of Roots” in the Special Lecture Webinar organised by Dept. of English, Royal Global University on 20 May, 2021.

**Prof. Sukalpa Bhattacharjee:**

(a) Delivered a lecture on “Understanding Gender and Gender Roles: Looking Beyond Stereotypical Generalizations” on the 7<sup>th</sup> of April 2021 at the 4<sup>th</sup> Faculty Induction Programme (FIP) held from the 11<sup>th</sup> March 2021 to 10<sup>th</sup> April 2021 at the UGC-HRDC, NEHU Shillong.

(b) Delivered two lectures on “Conceptualizing Gender in Research Methodology” on the 28<sup>th</sup> of July 2021 at the Two-Weeks ICSSR-NERC sponsored National Workshop on *Research Methodology and Research Process in Social Sciences*, organized by Women’s College Shillong from 20<sup>th</sup> July, 2021 to 2<sup>nd</sup> August 2021.

(c) Delivered a lecture on Gender Rights on the 17<sup>th</sup> of September 2021 at the 6<sup>th</sup> Faculty Induction Programme (FIP) held from the 9<sup>th</sup> of September, 2021 to 8<sup>th</sup> October, 2021 at the UGC-HRDC, NEHU Shillong.

(d) Participated in a Panel discussion on “Gender Issues in Covid Stricken workspace” on the 29<sup>th</sup> of September 2021, organized by the Internal Complaints Committee (ICC) Assam University Silchar.

(e) Chaired a Session in the Webinar on “A Retrospection into Meghalaya’s 50 years’ journey of Statehood” held on the 22<sup>nd</sup> of October 2021, organized by Synod College, Shillong.

(f) Delivered a lecture on “Literature and Society” at the two-week *Capacity Development Programme for Young Faculty in Social Sciences*, on the 22<sup>nd</sup> of February 2022.

(g) delivered a lecture on “Theory of the Study of Literary Cultures- I” in the Refresher Course on Studies on North East Language, Literature & Culture, Gauhati University INEIS on the 5<sup>th</sup> of March 2022.

(h) delivered a lecture on “Theory of the Study of Literary Cultures- II” in the Refresher Course on Studies on North East Language, Literature & Culture, Gauhati University INEIS on the 7<sup>th</sup> of March 2022.

(i) Delivered a lecture on 22<sup>nd</sup> March 2022 on the topic “Understanding Gender and Gender Roles: Looking Beyond Stereotypical Generalizations” at the 8<sup>th</sup> Faculty Induction Programme (FIP) held at the UGC-HRDC at

NEHU Shillong from 2<sup>nd</sup> March to 31<sup>st</sup> March 2022.

**Prof. Kynpham Sing Nongkynrih:**

(a) *The Kerala Literature Festival*, organised online by DC Books, Kozhikode, on 25 May 2021, read my self-composed poems and took part in a panel discussion as a resource person.

(b) *A Creative Writing & Mentorship Program* organised online by Anita’s Attic on 28 August 2021 and delivered a lecture as a resource person.

(c) *The Ashoka Lit Fest* organised online by Ashoka University, Sonapat, on 14 November 2021 and took part in a panel discussion as a resource person.

(d) The *Khasi Authors’ Society’s Workshop* on ‘Writing as a Profession: Difficulties and Challenges,’ organised by Khasi Authors’ Society, Shillong, on 10 September 2021.

(e) *The Shillong Literary Festival*, organised by the Government of Meghalaya on 6 December 2021 and took part in a panel discussion as a resource person.

(f) *The Chandrabhaga Poetry Festival* organised online by *Chandrabhaga*, Bhubaneswar, on 9 January 2022, read my self-composed poems and took part in a panel discussion as a resource person.

(g) *The Pragati E Vichaar Literature Festival 2021* organised online by Frontlist, New Delhi, on 15 January 2022 and delivered a lecture as a resource person.

(h) *The Jaipur Literature Festival*, organised by Jaipur Virasat Foundation from 10 to 14 March 2022 and took part in several literary programmes as a resource person, including a panel discussion on my epic novel, *Funeral Nights*. D

**Mr. Ngangom Rabindra Singh:**

(a) “Northeast Poetry in English”, organized by English Literary Society, Indraprastha College for Women, University of Delhi. 08.10.2021

(b) Read self-composed poems at Chair Poetry Evenings 2021, Kolkata’s International Poetry Festival. 21.11.2021

**Dr. Suranjana Choudhury:**

(a) Delivered a talk as a resource person on “What Memes can do: Reading Kindness, Solace and Laughter during Lockdown” in a National Webinar organized by the department of English, Lingaraj College, Belgavi, Karnataka on the topic “*Literature as Healing: Social Space to Mindscape*” on 22<sup>nd</sup> June, 2021

(b) Delivered a talk as a resource person on “Literature for Netizens” in a National Webinar organised by Extension activity Cell in collaboration with IQAC, Janata College, Assam on 27<sup>th</sup> August, 2021

#### **Dr. Rimi Nath:**

(i) Presented a paper titled “The repercussions of greed in an increasingly unstable world: A reading of select works of Amitav Ghosh” in a webinar on *Eco-Environmental Consciousness in South Asian Anglophone Literature* organised by the Department of English, Tezpur University, Assam, India on 21-22 April, 2021.

#### **Publications**

##### ***Published in India***

Prof. Jyotirmoy Prodhani:

(i) Prodhani, J. (2021). Bengal Renaissance and Assamese modernism: Epistemic disquiet of the native self.” *Journal of Social Change and Development* Vol. XVIII No. 1 & 2 ©OKDISCDISSN:0975-4016. Pp 1-18.

(ii) Prodhani, J. & Barman, P. (2021). “Kantian categories of ethics and morality: A reading of Milan Kundera’s *The Unbearable Lightness of Being*” in *Transcript: Ane-journal of Literary and Cultural Studies*, Vol.1, No.1 Bodoland University, Kokrajhar, Assam. <https://doi.org/10.53034/Transcript.2021.v01.n01.003>

(iii) Prodhani, J. (2021). Tr. “The auction”. Original Assamese short story by Ashutosh Barman In *Muse India* June. E-ISSN: 0975 1815.

#### **Prof. Kynpham Sing Nongkynrih:**

1. Nongkynrih, Kynpham Sing (2021). ‘Longing for the Rain: Remembering the Cherrapunjee Summers’. *The Bangalore Review*, June-August 2021:n.p.

2. Nongkynrih, Kynpham Sing (2021). ‘Ka Ktien Tynrai Kum ka Sur ka Jingim’ (‘The Mother Tongue as the Voice of Life’). In *Ka Syngkhong Jingtip*, 2021, 40-45.

3. Nongkynrih, Kynpham Sing (2021). ‘The Miraculous Prayers of Liaw’ (Hindi translation). *Saraswati*, April-August 2021, 2 (3):132-134.

4. Nongkynrih, Kynpham Sing (2021). ‘The Professor and the Bucket’ (Hindi translation). *Pakhi*, February 2022: 86-90.

5. Nongkynrih, Kynpham Sing (2021). ‘The Separation’. *The Indian Quarterly*, July-December 2021, 8 (4): n.p.

6. Nongkynrih, Kynpham Sing (2021). ‘Nameri’. *The Bangalore Review*. February 2022: n.p.

#### **Mr. Ngangom Rabindra Singh:**

1. Ngangom, R. S., translator (2021). *The Smell of Man: Selected Poems by Thangjam Ibopishak*. Red River. New Delhi. ISBN 978-81-953056-0-5.

#### **Mr. Ngangom Rabindra Singh:**

1. Ngangom, R. S. (2021). Self-composed poem. In N. Das (Ed.). *Witness: The Red River Book of Poetry of Dissent*. Red River, New Delhi. ISBN 978- 81-948164-7-8. Pp.285-286

2. Ngangom, R. S.(2022). Self-composed poems. In G. Majumdar, S.Banerjee,

G. Lahiri,, (Eds.). *Home: Anthology*. A Brown Critique Book, Chennai. ISBN 978-93-84216-05-4. Pp.86-87.

3. Ngangom, R. S (2022) Self-composed poems in J. Thayil, (Ed) *The Penguin Book of Indian Poets*. Penguin Random House India Gurugram. ISBN 9780670096862. Pp.496-505

#### **Dr. Suranjana Choudhury:**

1. Choudhury, S. (2021). Introducing poems from north- eastern India. *Sanglap: Journal of Literary and Cultural Inquiry*, 7(2). Pp. 173–196.

#### **Dr. Rimi Nath:**

1. Nath, R. (2021). Migration and the struggle with choices in an increasingly unstable world: A reading of Mohsin Hamid’s *Exit West* and Amitav Ghosh’s *Gun Island*. *Dibrugarh University Journal of English Studies* (DUJES), Vol. 29: 22-30.

2. Nath, R. (2021). Locating identity in Jhumpa Lahiri’s *In Other Words*. *Sampriti*, VII (II): 433-439.

#### **Dr. Somjyoti Mridha:**

1. Mridha, S. (2021) Writing Kashmir, Writing the End of Empire: A Study of two Post-War British Novels. *DUJES*. Vol 29. June 2021.

2. Mridha, S. (2022). “Representing Kashmiri Pandits: Interrogating the Idea of a Marginal/ Minority Community in Recent Kashmiri Pandit Narratives”. In *Understanding Marginality: Cultural and Literary Perspectives*. Ed. Supriya Agarwal, Ved Prakash and Neha Arora (Eds). Rawat Publications. Chapter 23, pp 212-219.

#### ***Published Abroad:***

**Prof. Jyotirmoy Prodhani:**

1. Prodhani, J. (2021). "The school of Athens: Celebration of contradictions and the history of thought" in Gautam Sharma (Ed). *Exploring insights: Essays on literature for Professor Upendranath Sarma*. Purbayon Publication, Guwahati. ISBN: 978-93- 90919-69-7. Pp 20-43.
2. Prodhani, J. (2021). "Maharaj Naranarayan and the legacies of Kamrup Kamata". In Sanjib Goswami and Pranati Talukdar Mudiari (Eds). *Different strokes*:

*Understanding the North East of India*. Centre for Northeast Studies (CNESt) Guwahati:. ASIN: B096K422PB (np. Kindle Edition)

3. Prodhani, J. (2021). "Translating theatre: Anxiety of dramatic narratives as text and performance" in *Narrative Cultures and Textual Traditions of North-East India (Essays in Honour of Prof. K. C. Baral)* Eds. Arzuman Ara, Dhurjati Sarma, Bhaskar Jyoti Gogoi. Pencraft International. New Delhi: ISBN 978-93- 82178-30-9. Pp 128-135.

#### **Prof. Kynpham Sing Nongkynrih:**

1. Nongkynrih, Kynpham Sing, (2021). 'Not Khalish, But Khasi and English' *An Anthology of Short Prose Writings in English from the North-East*. Malsawmi Jacob and Jaydeep Sarangi (Eds.). Authors Press, New Delhi. pp. 142-145.
2. Nongkynrih, Kynpham Sing, (2021). Three Poems. *Poem a Day: 365 Contemporary Poems*. Gulzar (Ed.). HarperCollins, New Delhi. pp. 324-326.
3. Nongkynrih, Kynpham Sing, (2021). Nine Poems. *The Penguin Book of Indian Poets*. JeetThayil (Ed.). Penguin, New Delhi. pp. 524-529.
4. Nongkynrih, Kynpham Sing, (2021). 'The Shadow'. *Witness: The Red River Book of Poetry of Dissent*. Nabina Das (Ed.). Red River, New Delhi. pp. 345-346.
5. Nongkynrih, Kynpham Sing, (2021). 'Antidote'. *Musings on the Pandemic*. TanmoyKundu, Subhankar Dutta and DipraSarkhel (Eds.). Author's Press, New Delhi. pp. 43.

#### **Prof. Sukalpa Bhattacharjee:**

1. Bhattacharjee, Sukalpa (2021). "Critical pedagogy : Theorizing the literatures of Northeast India" in Nandana Dutta ed. *English Teachers' Accounts: Essays on the Teacher, the Text and the Indian Classroom*. London : Routledge. pp 60-76.

#### **Dr. Suranjana Choudhury:**

1. Choudhury, S, Sengupta, N., editors, (2022). *Understanding Women's Experiences of Displacement: Literature and Culture in South Asia*. Routledge, London, ISBN 978-0-367-478100.

#### **Mr. Ngangom Rabindra Singh:**

1. Ngangom, R.S. (2022). Self-composed poems. In A. Hasan, S. Chattarji, (Eds.). *Future Library: Contemporary Indian Writing*. Red Hen Press, Pasadena, CA. ISBN 9781636280318. Pp.40-43

#### **Dr. Rimi Nath:**

1. Nath, R. (2022). The "long shadow" of Bangladeshi liberation war: Religion and nationalism in Tahmima Anam's bengal trilogy. In *Religion in South Asian Anglophone Literature: Traversing Resistance, Margins and Extremism*. Sk. Sagir Ali, GoutamKarmakar and Nasima Islam (Eds.), Routledge: London & New York. Chapter 9, pp. 125-137.

#### **Dr. Somjyoti Mridha:**

1. Mridha, S. (2021). "The Poetics and the Politics of Kashmiriyat: A Study of Mirza Waheed's The Collaborator and The Book of Gold Leaves". In *Religion in South Asian Anglophone Literature: Traversing Resistance, Margins and Extremism*. SkSagiri Ali, Goutam Karmakar and Nasima Islam (Eds.). Routledge. Chapter 5, pp 75-91.

#### **Books.**

#### **Prof. Jyotirmoy Prodhani :**

1. Prodhani, J. & Acharya, P.(2021). Translators. *This land this people: Rajbanshi poems in translation*. Guwahati: MRB Publishers, 2021. ISBN 978-93-83403-25-7

Prof. Kynpham Sing Nongkynrih:

1. Nongkynrih, Kynpham Sing. *Funeral Nights*. Westland/Amazon, New Delhi. ISBN: 97 89389 648287

#### **Dr. Rimi Nath:**

1. Nath, R. (2021). *Kushiara and Other Poems*. Dhauli Books, Bhubaneswar, ISBN: 9789389382549.

#### **Popular Articles (Newspaper and Magazines)**

Prof. Jyotirmoy Prodhani:

1. Prodhani, J. (2021). "The Assam Story and

the importance of being Himanta” in *Northeast Opinion* 4 May. <https://northeastopinion.in/2021/05/04/the-assam-story-and-the-importance-of-being-himanta/>

2. Prodhani, J. (2021) “The mini function” (Grasshopper Chronicle) in *The Beautiful Mind*

3. Prodhani, J. (2021). “In the new school” (Grasshopper Chronicle) in *The Beautiful Mind* May 2021 <https://thebeautifulmind.org/?p=2246>

4. Prodhani, J. (2021). “All over Assam nobody moved” (Grasshopper Chronicle) in *The Beautiful Mind* May 2021. <https://thebeautifulmind.org/?p=2365>

5. Prodhani, J. (2021). “NCC vs Boys Scout” (Grasshopper Chronicle) in *The Beautiful Mind* August 2021. <https://thebeautifulmind.org/?p=2365>

6. Prodhani, J. (2021). “Reef knot: The knot for life” (Grasshopper Chronicle) in *The Beautiful Mind* August 2021. <https://thebeautifulmind.org/?p=2932>

7. Prodhani, J. (2021). “Khaikapaan Benareswala” (Grasshopper Chronicle) in *The Beautiful Mind* August 2021. <https://thebeautifulmind.org/?p=2932>

(a) E-Content developed (MOOCs/SWAYAM):

(b) Consultancy:

[beautifulmind.org/?p=2628](https://beautifulmind.org/?p=2628)

**Prof. Kynpham Sing Nongkynrih:**

1. Nongkynrih, Kynpham Sing, (2021). ‘Reasons for Drinking’ in *Meghalaya Monitor*, 27 June 2021.

2. Nongkynrih, Kynpham Sing, (2021). ‘A Dispatch by a True Son of the Wettest Place on Earth’ in *Mint Lounge*, 9 August 2021.

3. Nongkynrih, Kynpham Sing, (2021). ‘Hill-mouse Hunting’ in *Scroll.in*, 10 August 2021.

4. Nongkynrih, Kynpham Sing, (2021). ‘So What About the Khasi Women?’ in *Raiot*, 14 August 2021.

5. Nongkynrih, Kynpham Sing, (2021). ‘The Sacred Groves of Meghalaya’ in *The Wire*, 21 November 2021.

**Dr. Suranjana Choudhury:**

1. Book Review of Sayan A. Bhowmick’s poetry collection “I will come with a lighthouse” published in *Café Dissensus* (ISSN 2373177X) [cafedissensus everyday.com/2022/04/05/book-review-sayan-aich-bhowmiks-i-will-come-with-a-lighthouse/](https://cafedissensus everyday.com/2022/04/05/book-review-sayan-aich-bhowmiks-i-will-come-with-a-lighthouse/)

## Funds Received during the current Year

### (G) Bulk Grant to Department/Centre/Section etc. other than EMR grant

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU Annual Budget and Tentative Allocation for Academic Departments for the financial year 2021-22	1.60
	Fund allocation under Capital Assets (Small Equipments/Laboratories) for Academic Departments for the financial year 2020-2021	2.00
02	UGC (SAP, CAS, Seminar etc.)	
03	DST (FIST, PURSE, Seminar etc.)	
04	NEC (program name)	
05	Others	

## Academic Collaborations

(i). National

(ii). International

## Honours/Awards/Recognition/Membership/Fellowship

## Prof. Jyotirmoy Prodhani

Member, Editorial Advisory Board, *Rupkatha Journal on Interdisciplinary Studies in Humanities*

Peer Reviewer *Transcript: An e-journal of Literary and Cultural Studies*

Reviewer for Book proposal of Routledge, Taylor and Francis Group

Member, Editorial Review Committee, *Puli Bilingual Literary Journal*

Life Member, *Forum on Contemporary Theory*, Baroda

Life Member, Assam Sahitya Sabha

Member, Advisory Board, *Centre for Ethnic Studies and Research*

**Prof. Sukalpa Bhattacharjee:**

Peer Reviewer, Indian Journal for Gender Studies, SAGE.

Advisory Board Member, *Dibrugarh University Journal of English Studies*.

Member, Society for the History of Emotions (SHE) Australia.

Life Member, North East India History Association (NEIHA)

**Prof. Mala Renganathan:**

Member, Editorial Board, 47<sup>th</sup> Annual Report 2020-21 Committee, NEHU, Shillong.

Life Member, Indian Association for Commonwealth Literature and Language Studies (IACLALS), New Delhi.

Life Member, Comparative Association of India (CLAI), Kolkata.

Prof. Kynpham Sing Nongkynrih:

Awarded *The Bangalore Review June Jazz Award*, 2021, for the non-fiction piece, 'Longing for the Rain: Remembering the Cherrapunjee Summers.'

**Mr. Lang Kupar K. War:**

Awarded 2<sup>nd</sup> place by Artdemic India for Short Film "Leaving Home" (Producer).

**Dr. Rimi Nath:**

'Eminent Teacher Award' given by Lady Hawk Language Research Foundation, 2020 (Awarded in Dec, 2021)

Member of the board of academic advisors for *Genesis: A Multi-Disciplinary Peer-reviewed Annual Research Journal* Vol. V, Issue 1 (Feb., 2022), K C Das Commerce College, Chatribari, Guwahati-8.

**Other Activities**

**Prof. Jyotirmoy Prodhani**

(a) Conducted interview of Mamang Dai on 28 August 2021, Critical Dialogue in *Rupkatha International Conference* 2021. Online

(b) Delivered a special lecture on "Postcolonial Indian Stage: The Theatre of Roots" in the Special Lecture Webinar organised by Dept. of English, Royal Global University on 20 May, 2021.

Prof. Esther Syiem:

(a) September 22<sup>nd</sup> Valedictory Lecture delivered online, organised by the Dept of English, Jamia Millia Islamia, New Delhi "Tribes In Transition-III: Indigenous Cultures In The Digital Era".

(b) 5<sup>th</sup> Nov 2021 Online Keynote Address "Beyond Stereotypes: Exploring the Possibilities of Reading North East Literature" Assam Women's University Rowriah, Jorhat.

(c) 5<sup>th</sup> January 2022, Dept of English Vidyasagar University Delivered online Keynote Lecture in one day National Workshop on "Documenting Oral Literature of NE India"

(d) 6<sup>th</sup> June 2022 Delivered one online Lecture on "Literature from North East India" in Refresher Course on Languages, Literature and Linguistics conducted by Mizoram University-UGC HRDC.

**Prof. Moon Moon Mazumdar:**

(a) Resource person in National Webinar on "Representation of Pandemic Anxiety and Human Emotion in Literature" organised by Khairun Nessa Begum Women's College, Karimganj on 15<sup>th</sup> June, 2021.

(b) Resource Person at a National Webinar on "A Discourse on the Relevance of Literary Studies in India" organised by ICFAI University, Nagaland on 4<sup>th</sup> September, 2021.

(c) Invited lecture (Annual Lecture Series) at G. C. College, Silchar on 24<sup>th</sup> February, 2022 on "Tragic Structure of *Macbeth* and Adaptations from India's Northeast.

**Prof. Sukalpa Bhattacharjee:**

(a) Delivered a lecture on "Understanding Gender and Gender Roles: Looking Beyond Stereotypical Generalizations" on the 7<sup>th</sup> of April 2021 at the 4<sup>th</sup> Faculty Induction Programme (FIP) held from the 11<sup>th</sup> March 2021 to 10<sup>th</sup> April 2021 at the UGC-HRDC, NEHU Shillong.

(b) Delivered two lectures on “Conceptualizing Gender in Research Methodology” on the 28<sup>th</sup> of July 2021 at the Two-Weeks ICSSR-NERC sponsored National Workshop on *Research Methodology and Research Process in Social Sciences*, organized by Women’s College Shillong from 20<sup>th</sup> July, 2021 to 2<sup>nd</sup> August 2021.

(c) Delivered a lecture on Gender Rights on the 17<sup>th</sup> of September 2021 at the 6<sup>th</sup> Faculty Induction Programme (FIP) held from the 9<sup>th</sup> of September, 2021 to 8<sup>th</sup> October, 2021 at the UGC-HRDC, NEHU Shillong.

(d) Participated in a Panel discussion on “Gender Issues in Covid Stricken workspace” on the 29<sup>th</sup> of September 2021, organized by the Internal Complaints Committee (ICC) Assam University Silchar.

(e) Chaired a Session in the Webinar on “A Retrospection into Meghalaya's 50 years journey of Statehood” held on the 22<sup>nd</sup> of October 2021, organized by Synod College, Shillong.

(f) Delivered a lecture on “Literature and Society” at the two-week *Capacity Development Programme for Young Faculty in Social Sciences*, on the 22<sup>nd</sup> of February 2022.

(g) Delivered a lecture on “Theory of the Study of Literary Cultures- I” in the Refresher Course on Studies on North East Language, Literature & Culture, Gauhati University INEIS on the 5<sup>th</sup> of March 2022.

(h) Delivered a lecture on “Theory of the Study of Literary Cultures- II” in the Refresher Course on Studies on North East Language, Literature & Culture, Gauhati University INEIS on the 7<sup>th</sup> of March 2022.

(i) Delivered a lecture on 22<sup>nd</sup> March 2022 on the topic “Understanding Gender and Gender Roles: Looking Beyond Stereotypical Generalizations” at the 8<sup>th</sup> Faculty Induction Programme (FIP) held at the UGC-HRDC at NEHU Shillong from 2<sup>nd</sup> March to 31<sup>st</sup> March 2022.

#### **Prof. Mala Renganathan:**

(a) Resource Person, Online Refresher Course in English (from December 1<sup>st</sup> to 14<sup>th</sup>, 2021) on

“Indian Writing in English and in Translation” organized by Department of English, Pondicherry University, Puducherry and delivered a lecture on “Explorations into the Vast Arena of Indian Drama” on 8<sup>th</sup> December, 2021 at 10-11.30 am.

(b) Guest Lecture, as Chief Guest on “Literature for the Millennium Youth” organized by the Department of English, Mannar Thirumalai Naicker College (Autonomous), Madurai, on 23<sup>rd</sup> October 2021.

(c) Lecture, as Resource Person, on “The Times’ Plague: Reflection of Plague in Shakespeare’s Dramas” in a National Webinar organized by the Department of English, V.O. Chidambaram College, Thoothukudi, Tamil Nadu on 29<sup>th</sup> October, 2021 at 5 pm. (Ref: <https://www.youtube.com/watch?v=MG9kWWFbez&t=36s>)

#### **Prof. Kynpham Sing Nongkynrih:**

(a) Delivered some lectures during a Refresher Course conducted by the Department of Khasi, NEHU, in November 2021.

#### **Mr. Lang Kupar K. War:**

“Leaving Home”, short film I produced, was selected to be part of Wild Voeing Weekend Online Short Film Festival.

Dr. Suranjana Choudhury:

(a) Delivered a virtual talk for an add-on course on “Memory Studies” organized by the Department of English, Sophia College, Mumbai on 14<sup>th</sup> December 2021

(b) Delivered a virtual talk on the topic “Mary Wollstonecraft’s A Vindication of the Rights of Woman” on 23<sup>rd</sup> January, 2022 at Midnapore College (autonomous) affiliated to Vidyasagar University, West Bengal

(c) Reviewer of E S Review. Spanish Journal of English Studies (**E-ISSN 2531-1654; P-ISSN 2531-1646**)

#### **Dr. Rimi Nath:**

(a) Delivered a talk on “Emerging Areas of Research in Literature/ Humanities” as a resource person in the dissertation writing workshop jointly organised by the Departments of English of St Berchmans College, Changanassery, Assumption College, Changanassery, Bishop Kurialacherry College for Women, Amalagiri, Kottayam and St Aloysius College, Edathua from 14-19 June, 2021.

(b)Adjudicated an essay writing competition for degree students (Women's College, Shillong), August, 2021.

(c)Adjudicated a poetry reading competition (Spoken Word competition) organised by Sikkim University Literary Society (SULS), 27 December, 2021.

(d)A haiku published in *Haiku Canada Review*, October, 2021.

#### Dr. Somjyoti Mridha:

(a)Delivered an Online Lecture organized by the Department of English, Midnapore College, West Bengal, on "T. S. Eliots' The Wasteland" on the 18<sup>th</sup> of April, 2021.

(b)Delivered an Online Lecture organized by the Department of English, Shaheed Bhagat Singh College, University of Delhi, on "Narrating India through Translation" on the 21<sup>st</sup> of November, 2021.

#### SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH

Details of Faculties	Name		1	Prof. Jyotirmoy Prodhani	Prof. Esther Syiem	Prof. Moon Moon Mazumdar
	Date of Joining		2	1 August 2006 (NEHU Tura campus) 1 August 2012 (NEHU, Shillong)	May 1987	15-02-2022
	Field of specialisation		3	Theatre and Performance Studies, Translation, Northeast Studies, Indigenous Studies	American Literature, Modern Fiction, Oral Literature	English Literature
(A) Teaching Experience (in Years)	UG		4	1992-2006	5	14 years
	PG, including PhD		5	2006-2022	35 24	25 years
(B) Research activities	Basic Research		6	Creativity and conflict in the plays of Sam Shepard	Oralities in Khasi Literature	Fiction of Colonial India
	Applied Research		7	0	No	Yes
	Action Research		8	0	No	Yes
	Project Submitted		9	0	No	No
	Ongoing Project		10	0	Translation Work	No
	Research Paper in UGC care list journals	Group I	11	0	No	
		Group II	12	0	No	
	Books /Books chapters Published	Books	13	1	No	
		Book Chapters	14	3	No	
	Popular Articles (News Paper/ Magazines)		15	7	No	
	Seminar / Conference/ Symposia organized	National	16	1	No	
		International	17		No	
	Seminar / Conference/ Symposia attended	National	18	4	No	
		International	19	2	No	
	Conference Proceedings		20	0	No	
	Consultancy		21	0	No	
	Applied		22	0	No	

(C) Patent	Published		23	0	No	
	Granted		24	0	No	
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	0	No	
(E) Any Other	Teaching /Extension /outreach activities		26	0	No	Yes
	Responsibilities other than teaching		27	0	No	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	0	No	
	Collaborations	National	29	0	No	
		International	30	0	No	

## 2022

Details of Faculties	Name		1	Prof. Sukalpa Bhattacharjee	Prof. Mala Renganathan	Prof. Kynpham Sing Nongkynrih
	Date of Joining		2	12-06-2003	11 June 2003	10 October 2001
	Field of specialisation		3	Critical Theory, Gender Studies, Postcolonial and Decolonial Literatures.	Drama/Theatre Studies	a. World Poetry in English Translation b. English Poetry c. Indian Poetry in English Translation d. Northeast Poetry in English Translation e. Classical Literary Criticism f. English Literary Criticism up to the Romantics g. Haiku/Senryu/ Haibun Poetry
(A) Teaching Experience (in Years)	UG		4	8 years	4 years	11 years
	PG, including PhD		5	13 years	28	16 years
(B) Research activities	Basic Research		6	Gender Studies &Critical Theory	M.A., M.Phil., PhD	16 years
	Applied Research		7	Philosophy of Literature	No	No
	Action Research		8	Human Rights and Literature	No	No
	Project Submitted		9	Maternal Health of Women in Post-Covid Meghalaya	No	One book project: Late-Blooming Cherries: Haiku Poetry from India
	Ongoing Project		10	None	No	Six book projects.
	Research Paper in UGC care list journals	Group I	11	01	No	Group I: 6 (non- care list)
		Group II	12		No	Group II
	Books /Books chapters Published	Books	13	01	No	Books: 1
		Book	14		No	Book Chapters: 5



		Chapters				
	Popular Articles (News Paper/ Magazines)		15	No	No	5
	Seminar / Conference/ Symposia organized	National	16	No	No	National
		International	17		No	International
	Seminar / Conference/ Symposia attended	National	18	07	2	National: 9
		International	19		No	International
(C) Patent	Conference Proceedings		20	01	No	
	Consultancy		21	No	No	
	Applied		22	No	No	
(D) E-Content	Published		23	No	No	
	Granted		24	No	No	
	MOOC/SWAYA M/ E-content developed		25	No	No	
(E) Any Other	Teaching /Extension /outreach activities		26	Yes	No	MA/PhD
	Responsibilities other than teaching		27	Yes	Yes	Research and Guidance
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	Yes	Yes	The Bangalore Review June Jazz Award, 2021
	Collaborations	National	29	No	No	National
		International	30	No		International

Details of Faculties	Name		1	Mr. Ngangom Rabindra Singh	Mr. Lang Kupar K. War	Dr. Suranjana Choudhury
	Date of Joining		2	02.11.1988	12.07.2006	06/04/2009
	Field of specialisation		3	Modern Poetry, World Literature in Translation, Indian Writing in English	Modern Fiction, Postcolonial Literature and Visual Studies	Partition Writings, Women's Studies, South Asian Literatures, Cultural Studies
(A) Teaching Experience (in Years)	UG		4	2	3	
	PG, including PhD		5	32	16	13 years
	Basic Research		6			
	Applied Research		7			
	Action Research		8			
	Project Submitted		9			
	Ongoing Project		10			
	Research Paper in	Group I	11			

(B) Research activities	UGC care list journals	Group II	12			Choudhury,S. (2021). Introducing poems from north-eastern India. Sanglap : Journal of Literary and Cultural Inquiry, 7(2), 173–196.
	Books /Books chapters Published	Books	13	1		Choudhury, S, Sengupta, N., editors, (2022). Understanding Women's Experiences of Displacement: Literature and Culture in South Asia. Routledge, London, ISBN 978-0-367- 478100
		Book Chapters	14	4		Choudhury, S. (2022) “Unsettling remnants of displacement experience: Partition writing from Barak Valley” Revisiting Partition: Contestation, Narratives and Memories. Anindita Ghoshal (Ed).Primus, New Delhi
	Popular Articles (News Paper/ Magazines)		15			Published an essay “to Speak or not to speak Sylheti ” in eastindiastory, a webzine on 19th June, 2021  Published an essay “Two Worlds” in eastindiastory, a webzine on 4th December 2021

	Seminar / Conference/ Symposia organized	National	16			
		International	17			
	Seminar / Conference/ Symposia attended	National	18	2		Delivered a talk as a resource person on “What Memes can do: Reading Kindness, Solace and Laughter during Lockdown” in a National Webinar organized by the department of English, Lingaraj College, Belgavi, Karnataka on the topic “Literature as Healing: Social Space to Mindscape” on 22nd June, 2021
						Delivered a talk as a resource person on “Literature for Netizens” in a National Webinar organised by Extension activity Cell in collaboration with IQAC , Janata College, Assam on 27th August, 2021
		International	19			
	Conference Proceedings		20			
	Consultancy		21			
(C) Patent	Applied		22			
	Published		23			
	Granted		24			
(D) E-Content	MOOC/SWAYAM/ E-content developed		25			
(E) Any Other	Teaching /Extension /outreach activities		26			
	Responsibilities other than teaching		27	Editor of New Frontiers, a journal of the Northeast Writers Forum, Guwahati	College inspection, Admission committee	
	Awards/ Honours/ Recognition/		28		Awarded 2nd place by	

	Membership/ Fellowship				Artdemic India for Short Film “Leaving Home”	
	Collaborations	National	29			
		International	30			

Details of Faculties	Name		1	Dr. Rimi Nath	Dr. Somjyoti Mridha
	Date of Joining		2	18/04/2013	29/04/2013
	Field of specialisation		3	South Asian Literature, Indian Writing in English, Partition Literature, Migration and Diaspora Studies, Postcolonial Studies, Poetry (including haiku)	Indian English Literature
(A) Teaching Experience (in Years)	UG		4		0
	PG, including PhD		5	9	9
(B) Research activities	Basic Research		6		Mphil, PhD
	Applied Research		7		0
	Action Research		8		0
	Project Submitted		9		0
	Ongoing Project		10		0
	Research Paper in UGC care list journals	Group I	11	2	0
		Group II	12		1
	Books /Books chapters Published	Books	13	1	
		Book Chapters	14	1	2
	Popular Articles (News Paper/ Magazines)		15		0
	Seminar / Conference/ Symposia organized	National	16		0
		International	17		0
	Seminar / Conference/ Symposia attended	National	18	1	0
		International	19		0
	Conference Proceedings		20		0
	Consultancy		21		0
(C) Patent	Applied		22		0
	Published		23		0
	Granted		24		0
(D) E-Content	MOOC/SWAYAM/ E-content developed		25		0
(E) Any Other	Teaching /Extension /outreach activities		26	4	0
	Responsibilities other than teaching		27		College Inspection, Admission Committee
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	2	0
	Collaborations	National	29		0
		International	30		0

## DEPARTMENT OF ENGLISH (TURA CAMPUS)

**Head** : Dwijen Sharma  
**Telephone** : 8414075571  
**E-mail** : dwijensharma@gmail.com

### Faculty Profile:

Designation	Name and Qualification	Specialization
<b>Professor</b>	Dr. Sujata Gurudev, M.Phil. & Ph.D. (NEHU)	American Literature, Modern British Literature
	Dwijen Sharma, M.Phil.(JMIU), Ph.D. (Dibrugarh)	Indian English Literature; Literary & Cultural Theory
<b>Associate Professor</b>	Dr. Ramona M Sangma, M.A. & Ph.D. (NEHU)	Postcolonial literature, Cultural Studies
<b>Assistant Professor</b>	Dr. Namrata Pathak, M.Phil. & Ph.D. (EFLU)	Performance Studies, Indian Writing in English, Critical Theory
	Dr. L K Gracy, M.A. & Ph.D. (NEHU)	British Fiction, British Poetry

### Thrust Areas of Research:

Ecology and Literature, Cultural Studies and Ethnic Literature, Translation Studies, Dalit and Marginal Literature, Indian English Writings, Postcolonial Literature, Women and Gender Studies, Theatre Studies, Western Literary Theory and Indian Poetics.

### Brief Statement of Academic Activities and achievements:

The Department conducts M.A. and Ph.D. programmes in English Literature, with emphasis on the thrust areas. The Department has been publishing a peer reviewed **Research Journal Protocol: Journal of Translation, Creative and Critical Writings** since 2007. The Journal caters to researchers and authors from the region and the country with emphasis on translation from regional languages to English, creative writings and critical studies. Student Seminar has been introduced in the Department to orient the Master's level students towards serious research. Regular Seminars on the progress of PhD scholars are held in the Department. Scholars and professionals from areas of mass media, cultural studies, anthropology, and film studies are invited to the Department to present their talks and interact with the students. The Department also conducts extension activities in feeder colleges. The Department also has a students' Wall Magazine, a Film Club and a Drama Society. The Drama Society is accredited with the task of organizing every year a 12-day workshop on Theatre in Education in collaboration with the National School of Drama, New Delhi.

### Students' Profile

**Enrolment Capacity: M.A. – 36; Ph.D. – Variable**

### Enrolment of students from different States of India and Abroad

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya			7	25									7	25
Assam			1										1	
Total			33										33	

### Degrees Awarded

**Degree: M.A.**

**Degrees Awarded to students from different States of India and Abroad**

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya			6	23		2							6	25
Assam									1					
Total			29		2				1				32	

#### Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Ms. Dikari Bonnie Lamare	“The Study of ‘The Romantic Outsider’ in the Select Works of Herman Hesse”	Dr. L.K Gracy
Ms. Saba Anish	“Semiotics in Advertisement: Gender, Consumer Culture and Representation”.	Prof. Dwijen Sharma
Ms. Annie Jane	“The Politics of Representation in Prophetic Literature: A Study of the Writings of Friedrich Nietzsche, Paulo Coelho and Khalil Gibran”.	Dr. Namrata Pathak
Ms. Minakshi Talukdar	“ The Politics of Authority in Arthur Miller, George Orwell and Jean–Paul Sartre: A Select Study.”	Prof. Sujata Gurudev
Mr. Abhilash V.J	“Transition of Society in Kerala as Reflected in Select Malayalam Literature in Translation.”	Prof. Sujata Gurudev

#### Placement of Students

Name of the Student(s)	Name of the Programme	Post Held	Place of Work
Thomas M. Marak	UG	Asstt. Prof.	Don Bosco College Tura,
Evangeline Marwein	HS	Lecturer	Phangdiloin Secondary School, South West Khasi Hills, Meghalaya
P Wandashisha Dkhar	HS	Lecturer	Divine Saviour Higher Secondary School, Laitumkhrah, Shillong
Amabel Rosy Sanglyne	HS	Lecturer	St. Joseph Higher Secondary School, Nongkasen, Eastern West Khasi Hills
Ibaaihun Wahlang	HS	Lecturer	Presidency Senior Secondary School, Silchar, Assam
Naphibapynkmen Nongkhlaw	HS	Lecturer	Nehru Memorial Higher Secondary School, Umsning Ri-Bhoi District Meghalaya
Damiris Lyngdoh	HS	Lecturer	Jehovah Jireh Higher Secondary School, West Jaintia Hills Meghalaya
Ribiangsha Khongjoh	HS	Lecturer	Charity Educare Secondary School, Byrnihat, Ri-Bhoi District Meghalaya
Aimidune Lamin	UG	Lecturer	Meribon K. H. Memorial College Sohiong, East Khasi Hills, Meghalaya
Inda Mary Lamare	HS	Lecturer	St. John Vianney English School, Nongbah West Jaintia Hills Meghalaya
Noor Hamid	HS	Lecturer	Ajmal Senior Secondary School, Atsingimari, South Salmara, Mankachar, Assam
Marylyne Nongrum	HS	Lecturer	St. James School, Mairang, Mairang District Meghalaya
Uzziel Momin	UG	Asstt. Prof.	Tura Christian College (TCC) Tura, Meghalaya

#### Students selected for Higher Studies:

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
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Noor Hamid	B.Ed	Saha Alimuddin College of Education, West Bengal	India
Evangeline Marwein	B.Ed	Chakra Teacher's Training College, West Bengal	India
Aimidune Lamin	B.Ed	Saha Alimuddin College of Education, West Bengal	India
Jessica G. Momin	B.Ed	College of Teacher Education Rongkhon, Tura West Garo Hills Meghalaya	India
Thomas M. Marak	B.Ed	College of Teacher Education Rongkhon, Tura West Garo Hills Meghalaya	India

### Research Fellowship

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others
2	1	0	0	0	0

### Courses Conducted

#### Postgraduate

Semester I: Poetry (Chaucer to Pope), Fiction (19<sup>th</sup> Century to Beginning of 20<sup>th</sup> Century), Drama (Renaissance to Restoration), Classical Literary Theory and Criticism, 19<sup>th</sup> Century American Literature.

Semester II: Poetry (Blake to Browning), Fiction (Early 20<sup>th</sup> Century to Mid 20<sup>th</sup> Century), Environmental & Indian Writing in English, The Beginnings of English Literary Criticism, Open Course: World Literature in Translation (Option A), South Asian Literature (Option B), Modern Indian Drama (Option C)

Semester III: Poetry (Yeats to Duffy), Shakespeare I, Literary Theory and Criticism (Romantic Age to Structuralism), Open Course: Contemporary Indian Fiction in Translation (Option A), Women and Travel (Option B), Drama in Performance (Option C)

Semester-IV: Fiction (late 20<sup>th</sup> Century and Beyond), Open Course: Contemporary American Literature (Option A), Postcolonial Literatures (Option B), Shakespeare II, Contemporary Theory, Modern Drama

**PhD Courses:** Research Methodology, Research Writing and Presentation, Theory and Text (Option D), Research & Publication Ethics

**Seminars/Conferences/Workshops/Symposia/Extension/Programmes (National/International):**

**Organized**

Dr. Namrata Pathak as Convener organized an Azadi ka Amrit Mahotsav Series of talk titled, *Cultural Diversity and the Literary Traditions of India* delivered by Sukrita Paul Kumar and Chandana Dutta under the aegis of NEHU and CTEF on 26<sup>th</sup> February, 2022.

#### Attended

#### Prof. Sujata Gurudev:

Invited as a Resource person for two sessions of the two weeks ICSSR sponsored 'Capacity Building Program for Young Social Science Faculty' organized by Department of Management, NEHU, Tura, on 7<sup>th</sup>-18<sup>th</sup> February, 2022.

Chaired the Keynote session of an international webinar entitled "Interrogating Gender: Challenges and Possibilities of Plural Feminist Standpoints" organized by Center for Women's Studies, Bodoland University in collaboration with Department of English, Bodoland University on 8<sup>th</sup> and 9<sup>th</sup> of March 2022.

Participated as a plenary Speaker in the NEP,2020—Environmental Issues-Climate Change-Role of Technology-SDG Goals-Teachers and Youth Empowerment organized by ICSI on 12<sup>th</sup> March, 2022.

#### Dwijen Sharma:

Delivered One Virtual Lecture on "Indian Writing in English and the Canon" in Mahapurusha Srimanta Sankardeva Viswavidyalaya, Assam on 5<sup>th</sup> July, 2021

Delivered a talk entitled “Modernity and Indian Literature” in the National Webinar on Modernity to Post Modernity: Trends of Literature (Theory & Practice) organised by Girls’ College, Kokrajhar, Assam on 17<sup>th</sup> July, 2021

Delivered a Plenary talk on “Ageing and Humanities: An Agenda” in an International Webinar on Rethinking Ageing, Disease and Death in 21<sup>st</sup> Century at Bodoland University, Kokrajhar, Assam on 13<sup>th</sup> and 14<sup>th</sup> September 2021

Delivered One Invited talk on ‘Women, Ecology and Creative Writing in Northeast India’ at the Webinar organised by Zubaan and Heinrich Böll Stiftung on 21<sup>st</sup> October, 2021

Delivered One Lecture on ‘Project Proposal, Project Report and Action-oriented Research in Humanities’ in the 34<sup>th</sup> Refresher Course on Assamese (Literature and Language) organised by the Academic Staff College, Gauhati University on 15<sup>th</sup> December, 2021

Chaired a Plenary session in the International Seminar On Interrogating Gender: Challenges and Possibilities of Plural Feminist Standpoints at Bodoland University, Kokrajhar, Assam on 8th - 9th of March, 2022

Dr. Ramona M Sangma:

Delivered two lectures on ‘Land and Matriliney among Garos’ and ‘Material Culture: Garments and Tools’ at UGC-HRDC Refresher Course in Tribal Studies, NEHU on 6<sup>th</sup> November, 2021.

Invited as a Resource Person on ‘Writing Skills’ organised by College of Community Science, Central Agricultural University, Tura on 25<sup>th</sup> Sept. 2021 under NAHEP-IDP project.

Invited as a Panellist to speak on ‘Language and Literature: History, Inclusions and Revival’ at Shillong Cherry Blossom Literary Festival 2021 on 25<sup>th</sup> Nov. 2021.

Dr. Namrata Pathak:

Participated in an International conference on *Critiquing the Footprints of Anthropocene: Where Do We Go from Here?* organized by NEHU in collaboration with CTEF from 5<sup>th</sup> to 6<sup>th</sup> March, 2021.

Participated in a National seminar on *Teachers’ Role in NEP Implementation- Awareness, Orientation, Challenges and Responses* organized by NITI Ayog, BSM in association with CTEF, Assam on 3<sup>rd</sup> April, 2021.

Invited as a Resource Person for an invited lecture on “The emergence of the ‘new artist’ in Arun Sarma’s trilogy: *Sri Nibaran Bhattacharya, Agnigarh and Aditir Atmokotha*” in Chaiduar College organized by IQAC, Chaiduar College, Gohpur and Dept. of English, Chaiduar College, on 18<sup>th</sup> August, 2021.

Invited as a Resource Person for a panel discussion on “Creative Writing and Academia” in Litfiesta, an annual literary festival organized by Amity Institute of English Studies and Research, Kolkata on 26<sup>th</sup> November, 2021.

Presented a paper titled, “The semiotics of ‘eating’ in Bhaskar Hazarika’s Aamis” in a national seminar on *Media and Society: Issues and Challenges in 21<sup>st</sup> Century* organized by ICSSR and Sonapur College on 30<sup>th</sup> November, 2021.

Invited as a Resource Person in the National Seminar on *Contextualising and Contesting Indian Culture: Folklore and Ecological Perspectives* organized by Dept. of English, J.B College (Autonomous), Jorhat on 26<sup>th</sup> February, 2022.

## **Publications**

### ***Published in India:***

Sharma, Dwijen & Saba Anish (2021) “The Image of Mahatma Gandhi in Advertisement: Subverting its Conventional Semiotics” *DUJES*, Vol. 29:326-42; ISSN 0975- 5659

Sharma, Dwijen, Silba R Marak (2022). “Situating Lesbian Desire: A Comparison of Janice Pariat and Monique Wittig’s Fiction”, *Dogo Rangsang Research Journal*, Vol. IX, Issue XV, PP. 521-530; ISSN 2347- 7180

Sharma, Dwijen (2022) “Indian Regional Theatres: An Overview”, *Anvesan*, Vol. XIV (2021-22); PP. 176-191; ISSN 2250- 2475

Pathak, N. (2022). Female ‘alterity’ and the non-human: the transformative significance of ‘laughter’ and ‘leisure’ in Nitoo Das’s “Jokhini”. Pages:79-83. *Drishti: The Sight*, 10 (2): 79-83.

### **(ii) Book Chapters.**

Gurudev. S. (2021). “Consciousness” Education for Global Citizenship. In *Education 2021*. Dr. S. Babu et al (Eds.). ABH Publishing House, New Delhi.

Sharma, Dwijen. (2021). “Transcending Identity, Celebrating Humanity: A Reading of Three Contemporary Assamese Women’s Novels.” In *Narrative Cultures of North East India:*



*Traditions, Texts and Representations*, Arzuman Ara, Dhurjjati Sarma, Bhaskar Jyoti Gogoi & Surajit Sen, (Eds.). Pencraft International, New Delhi. Pp. 186-196

Pathak, N. (2021). “Nothing to be Done”: The Play of Language in Samuel Beckett’s *Waiting for Godot*. In *Exploring Insights: Essays on Literature for Professor Upendranath Sarma*. Gautum Sarma (Ed.). Purbayon Publication, Guwahati, Chapter 11, pp. 132-142.

Pathak, N. (2021). *Who is a Married Woman?* Re-thinking the ‘Straight’ in Manju Kapur’s Novels. In *Manju Kapur, Critical Perspectives*. Nizara Hazarika and Johnson Matthew (Eds.). Pencraft International, Delhi, Chapter 4, pp.65-77.

Gracy, L.K. (2021). Minima Kiri Rokkime: The Nurturer and the Power of Icon as portrayed in A’chik Literature. In *Recent Trends in the Tribal Literature of the North-East India*, Caroline R Marak (Ed.). Sahitya Akademi, New Delhi

Gracy, L.K. (2021). It Touched My Heart; I Need Freedom; Pangs of Separation; Tears of Joy and Sadness; After Waiting. In *Garó: A Bird’s-Eye View*, Caroline R Marak (Ed.). Sahitya Akademi, New Delhi

#### **Published Abroad:**

#### **(vi) Research Papers.**

Sharma, Dwijen, Silba R Marak & Hemen Sarma (2021) “Ethnic preparation of *Chubitchi*, an alcoholic beverage of the Garo

tribe of Meghalaya: a sociocultural analysis” *Journal of Ethnic Foods*, Vol. 8, No. 29  
<https://doi.org/10.1186/s42779-021-00102-7>

#### **(vii) Book Chapters.**

Pathak, N. (2021). Pedagogy, Performance and Transgression: Samuel Beckett’s *Waiting for Godot*. In *English Teachers’ Accounts, Essays on the Teacher, the Text and the Indian Classroom*. Nandana Dutta (Ed.). Routledge, UK, Chapter 8, pp.134-152.

#### **(c). Popular Articles (News Paper and Magazines)**

#### **Dr. Namrata Pathak:**

A Book Review of Pradip Acharya and Jyotirmoy Prodhani’s *This Land, This People* in Muse India, Issue 97 (May-June) (ISSN 0975-1815), [https://museindia.com/Home/ViewContentData?arttype=book%20review\(s\)&issid=97&menuid=952](https://museindia.com/Home/ViewContentData?arttype=book%20review(s)&issid=97&menuid=952), 2021.

A poem named “On Reading Robin Ngangom” is included in *Shape of a Poem. The Red River Anthology of Erotic Poems*, edited by Srividya Shivkumar and Paresh Tiwari. Delhi: Red River, 2021.

A poem named “To Aahab, with Love” is included in *Witness, The Red River Book of Poetry of Dissent*, edited by Nabina Das. Delhi: Red River, 2021.

Translated poems of Nilim Kumar and Nibedita Phukan, prominent Assamese poets, appeared in *Sanglap*, Journal of Literary and Cultural Enquiry, <https://sanglap-<journal.in/index.php/sanglap/article/view/204>> July, 2021.

#### **Funds Received during the current Year**

#### **(H) Bulk Grant to Department/Centre/Section etc. other than EMR grant**

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	4

#### **(I) EMR Research Projects to individual faculty members**

Title of Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of Investigator (PI/Co-PI)	Multi/Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Listing and Documentation of Tangible & Intangible Heritage (1st Phase)	new	Dr Ramona M Sangma (PI)/Dr L K Gracy (Co-PI)	Single 2021-2022	Meghalayan Age Ltd, Govt. of Meghalaya	Via INTACH, Meghalaya Chapter 5 lac

Urbanscapes of Meghalaya: This is Tura (Book Project)	Ongoing	Dr. Ramona M Sangma	Single 2021-2022	Tourism Dept. Govt. of Meghalaya	Via INTACH, Meghalaya Chapter 1.5 lac
Curation of Iconic Exhibition: Photos of Interest, Celebrating 50 years of Statehood	Ongoing	Dr. Ramona M Sangma	Single 2021-2022	Tourism Dept. Govt. Of Meghalaya	Via INTACH, Meghalaya Chapter 2.5 lac

### Honours/Awards/Recognition/Membership/Fellowship

#### Dwijen Sharma

Member, (i) BPGS in English, Nagaland University (ii) BOS in English, Bodoland University, Kokrajhar (iii) Research Council, Bodoland University, Kokrajhar (iv) BOS in English, Ranchi University, Jharkhand

Member, Editorial Board, (i) *Reflections*, a peer reviewed journal (ii) *The Critique*, a peer reviewed journal (iii) *Creative Saplings*, a peer reviewed journal

Member, Advisory Board, *Drishhti- the sight*, a UGC care list journal

Dr. Ramona M Sangma is Co-Convenor, Indian National Trust of Art and Cultural Heritage, Meghalaya Chapter.

#### Dr. Namrata Pathak:

Secretary of CTEF, Meghalaya Chapter

Editorial Board of New Frontiers, a journal of North East Writers Forum

Member of (i) MELUS MELOW (ii) International Federation of Theatre Research (iii) SALA (iv) FCT (v) NEWF

### Other Activities

#### Dr. Ramona M Sangma:

Reviewer of Fazl Ali College Journal, Nagaland

Resource Person at National Institute of Design, Ahmedabad, for SLA on 'Introduction to Narratives' from 4<sup>th</sup>-9<sup>th</sup> Oct.2021

#### Dr, Namrata Pathak:

Reviewer of (i) Drishti: The Sight (ii) DUJES (iii) The Transcript

Moderated the 1<sup>st</sup> Sibesh Chandra Prodhani Memorial Lecture on "Theatre of Resistance: Assamese Theatre and Traditional Forms", 2021 organized by Sibesh Chandra Prodhani Centre for Theatre and Performing Arts on 8<sup>th</sup> August, 2021.

Moderated a session on "Women. Ecology and Performing Arts in Northeast India" as a part of Cultures of Peace organized by Zubaan on 6<sup>th</sup> October, 2021.

### SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	Name		1	Dr. S Gurudev	D. Sharma	Dr. R M Sangma
	Date of Joining		2	6-6- 1996	27.6.2012	20.04.2009
	Field of specialisation		3	British Fiction and American Literature	Indian English Lit., Literary & Cultural Theory	Post Colonial Lit; Cultural Studies
(A) Teaching Experience (in Years)	UG		4	8	12	10
	PG, including PhD		5	26	12	13
	Basic Research		6			Cultural Studies
	Applied Research		7			
	Action Research		8			

(B) Research activities	Project Submitted		9			
	Ongoing Project		10			3
	Research Paper in UGC care list journals	Group I	11		1	
		Group II	12		3	
	Books /Books chapters Published	Books	13			
		Book Chapters	14	1	2	
	Popular Articles (News Paper/ Magazines)		15			
	Seminar / Conference/ Symposia organized	National	16	1		
		International	17	2		
	Seminar / Conference/ Symposia attended	National	18		3	
		International	19		2	
(C) Patent	Conference Proceedings		20			
	Consultancy		21			
	Applied		22			
(D) E-Content	Published		23			
	Granted		24			
	MOOC/SWAYAM/ E-content developed		25			
(E) Any Other	Teaching /Extension /outreach activities		26	3	2	4
	Responsibilities other than teaching		27	Campus-in Charge, NEHU, Tura Campus; Chairperson, CTEF, Meghalaya Chapter	Head of the Department	
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28			2
	Collaborations	National	29			
		International	30			

Details of Faculties	Name		1	Dr. N Pathak	Dr. L K Gracy
	Date of Joining		2	7. 8.2012	16-04-2013
	Field of specialisation		3	Performance Studies Critical Theory, IWE	British Fiction
(A) Teaching Experience (in Years)	UG		4	2	12
	PG, including PhD		5	10	9
	Basic Research		6		

(B) Research activities	Applied Research		7		
	Action Research		8		
	Project Submitted		9		
	Ongoing Project		10		
	Research Paper in UGC care list journals	Group I	11		
		Group II	12	1	
	Books /Books chapters Published	Books	13		
		Book Chapters	14	3	6
	Popular Articles (News Paper/ Magazines)		15	4	
	Seminar / Conference/ Symposia organized	National	16		
		International	17	5	
	Seminar / Conference/ Symposia attended	National	18	1	
		International	19	2	
	Conference Proceedings		20		
	Consultancy		21		
(C) Patent	Applied		22		
	Published		23		
	Granted		24		
(D) E-Content	MOOC/SWAYAM/ E-content developed		25		
(E) Any Other	Teaching /Extension /outreach activities		26	4	2
	Responsibilities other than teaching		27		Warden of NEHU, Tura Sampalgre Girls' Hostel
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	7	
	Collaborations	National	29		
		International	30		

## DEPARTMENT OF GARO (TURA CAMPUS)

**Head** : Dr. Jacqueline R. Marak  
**Telephone** : 9436108468 (M)  
**E-mail** : hodgaro@nehu.ac.in\_ garodeptnehu@gmail.com

### Faculty Profile:

Designation	Name and Qualification	Specialization
Professor	Prof. Fameline K. Marak M.A. (Socio.) NEHU & Ph.D. (NEHU)	Traditional & Modern Poetry, Folk Literature and Garo Folklore
Associate Professor	Dr. Jacqueline R. Marak M.Ed (Utkal) Ph.D. (NEHU)	Garo Literature, Fiction, Drama, Literature in Translation
	Dr. Dokatchi Ch. Marak M.A. & Ph.D. (NEHU)	Linguistics
Assistant Professor	Dr. Crystal Cornelious D. Marak M.A. (Garo)& Ph.D. (NEHU)	Garo Literature, Literature in Translation, Environmental Studies and Fiction Studies

### Thrust Areas of Research

The thrust areas of the Department include Garo Literature, Language, Folklore and Literature in Translation, Environmental Studies and World Literature including Indian Writings in English.

### Brief Statement of Academic Activities and achievements:

The Department of Garo was opened in August 1996 when NEHU, Tura Campus, Tura was created. Since its inception, the Department is offering Master of Arts (Garo), Master of Philosophy (M.Phil.) and Doctorate of Philosophy (Ph.D). The Department continues in its research activities to preserve and promote the rich Garo tradition and language through translation and documentation in areas of Folklore, Linguistics and Literature.

So far 13 (Thirteen) research scholars have successfully completed their Doctor of Philosophy, 3(Three) research scholars are awaiting their results, 2 (two) research scholars have submitted their theses and 3 (three) M.Phil research scholars have submitted their dissertations. At present, 6 (six) research scholars are pursuing Ph.D Programme in the Department. The Department holds class seminars regularly to create interest in research among the Master level students and research scholars. Field studies are conducted regularly and the students are encouraged to do research in folk literature and culture of the Garos. As there is a need to improve and preserve the language, literature and culture of the Garos, students are always encouraged to write articles, poems, short stories, essays, field reports etc. Seminars, workshops and training on traditional skills and knowledge are conducted regularly in the Department. Visiting Professors/Fellows and Scholars are invited from other Universities for special lectures on selected topic such as Oral Narrative, Literary Theory & Criticism, Research Methodology and Theory of Translation etc., where the students have freedom to discuss and interact with the professionals. The Department also organizes remedial classes annually on relevant topics, such as: English Grammar, Translation, Letter Drafting, Rhetoric and Prosody, English pronunciation and Phonetic transcription and folk literature. At present, the Department is functioning with 1(one) Professor; 2 (two) Associate Professors, 1 (one) Assistant Professor and 3 (three) Guest Lecturers. There is one permanent office staff in the Department and it is functioning with 1 (one) LDC (on contract), 1 (one) Peon (Permanent) and 1 (one) Cleaner (on contract).

### Students' Profile

**Enrolment Capacity: M.A.: 36**

**PhD – Variable**

**Enrolment of students from different States of India and Abroad**

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya			8	27									8	27
Assam				1										1
Sub Total														
International														
Total			36										36	

### Degrees Awarded

#### Degree: M.A./ Ph.D.

#### Degrees Awarded to students from different States of India and Abroad

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
M.A. (Meghalaya )			7	20									7	20
M.A. (Assam)			1	2									1	2
Ph.D. (Meghalaya)			2	1									2	1
Ph.D. (Assam)														
Sub Total														
International														
Total			33										33	

#### Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Mr.Jobillyne D. Shira	“Representation of Gender Inequality in Select A·chiks Literature”	Dr. Jacqueline R. Marak (Supervisor) Dr.Dwijen Sharma (Joint Supervisor)
Mr.Jogesh B. Sangma	“Influence of the Bible on Garo Poetry: A Study of Major Poets”	Prof. Fameline K. Marak (Supervisor)
Ms. Jamie Mary Ch. Marak	“A Comparative Phonological Study of Gara - Gan·ching and A·we”	Dr.Dokatchi Ch. Marak (Supervisor)

#### Placement of Students

Name of the Student(s)	Name of the Programme	Post Held	Place of Work
Dr. Dorothy R. Marak	Assistant Professor	Tura	Durama College, Megonggre, Rongkhon, Tura
Dr.Colnat B. Marak	Assistant Professor	Tura	Don Bosco Degree College, Tura
Ms.Dedeyma R. Marak	Assistant Teacher	Dadenggre	Dadenggre Puri Government Higher Secondary School
Ms.Jakmatchi M. Sangma	Assistant Lecturer	Tura	Don Bosco College Higher Secondary Section

#### Students selected for Higher Studies:

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
Ms.Lorinda D. Marak	Ph.D (Date of Admission: 2nd February, 2022)	Department of Garo, NEHU, Tura Campus, Tura	India

#### Research Fellowship

CSIR-UGC-	UGC Non-	Rajiv Gandhi		Maulana	Others
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NET	Net	National Fellowship (SC/ST)	Meritorious Fellowship	Azad National Fellowship	(National Fellowship for Higher Education for ST/SC)
	3-M.Phil				
	2-Ph.D				1-Ph.D

### **Courses Conducted:**

#### **Postgraduate**

Semester I: History of Garo Language and Literature, Poetry I, Drama I, Linguistics I & Environmental Studies.

Semester II: Fiction I, Literature in Translation, Prose I, Linguistics II & Linguistics III

Semester III: Literary Theory & Criticism, Epic, Drama II, Linguistics IV & Folklore I

Semester IV: Poetry II, Folklore II, Tragedy, Indian Literature In English & Poetry III

#### **MPhil/PhD Courses**

Research Methodology, Literary Themes, Literary Theory and Criticism, Language and Folklore, Seminar Paper-Literature Review & Research Paper and Presentation.

#### **Seminars/Conferences/Workshops/Symposia/ Extension Programmes (National/International):**

##### **Organized**

The Department organized (i) a two-day *Writers' Meet* at the Department of Garo, NEHU, Tura Campus, Tura in collaboration with A'chik Literature Society Tura on 27<sup>th</sup>-28<sup>th</sup> Aug. 2021. (ii) a two-day International Webinar- 2021 on "*Language and Literature*" in collaboration with A'chik Literature Society, Tura and Department of Garo, Don Bosco College, Tura. on 1<sup>st</sup> -2<sup>nd</sup> October, 2021. (iii) a one-day International Webinar on "*International Mother Language Day*" in collaboration with, A'chik Literature Society and Don Bosco College, Tura on 21<sup>st</sup> February, 2022. (iv) a five-day "Regional Workshop on Traditional Musical Instruments and Performing Arts," in collaboration with A'chik Literature Society, Tura from 21<sup>st</sup> to 25<sup>th</sup> March, 2022 at NEHU Tura Campus, Tura

##### **Attended**

Dr. Jacqueline R. Marak

(i) Attended two days *Writers' Meet*, organized by Department of Garo, NEHU, Tura Campus, Tura in collaboration with A'chik Literature Society on 27<sup>th</sup>-28<sup>th</sup> Aug. 2021

(ii) Attended a two-day International Webinar- 2021 on "Language and Literature "on 1<sup>st</sup> -2<sup>nd</sup> October, 2021 organized by Department of Garo, NEHU Tura Campus, Tura in collaboration with A'chik Literature Society, Tura and Department of Garo, Don Bosco College, Tura.

(iii) Attended the Workshop on Online National MOOCS E-Content Development and Open Educational Resources organised by Department of Education, NEHU Tura Campus, Tura in collaboration with Department of Education & Educational Technology, School of Social Sciences, University of Hyderabad, Telengana State, Hyderabad and Don Bosco College, Tura w.e.f. 14<sup>th</sup> – 18<sup>th</sup> February, 2022.

(iv) Attended a one-day International Webinar on "International Mother Language Day" organized by A'chik Literature Society, in collaboration with Department of Garo, NEHU Tura, Department of Garo, Don Bosco College, Tura on 21<sup>st</sup> February, 2022

(v) Attended the "Regional Workshop on Traditional Musical Instruments and Performing Arts," organized by Department of Garo, NEHU Tura Campus, Tura in collaboration with A'chik Literature Society on 21<sup>st</sup> to 25<sup>th</sup> March, 2022 at NEHU Tura Campus, Tura.

Prof. Fameline K. Marak

(i) Attended two days *Writers' Meet*, organized by Department of Garo, NEHU, Tura Campus, Tura in collaboration with A'chik Literature Society on 27<sup>th</sup>-28<sup>th</sup> Aug. 2021

(ii) Attended a two-day International Webinar- 2021 on "Language and Literature "on 1<sup>st</sup> -2<sup>nd</sup> October, 2021 organized by Department of Garo, NEHU Tura Campus, Tura in collaboration with A'chik Literature Society, Tura and Department of Garo, Don Bosco College, Tura.

(iii) Attended the Workshop on Online National MOOCS E-Content Development and Open Educational Resources organised by Department of Education, NEHU Tura Campus, Tura in collaboration with Department of Education & Educational Technology, School of Social Sciences, University of Hyderabad,

Telangana State, Hyderabad and Don Bosco College, Tura from 14<sup>th</sup> – 18<sup>th</sup> February, 2022.

(iv) Attended a one-day International Webinar on "International Mother Language Day" organized by A'chik Literature Society, in collaboration with Department of Garo, NEHU Tura, Department of Garo, Don Bosco College, Tura on 21<sup>st</sup> February, 2022

(v) Attended the "Regional Workshop on Traditional Musical Instruments and Performing Arts," organized by Department of Garo, NEHU Tura Campus, Tura in collaboration with A'chik Literature Society from 21<sup>st</sup> to 25<sup>th</sup> March, 2022 at NEHU Tura Campus, Tura.

(vi) Participated as Resource Person in the All India Poetess Conference (AIPC), Tura organized by AIPC, Tura Chapter in collaboration with Department of Garo, NEHU, Tura Campus, & ALS, Tura on 8<sup>th</sup> March, 2022.

(vii) Participated and presented a poem (self-creation) "*Re'angsoaha*" in All India Poetess Conference (AIPC/ National) held at Government Boys H.S.S, Tura, Meghalaya on 16<sup>th</sup> March, 2022.

#### **Dr. Dokatchi Ch. Marak**

(i) Attended two days *Writers' Meet*, organized by Department of Garo, NEHU, Tura Campus, Tura in collaboration with A'chik Literature Society on 27<sup>th</sup>-28<sup>th</sup> Aug. 2021

(ii) Attended a two-day International Webinar-2021 on *Language and Literature* on 1<sup>st</sup> -2<sup>nd</sup> October, 2021 organized by Department of Garo, NEHU Tura Campus, Tura in collaboration with A'chik Literature Society, Tura and Department of Garo, Don Bosco College, Tura.

(iii) Attended the Workshop on *Online National MOOCS E-Content Development and Open Educational Resources* organised by Department of Education, NEHU Tura Campus, Tura in collaboration with Department of Education & Educational Technology, School of Social Sciences, University of Hyderabad, Telangana State, Hyderabad and Don Bosco College, Tura from 14<sup>th</sup> – 18<sup>th</sup> February, 2022.

(iv) Attended two days National Seminar on *Political, Economic and Social Development of NEI since 1947* with special reference to Meghalaya organised by the Tura Christian College, Tura on 14<sup>th</sup> -15<sup>th</sup> January, 2022.

(v) Attended a one-day International Webinar on *International Mother Language Day* organized by A'chik Literature Society, in collaboration

with Department of Garo, NEHU Tura, Department of Garo, Don Bosco College, Tura on 21<sup>st</sup> February, 2022

(vi) Attended the *Regional Workshop on Traditional Musical Instruments and Performing Arts* organized by Department of Garo, NEHU Tura Campus, Tura in collaboration with A'chik Literature Society from 21<sup>st</sup> to 25<sup>th</sup> March, 2022 at NEHU Tura Campus, Tura.

#### **Dr. Crystal Cornelious D. Marak**

(i) Attended two days *Writers' Meet*, organized by Department of Garo, NEHU, Tura Campus, Tura in collaboration with A'chik Literature Society on 27<sup>th</sup>-28<sup>th</sup> Aug. 2021

(ii) Attended a two-day International Webinar-2021 on *Language and Literature* on 1<sup>st</sup> -2<sup>nd</sup> October, 2021 organized by Department of Garo, NEHU Tura Campus, Tura in collaboration with A'chik Literature Society, Tura and Department of Garo, Don Bosco College, Tura.

(iii) Attended the Workshop on *Online National MOOCS E-Content Development and Open Educational Resources* organised by Department of Education, NEHU Tura Campus, Tura in collaboration with Department of Education & Educational Technology, School of Social Sciences, University of Hyderabad, Telangana State, Hyderabad and Don Bosco College, Tura from 14<sup>th</sup> – 18<sup>th</sup> February, 2022.

(iv) Attended a one-day International Webinar on *International Mother Language Day* organized by A'chik Literature Society, in collaboration with Department of Garo, NEHU Tura, Department of Garo, Don Bosco College, Tura on 21<sup>st</sup> February, 2022

(v) Attended the Regional Workshop on *Traditional Musical Instruments and Performing Arts* organized by Department of Garo, NEHU Tura Campus, Tura in collaboration with A'chik Literature Society on 21<sup>st</sup> to 25<sup>th</sup> March, 2022 at NEHU Tura Campus, Tura.

#### **(i) Journal/Research papers:**

##### **Dr. Dokatchi Ch. Marak**

Marak, Dokatchi Ch. (2022). A Comparative Study of the Kamrup Variety of Garo and Standard A'we Language (Garo). *International Journal of Creative Research Thoughts*. Volume 10 (1):223-228. An International Open Access, Peer reviewed, Refereed Journal. ISSN: 2320 – 2882.

#### **(ii) Book Chapters:**



**Dr. Jacqueline R. Marak**

- i. Marak, J. R. (2021). Goodbye Entebbe! Goodbye!! In *GARO A Bird's-Eye View*. C. R. Marak (Ed). Sahitya Akademi, New Delhi, Chapter 27, pp. 188-193. ISBN: 978-93-9149-22-3
- ii. Marak, J. R.. (2021). Princes Dishru, The Daughter of AKachari King (Rajan DemechikDishru). In *GARO A Bird's-Eye View*. C. R. Marak (Ed). Sahitya Akademi, New Delhi, Chapter 27, pp. 183-187. ISBN: 978-93-9149-22-3
- iii. Marak, J. R. (2021). *Love of a Pure Heart (Katongarini Ka-saa)*, In *GARO A Bird's-Eye View*. C. R. Marak (Ed). SahityaAkademi, New Delhi, Chapter 25, pp. 179-182. ISBN: 978-93-9149-22-3
- iv. Marak, J. R. (2021). Debt Should be Repaid on Earth Itself (*A·gilsakon GroChotna Nanga*). In *GARO A Bird's-Eye View*. C. R. Marak (Ed). Sahitya Akademi, New Delhi, Chapter 27, pp. 173-178. ISBN: 978-93-9149-22-3
- v. Marak, J. R. (2021). Recent Trends in the Literature in Translation with Special Reference to Garo Literature. In *Recent Trends in the Tribal Literature of the North-East India*. C. R. Marak (Ed). Sahitya Akademi, New Delhi, Chapter 8, pp. 114-125. ISBN: 978-93-91494-27-8
- Dr. Dokatchi Ch. Marak
- i. Marak, D. Ch. (2021). Recent Trends in the Study of A·chik (Garo) Language. In *In Recent Trends in the Tribal Literature of the North-East India*. C. R. Marak (Ed). Sahitya Akademi, New Delhi, Chapter 7, pp. 103-113. ISBN: 978-93-91494-27-8
- ii. Marak, D. Ch. (2021). Sanja Manda Sangma, the Hero of Dura Baliking Range, Nokma of

Mandalgre village. In *GARO A Bird's-Eye View*. C. R. Marak (Ed). Sahitya Akademi, New Delhi, Chapter 2, pp. 12-41. ISBN: 978-93-9149-22-3.

**Dr. Crystal Cornelious D. Marak**

- i. Marak, C. C. D. (2021). Recent Trends in Fiction Writing in A·chik Literature. In *Recent Trends in Tribal Literature of North-East India*. C.R. Marak (Ed). Sahitya Akademi, New Delhi. Chapter 5, pp. 82-93. ISBN 978-93-91494-27-8
- ii. Marak, C. C. D. (2021). Working Hours (Kam Ka·ani Somoi). In *Garo A Bird's Eye View*. C. R. Marak (Ed). Sahitya Akademi, New Delhi, Chapter 19, pp. 142-147. ISBN 978-93-91494-22-3.
- iii. Marak, C. C. D. (2021). A Curse Christmas (Sao Sarap Gnanggipa Christmas) In *Garo A Bird's Eye View*. C. R. Marak (Ed). Sahitya Akademi, New Delhi. Chapter 20, pp. 148-152. ISBN 978-93-91494-22-3.
- iv. Marak, C. C. D. (2021). Love Others as You Love Yourself (An·tangna Gitan Ka·sabo). In *Garo A Bird's Eye View*. C. R. Marak (Ed). Sahitya Akademi, New Delhi. Chapter 21, pp. 153-158. ISBN 978-93-91494-22-3
- v. Marak, C. C. D. (2021). The Swearing (Ku·mikcheta) In *Garo A Bird's Eye View*. C. R. Marak (Ed). Sahitya Akademi, New Delhi. Chapter 22, pp. 159-165. ISBN 978-93-91494-22-3.
- vi. Marak, C. C. D. (2021). The After-Life is the Same as Life on Earth (A·gilsako Jekai Atchiramasachiba). In *Garo A Bird's Eye View*. C. R. Marak (Ed). Sahitya Akademi, New Delhi. Chapter 23, pp. 166-172. ISBN 978-93-91494-22-3

**Funds Received during the current Year****(J) Bulk Grant to Department/Centre/Section etc. other than EMR grant**

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	(i) Capital Assets= 1,40,000/- (ii) Departmental Allocation= 2,50,000/- (iii) Workshop =75,000
		Total= Rs. 4,65,000/- (Rupees four lakh sixty-five thousand) only

**(i) Organized:****Academic Collaboration****i. International:**

Organised an International Webinar in collaboration with A·chik Literature Society, Tura on 1<sup>st</sup> and 2<sup>nd</sup> October 2021.

**ii. National**

Organized the Poets' Meet at Tura AIPC Meghalaya Chapter at Government Higher Secondary School, Tura on 16<sup>th</sup> March 2022.

**Other Activities**

Prof. Fameline K. Marak

- i. Delivered a talk on Folk Literature in the International Webinar- 2021 on 1<sup>st</sup> -2<sup>nd</sup> October, 2021 organised by A·chik Literature Society, Tura in collaboration with Department of Garo, NEHU Tura Campus, Tura.

Dr. Dokatchi Ch. Marak

- i. Convener, the Board of Scrutiny, A·chik Literature Society, Tura, 2015 till date.
- ii. Life Member, the All India Poetess Conference, India.
- ii. Life Member, the A·chik Literature Society, Tura, Meghalaya.
- iv. Member, the Editorial Board, *NokdangniRipeng*, Tura, Meghalaya, 2015 till date.
- v. Life Member, the Tribal Literary Forum of India.

Dr. Crystal Cornelious D. Marak

- i. Life Member and Secretary, A·chik Literature Society, Tura, West Garo Hills, Meghalaya, since 2014 till date.
- ii. Life Member of the Garo Graduate Union, Tura, West Garo Hills, Meghalaya.
- iii. Member, Advisory Committee to advise the Government for State Literary Award
- iv. Teacher-in-Charge, Students Welfare, NEHU Tura Campus, Tura from August 2019 till date.  
Member, Covid-19 Management Committee, NEHU Tura Campus, Tura.

**SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022**

Details of Faculties	Name		1	Dr. Jacqueline R. Marak	Prof. Fameline K. Marak
	Date of Joining		2	1st June, 1996	1st June, 1996
	Field of specialisation		3	Fiction Studies, Drama, Literature	Traditional Poetry, Oral Literature, Modern Poetry, A·chik Folklore, Epic, Cultural studies.
(A) Teaching Experience (in Years)	UG		4		
	PG, including PhD		5	26 years	26 years
	Basic Research		6		
	Applied Research		7		
	Action Research		8		
	Project Submitted		9		
	Ongoing Project		10		
	Research Paper in UGC care list	Group I	11		
		Group II	12		

(B) Research activities	journals				
	Books /Books chapters Published	Books	13		
		Book Chapters	14	5 nos.	
	Popular Articles (News Paper/ Magazines)		15		
	Seminar / Conference/ Symposia organized	National	16	2	2
		International	17	2	2
	Seminar / Conference/ Symposia attended	National	18	1	1
		International	19	2	2
(C) Patent	Conference Proceedings		20		
	Consultancy		21		
	Applied		22		
(D) E-Content	Published		23		
	Granted		24		
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	1	1
(E) Any Other	Teaching /Extension /outreach activities		26	Took part in various programmes organised by the Campus and by other Department Programmes like P.A. Sangma Memorial Lecture, Workshop on World Environment Day, MOSAIC, ETHNICA, Campus Development, Campus Students' Election, Beautification, Don Bosco College, Tura for Teacher's Interview	Took part in various programmes organised by the Campus and by other Department Programmes like P.A. Sangma Memorial Lecture, Workshop on World Environment Day, MOSAIC, ETHNICA, Campus Development, Beautification, College inspection to Raid Laban College, ShillongShillong, went to Durama, Mendipathar College, Law College and Don Bosco College, for confidential duty. Don Bosco College, Tura-One Day Workshop on 18th March, 2022 on "Revisiting Prosody" organised by Internal Quality Assessment Cell (IQAC) & Dept. of Garo, Don Bosco College, Tura.
	Responsibilities other than teaching		27	Headship, Warden, Chairman Hostel Management.	Headship till 15th June, 2022
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	1. Life Membership AIPC	Life member AIPC SahityaAkademi , Academic Council, NECOL MBOSE

	Collaborations	National	29	NECOL, SahityaAkademic, AIPC, A·chik Literature Society	SahityaAkademic, AIPC, A·chik Literature Society
		International	30	Yes	Yes

Details of Faculties	Name		1	Dr.Dokatchi Ch. Marak	Dr. Crystal Cornelious D. Marak
	Date of Joining		2	12th April, 2002	9th July, 2012
	Field of specialisation		3	Linguistics	Garo Literature, Literature in Translation, Environmental Studies and Fictional Studies
(A) Teaching Experience (in Years)	UG		4		
	PG, including PhD		5	19 years	9years
(B) Research activities	Basic Research		6		
	Applied Research		7		
	Action Research		8		
	Project Submitted		9		
	Ongoing Project		10		
	Research Paper in UGC care list journals	Group I	11		
		Group II	12		
	Books /Books chapters Published	Books	13		
		Book Chapters	14	2 nos.	6 nos.
	Popular Articles (News Paper/ Magazines)		15	2 nos.	
	Seminar / Conference/ Symposia organized	National	16	2	3 nos.
		International	17	1	2 nos.
	Seminar / Conference/ Symposia attended	National	18	5	3 nos.
		International	19	1	2 nos.
	Conference Proceedings		20		
	Consultancy		21		
(C) Patent	Applied		22		
	Published		23		
	Granted		24		
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	1	
(E) Any Other	Teaching /Extension /outreach activities		26	Life member of Tibeto-Burman Linguistics Association of North East India BOS in Garo, A·chik Literature Society, AIPC (All India Poetess Conference), Life member INTACH  Took part in various	Life Member, Secretary, A·chik Literature Society, Tura Life Member, Garo Graduates' Union Tura

				programmes organised by the Campus and by other Department Programmes like P.A. Sangma Memorial Lecture, Workshop on World Environment Day, MOSAIC, ETHICA, Campus Development, Campus Students' Election, Beautification,	
	Responsibilities other than teaching		27	Warden P.G. Girls' Hostel, NEHU, Tura Campus	Teacher In-Charge Students Welfare, NEHU, Tura Campus, Tura
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	1. Life Membership AIPC	Life Member, Secretary, A·chik Literature Society, Tura, Life Member, Garo Graduates' Union Tura
	Collaborations	National	29	NECOL, SahityaAkademic, AIPC, A·chik Literature Society	SahityaAkademic, AIPC, A·chik Literature Society
		International	30	Yes	Yes

## DEPARTMENT OF HINDI

Head : Prof. H. K. Mishra  
 Telephone : 0364-2723514, 2723515  
 E-mail : hodhin@nehu.ac.in

### Faculty: 04

Designation	Name and Qualification	Specialization
<b>Professor</b>	Dr. M. P. Pandey, M.A. & Ph.D. ( MGKV, Varanasi)	Criticism & Poetics
	Dr. D. K. Choubey, M.A. (Gauhati Univ.) Ph.D.( Manipur Univ.)	Medieval Literature & Comparative Study
	Dr. B. P. Tripathi M.Phil & Ph.D, (JNU)	Modern Hindi Poetry
	Dr. H. K. Mishra, M.A.& Ph. D.( BHU)	Hindi Journalism & Modern Literature

### Thrust Areas of Research:

North-Eastern Literature and Comparative Study.

### Brief Statement of Academic activities during the year:

During the academic year many academic activities have been carried out in the Department. Department has organized webinars through 'Sodharthi Samvad Manch' and some lectures were delivered by renowned scholars.

Shodh Sanskar Chunoutiyaan evam Sambhavnayein, Prof. Surya Prasad Dixit, Lucknow University, Lucknow, 14.07.2021

Nayi Shiksha Niti aur Bhartiya Bhashayein, Prof. Girishwar Mishra, Ex. VC MGAHV, Wardha, Prof. T. V. Kattimani, VC Central Tribal University, Andhra Pradesh, 09.09.2021

### Student Profile:

Enrolment capacity: M.A. - 61                      **Ph.D.** Variable

Actual Admission : 30                                      06

### State –wise Enrolment of Students

#### M.A. Course

	GEN		ST		SC		OBC		EWS		TOTAL	
ALL COURSES	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	-	-	3	3	-	-	-	-	-	-	3	3
Assam	1	8	-	-	-	-	-	6	-	-	1	14
Bihar		1										1
Meghalaya	-	-	1	7	-		-	-	-	-	1	7
GRAND TOTAL	1	10	2	7	-	2		3			5	25

#### Ph. D. Course

	GEN		ST		SC		OBC		EWS		TOTAL	
ALL COURSES	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	-	-	1		-		-	-	-	-	1	
Assam		1	-	-	-	-			-	-		1
Uttar Pradesh									1		1	
Bihar	1	-			-		-	-	-	-	1	
Meghalaya			2		-						2	

GRAND TOTAL	1	1	1	3					1		5	1
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**Degree Awarded:**

**M.A.**

	GEN		ST		SC		OBC		EWS		TOTAL	
ALL COURSES	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	-	-	3	3	-			-	-	-	3	3
Assam	1	8	-	-	-	-		6	-	-	1	14
Bihar		1										1
Meghalaya	-	-	1	7	-			-	-	-	1	7
GRAND TOTAL	1	10	1	2	7	-	2		3		5	25

#### Ph. D. Degree

	GEN		ST		SC		OBC		EWS		TOTAL	
ALL COURSES	M	F	M	F	M	F	M	F	M	F	M	F
Assam		1	-	-	-	-			-	-		1
Uttar Pradesh	1										1	
Total	1	1			-			-	-	-	1	1

**Students Awarded Ph. D. Degree: 02**

Name of Student	Title of Thesis	Name(s) of Supervisor(s)
Ms. Dulamani Talukdar.	Hindi aur Asamiya ke Pramukh Krishna Kavyon Mein Bhakti: Tulnatmak Adhyayan	Prof. D. K. Choubey
Mr. Alok Singh	Pushpdant Virachit Mahapuranka Samajik-Sanskritik Pariprekshya: Aalochanatmak Adhyayan	Prof. M. P. Pandey

#### Research Fellowship:

CSIR-UGC-NET/ JRF	UGC Non-Net	Rajiv Gandhi SC/ST	ICPR Fellowship	Meritorious Maulana Azad Minority Fellowship	Any other (Your name it)	Others
15(NET)04 (JRF)	10	-	-	-	01 (ICSSR)	-

#### 4<sup>th</sup> Semester

**Courses conducted during the year:**

**M.A.(C.B.C.S.)**

##### 1<sup>st</sup> Semester

Hindi Bhashaevam Uska Vikash, Bhartiya Kavyashastra-I, Aadhunik Kavya (Chhayavadtak) evam Paryavaran Parak Kavya, Hindi Gadya Sahitya-I (Natakevam Nibandh), Aadikalin Hindi Sahityaka Itihas

##### 2<sup>nd</sup> Semester

Bhaktikalin Kavya, Bhartya Kavyashastra-II, Hindi Gadya Sahitya-II (Upanyasevam Kahani), Aadikalin Kavya, Prayojanmoolak Hindi

##### 3<sup>rd</sup> Semester

Hindi Sahityaka Madhayakal, Ritikaleen Kavya, Hindi Natak, Anuvad-Sidhantevam Vyawhar, Lok Sahitya

Hindi Sahityaka Aadhunikkal, Chhayavadottar Kavya, Paschatya Sahityalochanaevam Hindi Aalochana, Bhasha Vigyan, Hindi Nibandh

##### Ph.D. Course:

Anusandhan ki Pravidhi aur Prakriya, Hindi Sahityaki Vaicharik Pristhbbhoomi, Sangosthi evam Samiksha

**Seminar/Webinar/Conference/Symposium/Extension Programme etc.**

##### Organized:

Pandey, M. P.:

Organized the International Day of Yoga on 21st June, 2021 in NEHU and delivered welcome address on the occasion.

Organized a lecture on Yoga titled 'Yoga for Physical & Mental Health' on 2<sup>nd</sup> October, 2021 in which Prof. H.R. Nagendra delivered a lecture as a distinguished speaker. Prof M P Pandey delivered the welcome address.

A week long Yoga camp was organised from 25th October, 2021 to 3<sup>rd</sup> November, 2021 in community Hall, NEHU.

The vigilance Awareness week was organised from 26th October, 2021 to 3<sup>rd</sup> November, 2021 in NEHU.

The Birth Anniversary of Sardar Vallabh Bhai Patel was organised as National Unity Day on 30<sup>th</sup> October, 2021 along with sport Department of the University in which 'Run for Unity' and Pledge to the employees were held.

A talk on the 'Life, Humanities and Education of Sri Aurobindo' was organised on 25th February, 2022 by Eager to Forge Ahead (India), Bhubaneswar, Orissa. Prof. M. P. Pandey welcomed the team and emphasized on the importance of organizing such programmes in the university on regular basis.

Mishra, H. K.:

*Nai Shikshanitaur Bharatiya Bhashayen*, One Day Online Seminar on 18<sup>th</sup> September, 2021.

*Bharatiya Gyan Parampara aur Rashtriya Siksha Niti*, One-day Online Workshop, 12.10.2021.

*International Poet Meet*, Online Programme on 22<sup>nd</sup> October, 2021.

*New Education Policy*, Two Days Workshop, Venue: NEHU Guest House, Guwahati on 23-24 November, 2022.

*Natya Manchan Karyakram*, NEHU, Shillong on 14.03.2022.

#### **Attended:**

Pandey, M. P. :

Invited Lecture: 'Purvottar Bharat ka Bhashai Paridrishya', organized by Vidyashrinayas, Varanasi, 14.1.2022.

Delivered a welcome address as the Chairman of the celebration of Azadika Amrit Mahotsav in a lecture organised on the topic 'World of Design' on the date 5<sup>th</sup> October, 2021 by Dr. Uday Kumar Dharmalingam organised by Dr Nitin Sahay, Department of Biomedical Engineering, NEHU.

Delivered a welcome speech in a lecture organised on the topic 'Tete a tete on heart with doctor of Heart' on the date 7th October, 2021

by Dr. Manish Kapoor organized by Dr. Nitin Sahay, Department of Biomedical Engineering, NEHU.

Delivered a welcome address in a lecture organised on the topic 'Why A V Archive' on the date 27th October, 2021 by Dr. Nathaniel D N Majaw organised by Dr. Kamaljit Chirom, Department of Journalism and Mass Communication, NEHU.

Delivered a welcome address in a lecture organised on the topic 'Next Generation Transport Solution: Autonomous, Connected and Electric' on the date 28th October, 2021 by Mr. Manual, Sweden, organised by Dr Arnab Kumar Maji, Department of IT, NEHU.

Delivered a welcome address and introduced the programme in a lecture competition organised on 31st October, 2021 on the topic '*Sanskritik Sanrakshanmein Yuvayonki Bhoomika*' in collaboration with Allahabad University, Uttar Pradesh.

Participated in a workshop on the topic 'Recent Advancement in Biomedical Imaging and image processing' on the date 8-9 November, 2021 organised by Dr. Gajendra Kumar Mourya, Department of Biochemical Engineering, NEHU.

Conducted a programme on the topic '*Bharateey Gyan-Parampara aur Rashtriya Shiksha Niti*' on 12th November, 2021 in VC Conference Hall, NEHU.

Delivered a welcome address as the Chairman of the celebration of Azadika Amrit Mahotsav in a lecture organised on the topic 'Atmanirbhar Bharat with Medical device Regulations' on the date 15th November, 2021 by Dr. S. B. Sinha organised by Dr Nitin Sahay, Department of Biomedical Engineering, NEHU.

Delivered a Vote of Thanks in a 'Inter Cultural Exchange Programme' organised in collaboration with NEHU & Baba Saheb Bhimrao Ambedkar University, Lucknow, on 7th March, 2022, coordinated by Prof. Desmond L K Kharmawphlang, Department of Cultural and Creative Studies, NEHU.

Choubey, D. K.:

Paper presented in two days International Seminar on 'Vaishvik Paridrishyamein Ram Sahitya' the topic in Poorvottar Bhaaratmein Raamkavya at M.L. Sukuadiya University, Udaipur, Rajasthan on 02.05.2021.



Chaired the technical session in one-day seminar organised by Rajiv Gandhi University, Itanagar on the topic of 'Hindi Punarjagaranaur Dwivedi Yugeen Kavita' on 15.07.2021.

Webinar on Higher Educational NEP 2020 organised by vidya Bharti and HRDC Centre Gauhati University on 25.07.2022.

Paper Presented at one-day national seminar organised by Sahitya Akademi, Delhi on 'The Freedom Fighter of North East India at Delhi on 15.08.2021.

Paper Presented at three-days national seminar cum conference of Sankardevsangh at Naharkatia Dibrugarh. The title 'Mahapurush Sankardevki Prasangikata' on 26.02.2022.

Paper Presented at two-days national seminar on Transforming India: Issues of Challenges of Tribal Development' organised by TsuarSara P.G. Collage University of Allahabad Sponsored by Indian Council of Historical Research (ICHR) New Delhi. The topic; Poorvottar Bhaaratki Janjaatiya Samaj Vyavasthaaur Chunautiyan' on 12.03.2022.

Chaired the technical session in one-day Webinar on Poorvottar mein Hindi Shikshan Paridrshya: Samasyaeinaur Samadhan organised by Central Hindi Institute, Agra at Dimapur Centre on 16.03.2022.

Paper Presented at three-days national seminar on 'Dakshin Poorv Asia mein Ram ka Sanskritik Path: Poorvottarka Sandarbh' organised by Tirpura University in collaboration of Vani Foundation Delhi and Ayodhya Shodh Sansthan on 23.03.2022.

Chaired the technical session in three-days national seminar on Ram Katha Ka Prabhav: Poorvottar Bharat ka Paridrshya organised by Tirpura University in collaboration of Vani Foundation Delhi and Ayodhya Shodh Sansthan on 25.03.2022.

Tripathi, B. P.:

Delivered a online lecture on Puraskaron ki Upsanskriti organized by Likhawat Samooch, New Delhi on 2<sup>nd</sup> May, 2021

Delivered a online lecture on Ekkisaween Sadiki Hindi Kavita organized by Department of Hindi, Tamil Nadu University on 8<sup>th</sup> May, 2021.

Delivered a online lecture on PathakonkiKasouti par Samakaleen Kavita-1 organized by Likhawat Samooch, New Delhi on 15<sup>th</sup> May, 2021.

Delivered a online lecture on Pathakon ki Kasouti par Samakaleen Kavita-2 organized by Likhawat Samooch, New Delhi on 22<sup>nd</sup> May, 2021.

Delivered a online lecture on Kavita, Koronaaur Social Media organized by Likhawat Samooch, New Delhi on 5<sup>th</sup> June, 2021.

Delivered a online lecture on Vibhajanki Trasadi: Hindi Kahani organized by Shi Shikshayatan College, Kolkata on 12<sup>th</sup> June, 2021.

Delivered a online lecture on Hindi Kavita men Navparivartan ka Ahwan organized by Sahitya ki Baat, Rajsthan on 15<sup>th</sup> July, 2021.

Delivered a online lecture on Premchand: Sahitya men Krishak Samasya aur Vartaman Kisan aandolan organized by Sarva Hindi Vikas Manch, Siliguri on 1<sup>st</sup> August, 2021.

Delivered a online lecture on Hindi Kavita: Kal, Aaj aur Kal organized by Jan Sarokar Manch, Tonk, Rajsthan on 30<sup>th</sup> November, 2021.

Delivered a online lecture on Poorvottar ki Janjatiya Bhashayen aur Loksahitya organized by Hindi Vibhag, Allahabad University on 4<sup>th</sup> December, 2021.

Delivered a online lecture on Hindi Aalochana men Pratimaanka Punarnirman organized by Samvad Manch, New Delhi on 18<sup>th</sup> December, 2021.

Delivered a online lecture on Srijanka Sangeet organized by Jan Sarokar Manch, Tonk, Rajsthan, on 6<sup>th</sup> March, 2022.

Delivered a online lecture on Aalochanaka Vartamansamay organized by Hindi Vibhag, St. Peter's College, Kerala on 20<sup>th</sup> March, 2022.

Mishra, H. K.:

*Aapadakaal mein Sanchar, Samvad aur Sahityaki Bhoomika*, Nehru Gram Bharati University, Prayagraj on 30<sup>th</sup> April, 2021 (Online)

*Rajbhasha Itihasevam Parichay*, Nagaland University on 7-8 June, 2021 (Online)

*Hindi ka Vartaman Paridrshya Swaroop evam Sambhawanayen*, Mohanlal Sukhaniya University, Udaypur on 14<sup>th</sup> September, 2021 (Online)

*Rashtriya Shikshaniti 2020: Shikshakon ki Bhumika*, Dr B R Ambedakar University, Mahu, Indore on 16<sup>th</sup> September, 2021 (Online)

*Rashtriya Shikshaniti aur Bharatiy Bhashayen*, Allahabad University, Allahabad on 18<sup>th</sup> September, 2021 (Online)

*Madhawrao Sapreki Patrakarita aur Bharatbodh*, Sant Tukdojee University, Nagpur on 23-24 December, 2021.

*Anudit Sahitya: Atit, Vartaman aur Bhavishya*, North Maharashtra University, Jalgaon, Maharashtra on 25<sup>th</sup> March, 2022 (Online)

*Shrimant Shankardev aur Bhakti Aandolan, Sri Sri Badala Padm Aata Seva Samiti, Majuli, Assam on 9<sup>th</sup> June, 2022.*

### **Publications:**

Choubey, D. K.

Mishra, Prof. Narendra Kumar, editor, (March 2021), Asamiya Sahityamein Gandhi Vichardhara, Bhartiya Hindi Parishad, Hindi Anusheelan, ISSN- 2249-9302, pp. 106-111.

Mishra, Dayanand, editor (Jan 2021) Nagaland ka Bhashayi Paridrishya, Vidyashree Nyas Gorakhpur Chikitusi, ISSN- 0975-6878, pp. 89-94.

Narayan, Balram Prem, editor (2021), Poorvottar Bhaaratka Bhakti Andolan, Samkaleen Bhartiya Sahitya, Sahitya Akademi, Ravindra Bhawan Delhi 111001, pp. 33-38

### **Tripathi, B. P.**

Tiwari, Arun, editor, (April- June, 2021), Kavita ke Bazarikaranka Swarnyug, Prerana, ISSN- 2455-9482, pp. 27-39.

Sharma, Aatmaram, editor (September, 2021) Fainteshi ki Abhinav Bhoomika, Garbhnaal, ISSN- 2249-5967, pp. 10-15.

Pallav, editor (January 2022) Kavitate Aine men Chamakate Chitra, Banasjan, ISSN- 2231-6558, pp. 149-154.

Renu, Rakesh, editor (February, 2022) Kavita ki Samakaleen Bhashake Manak Kavi, Aajkal, ISSN- 0971-8478, pp. 6-11.

Mishra, H. K.

Dr. Rajendra Sharma, editor (July, 2021). Poorvottar Bharat ke Tirth Sthal, Shaikshik Manthan, Year-13, issue-12, ISSN 2581-4133, page-45-50.

Choubey, D. K.,

Pandey, Krishna Kumar, editor (2021), Bhartiya Sahitya ke Paridrishya mein Mizo Sahitya ke Ramakhyan, ISBN- 978-812534362-1,

Samanvay Poorvottar, Kendriya Hindi Sansthan, Agra. pp- 20-36

Trivedi, Dr. Neeta, editor (2021) Poorvottar Bharat mein Vaishnav Mat ka Udbhav Eavm Vikas, Vishwa Mein Ram, quignog India. pp- 52-61.

Mishra, H. K.,

Pandey, Rajkumar, editor(2021), Swadheenata Aandolanaur Hindi Patrakarita, ISBN: 978-93-91602-22-2, Sahitya Sanchaya Publication, Delhi, page-62-70.

### **Book:**

Pandey, M. P.:

(2022) *Meghalaya ki Lok-Kathayein*, Prabhat Paper backs, ISBN978-93-5521-051-7

Tripathi, B. P.

(2021). Chintan ki Kasouti par Gadya Kavita (Alochana), Pustaknama Publication, New Delhi, ISBN- 978-81-949941-2-1.

### **(iii) Edited Books:**

(2021). Dharatika Bhachapan: Bhachapan ki Dharati, Aman Publication, Kanpur, ISBN- 978-93-91913-32-8.

(2022). Prakritike Paharedar, Ananya Publication, Delhi, ISBN- 978-93-92380-22-8.

### **(iv) Book chapter:**

#### **(v)**

#### **Honours/Awards/Recognition/Membership/Fellowship**

**Pandey, M. P. :**

Member of the Management Committee, Kendriya Vidyalay, NEHU.

**Choubey, D. K. :**

Hindi Advisory Committee Jal Shakti Ministry Govt. of India, Delhi.

Member, NAAC Bangalore.

Member, Hindi Shiksha Mandal Central Hindi Institute, Agra.

Member, School Board Language and Literature, Sikkim University, Gangtok.

Member, School Board languages, Nagaland University, Kohima.

Member, School Board languages IGNOU, Delhi.

Member, Board of Studies P.G. Hindi Manipur University, Imphal.

Member, Board of Studies Hindi Rajiv Gandhi University, Itanagar.

Member, BPGS Hindi, Assam University, Shilchar.

Member of Educational Board Bharat Vani CIIL Mysore.

### **Mishra, H. K. :**

Member- VMC KV NEHU, Shillong.

Nominated as Hindi Advisory Member in the Ministry of Environment, Forest and Climate Change.

Member- Creative Vision Society, Ghazipur (UP)

Member- BOS- Hindi, Tripura University, Agartala, Tripura.

Member- BOS- Hindi, Distance Education, Rajeev Gandhi University, Itanagar.

Life Member- Bharatiya Hindi Parishad, Prayagraj

Editor of 'Nivedita' College Magazine  
Published by- SSPG College, Ghazipur

Patron of Madhurakshar, Hindi journal

Editor of Kritika, Hindi Journal

Member in Editorial Board of Nutan Wagdhara, Wagprawah, samanway Purvottar Hindi Journals.

### **Other activities:**

#### **Choubey, D. K.:**

Attended Online meeting as Member Grant Committee of Central Hindi Directorate for Swaichchhik Hindi Sampark mein at CHD Center Guwahati on 11.12.2020

Attended and delivered online lecture on Rashtriya Ekta aur Hindi Bhasha, NEF Railway Maliga on, Guwahati on Hindi Diwas.

Attended a meeting on Nayee Shiksha Nitee 2020 regarding Higher & Technical Education by Vidya Bharti and HRDC, G. U. at Guwahati on 21.02.2021.

Chaired the Function of Refresher Course by Central Hindi Institute, Agara on Bhashaka Samvardhanatmak Paksh at Mizoram Hindi Teaching College, Aizawl on 01.02.2021.

Attended a Online meeting of Bharat Vani Project as Member of Editorial Board of CIIL Mysore on finalization of materials on Culture and Literature on 01.04.2021.

Educational board meeting of Bharat Vani, Central Institute of Indian languages (CIIL) Mysore Regarding the Publication of study material in Website on 01.04.2021.

Chaired the Orientation course propose for teacher of Manipur by Central Hindi Institute Agra on 26.04.2021.

Preparation of short-term syllabus for Hindi learning by Central Hindi Institute, Shillong Centre on 20.07.2021.

Delivered lecture on comparative literature in the content of Indian language organised by the Dept. of Hindi, K.B.C. North Maharashtra University, Jalgaon on 25.08.2021.

Delivered lecture on 'Prayogik Bhasha Vigyan at lecture series organised by the Dept. of Hindi, Allahabad University on 11.09.2021.

Delivered lecture on the Importance of Official language Hindi and Problems in NE Region at BSNL, Shillong on 14.09.2021.

Chaired the opening Ceremony of Orientation Course for teacher of Manipur organised by Central Hindi Institute, Agra at Dimapur Centre on 15.11.2021.

Attended the Educational Enclave discussion on NEP 2020 at administrative staff Collage Guwahati on 20.11.2021.

Chaired the Orientation Course Programme Central Hindi Institute Agra for teacher of Mizoram by Shillong Centre on 25.11.2021.

Participation in workshop cum mandative committee of SLET (NE) at Gauhati University, Guwahati 13<sup>th</sup> to 15<sup>th</sup> December 2021.

Attended the Meeting of all Journal and periodical for central Hindi institute Agra on 21.12.2021.

Chaired the Inauguration of Orientation programme for teacher of Manipur State, Subject; Bhasha Samvardhi on 02.03.2022.

Mishra, H. K.

Deliver a lecture in International Poet meet Programme(Online) on 22th October, 2021

Deliver a lecture in a refresher course in UGC-HRDC DDU Gorakhpur University, Gorakhpur on 26<sup>th</sup> February, 2022.

Deliver a Lecture on the Topic of Impotence of Hindi as a language in official use, 30<sup>th</sup> March, 2022 in Atomic Mineral Directorate of Research, Shillong.

Deliver a lecture in a refresher course in UGC- on 2<sup>nd</sup> June, 2022.  
HRDC DDU Gorakhpur University, Gorakhpur

**SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022**

Details of Faculties	Name		1	Prof. M.P. Pandey	Prof. D. K. Choubey
	Date of Joining		2	01.04.1997	30.01.2002
	Field of specialization		3	Criticism & Poetics	Medieval & Comparative Literature
(A) Teaching Experience (in Years)	UG		4	No	15 Years
	PG, including PhD		5	27 Years	23 Years
(B) Research activities	Basic Research		6	No	No
	Applied Research		7	No	No
	Action Research		8	No	No
	Project Submitted		9	No	No
	Ongoing Project		10	No	No
	Research Paper in UGC care list journals	Group I	11	No	No
		Group II	12	No	No
	Books /Books chapters Published	Books	13	1	No
		Book Chapters	14	No	02
	Popular Articles (News Paper/ Magazines)		15	No	03
	Seminar / Conference/ Symposia organized	National	16	7	No
		International	17	No	No
	Seminar / Conference/ Symposia attended	National	18	10	09
		International	19	No	No
(C) Patent	Applied		20	No	No
	Published		21	No	No
	Granted		22	No	No
(D) E-Content	MOOC/SWAYAM/ E-content developed		23	No	No
(E) Any Other	Teaching /Extension /outreach activities		24	No	No
	Responsibilities other than teaching		25	No	No
	Awards/ Honours/ Recognition/ Membership/ Fellowship		26	No	No
	Collaborations	National	27	No	No
		International	28	No	No

Details of Faculties	Name		1	Prof. B. P. Tripathi	Prof. H. K. Mishra
	Date of Joining		2	26.04.2002	01.05.2013
	Field of specialization		3	Modern Hindi Poetry	Hindi Journalism & Modern Literature

(A) Teaching Experience (in Years)	UG		4	No	15 Years
	PG, including PhD		5	20 Years	24 Years
(B) Research activities	Basic Research		6	No	No
	Applied Research		7	No	No
	Action Research		8	No	No
	Project Submitted		9	No	No
	Ongoing Project		10	No	No
	Research Paper in UGC care list journals	Group I	11	No	01
		Group II	12	No	No
	Books /Books chapters Published	Books	13	01	No
		Book Chapters	14	No	01
	Popular Articles (News Paper/ Magazines)		15	04	04
	Seminar / Conference/ Symposia organized	National	16	No	04
		International	17	No	No
	Seminar / Conference/ Symposia attended	National	18	13	08
		International	19	No	No
	Conference Proceedings		20	No	No
	Consultancy		21	No	No
(C) Patent	Applied		22	No	No
	Published		23	No	No
	Granted		24	No	No
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	No	No
(E) Any Other	Teaching /Extension /outreach activities		26	No	No
	Responsibilities other than teaching		27	No	No
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	No
	Collaborations	National	29	No	No
		International	30	No	No

## DEPARTMENT OF KHASI

**Head:** Prof. D. R. L. Nonglait

**Telephone:** 0364-2723301 (O)

**E-mail:** rockyernonglait@yahoo.in

**Faculty Profile:**

Designation	Name and Qualification	Specialization
Professor	Dr. B. War, M.A.( English) (NEHU), M.A., M.Phil (Linguistics) Delhi Univ, Ph.D. (Linguistics) (London)	Khasi Phonetics and Phonology, Morphology, Syntax, Khasi Sociolinguistics, Theories of literary translation, Translation and Khasi Literature, Austro-Asiatic Linguistics, Khasi Poetry.
	Dr. S. Dkhar, M.A. (Khasi) (NEHU), M.Phil & Ph.D. (NEHU)	Khasi Drama, Khasi Culture, Khasi Poetry
	Dr. A. Kharmalki, M.A.(Khasi) NEHU, B.Ed. (NEHU), M.A. (Linguistics) Delhi University, M.Phil and PhD, (NEHU)	Language Teaching, Translation, Sociolinguistics
	Dr. D. R. L. Nonglait, M.A. Khasi (NEHU), M.A. (Christian Studies) IDE, University of Madras, M.Phil (NEHU), PGDTE (EFL University), Ph.D (NEHU).	Literary Theory and Criticism; Postcolonial literature in Khasi, Psychoanalytic studies in Khasi literary texts, Khasi Fiction
Assistant Professor	B. Bairo, M.A. Khasi (NEHU), PhD (NEHU)	Khasi Fiction; Archetypal Studies in Khasi Short Stories.
	M. M. Khymdeit, M.A.Khasi (NEHU), MPhil Folklore (GU), PhD (NEHU)	Khasi Poetry, Stylistics in Khasi Poetry, Ecocriticism on Khasi poetry

### Thrust Areas of Research

The Thrust areas of the Department include Khasi Literature, Literature in Translation, Environmental Awareness in Khasi Literature, Literary Theory and Criticism, Folklore in Khasi Literature and Linguistics.

### Brief Statement of Academic Activities and achievements

1. The Department organized a Webinar on “Khasi Orthography” held on the 29<sup>th</sup> September, 2021.
2. The Department organized a UGC-HRDC sponsored Refresher Course in Khasi on *Development of Khasi Language and Literature* held from 15<sup>th</sup> to 30<sup>th</sup> November, 2021.

### Students’ Profile

**Enrolment Capacity: M.A 53**

**PhD – Variable**

**Enrolment of students from different States of India and Abroad**

#### MA

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
StateMeghalaya			11	41								1	11	42
Total													53	

#### Ph.D.

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
State 1Meghalaya				4										4
Total													4	

### Degrees Awarded

**Degrees Awarded to students from different States of India and Abroad**

**Degree: M.A**

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
State Meghalaya			09	40									09	40
Total													49	

**M.Phil.**

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
State Meghalaya				3										3
Total													3	

**Students Awarded M.Phil Degree**

Name of Student	Title of Thesis	Name(s) of Supervisor(s)
Ms. Rilin Gemma Lyngdoh	Ka Jingiakhing hapdeng ka Bor Babha bad ka Bor Basniew ha ki Nobel ba la Jied: Ka Bishar Bniah	Dr. Bandarilin Bairo
Ms. Jennifer Lyngkhohi	Ki Shakri-iing kumba ki Paw ha ki Sawangka ba la jied: Ka Bishar Bniah	Prof. A. Kharmalki
Ms. Frugiferous Diengdoh	Ka Jingshahktah ka Kolshor na ka Jingwan Buhai u Mynder kumba ka Paw ha ki Poitri Khasi: Ka Bishar Bniah ia ki Poim ba la Jied.	Prof. S. Dkhar

**Placement of Students**

Name of the Student(s)	Name of the Programme	Post Held	Place of Work
Ms. Badahunshisha Jana		Asstt. Professor	Synod College
Ms. Balarisha Nongkynrih		Asstt. Professor	Shillong College
Ms. Maybecall Jane Marbaniang		Asstt. Professor	Shillong Commerce College
Ms. Blahunlang Kharkongor		Asstt. Teacher	Umsyiem LP&UP School
Mr. Hamless Myllem Umlong		Asstt. Professor	Shillong Commerce College
Ms. Daphibanbet Sohtun		Asstt. Professor	St. Anthony's College
Ms. Jennifer Lyngkhohi		Asstt. Professor	Balawan College
Ms. Ibanbet Makdoh		Asstt. Professor	Ri-Bhoi Synod College
Mr. Lukas Shylla		Asstt. Professor	Ri-Bhoi Synod College
Ms. Ailad Tariang		Asstt. Professor	Riwar Jaintia College
Ms. Ibalumlang Lyngdoh		Asstt. Teacher	Stephan Memorial Sec. School
Ms. Airiline Mary Thongni		Asstt. Teacher	St. Peter Higher Sec. School
Ms. Sonidavi Warbah		Asstt. Professor	St. Anthony's College
Ms. Ibajanai Wanniang		Asstt. Professor	USTM
Mr. Pynkmenlang Kharmyndai		Asstt. Professor	Ri-Bhoi Synod College
Mr. Rahnam Bakordor Marthong		Asstt. Professor	Smit College
Mr. Kynjai Nongrang		Asstt. Professor	Balawan College
Ms. Wansakani Chyrmang			IPAC
Ms. Jaijailin Lyngwa		Asstt. Teacher	St. Gabriel Higher Sec. School
Mr. Leadingstar Kharrymba		Asstt. Teacher	Deni-Linda Persara Higher Sec. School
Ms. Iadarita Lyngdoh Mairang		Asstt. Teacher	Mairang Presbyterian Higher Sec. School

**Students selected for Higher Studies**

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
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Mr. Slendar Dkhar	Ph.D	Deptt. of Khasi, NEHU	India
Ms. Dariakor Careen Lyngskor	Ph.D	Deptt. of Khasi, NEHU	India
Mr. Esmarjune Kharpan	Ph.D	Deptt. of Khasi, NEHU	India
Mr. Bobby Moore Kharbani	Ph.D	Deptt. of Khasi, NEHU	India
Ms. Nunu Khongpdah	Ph.D	Deptt. of Khasi, NEHU	India
Mr. Pynjopthiaw Nongrum	Ph.D	Deptt. of Khasi, NEHU	India
Mr. Pynwandurlang Shabong	Ph.D	Deptt. of Khasi, NEHU	India
Ms. Rilin Gemma Lyngdoh	Ph.D	Deptt. of Khasi, NEHU	India
Ms. Jennifer Lyngkhoi	Ph.D	Deptt. of Khasi, NEHU	India
Ms. Frugiferous Diengdoh	Ph.D	Deptt. of Khasi, NEHU	India
Ms. Elizabeth Shylla	Ph.D	Deptt. of Khasi, NEHU	India

## Courses Conducted:

### Postgraduate

Semester I: Khasi Linguistics-I, Khasi Poetry-I, Khasi Drama-I, Aspects of Culture in Khasi Literature-I and Literary Theory & Criticism-I.

Semester II: Khasi Linguistics-II, Literary Theory & Criticism-II, Khasi Drama-II, Literature in Translation-I and Khasi Poetry-II.

Semester III: Khasi Linguistics-III, Literary Theory & Criticism-III, Environmental Awareness in Khasi Literature, Khasi Fiction-I and Literature in Translation-II.

Semester IV: Khasi Linguistics-IV, Khasin Poetry-III, Khasi Fiction-II, Literary Theory & Criticism-IV and Aspects of Culture in Khasi Literature-II.

### MPhil/PhD Courses

Research Methodology, Seminar Paper, Literary Theory and Criticism, Emerging Trends in Khasi Literature, Translation and Khasi Literature

**Seminars/Conferences/Workshops/Symposia/Extension Programmes**  
(National/International):

### Organized

#### Prof. S. Dkhar:

i. Coordinator of the 21st Foundation Day of AIPC and organised a National Webinar on the theme "Women and Peace". Chaired the Multilingual Poetry Session and read out self composed poem "Ode to Women" held on 30<sup>th</sup>

April 2021 through Google meet at 5:00 p.m link <https://meet.google.com/hwg-ihhh-wpe>

ii. Coordinator of the 21st Foundation Day of AIPC and organised a panel discussion on the theme "The Role of Women during the Pandemic of Covid 19" held on 1<sup>st</sup> May, 2021

through Google meet at 5:00 p.m link <https://meet.google.com/rrh-htiz-ffh>

iii. Organised a Webinar and was a resource person in the celebration of 186<sup>th</sup> Death Anniversary of the Khasi Patriot, Tirot Sing on the theme "Ki Jingjia Ha Nongkhlaw ha ka snem 1829 Bad U Tirot Sing kumba la pynpaw da ki Nongthoh Sawangka Khasi" and presented a talk on "U Syiem Tirot Sing kumba la pynpaw da ki Nongthoh Sawangka Khasi" held on 17<sup>th</sup> July 2021 at 10:30 am organised by Ka Thiar Lyngwiar Dpei Society (KTLDS), Shillong in collaboration with the IQAC, St. Edmund's College Shillong, through Zoom Meeting and Facebook.

Live link: <https://us02.web.zoom.us/j/82775979026?pwd=a2hsMjYyQXlvQ2FUSTJlM2l6bnhKdz09meetingID:82775979026Passcode:491364>

iv. Coordinator of the four series of NCW Sponsored Online on "Capacity Building and Personality Development Program (PDP) for UG and PG female students of Meghalaya" held on 15<sup>th</sup>, 17<sup>th</sup>, 22<sup>nd</sup> and 24<sup>th</sup> November 2021 organised by the School of Humanities & ICC, NEHU, Shillong. Link: <https://zoom.us/j/4429672307?pwd=UjZWNRHCdEdjQkMwVVhLMnVQWHNEdz09E> Meeting ID: 4429672307 Passcode: 803696

v. Coordinator and Chairperson of the "Rabon Sing Kharsuka 111<sup>th</sup> Death Anniversary Celebration" held in blended mode on 16<sup>th</sup> November 2021 at Synod College Auditorium, Shillong, organised by the School of Humanities, NEHU, Shillong, Eldora Lyngdoh, Secretary organising committee in Collaboration with Ka Thiar Lyngwiar Dpei Society and Department of Khasi, Synod College Shillong. Link: Live streaming <https://youtu.be/b4-RxsYWPU> from 3:00 p.m. onwards

vi. Co-Coordinator of the Field trip to Nongriat Village, West Khasi Hills for "Developing Creative Tourism on the basis of Cultures of



Conservation" a project of NEHU-CU held on 2/2/2022, organised by Dr. Benjamin Lyngdoh, Tourism Department, NEHU.

vii. Co-Coordinator of the Field trip to Mawkyllei Village, West Khasi Hills for "Developing Creative Tourism on the basis of Cultures of Conservation" a project of NEHU-CU held on 4/2/2022, organised by Dr. Benjamin Lyngdoh, Tourism Department, NEHU.

viii. Coordinator of the Poetry Reading sessions on the occasion of International Women's Day Celebration 2022. Chaired the Inaugural session and the technical session held on 8/3/22 at Crèche Building, Lower Lachumiere, organised jointly by Indian Council Social Welfare, Meghalaya State Branch and All India Poetess Conference, Meghalaya.

ix. Organised a Poetry Reading Session as part of the Founder's day celebration of AIPC, gave the keynote address on AIPC and read out two poems held on March 12, 2022 at Crèche Building, Lower Lachumiere, organized by AIPC Meghalaya, Shillong

#### **Dr. B. Bairo:**

i. Coordinator of UGC sponsored Refresher Course in Khasi on *Development of Khasi Language and Literature* organized by UGC-HRDC, NEHU and the Department of Khasi, NEHU, Shillong held from 15<sup>th</sup> to 30<sup>th</sup> November, 2021.

#### **Dr. M. M. Khyndeit:**

i. Coordinator of One-Day Webinar on *Ka Rukom Pyndonkam ia ki Dak Thoh Khasi* organized by the Department of Khasi, NEHU, Shillong held on the 29<sup>th</sup> September, 2021. <https://us02web.zoom.us/j/86251265997?pwd=WTW6NHIFUHDwcGIOWCtKRXIJeGhGZz09>

ii. Coordinator of One-Day National Level Panel Discussion (online) on *National Education Policy (NEP) 2020* organized by the North-Eastern Hill University Teachers' Association (NEHUTA) in collaboration with the Department of Education, NEHU, Shillong, Meghalaya, India held on 14<sup>th</sup> September, 2021. <https://istem.webex.com/istem/j.php?MTID=m412414d62c0079e53ae55392ddfd006c>

#### **Attended**

#### **Prof. B. War:**

i. Delivered a lecture as Resource Person in the Webinar on "Khasi Orthography" organized by

the Department of Khasi, North-Eastern Hill University, Shillong on the 29<sup>th</sup> September 2021.

ii. Resource Person and delivered a lecture on "Mother Language: The Case of Khasi" at the Celebration of International Mother Language Day organised by the Department of Education in Languages, NCERT, New Delhi on the 14<sup>th</sup> February 2022.

iii. Resource Person and delivered a speech on "Women and Education" at the National Parliament Day on the International Women's Day organized by the Meghalaya State Commission for Women, Government of Meghalaya on the 8<sup>th</sup> March 2022.

#### **Prof. S. Dkhar:**

i. Resource person in the Seminar on "Leadership for the Youth" and presented a paper on the "Development of Leadership Qualities and Skills for the Youth" held on 3<sup>rd</sup> April, 2021 at Umsning Auditorium, organized by Ri Bhoi Welfare Organisation, Umsning Circle, Umsning, Ribhoi District.

ii. Resource person in the National Poets' Meet Gonwana Darshan Kavi Samilan through Zoom, Read out self composed poems: one Khasi poem and three English poems held on 4<sup>th</sup> April 2021 organised by Tribal Literary Forum and Gonwana Darshan. Link

<https://meet.google.com/xus-ejxg-vgh> from 5:30 onwards and also Live streaming on Face book

iii. Resource person in the Webinar for the celebration of 130<sup>th</sup> Birth anniversary of Dr. Ambedkar Jayanti and talked on "Contribution of Dr. Ambedkar towards the Dalits of India" and read out a self composed poem "A Tribute to Baba Saheb Ambedkar" in Hindi version translated Dr. Jean S. Dkhar held on 14/4/2021 from 5:15 p.m. through Google meet. Link <https://meet.google.com/utuz-mhrh-cab> organized by Birendra Kumar Yadav, Patna.

iv. Resource person in the International Poetess Webinar on the theme *Love, Peace and Harmony* gave an address as a Chairperson AIPC, National in the Inaugural Session and read out a self composed poem on "Harmony in Humanity" held on 24<sup>th</sup> and 25<sup>th</sup> May, 2021 through Google meet link: <http://meet.google.com/qwo-mwuq-gwf> at 5:00 p.m. organised by AIPC, Belagavi Zone, Karnataka.

v. Resource person in the Webinar on *Khasi Poetry* and presented a lecture on "Halor ka Poitri bad ki Dur ki Dar Jong ka" held on 29<sup>th</sup> May, 2021 through Google meet link: <http://meet.google.com/qwo-mwuq-gwf> at 3:00

p.m. organised by the Department of Khasi, St. Mary's College, Shillong

vi. Resource person in the *Poetry Conclave 18* and presented three self composed poems, "Nature's Home", "Ode to the hapless Kids" and "A Cry for Love Peace and Humanity" held on 29<sup>th</sup> May, 2021 through Face book Live at 8:00 p.m. organised by Poetry conclave. Link: <https://streamyard.com/x46jcpccdn>

vii. Attended the Virtual Regional Heads Meeting with President Indian Council for Cultural Relations (ICCR) as a Board member of Regional office from Shillong held on Tuesday June 1<sup>st</sup>, 2021 at 3:00 p.m. organised by the ICCR, New Delhi. Link <https://iccr.webex.com/iccr/j.php?MTID=m42520408df5eOde254de3369f23d56b3>. Meeting No. 1827842791 Password: 123456

viii. Resource person in the Webinar on *Thomas Jones' Day celebration* and deliver a talk on "Thomas Jones, the Father of Khasi Alphabet: his contribution to Khasi literature and Khasi society" held on 22/06/2021, organised by the Department of Khasi St. Edmund's College, Shillong through Zoom Meeting <https://us02web.zoom.us/j/85825833568?pwd=aK92OWNFaVcrRWM0dHVvaUZZNjZMZZ09> Meeting ID: 858 2583 3568 Passcode: 455195 at 10:00 am-11:00am

ix. Resource person in the National webinar on *Exploring Indigenous Poetry* with 75 Poets from 75 Indian Tribal Languages on the occasion of "International Day of the World 's Indigenous Peoples" and presented four self composed Khasi poems with English translation held online from 9<sup>th</sup> -11<sup>th</sup> August 2021, organised by Sahitya Akademi, New Delhi. Link: <https://youtube.com/user/sahityaakademi>.

x. Resource person in the Webinar as part of celebration of *Azadi Ka Amrit Mahotsav* 75 years of India's Independence 2021 on the theme *Contributions of the Local Heroes of Meghalaya and Tripura to Freedom Struggle* and did a presentation on "The contribution of the three Local Heroes towards the Freedom Movement Against the British Rule" held on 15/8/2021 through Goggle meet Link: <https://meet.google.com/qyp-camb-mtw> organised by Ministry of Information & Broadcasting, Regional Outreach Bureau, Government of India, Shillong office.

xi. Resource person in the *Kavy Goshthi* and presented three self composed poems with a Hindi versions "Ling Ki Sachchai" "U Bngem" (Ek Kutta) and "Ankhe" translated by Dr. Jean S. Dkhar. held on 6/9/21 from 4:00 to 5:30 pm

through Google meet Link: <https://meet.google.com/ton-xrci-rnv?hs=224> organised by Shiksha Sanskriti Utthan Nyas

xii. Resource person and Guest of Honour in the Webinar as part of celebration of the 8<sup>th</sup> Foundation Day of Assam Women's University, Jorhat and deliver a talk on "Importance and values of Education" held on 11<sup>th</sup> September, 2021 in blended mode - online through Google Meet from 9:30 am to 11.00 a.m. Link : <https://meet.google.com/eum-ehog-sxc> organised by Assam Women's University

xiii. Chaired a Webinar on *Ka Jinglong Kyrpang u Khasi Kum Ka Jaitbynriew* as part of celebration of the 42<sup>nd</sup> Foundation Day of Khasi Authors' Society observed as the Literary Day held on 11/9/2021 through Zoom Meeting from 2:00p.m to 4:30 p.m. Link: <https://us02web.zoom.us/j/83456201011?pwd=RmFzU3lWV00zbGM2bWxEYVFvZldBZz09> meeting ID: 83456201011 Passcode:12345 organised by Khasi Authors' Society

xiv. Resource person and panelist in the Webinar on *Education: Challenges and Solutions during Covid-19* held on 19<sup>th</sup> September, 2021 through Face book Live and Youtube Live organised by National Health Mission in collaboration with DIPR and Doordarshan Kendra Shillong.

xv. Resource person in a Webinar on *Education: Challenges and Lessons during Covid-19* held on 27<sup>th</sup> September, 2021 through Google Meet from 2:00 p.m. onwards Link: <https://meet.google.com/fdd-kfze-ijo>. Organised by Department of Language, Women's College, Shillong.

xvi. Keynote Speaker in the 5<sup>th</sup> *International Workshop series* on "Personality Development in the Digital world" held on 30<sup>th</sup> October through Cisco Webex from 9.30 am. to 12.30 p.m. jointly organised by Department of Education, IQAC, and Department of Adult and Continuing Education, NEHU, in collaboration with the Department of Life Long Learning Alagappa University, Karaikudi, Tamilnadu, Department of Psychology, Handique Girls' College, Guwahati

Link: <https://istm.webex.com/istm/j.php?MTID=mf64a0810516c10c6484a8325a872> Password WJg8MhUY2c7 Meeting No. 2641 1859953

xvii. Resource person in the *Refresher Course on Tribal Studies* and gave a presentation on "Importance of Tribal Studies in Higher Education Institutions" held on 13<sup>th</sup> /11/2021

through online from 11:00 - 12:30 p.m. organised by UGC-HRDC, NEHU. Meeting ID : 88656078008 Passcode: 793022

Link: <https://us02web.zoom.us/j/88656078008?pwd=d=TMhLNDhMIVTaIR4bjVXOHpBYTlFBQTO9>

xxviii. Chaired the Inaugural session and the 1st session of the NCW Sponsored Online on "Capacity Building and Personality Development Program(PDP) for UG and PG female students of Meghalaya" held on 15<sup>th</sup> November, 2021, organised by the School of Humanities & ICC, NEHU, Shillong Venue Department of Education. Link: <https://zoom.us/j/4429672307?pwd=UjZWNHRCDdEdjQkMwVvVhLMnVQWHNEdz09E> Meeting ID: 4429672307 Passcode: 803696

xix. Resource person in the UGC-HRDC, NEHU Refresher Course of Khasi and gave a power point presentation on "Ban Sngewthuh ia ka Sawangka Bad Halor ka Shempap" held on 16<sup>th</sup> November, 2021 from 9:30 to 11:00 a.m. organised by Khasi Department, NEHU. Meeting ID: 81563506634 Pass code 793022

Link: <https://us02web.zoom.us/j/81563506634?pwd=bW1TaTlkT3c2M0xiMjN4Q2Z3dUNHZz09>

xx. Chaired the 3rd technical session of the NCW Sponsored Online on "Capacity Building and Personality Development Program(PDP) for UG and PG female students of Meghalaya" held on 22<sup>nd</sup> November 2021, organised by the School of Humanities & ICC, Shillong. Meeting ID: 4429672307 Passcode: 803696 Link: <https://zoom.us/j/4429672307?pwd=UjZWNHRCDdEdjQkMwVvVhLMnVQWHNEdz09E>

xxi. Resource person in the UGC-HRDC, NEHU refresher course of Khasi and gave a presentation on "Ka Dur ka Dar bad ki Jait Drama" held on 26<sup>th</sup> November, 2021 from 9:30 to 11:00 a.m. organised by Khasi Department, NEHU. Link <https://us02web.zoom.us/j/81563506634?pwd=bW1TaTlkT3c2M0xiMjN4Q2Z3dUNHZz09> Meeting ID: 81563506634 Passcode 793022

xxii. Resource person in the UGC-HRDC, NEHU Refresher Course of Khasi and gave a presentation on "Ka longkur long Jait U Khasi" held on 27<sup>th</sup> November 2021 from 9:30 to 11:00 a.m. organised by Khasi Department, NEHU.

Link <https://us02web.zoom.us/j/81563506634?pwd=b>

W1TaTlkT3c2M0xiMjN4Q2Z3dUNHZz09 Meeting ID: 81563506634 Passcode 793022

xxiii. Resource person in the UGC-HRDC, NEHU Refresher Course of Khasi and gave a presentation on "Ki Aih ka Shongkha Shongman u Khasi bad ki Adong ba dei ban Bud" held on 30<sup>th</sup> November 2021 from 11:00 to 12:30 p.m. organised by Khasi Department, NEHU. Meeting ID: 81563506634 Passcode 793022

Link: <https://us02web.zoom.us/j/81563506634?pwd=bW1TaTlkT3c2M0xiMjN4Q2Z3dUNHZz09>

xxiv. Resource person in the *International Hindi Language Day* and participated in the Poetry Session through Google Meet held on 10<sup>th</sup> January, 2022 from 6:00 p.m. onwards Link: <https://meet.google.com/yoh-jxkm-zww> organised by Jagdambi Prasad Yadav Smriti Pratishthan and International Hindi Parishad, India.

xxv. Resource person in the *Orientation Programme for IAS (P), 2020 Batch, Assam Meghalaya Cadre* and gave a power point presentation on "Culture, Tradition and Festivals in Matrilineal Society of Meghalaya" held on 20<sup>th</sup> January, 2022 at Meghalaya Administrative Training Institute, Mawdiangdiang, Shillong, organized by the Directorate Meghalaya Administrative Training Institute, Shillong.

xxvi. Resource person in the webinar on *Theory on Classical tragedy and Modern theory of Tragedy* (Ka Sengnia ka Classical Tragedy bad ka Modern Tragedy) held on 7<sup>th</sup> December, 2021 through online from 3:00 p.m. onwards. Link: <https://meet.google.com/hwf-obhs-uwj>; organised by Department of Khasi, St. Edmund's College Shillong.

xxvii. Resource person in the *International Poetry Meet* through Cloud HD Zoom Meeting held on 19<sup>th</sup> December, 2021 4.00 p.m. Qatar and 6:30 p.m. IST. Link: <https://us02web.zoom.us/j/2368527722?pwd=ZWRTUW5kK2ZPV00rU0hlR3oxZmYyUT09>, Meeting ID: 236852 7722 Passcode: Poetry123, organised by Dr. Vandana Raj, Convener AIPC, Qatar.

xxviii. Chairperson of the function celebrating *International Mother Language Day* and also read out a poem in Khasi "Ka Jingkordor Ka Ktien"(The Value of Language) with a Hindi translation held on 21<sup>st</sup> February, 2022 organised by Hindi Cell on behalf of the University.

xxix. Resource person in the National Webinar and *Sarva Bhasha Kavi Sammelan* in the celebration of the Azadi Ka Amrit Mohotsav on the occasion of *International Mother Language Day* through Online mode and read out 3 poems in Khasi with a Hindi translation held on 21<sup>st</sup> February, 2022 from 6: 00 p.m. onwards organised by the School of Mass Communication Film & Television Studies of IIMT, University Meerut, Uttarpradesh. Meeting ID 92178021701Passcode; 507697; Link: <https://zoom.us/j/92178021701?pwd=aWY4ekFs bTNhdGREQ0piNE9CSTBaQT09>:

xxx. Resource person in the Panel discussion on the occasion of *International Women's Day 2022* on the theme "Gender Equality Today for a Sustainable Tomorrow" held on 3/3/22 organised by AIR, Shillong.

#### **Prof. A. Kharmalki:**

i. Resource Person in the Refresher Course "Development of Khasi Language and Literature" organized by the Department of Khasi, NEHU, Shillong on the 16<sup>th</sup>, 24<sup>th</sup>, 25<sup>th</sup> and 30<sup>th</sup> November, 2021.

#### **Prof. D. R. L. Nonglait:**

i. Delivered a speech on *Ka Thymmei U Thomas Jones* in the celebration of Thomas Jones Day organized by Khasi Authors' Society on 22<sup>nd</sup> June, 2021 via online mode.

ii. Delivered a Keynote address in a Webinar on *Ka Jinglong Kyrpang u Khasi kum ka Jaitbynriew* organized by Khasi Authors' Society, Shillong on the 11<sup>th</sup> September, 2021.

iii. Chaired a Session in a One Day Webinar on *Ka rukom pyndonkam ia ki dak thoh Khasi* organized by the Department of Khasi, North-Eastern Hill University on the 29<sup>th</sup> September, 2021.

iv. Delivered speech on *Ka Pule puthi ha Meghalaya ha ki 50 snem (1971-2021) Ka jingroi bad ki jingeh* in a webinar on *Ka jaitbynriew Hynñiew Trep ha ka jingñaid lynti ba 50 snem* organised by Shillong College, Shillong on 9<sup>th</sup> -10<sup>th</sup> November, 2021.

v. Delivered a Speech on *Soso Tham's understanding on the identity of the Khasi as reflected in his Ka Jingpynshai* on the occasion of Soso Tham's Death Anniversary Celebration organized by the Khasi Authors' Society on the 18<sup>th</sup> December, 2021 at St. Anthony's College, Shillong.

#### **Dr. B. Bairo:**

i. Attended a Webinar on *Ka Jinglong Kyrpang U Khasi kum ka Jaitbynriew* organised by Khasi Authors' Society, Shillong held on the 11<sup>th</sup> September, 2021.

ii. Attended a One-Day National Level Panel Discussion on *National Education Policy (NEP) 2020* organised by the North-Eastern Hill University Teachers Association (NEHUTA), North-Eastern Hill University (NEHU), Shillong in collaboration with the Department of Education, NEHU, Shillong held on the 14<sup>th</sup> September, 2021.

iii. Attended a One-Day Webinar on *Ka Rukom Pyndonkam ia ki Dak Thoh Khasi (Khasi Orthography)* organised by the Department of Khasi, North-Eastern Hill University, Shillong.

iv. Attended and completed the Refresher Course in Indian Languages, Literature & Cultural Studies (Interdisciplinary), UGC-Human Resource Development Centre, Jawaharlal Nehru University, Delhi, held from February 14<sup>th</sup> to 26<sup>th</sup>, 2022.

#### **Dr. M. M. Khyndeit:**

i. Attended and completed the Refresher Course in Indian Languages, Literature and Cultural Studies (Interdisciplinary), UGC – Human Resource Development Centre, Jawaharlal Nehru University, held from February 14<sup>th</sup> to 26<sup>th</sup> 2022.

ii. Attended and presented a paper entitled *Moving beyond boundaries: The dynamicity of Khasi Phawar* in the National Seminar on *Tribal Culture and Philosophy in Oral Narratives* organized by the Department of Contemporary and Tribal Customary Law, Central University of Jharkhand, Ranchi, Jharkhand held from March 28<sup>th</sup> to 30<sup>th</sup>, 2022.

#### **Publications:**

##### ***Published in India:***

Prof. A. Kharmalki:

Kharmalki, A. (2021). *Ka Ktien kmie: Ka Jingpynroi ia ka. Ka Thwet Jingstad (Quest for Knowledge)* V (1): 1-4.

##### **Prof. D. R. L. Nonglait:**

i. Nonglait, D.R.L. (2022). *Ka thymmei u Thomas Jones bad u synñiang jong u sha ka litereshor Khasi. Thomas Jones Secondary Pyndengrei Golden Jubilee Souvenir (1972-2022)*, Nongstoin, 2022.

ii. Nonglait, D.R.L. (2021). *Thomas Jones and his contribution to the emergence of written*

Khasi literature in *Ka Thup Sah Kynmaw Nongsawlia Presbyterian Church Souvenir (1846-2021)*, published by Nongsawlia Presbyterian Church, Nongsawlia, 2021.

iii. Nonglait, D.R.L. (2022). *Ka Jinglong Kyrpang ka jaitbynriew Khasi in Golden Jubilee Celebration Souvenir (1972-2022)*, published by Balang Presbyterian Mawlaisyiem, 2022.

#### Dr. B. Bairo:

i. Bairo, Bandarilin. (2021). *Ka Allegory Ha ka khana lyngkot Ka Dur Bula jong ka Jingiap Saw Haiñ. Ka Thwet Jingstad (Quest for Knowledge)*, V (1): 36-39.

ii. Bairo, Bandarilin. (2021). *Alienation in S.J.Duncan's Short story U Men Mali. Ka Thwet Jingstad (Quest for Knowledge)*, V (1):72-76.

#### Dr. M. M. Khyndeit:

i. Khyndeit, Marbhador M. (2021). *Ka jingsngewthuh u myllung Kynpham Sing Nongkynrih snaphang ka poitri. Ka Thwet Jingstad (Quest for Knowledge)* V(1):21-26.

ii. Khyndeit, Marbhador M. . (2021). *U Soso Tham kum u nongkysiew thiah ia ka jaitbynriew. Ka Thwet Jingstad (Quest for Knowledge)* V(1):27-31.

#### (ii) Books

#### Prof. B. War:

War, B. (2021). *Ha Ki Thapniang Ka Por* (Ka Thup Poitri). Ri-ia-dor, Shillong, ISBN:978-81-927796-2-

#### Prof. S. Dkhar:

i. Dkhar, S. (2022) *Ki Mawjam Ka Jingim* (Ki Poitri Khasi) - *A collection of Khasi Poems*. ESES PLUS Publications, Shillong, ISBN- 978-81-927797-6-1.

#### (iii) Book Chapters.

i. Dkhar, Streamlet (2022) *Poetry Conclave, A Year Book 2022*, “A Hopeful Survivor” and “A Lineage Being Questioned” Published by Author Press, ISBN No. 978-93-5529-319-0 (pp. 129-130)

#### (iv) Book forewords

i. Dkhar, Streamlet. Foreword on the book (2021) *Ki Sur Na Shlem Ka Dohnud*, "Ka Lamphang" authored by Evanisha Pathaw, published by Dept of Arts and Culture, Govt of Meghalaya. (pp. 4-6).

ii. Dkhar, Streamlet. Foreword on the book (2021) *Maa Ki Anmol Ratna*, "A Word or two from Me" authored by Jean S. Dkhar, published by Sarvabhasha Trust, Uttam Nagar, New Delhi, ISBN No. 978-93-91414-21-4 (pp. i-ii).

### Funds Received during the current Year

#### (A) Bulk Grant to Department/Centre/Section etc. other than EMR grant

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	2.60
02	UGC (SAP, CAS, Seminar etc.)	
03	DST (FIST, PURSE, Seminar etc.)	
04	NEC (program name)	
05	Others	

#### (B) EMR Research Projects to individual faculty members

Title of Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of Investigator (PI/Co-PI)	Multi/Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Translation of "The Story of Lala", by Sergio Scapagnini Rs. 50,000/-	Completed	Prof. S.Dkhar (PI)	Single (2019-2022)	Self	

## **Honours/Awards/Recognition/Membership/Fellowship**

### **Prof. B. War:**

- i. Awarded the Padma Shri for Literature and Education 2022 by the President of India.

### **Prof. S. Dkhar:**

- i. Awarded an **Award of Appreciation** for an exemplary contribution to Poetry, Art and Literature by the Rotary Club, Orchid City in its function celebrating International Women's Day 2022, held on 8<sup>th</sup> March 2022 at Hotel Polo Towers, Shillong.
- i. Member of the State level Authorisation Committee in matters relating to Organ Transplant, notified by the Directorate of Health Services (MI), Meghalaya, vide No. HSM/T/ST/61/2020/29259 dated Shillong 28/10/2021
- ii. Nominated as state Incharge of All India Tribal Literary Forum from North East Socio Cultural Group belonging to Khasi/language community from Meghalaya State
- iii. Board of editors of the International Journal of Humanities and Social Sciences. Punjabi Khurja, Uttar Pradesh, India
- iv. Member of Executive Committee, Khasi Authors' Society
- v. Member Editorial Board of *Ka Thwet Jingstad* (Quest for Knowledge), a research journal with ISSN accreditation published by the Society for Khasi Studies, Shillong
- v. President, Managing Committee, Kelian Memorial School, Dhanketi, Shillong
- vi. President, Ka Thiar Lyngwiar Dpei Society, A registered Society for preservation of Khasi language and culture, Golflinks Shillong
- vii. Chairperson AIPC, National 2021-22

### **Prof. D. R. L. Nonglait:**

- i. President, Khasi Authors' Society, Shillong.
- ii. Secretary, Tribal Literary Forum of India, Shillong.
- iii. Chairman, Publication Committee, Khasi Authors' Society, Shillong.
- iv. Member, Editorial Board of *Ka Thwet Jingstad* (Quest for Knowledge) a journal published by Society for Khasi Studies, Shillong.
- v. Member, Editorial Board of *Ka Thiar Ki Nongthoh*, a journal published by Khasi Authors' Society, Shillong.
- vi. Member, Editorial Board of *Ka Syngkhong Jingtip*, a journal published by Khasi Authors' Society, Shillong.

- vii. President, Managing Committee, Nongshillong Secondary School, Nongshillong.
- viii. President, Managing Committee, Mid Changdong Secondary School, Lawbyrtun.
- ix. Secretary, Managing Committee, Wisdom Secondary School, Pariong.

## **Other Activities**

### **Prof. B. War:**

- i. Member of the Consultative Meeting of AA Experts for the Orthographic Project, Central Institute of Indian Languages, Mysore
- ii. Member, Linguistics Association of Great Britain, United Kingdom
- iii. Member, Transactions of Philological Society, United Kingdom
- iv. Guest of Honour and delivered a speech on "Khasi Lexicography" at the launching programme of a Learner's Khasi Dictionary with English Khasi Index compiled and edited by V. V. Joseph, SDB, St. Anthony's College, Shillong on the 30<sup>th</sup> October 2021.
- v. Resource Person in the Refresher Course "Development of Khasi Language and Literature" organized by the Department of Khasi, North-Eastern Hill University, Shillong on the 15<sup>th</sup> 17<sup>th</sup> 24<sup>th</sup> and 30<sup>th</sup> November, 2021.
- vi. Chief Guest and delivered a speech on Importance of Dialect Variation at the Book Release "Ka Jingsiapher Ktien hapteng ka Ktien ka Ktien Pdeng bad ka Ktien Nongstoin" by Dorismelincy Byrsat, Nongstoin, West Khasi Hills on the 11<sup>th</sup> December, 2021.
- vii. Resource Person and delivered a lecture "Introduction to Khasi Language" in the Orientation Programme for IAS (P) of 2020 Batch Assam-Meghalaya Cadre conducted by the Meghalaya Administrative Training Institute, Government of Meghalaya, Shillong on the 19<sup>th</sup> January 2022.
- viii. Attended the Investiture Function for Padma Awards at Rashtrapati Bhavan, New Delhi on the 21<sup>st</sup> March 2022.

### **Prof. S. Dkhar:**

- i. Attended the webinar on The Publishing Process: The Complete Journey of an article held on 21st September, 2021 organised by Wiley Team Link: [https://bit.ly/OA\\_Workshop](https://bit.ly/OA_Workshop)
- ii. Attended the National Webinar on the theme "Sacred Groves: Tradition meets Nature, held on 22nd October, 2021 organised by EBSB Committee, Lady Keane College, Shillong.
- iii. Chief Guest of the inaugural function of the Refresher Course on "Tribal Studies" through

blended mode organised by UGC-HRDC, NEHU on 1st November, 2021 at 10 a.m. at the conference room of HRDC, NEHU

iv. Panelist in the panel discussion on "U Synñiang jong U Pahep Rabon Sing sha ka Thoh ka Tar Khasi" as part of the celebration of "Rabon Sing Kharsuka 111th Death Anniversary" held in blended mode on 16th November 2021 at Synod College Auditorium, Shillong, organised by the School of Humanities, NEHU, Shillong, Eldora Lyngdoh, Secretary organising committee in Collaboration with Ka Thiar Lyngwiar Dpei Society and Department of Khasi, Synod College Shillong. Link: Live streaming <https://youtu.be/b4-RxzsYWPU>

v. Chaired the 3rd technical session of the NCW Sponsored Online on "Capacity Building and Personality Development Program (PDP) for UG and PG female students of Meghalaya" held on 24th November, 2021. organised by the School of Humanities & ICC, NEHU, Meeting ID: 4429672307 Passcode:803696 Link: <https://zoom.us/j/4429672307?pwd=UjZWNR CdEdjQkMwVVhLMnVQWHNEdz09E>

vi. Chaired the valedictory session and gave a remark on the Refresher Course in Khasi held on 30th November 2021 organised by Khasi Department, NEHU at HRDC NEHU.

vii. Participated in the online Quiz on "Indian Republic Day 2022" held on 25th January, 2022. Link: <https://forms.gle/emaVpLdbEsmf9JD29> jointly organised by Department of Philosophy and IQAC, Moran College, (affiliated to Dibrugarh University), Moranhat Assam, India and Department of Education and IQAC, NEHU, Shillong Meghalaya, India.

viii. Chaired the interactive session of eminent writers in the International Webinar on the occasion of the 17th Annual Manipuri Sahitya Parishad Meghalaya held online and live streaming on 5th March, 2022 and also shared the history of Khasi language and literature with a poetry reading; organised by Manipuri Sahitya Parishad Meghalaya and Phunga heritage, Shillong at Manipuri Bhavan, near Shillong College. Link: <https://khutsem.fyi/day1online>

ix. Special Guest in the function of Celebration of International Women's Day Celebration 2022, Shared the successful story to inspire and motivate other women held on 8/8/22 at the office of the Postmaster, NE Circle Shillong, organised by the Chief Postmaster General, NE Circle Shillong at 2.30 p.m.

x. Attended in the Award ceremony of the Rotary Club Orchid City on the occasion of

International Women's Day Celebration 2022, shared experiences of the journey in writings held on 8th March 2022 at Hotel Polo Towers, Shillong at 7.p.m.

xi. Attended the Live streaming on "Arts Alive: The Art, The Artist and The Times" held on 11/4/2021 at 4:00 p.m. organised by Creative Arts Academy through FB Live@tcacalcutta.

xii. Attended the Live streaming on "Reimagining Museums-Mapping the Future" held on 16/4/2021 at 6-7:00 p.m. organised by WICCI Karnataka Arts Leadership Council, "through

<https://www.facebook.com/WICCIArtsleadershipcouncil/>

xiii. Attended the Live streaming as the President of WICCI, Meghalaya Chapter on "Revisiting Site: Understanding gender in the Heritage Sites" to celebrate World Heritage Day with Prof Amereshwar galla, UNESCO Chair on Inclusive Museums and Sustainable Heritage Development in conversation with Reena Dewan, President West Bengal Art Leadership Council and Director, Kolkata Centre for Creativity held on 18/4/2021, organised by WICCI Arts Leadership Council, in collaboration with West Bengal Art Leadership Council from 12 noon onwards through <https://www.facebook.com/WICCIArtsleadershipcouncil/>

xiv. Attended the Live streaming International Webinar through zoom meeting as the President of WICCI, Meghalaya Chapter on "Artful Healing" held on 13/5/2021 at 6-7:00 p.m. organised by WICCI Arts Leadership Council, link <https://us02web.zoom.us/j/87313560306?pwd=cUE2NzA1SHVOL2ITS05qMG85Sy8zZz09> with passcode 816293 Meeting ID: 87313560306

xv. Attended a Zoom Webinar on "Virtual Discussion on Covid-19 Pandemic" held on 15/5/21, organised by Meghalaya Scout Guide Fellowship. Link <https://us02web.zoom.us/j/82032653009?pwd=UlhQzEOWk1qQ3YrY3pWTStlYWdyUI09> Passcode 117380 Webinar ID 82032653009

xvi. Attended the Live streaming Webinar on "Stress, Pursuit of Happiness and Surge in Substance use among youths" held on 29th May 2021, organised by Meghalaya Scout Guide Fellowship in collaboration with Assam Don Bosco University. Link <http://bit.ly/pursuitofhappinesstoday>

xvii. Attended the Webinar on the occasion of Thomas Jones Day held through Zoom on

22/6/2021 organised by Khasi Authors' Society. Link

<https://us02web.zoom.us/j/89464048135?pwd=K2JqMklIM1dwSkdaZWlUMCtPZXZJdz09meetingID89464048135PassCode12345>

xviii. Attended the zoom meeting on "Online Arts exhibition" held on 3/7/21 at 11:00 a.m. as the President of WICCI, Meghalaya Chapter Link:

<https://us02web.zoom.us/j/89756736985?pwd=MElrVWE50WIGMIUvckRBcnQ2UUUrUT09MeetingID:89756736985Passcode:669776>

xix. Attended the official meeting of the All India Tribal Literary Forum, Representing Khasi language through Google Meet on 4th July 2021 link: <https://meet.google.com/jejt-nhby-cog> organised by Rabindra Nath Murmu, General Secretary, All India Santali Writers' Association.

xx. Attended as the President of WICCI, Meghalaya Chapter the Cloud HD Video Meeting of all State Presidents of WICCI on 6th July 2021 at 7pm organised by the Beena President WICCI Link:

<https://us02web.zoom.us/j/82553713411?pwd=QmQwOWtobjVnb0RzcC5vS3BybVpFZz09>

xxi. Attended the virtual event Commemorating the legendary freedom fighter U Tirot Sing From Meghalaya on his Death Anniversary held on 17/7/21 at 4 p.m. organised by Sangeet Natak Akademi, New Delhi, NEZCC, Dimapur via FB Live and Utube

xxii. Participated in the celebration of 186th Year of Tirot Sing, "U Tirot Sing Inspiring generations" organised by State ABVP, Meghalaya. Link: <https://meet.google.com/dbe-bkh-nza>

xxiii. Chaired the Book launch entitled The Dual Merit Holders: How to Create and Write Your Own Success authored by Dr. Esther June E. Shongwan held on 23/7/2021 at Me-Ba-Ai Complex, Golflinks

xxiv. Participated in the 2day workshop on the theme Teacher Education-Paradigm Shift related to structure and programme: NEP 2020 and Global Perspective held on 24-25/7/2021 through Cisco Webex: Link: <https://.Webex.com/.istem/j.php?MTID=M750C2A32bdfc21d9009d6960cdceOfca> & <https://.Webex.com/.istem/j.php?MTID=mc9ad826c7481ce7dbd5b7c58f96c697b>

xxv. Participated as the President of WICCI, Meghalaya Chapter in the Webinar on Access to Livelihood, art and Culture for persons with Disabilities through Google Meet held on 31/7/21 from 12:00 to 1:30 organised by

WICCI, Assam Arts Leadership Council, link: <https://meet.google.com/qwf-nwpz-nmj>

xxvi. Participated in the one day international workshop on Open Educational Resources(OER and Massive Open Online Courses (MOOCs)for Reflective Learning held on 2nd August 2021 through online mode; organised by Department of Philosophy, Moran College, Moranhat Assam, India & State College of Teacher Education(SCTE) in collaboration with NEHU, Shillong. Link: <https://isetem.webex.com/istem/j.php?MTID=m1fee286b6733af46102c7187fc5206ca> Meeting No: 1595614024 Password: WRanFE9VJ27

xxvii. Participated in the online International Interactive Sessions on Breaking Paradigms, Indigenous Women Transforming Power at Different levels as preparation for the 2nd World Indigenous Women Conference held on 6/8/21 at 9:30 IST. organised by Maria Manuela Sequein, Secretary Guardian s of development. Link: [www.fimi-iiwf.org](http://www.fimi-iiwf.org)

<https://worldconferenceiw.org/>, at 9:30a.m. IST organised by Maria Manuela Sequeira M. Linking and Strategic Partnerships, Officer International Indigenous Women's Forum / FIMI

xxviii. Participated in the Cloud HD Video meeting as the President of WICCI, Meghalaya Chapter on "Launch of Tamilnadu Arts & Leadership Council " held on 6/8/2021 at 2:00 p.m. organised by Priyamvadha M in collaboration with WICCI, Arts Leadership Council, link <https://us02web.zoom.us/j/84962193877?pwd=U1J3dWxndjY1bHdlU2ltNGJ2aml4UT09> Meeting ID: 84962193877 with passcode 526121

xxix. Participated in the national preparatory meeting of the Volunteers of 2WCIW held on 6/8/21 at 7:00 p.m. organised by International Women India Network (IWIN), New Delhi Link: <https://us04web.zoom.us/j/4549614014?pwd=Zlh5ZXk0N3I1UHpEQhmZDZPVmRoQT09> Meeting ID: 4549614014 with passcode 8XSy7u

xxx. Participated in the 27th International Day of World's Indigenous People (IDWIP) Day 1 on August 7th 2021 from 6:00 p.m. through Cloud HD Video Meeting.organised by India Indigenous peoples Link: <https://us02web.zoom.us/j/89969119661?pwd=RG0zR2FWazUxd3hQQytCL2tQa3oQT09>. Meeting ID: 89969119661 Passcode:222018

xxxi. Participated in the International workshop on "Youth Empowerment for Better Society" held on 12/8/21 from 10-1 p.m.



organised by Centre for extension Studies, SVU, Tirupathy, Andhra Pradesh in collaboration with School of Education NEHU, Shillong. Link: <https://isetem.webex.com/istem/j.php?MTID=m1f62be4017e20601882e3bf18d743b1e0>

xxxii. Participated in the Day 1 of International 2nd World Conference of the Indigenous Women 2021 on the theme Paths taken and our realities from 8:a.m. Peru i.e. 6:30 p.m. IST Link: <https://intranet.worldconferenceiw.org/> Usuario i.e. user name: FimiVisitor2 Clave i.e password: ZP#9xHqZHb#V9j#4ysE0FRj)^ and also see link:

[https://www.facebook.com/watch/live/?v=674073710215781&ref=watch\\_permalink](https://www.facebook.com/watch/live/?v=674073710215781&ref=watch_permalink)

xxxiii. Participated in the online International Interactive Sessions on "Decision Making Space" from (7.p.m. Peru i.e 7:30 am IST Link: <https://intranet.worldconferenceiw.org/> Usuario: FimiVisitor2 Clave:

H9(NY@oIKJpLhES@EspFj) & 3

xxxiv. Participated in the Wiley Webinar series 1 on "Presenting numbers and quantities with precision and style" held on 17/8/21 at 3:00-4:30 p.m. via registration <https://bit.ly/3yCtUzx>

xxxv. Participated in the Day 2 of International 2nd World Conference of the Indigenous Women 2021 on the theme "Nothing about us, without us" from 8:am Peru i.e. 6:30 p.m. IST Link: <https://intranet.worldconferenceiw.org/> Usuario: FimiVisitor2 Clave:

H9NY@oIKJpLhES@EspFj)&3

xxxvi. Participated in the online International Interactive Sessions of the 2nd World Indigenous Women Conference on "UNDRIP, UNPFII recommendations and Final Document of the World Conference on Indigenous people" held on 20/8/21 at 8:30 p.m. IST. organised by Maria Manuela Sequeira M. Linking and Strategic Partnerships, Officer International Indigenous Women's Forum / FIMI Link: <https://us06web.zoom/j/82216523729> [worldconferenceiw.org/](https://intranet.worldconferenceiw.org/).

xxxviii. Participated in the online International Interactive Sessions of the 2nd World Indigenous Women Conference on "CEDAW: General recommendations on the Rights of Indigenous Women" organised by Maria Manuela Sequeira M. Linking and Strategic Partnerships, Officer International Indigenous Women's Forum / FIMI held on 20/8/21 at 7:30 a.m. IST. Link: <https://us06web.zoom/j/88381839125> [worldconferenceiw.org/](https://intranet.worldconferenceiw.org/).

xxxix. Participated in the Day 3 of International 2nd World Conference of the Indigenous Women 2021 a Plenary session on the theme Looking at and recognising ourselves from our own Perspectives" from 8:am Peru i.e. 6:30 p.m. IST Link: <https://intranet.worldconferenceiw.org/> User name: [s.dkhar@rediffmail.com](mailto:s.dkhar@rediffmail.com)

**Password: bcqydRKq** and also see link: [facebook.com/FIMI International Indigenous Women's Forum organised by Maria Manuela Sequeira M. Linking and Strategic Partnerships, Officer International Indigenous Women's Forum / FIMI](https://www.facebook.com/FIMI-International-Indigenous-Women's-Forum-organised-by-Maria-Manuela-Sequeira-M.-Linking-and-Strategic-Partnerships-Officer-International-Indigenous-Women's-Forum-FIMI/)

xl. Participated in the online International Interactive Sessions of the 2nd World Indigenous Women Conference on "Indigenous Women, Feminism and Identity" on 26/8/21 at 8:45 p.m. IST Link: <https://us06web.zoom.us/j/86289803810>

organised by Maria Manuela Sequeira M. Linking and Strategic Partnerships, Officer International Indigenous Women's Forum / FIMI

xli. Participated in the online Plenary Session of the 2nd World Indigenous Women Conference on on the theme Looking at and recognising ourselves from our own Perspectives held on 27/8/21 from 7:30 a.m. IST. User name: [s.dkhar@rediffmail.com](mailto:s.dkhar@rediffmail.com) **Password: bcqydRKq** and also see link: [facebook.com/FIMIInternationalIndigenousWomensForum organised by Maria Manuela Sequeira M. Linking and Strategic Partnerships, Officer International Indigenous Women's Forum / FIMI](https://www.facebook.com/FIMIInternationalIndigenousWomensForum-organised-by-Maria-Manuela-Sequeira-M.-Linking-and-Strategic-Partnerships-Officer-International-Indigenous-Women's-Forum-FIMI/)

xlii. Participated in the International Interactive Sessions on "Intersectionality: a look at Indigenous Women with Disabilities" on 27/8/21 at 9:30a.m. IST . Link: <https://us06web.zoom/j/82572072362> organised by Maria Manuela Sequeira M. Linking and Strategic Partnerships, Officer International Indigenous Women's Forum / FIMI

xliii. Participated in the International workshop on "Innovative Ways to enhance Physical Health and Mental Health in Covid-19 Pandemic" on the occasion of National Sports Day held on 29/8/21 from 10:00 a.m. -1:00 p.m. organised by Sports Department, NEHU, Shillong and Placement and Counselling Cell NEHU, Tura Campus in collaboration with School of Education NEHU, Shillong. Link: <https://isetem.webex.com/istem/j.php?MTID=m e767a0d90bbe8ddc0b2086d5b6240886>

xliv. Participated in the International Webinar on "The Power of Indigenous Women's

Resilience: Standing Up for a Life Free of Violence" as part of the 2nd World Conference of Indigenous Women. Link : <https://bit.ly/3mEILR> held on 31st August 2021 at 7:00 am Peru (5:30 p.m.IST) organised by Maria Manuela Sequeira M. Linking and Strategic Partnerships, Officer International Indigenous Women's Forum / FIMI

xliv. Attended a one-week Faculty Development Programme (FDP) on "Innovative Techniques for Professional Development of Teachers in Higher Education" 21 through Cisco Webex from 10 am. to 1p.m. Link: Organised by the Department of Education, North-Eastern Hill University, Shillong, Meghalaya India in collaboration with the Department of Philosophy, Moran College , Moranhat, Charaideo Dist. Assam.

xlvi. Participated in the closing Plenary Sessions of the 2nd World Indigenous Women Conference on "Building our Agenda by Consensus" Link: <https://us06web.zoom/j/83440918487> held on 2nd September 2021 at 7:00 am Peru (5:30 p.m.IST) organised by FUDECO, FIMI/AINY

xlvii. Attended the ICSSR-NERC Sponsored One-Day International Workshop on "Professional Development of Teachers in Higher Education: NEP 2020" held on 5<sup>th</sup> September 21 through Cisco Webex Link: Organised by the Department of Education, North-Eastern Hill University, Shillong, Meghalaya India in collaboration with the Department of Philosophy, Moran College , Moranhat, Charaideo Dist. Assam.

xlviii. Attended the Panel Discussion on "Public Spaces and Public Perspectives: Arts Exhibitions as Powerful Community tools" held on 6/9/21 from 7:00 pm through zoom link: organised by FICCI, Kerala.

xlvi. Attended the International Conference on "Continuing Professional Development of Teachers in Digital World" held on 6 & 7 September 21 through Cisco Webex from 10 am. to 1p.m. Link: <https://istem.webex.com/istem/j.php?MTID=maf36da20139c3fc5318250f6b330e896> Organised by the Department of Education, North-Eastern Hill University, Shillong, Meghalaya India in collaboration with the Department of Philosophy, Moran College , Moranhat, Charaideo Dist. Assam.

l. Attended the Webinar on "Winning the Game of Publishing Research Papers raising your profile, and extending the Ompact of your

Publications" through registered Zoom held on 7/9/21 organised by WILEY Team.

li. Attended the Webinar on "Artisan Women Empowerment held through Zoom and Facebook Live from 7:00 pm. Link: <https://streamyard.com/69cgtaicg9>. organised by WICCI, West Bengal

lii. Attended the Webinar on "Attracting Grants and Funds for Research" through registered Zoom held on 14/9/21 organised by WILEY Team.

liii. Attended the Webinar on "Publishing Process: Complete Journey of an Article" through registered Zoom held on 21/9/21 organised by WILEY Team.

liv. Attended the 3rd International Workshop on "Philosophical way of life and Reflective Listening Skills" held on 16th October through Cisco Webex from 9.30 am. to 12.30 p.m Jointly organised by Department of Education, and IQAC, NEHU, in collaboration with the Department of Philosophy, Tripura University, Tripura and College od Education Nagao, Assam, Link: <https://istem.webex.com/istem/j.php?MTID=mf64a0810516c10c6484a8325a872>

lv. Three poems were read out in absentia in the Krokajhar Literary Festival, 2021 representing Khasi language held on 14th November, 2021 .

lvi. Attended the International workshop on "Learning Online: Searching and Researching" held on 19th November 21 through Cisco Webex from 10 am. to 1p.m. Link: <https://forms.gle/Kgb41GKyc5fCMVoP6>.

Organised by IQAC, NEHU, Indian Society for Training and Development (ISTD) in collaboration with the Department of Philosophy, IQAC, Moran College, Moranhat, Charaideo Dist. Assam. and the Department of Philosophy, Shri Venkateswara Univ, Tirupati, AP.

lvii. Attended the 8th International workshop on "Research Questions, Objectives and Hypotheses" held on 31st December 21 through Cisco Webex from 2 pm. to 5p.m. Link: <https://istem.webex.com/istem/j.php?MTID=m65a2208b4625f51ed7d7d7fa57afde3e> Meeting Number 26432743808 Meeting Password mmTvdss2g42. Organised by IQAC, NEHU, Indian Society for Training and Development (ISTD) in collaboration with the Department of Philosophy & IQAC, Moran College, Moranhat, Charaideo Dist. Assam. and the Department of Philosophy, Shri Venkateswara Univ, Tirupati, Andhra Pradesh, India.

lviii. Chaired the book release function of 1). Maa Ki Anmol Ratan authored by Dr. Jean S. Dkhar and 2). Ki Matti Na La Rympei authored by Alfidarie Kharsyntiew Released by his Excellency, Shri Satya Pal Malik, Hon'ble Governor of Meghalay held on 28th January 2022 at Raj Bhavan, Shillong, organised by ESES Plus Publications, Shillong.

lix. Was a Guest in the "Shraddhanjali" A patriotic Musical evening dedicated to martyrs as part of Azadi ka Amrit Mahotsav held on 28/1/22 at Durbar Hall Raj Bhavan, Shillong organised by ICCR, Regional Centre in collaboration with the Department of Arts and Culture, Govt of Meghalaya.

lx. Attended the 30th Foundation Day of National Commission for Women on 31/1/2022 from 2:00-4:00 p.m. via online mode. Link: <https://ncw.webex.com/ncw/j.php?RGID=r2ac3e161c805329b5b86c3c5bbd91405>

lxi. Attended a program as the President, WICCI Meghalaya on 24th February 2022 at 6:30.p.m. onwards through cloud HD Meeting. Link <https://us02web.zoom.us/j/83369675374?pwd=UmV2Mmp2ZVhYeU1xRFg3VDc2Slh2dz09> Meeting ID 83369675374 Passcode: 117135 organised by Beena Unnikrishnan, President WICCI Arts Leadership Council and Vice president Ramanjit Kaur, Vice President.

#### **Prof. A. Kharmalki:**

i. Contributed to language translation of the projects in NEIGHRIMS.

ii. Contributed to language translations of the Government advisories for Covid 19.

Prof. D. R. L. Nonglait:

i. Delivered special talk on "U Tirot Sing" organised by Synod College, Shillong in collaboration with the Department of Arts and Culture, Government of Meghalaya on the 17<sup>th</sup> July, 2021.

ii. Delivered 3 (three) lectures in a Refresher Course in Khasi conducted by the Department of Khasi with the support of the UGC-Human Resource Development Centre, NEHU, Shillong w.e.f. 15<sup>th</sup> November to 30<sup>th</sup> November 2021 in online mode.

iii. Delivered 1 (one) lecture, in a Refresher Course in Tribal Studies conducted by the UGC-Human Resource Development Centre, NEHU, Shillong w.e.f. 1<sup>st</sup> November to 16<sup>th</sup> November 2021 in online mode.

#### **Dr. B. Bairo:**

i. Delivered a talk entitled "Ka Bor Iohi Ngai u Myllung Soso Tham" at AIR, Shillong, on the Death Anniversary of u Soso Tham, 18<sup>th</sup> December, 2021.

#### **Dr. M. M. Khyndeit:**

i. Delivered a lecture entitled "Ka Sohra, u Slap bad ka Poitri u K.S.Nongkynrih" in the Refresher Course in Khasi organized by UGC – Human Resource Development Centre, NEHU, Shillong held from November 15<sup>th</sup> to 30<sup>th</sup>, 2021.

### **SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022**

Details of Faculties	Name		1	Prof. B. War	Prof. S. Dkhar	Prof. A. Kharmalki
	Date of Joining		2	1st September 1983	25.07.1986	12th January, 1998
	Field of specialisation		3	Khasi Morphology, Phonology, Syntax, Semantics, Sociolinguistics Methods of Language Teaching, Literature in translation, Khasi Literature, Khasi Culture.	Khasi Drama, Khasi Culture, Khasi poetry.	Khasi Language and Linguistics, Language Teaching, Translation and Khasi Literature.
(A) Teaching	UG		4			
	PG, including PhD		5	39 years	36	24

Experience (in Years)						
(B) Research activities	Basic Research		6	2	2	2
	Applied Research		7	5		5
	Action Research		8			
	Project Submitted		9			
	Ongoing Project		10			
	Research Paper in UGC care list journals	Group I	11			
		Group II	12			
	Books /Books chapters Published	Books	13	1	1	
		Book Chapters	14		1	
	Popular Articles (News Paper/ Magazines)		15			
	Seminar / Conference/ Symposia organized	National	16		1	
		International	17		1	
	Seminar / Conference/ Symposia attended	National	18	3	13	
		International	19		4	
	Conference Proceedings		20			
	Consultancy		21			
(C) Patent	Applied		22			
	Published		23			
	Granted		24			
(D) E-Content	MOOC/SWAYAM/ E-content developed		25			
(E) Any Other	Teaching /Extension /outreach activities		26	MA Programme President, Managing Committees of Lower Primary School and Secondary School.		
	Responsibilities other than teaching		27	PhD Supervision	Yes	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	7		
	Collaborations	National	29			
		International	30			

Details of Faculties	Name		1	Prof. D.R.L. Nonglait	Dr. B. Bairo	Dr. M. M. Khyndeit
	Date of Joining		2	20th December, 2006	20th March, 2007	25th March 2009
	Field of specialisation		3	Literary Theory and Criticism, Postcolonial Literature in Khasi, Psychoanalytic studies in Khasi	Khasi Fiction, Archetypal Studies and Trauma Studies	Khasi Poetry, Stylistics and Ecocriticism

				Literary texts, Khasi fiction.		
(A) Teaching Experience (in Years)	UG		4			
	PG, including PhD		5	15 years	15	13
(B) Research activities	Basic Research		6		2	1
	Applied Research		7	3		
	Action Research		8			
	Project Submitted		9			
	Ongoing Project		10			
	Research Paper in UGC care list journals	Group I	11			
		Group II	12			
	Books /Books chapters Published	Books	13			
		Book Chapters	14		2	2
	Popular Articles (News Paper/ Magazines)		15	3		
	Seminar / Conference/ Symposia organized	National	16		1	
		International	17			
	Seminar / Conference/ Symposia attended	National	18	3	3	1
		International	19			
	Conference Proceedings		20	1		
	Consultancy		21			
(C) Patent	Applied		22			
	Published		23			
	Granted		24			
(D) E-Content	MOOC/SWAYAM/ E-content developed		25			
(E) Any Other	Teaching /Extension /outreach activities		26		Yes	Yes
	Responsibilities other than teaching		27	1	Yes	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	9		
	Collaborations	National	29			
		International	30			

## DEPARTMENT OF LINGUISTICS

**Head** : Prof. S.K Singh  
**Telephone** : 0364-2723310 (O), +91-09863279254 (M)  
**Email** : [hodling@nehu.ac.in](mailto:hodling@nehu.ac.in)  
**Faculty Profile:**

Designation	Name and Qualification	Specialization
Professor	Shailendra Kumar Singh, M.A (Linguistics) Delhi University; M.A. (Hindi) Karnataka State Open University, M.Phil and Ph.D (Linguistics), University of Hyderabad.	New Linguistics World Order, Alternative- Sociolinguistics Translation, Deep Multilingualism, North-East India Linguistics & Linguistics Landscaping.
Associate Professor	Saralin A. Lyngdoh, M.A. (Linguistics & English), NEHU, M.Phil (Linguistics), Delhi University, Ph.D (Linguistics), Delhi University.	Syntax, Morpho-Syntax, Structure of North-East Languages of India, Structure of Austro-Asiatic and Tibeto-Burman Languages, Typology, North-East India Linguistics.
Assistant Professor	BarikaKhyriem, M.A. (Linguistics), NEHU; M.Phil (Linguistics), Delhi University. PhD (Linguistics), NEHU	Phonetics & Phonology, Dialectology, Sociolinguistics, Austro-Asiatic and Tibeto-Burman Linguistics, North-East India Linguistics
	Bijoy L. Dhanwar, M.A. (Linguistics), NEHU, M.Phil. (Linguistics), University of Hyderabad. PhD (Linguistics), NEHU	Tibeto-Burman Linguistics, Typology, Syntax, Lexicography, Historical Linguistics.

### Thrust Areas of Research:

The thrust areas of Department include Tibeto-Burman and Austro-Asiatic languages of North-East India and North East Indian Linguistics. The Department has given more emphasis on Structural/Descriptive Linguistics of unexplored languages of North East India. The Department has facilitated research in Phonetics and Phonology, Morphology, Syntax, Semantics and Pragmatics, Lexicography, Computational Linguistics, Translation, Field Methods, Language Education, Ethnolinguistics, Sociolinguistics, Languages of North-East India and language Ideology to provide the students with a wide option for areas of linguistics.

### Brief Statement of Academic Activities and achievements:

The Department offers MA, and Ph.D programmes in Linguistics with emphasis on thrust areas. The Department admitted 45 students to its M.A. programme during the current year. 36 students successfully completed their M.A. Programme. The Department admitted 6 Ph.D research scholars. 1(One) scholar was awarded PhD degree during the year. The 3<sup>rd</sup> Semester Students have worked on Ao Language (Tibeto Burman), literature, translation and Media, which is part of M.A Research Program. The Department organized a **two day Workshop** on **'Field Linguistics'** on 15<sup>th</sup> -16<sup>th</sup> December 2021. During the academic session, the Department engaged two guest lecturers for teaching MA Courses. The research scholars participated in workshops and training programmes at universities/institutions and also presented papers. Research scholars regularly published papers in journals.

### Students' Profile

**Enrolment Capacity: M.A.32**

**PhD – Variable**

**Enrolment of students from different States of India and Abroad**

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
<b>M.A</b>														
<b>STATE(Name)</b>	M	F	M	F	M	F	M	F	M	F	M	F	M	F
<b>State 1 (Meghalaya)</b>			3	29										
<b>Total</b>													32	
<b>PhD</b>		1	1	4									1	5
<b>State 1 (Meghalaya)</b>				2										

State 2 (Assam)		1													
State 3 (Mizoram)				1											
State 4 (Manipur)			1	1											
Total														6	

### Degrees Awarded

**Degree: M.A./ Ph.D.**

### Degrees Awarded to students from different States of India and Abroad

STATE(Name)	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
M.A														
State 1 (Meghalaya)			4	18									4	18
State 2 (Mizoram)			1										1	
State 3 (Manipur)				5										5
State 4 (Nagaland)				6										6
State 5(Assam)		2												2
Sub Total													5	31
Total													36	
PhD														
State 1 (Meghalaya)			1										1	
Total													1	

### Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor
Rymphang K Rynjah	War Khasi and War Jaintia: A Comparative Syntactic Study”	Dr S.A.Lyngdoh

### Placement of Students

Name of the Student(s)	Name of the Programme	Post Held	Place of Work
Christina Kharlukhi	P.G TESOL (Teaching English Speakers of Other Languages)	Assistant professor	Sankardev College
Georginia Shallam		Assistant professor	Sankardev College
Naroti Jamir	State Council of Educational Research and Training	Research Associate	Kohima, Nagaland

### Students selected for Higher Studies:

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
Livadora L.Mawdkhap	PhD	Department of Linguistics, NEHU, Shillong	India
H. Kap Gin Lian	PhD	Department of Linguistics, NEHU, Shillong	India
Kasturi Borgohain	PhD	Department of Linguistics, NEHU, Shillong	India
Ngai Thianhoih	PhD	Department of Linguistics, NEHU, Shillong	India
Esther Malsawmkimi	PhD	Department of Linguistics, NEHU, Shillong	India

### Research Fellowship

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Other s
1		2 (ST)			

### Fieldwork/Educational Tour of Students

**Teacher-in-Charge:** Dr. S.A. Lyngdoh / Dr B. Khyriem

**Places/Institutions Visited:** Research conducted through Secondary data due to pandemic situation across the state.

**Duration of Tour (Dates and number of days):** Duration of the Research Conducted: December 2020 till 31<sup>st</sup> March 2021.

**Purpose of Tour:** Fieldwork Training and linguistic analysis. This is compulsory as it is part of the Curriculum in the M.A Programme.

**Courses Conducted:**

## ***Postgraduate***

### **M.A**

#### **Semester I:**

General Linguistics, Morphology, Syntax, Phonetics and Phonology, Introduction to Sociolinguistics

#### **Semester II:**

Typology of Indian Languages, Lexicology and Lexicography, Semantics and Pragmatics,

Advanced Syntax, Language and Mass Media

#### **Semester III:**

Linguistic Ecology of N.E India, Structure of Tibeto-Burman Languages, Research Program and Dissertation, Generative Phonology, Language Technology

#### **Semester IV:**

Advanced Sociolinguistics, Historical and Comparative Linguistics, Psycholinguistics and Neurolinguistics, Translation Theory, History and Practice, Language Conflict and Resolution Studies

#### **Ph.D Course Work:**

Research Methodology, Current Trends in Linguistics, Seminar Paper

#### **Seminars/Conferences/Workshops/Symposia/ Extension Programmes (National/International):**

##### ***Organized***

##### **B. Khyriem**

i. Organizing member of International Webinar on '*Language and Linguistics-I*' organized by the Department of Linguistics, Rajdhani College, University of Delhi on 30<sup>th</sup> November 2021.

##### ***Attended***

S. K. Singh

i. Delivered a talk on "Mother tongue/ L1: A dilemma " in a five day Training program entitled Capacity Building of Teachers on Multilingual Approach at NERIE from 07th - 11th February 2022.

ii. Delivered a talk on "Mother tongue and cognitive Development " in a five day Training program entitled Capacity Building of Teachers on Multilingual Approach at NERIE from 07th - 11th February 2022.

iii. Delivered a talk on "Language teaching and Learning" in a five day Training program entitled Training of Teachers on Teaching of Minor-Tribal Languages at NERIE from 31<sup>st</sup> of January to 4<sup>th</sup> of February, 2022

iv. Delivered a talk on "Language Acquisition and Language" in a five day Training program entitled Training of Teachers on Teaching of Minor-Tribal Languages at NERIE from 31<sup>st</sup> of January to 4<sup>th</sup> of February, 2022.

v. Presented paper on "Diversity, **Endangered Languages and Sustainability in North East India**" in **Indian Anthropological Congress organized by University of Hyderabad from 21st February 2022 to 23rd February 2022.**

vi. Presented paper on "Translation and Knowledge ecology in India" in National Seminar on Translation and Knowledge Texts in India: Post Independence Perspectives , organized by University of Hyderabad on 25-26th March, 2022.

vii. Chaired a session in the 1st International Conference of Tibeto-Burman Linguistics Association of North East India (ICTiBLANEI-1 from June 26-29, 2021.

viii. Deliver a theme paper on "Nav bhaarat ke nirmaaN men bhaartiiy bhaashaaon kii bhumikaa". In a National Webinar on naye bhaarat ke nirmaaN men bhaartiiy bhaashaaon kii bhumikaa.. Organized by Bhartiya bhasha aandolan ( mahila prkoth), Uttar Pradesh.

ix. Delivered an invited talk on "Linguistic Ecology of North East India" in the Faculty Development Programme on Language, Literature and culture, organized by the Centre for Naga Tribal Language Studies., Nagaland University from 10<sup>th</sup> -17<sup>th</sup> November, 2021.

x. Delivered a plenary talk on "Linguistic Habitat of Northeast India" in the International Webinar on Languages of Northeast India, organized by Department of Linguistics, Assam University, Silchar and Tibeto-Burman Linguistics Association of North East India (TiBLANEI) on 25th April, 2021.

xi. Delivered a talk as a Resource Person on "Overview of UGC MOOCs: Government of India Initiative" in a workshop on E-content Development, organized by UGC-HRDC, North-Eastern Hill University, Shillong on 25<sup>th</sup> Jan, 2022.

xii. Delivered a talk as a Resource Person on "Language Preferences of School Children in



North East India ” in a workshop on A Baseline Study of Language Preferences of School Students and Parents in North East” organized by North East Regional Institute of Education, Umiam, on 25<sup>th</sup> and 26<sup>th</sup> November, 2021.

xiii. Delivered a talk as a Resource person on “An Overview of MOOCs: Government of India Initiative” in the 8<sup>th</sup> Faculty Induction Program, organized by UGC-HRDC, North-Eastern Hill University, Shillong on from 2<sup>nd</sup> March to 31 March, 2022.

xiv. Delivered a talk as a Resource person on “Linguistic Diversity and Tribal Studies in North East India” in a Refresher Course in Tribal Studies, organized by UGC-HRDC, North-Eastern Hill University, Shillong on from 1<sup>st</sup> to 16<sup>th</sup> November, 2021.

xv. Delivered an Inaugural Lecture as a Chief Guest on: “MOOCs: Adoption, Development and Promotion” in a Workshop on “MOOCs, Online Courses and OER”, organized by UGC-HRDC, North-Eastern Hill University, Shillong on 2<sup>nd</sup> September, 2021.

xvi. Delivered a talk as a Resource Person on “Overview of UGC MOOCs: Government of India Initiative” in a workshop on MOOCs, Online Courses and OERs, organized by UGC-HRDC, North-Eastern Hill University, Shillong on 3<sup>rd</sup> August, 2021.

### **S. A. Lyngdoh:**

i. Delivered a talk on “Development and Promotion of Indigenous Languages” organized by Khasi Department, University of Science & Technology, Meghalaya on “International Language Day” on 21<sup>st</sup> February, 2021.

ii. Attended and completed the Refresher Course in Khasi on *Development of Khasi Language and Literature* organized by UGC-HRDC, NEHU and the Department of Khasi, NEHU, Shillong held from 15<sup>th</sup> to 30<sup>th</sup> November, 2021.

iii. Delivered 2 lectures on “Field Linguistics and Linguistic Structure” at the Training Program organized by the Department of Linguistics, NEHU, Shillong on 15<sup>th</sup> December 2021.

### **B. Khyriem:**

i. Delivered 3 lectures at the Refresher Course in Khasi organized by the Department of Khasi, NEHU, Shillong on the 15<sup>th</sup>, 17<sup>th</sup>, 25<sup>th</sup> November 2021.

ii. Delivered 1 lecture on “Introduction to Khasi Phonetics and Phonology” at Synod College, Shillong on 13<sup>th</sup> December 2021.

iii. Delivered 2 lectures on “Field Linguistics” at the Training Program organized by the

Department of Linguistics, NEHU, Shillong on 15<sup>th</sup> December 2021.

### **Publications**

#### ***Published in India***

#### **Prof. Shailendra Kumar Singh**

i. Singh, S. K, Dkhar, G. D & Shukla, P (2021). Visibility of Languages in the Urban Eco-Sphere: A case Study of Lucknow. *International Journal of Dravidian Linguistics*. Vol.50. No.2 June 2021. Pp 46-73.

ii. Singh, S. K (2021) bihaar ki bhaashaa paaristhitikii. *ANC Journal for Discourses in Humanities and Social Sciences*. Vol 1, Issue 1. Pp 64-70.

iii. Singh, S.K (2021) Chin ko Mirchi lagi to bharat kya kare. *Chaankya Vaartaa*. Pp.24-25

Dr. S. A. Lyngdoh

i. Misra.M, Lyngdoh, S., Khyriem, B. (2022). Morphological Analyses of Aesop’s Fables translated to Khasi Language. *Journal of Research in Humanities and Social Sciences*. 10 (3):27-41. ISSN(Online):2321-9467, [www.questjournals.org](http://www.questjournals.org)

Dr. B. Khyriem

i. Khyriem, B. (2021). Halor ki sawa ha ka ktien tnat Lyngngam. *Ka Thwet Jingstad*. V(1):5-16.

ii. Misra.M, Lyngdoh, S., Khyriem, B. (2022). Morphological Analyses of Aesop’s Fables translated to Khasi Language. *Journal of Research in Humanities and Social Sciences*. 10 (3):27-41. ISSN(Online):2321-9467, [www.questjournals.org](http://www.questjournals.org)

#### ***Published Abroad***

#### **Dr. S. A. Lyngdoh**

i. Warjri, S., Pakrey, P., Lyngdoh .S., Maji (2021). Part-of-speech (POS) tagging using conditional random field (CRF) model for Khasi corpora. *International Journal of Speech Technology* 24(3). DOI: [10.1007/s10772-021-09860-w](https://doi.org/10.1007/s10772-021-09860-w)

ii. Warjri, S., Pakrey, P., Lyngdoh .S., Maji (2021). Adopting Conditional Random Field

(CRF) for Khasi Part-of-Speech Tagging (KPOST), In book: Proceedings of the International Conference on Computing and Communication Systems, DOI: [10.1007/978-981-33-4084-8\\_8](https://doi.org/10.1007/978-981-33-4084-8_8)

## ii) Book Chapters

Prof. Shailendra Kumar Singh

i. Singh, S.K (2021). Aamukh: maa tujhe salam. In Jean, S. Dkhar, *maa ke anmol ratna*. New Delhi: Sarv Bhasha Trust,. Pp iii-viii

## iii) Proceedings of Seminar/Conferences:

**Dr. S. A. Lyngdoh**

i. Warjri, S., Pakrey, P., Lyngdoh .S., Maji (2021). **Adopting Conditional Random Field (CRF) for Khasi Part-of-Speech Tagging (KPOST)**, In book: Proceedings of the International Conference on Computing and Communication Systems. DOI: [10.1007/978-981-33-4084-8\\_8](https://doi.org/10.1007/978-981-33-4084-8_8)

## Funds Received during the current Year

### (A) Bulk Grant to Department/Centre/Section etc. other than EMR grant

Sl. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	2 lakhs
02	UGC (SAP, CAS, Seminar etc.)	-
03	DST (FIST, PURSE, Seminar etc.)	-
04	NEC (program name)	-
05	Others	-

### (B) EMR Research Projects to individual faculty members:

Title of Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of Investigator (PI/Co-PI)	Multi/Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Linguistic Mapping of Regional Dialect Khasi	Completed	Dr S.A.Lyngdoh (PI) Dr B.Khyriem (Co-PI)	Single	ICSSR-NER NEHU Campus Shillong	INR 1.50

## Other Activities:

Prof. S. K. Singh

- Member of Board of Post graduate Studies in Linguistics, Manipur University, Manipur.
- Member of Board of Undergraduate Studies in Linguistics, Nagaland University, Nagaland.
- Member of Board of Studies of Linguistics, Lucknow University, UP.
- Member of Board of Studies of Linguistics, ICAI, Tripura

**Dr. S. A. Lyngdoh**

- Member of Society of Endangered Languages
- Member of English Language Teachers' Association of India

## SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	Name		1	Shailendra Kumar Singh	Saralin.A. Lyngdoh	Barika Khyriem
	Date of Joining		2	02-01-2007	10/04/2002	19/12/2006
	Field of specialisation		3	Sociolinguistics, Translation, Indian Tradition of	Syntax, Morpho-Syntax, Structure of	Phonetics & Phonology, Dialectology, Sociolinguist

				linguistics, North-East India Linguistics, General Linguistics, Eco-linguistics	North-East Languages of India, Structure of Austro-Asiatic and Tibeto- Burman Languages, Typology, North-East India Linguistics.	ics, Austro- Asiatic and Tibeto- Burman Linguistics ,North-East India Linguistics
(A) Teaching Experience (in Years)	UG		4			
	PG, including PhD		5	20 Years	20 Years	15 years
(B) Research activities	Basic Research		6	1	1	1
	Applied Research		7			
	Action Research		8			
	Project Submitted		9		One	One
	Ongoing Project		10			
	Research Paper in UGC care list journals	Group I	11	2		
		Group II	12			
	Books /Books chapters Published	Books	13			
		Book Chapters	14	1		
	Popular Articles (News Paper/ Magazines)		15	6		
	Seminar / Conference/ Symposia organized	National	16	16		
		Internatio nal	17			1
	Seminar /Conference/ Symposia attended	National	18			
		Internatio nal	19			
	Conference Proceedings		20			
	Consultancy		21			
(C) Patent	Applied		22		Yes	
	Published		23			
	Granted		24			
(D) E-Content	MOOC/SWAYAM/ E-content developed		25			
(E) Any Other	Teaching /Extension / outreach activities		26	1.Linguistic Field work on AA and TB languages of North-East India 2. Documentation of languages through primary native speakers	Supervision of Field research on Tibeto- Burman Languages	Supervision of Field research on Tibeto- Burman Languages
	Responsibilities other than teaching		27	1.Head of the Department 2.Chairman, MOOCs 3.Members of MoU Committee	Member of Academic/ Administrative Responsibilitie s	Member of Academic/ Administrati ve Responsibilit ies

				4. Member of Annual Report		
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	1.Member of Board of Post graduate Studies in Linguistics, Manipur University 2. Member of Board of Undergraduate Studies in Linguistics, Nagaland University 3. Member of Board of Studies of Linguistics, Luknow University		
	Collaborations	National	29			
		International	30			

## DEPARTMENT OF PHILOSOPHY

**Head** : Prof. Xavier P Mao  
**Telephone** : 2723552  
**E-mail** : hodphi@nehu.com

### Faculty Profile:

Designation	Name and Qualification	Specialization
Professor	Vanlalnghak MA(NEHU) PhD(IIT Kanpur)	Philosophy of Culture, Moral Philosophy, Analytic Philosophy
	Xavier P Mao M.Phil(Delhi), M.Lett.(Sydney), PhD(NEHU)	Existentialism, Ethics
	Prasenjit Biswas MA & PhD(NEHU)	Phenomenology & Continental Philosophy, Philosophy of Mind, Philosophy of Tribes of NE India
Associate Professor	Basil Pohlong MA & PhD(NEHU)	Philosophy of Religion, Philosophical Anthropology, Philosophy of Culture, Ethics
Assistant Professor	Aribam Uttam Sharma MA(Manipur) PhD(NEHU)	Logic and Epistemology

### Thrust Areas of Research

Philosophy of Culture with special reference to the Tribal Thought of the North-Eastern Region.

### Students' Profile

**Enrolment Capacity: M.A- 69**

**PhD -Variable**

### Enrolment of students from different States of India and Abroad

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
MA														
Meghalaya	1		17	37									18	37
Manipur			1	3									1	3
Mizoram			2	2									2	2
Assam		4		1					1					5
Bihar		1												1
Sub Total	1	5	20	43	0	0	0	0	1	0	0	0	21	48
International														

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
PhD														
Meghalaya			1										1	
Mizoram				2										2
Manipur			1										1	
Assam		1												1
Sub Total	0	1	2	2	0	0	0	0	0	0	0	0	2	3
International USA													1	

### Degrees Awarded

**Degree: M.A.**

### Degrees Awarded to students from different States of India and Abroad

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	1	2	13	23									14	25
Manipur			3	3									3	3
Assam		1	1										1	1
Mizoram			4	1									4	1
Nagaland			2										2	

Sub Total	1	3	23	27	0	0	0	0	0	0	0	0	24	30
International														

### Ph.D. Degree Awarded

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya			1											
Manipur				1										
Assam			1											
Mizoram				1										
Nagaland														
Sub Total			2	2										
International														

### Funds Received during the current Year

#### (A) Bulk Grant to Department/Centre/Section etc. other than EMR grant

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	1.40
02	UGC (SAP, CAS, Seminar etc.)	
03	DST (FIST, PURSE, Seminar etc.)	
04	NEC (program name)	
05	Others	

### Students selected for Higher Studies:

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
Mr. Mac Rudolf Khylllep	PhD	NEHU	India
Ms. T. Bliss Singto	PhD	NEHU	India

### Research Fellowship

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	ICPR	NFSHS
6	23	1			3	1

### Courses Conducted: *Postgraduate*

**Semester- I:** Indian Metaphysics, Western Metaphysics, Symbolic Logic, Philosophy of Religion, Indian Philosophy of Language-I

**Semester- II:** Ethics & Environment, Indian Epistemology, Western Epistemology, Indian Moral Philosophy, Indian Philosophy of Language-II

**Semester – III:** Philosophy of Social sciences, Phenomenology & Existentialism, Philosophy of Post Modernism-I, Analytic Philosophy, Contemporary Philosophy of Religion

Tribal Thought and Culture

**Semester – IV:** Modernism & Responses, Philosophy of Culture, Philosophy of Post-Modernism-II, Western Moral Philosophy, Applied Ethics, Philosophy of Wittgenstein

### PhD Courses

Research Methodology, Seminar Paper, Philosophy of Culture & Religion

### Seminars/Conferences/Workshops/Symposia/ Extension Programmes (National/International):

#### *Organized*

#### **Dr. Aribam Uttam Sharma**

Co-organizer, *World Philosophy Day*, 22<sup>nd</sup> November, 2021, Department of Philosophy, NEHU, Shillong.

#### *Attended*

#### **Prof. Prasenjit Biswas**

Delivered a Lecture entitled, “Enhancing Professional Ethics through Teaching of Politics” at a Zoom Seminar at Global Ethics at St. Joseph College, Dimapur (on Zoom) on 16<sup>th</sup> March, 2022.

**Dr. Aribam Uttam Sharma**

Presented paper titled Humanities and Human Values in workshop on Value Education, October 22, 2021, organized by Department of Philosophy, Women's College, Shillong.

Panelist and Book reviewer, in the International Webinar on *Absolutism and Humanism*, 18<sup>th</sup> November, 2021, Organized by the Department of Philosophy, Lady Keane College, Shillong

**Publications****Published in India****Prof. Vanlalnghak**

Vanlalnghak (2021) "Culture and Religion" in Hmar Christian Church, Imphal, Manipur

Vanlalnghak (2022) "Education and Christianity" in Amazing Grace, Published by EFCl, Shillong, Meghalaya

**Prof. X P Mao**

Journal on Frontier Studies Vol.8, 2021-22, 'The Wild Pear Tree Speaks Naga Migration. One, Tribes of North-East India

**Prof. Prasenjit Biswas**

Prasenjit Biswas (2021). Jean Luc-Nancy: Death, Tenderness and Love of Life. *Deccan Herald*, September 6<sup>th</sup>.

**Dr. Basil Pohlong**

Pohlong B. (2021). Conceptualization of Khasi Worldview: A Philosophical Exploration, KaThwetJingstad (Quest for Knowledge), Vol.(1): 62-71.

Pohlong B. An Inquiry into Its Origin, Nature and Relevance in National Council of Church Review, Vol, CXLI, No-8. Sept 2021, p.393-403.

**Dr. Aribam Uttam Sharma**

Sharma, A.U.(2021). Pandemic Diary: Editor's Note. *Yendai*(Monsoon). Retrieved from <http://vendai.org/pandemicdiary/pandemic-diary-editors-note/>

**(c). Popular Articles (News Paper and Magazines)****Prof. Prasenjit Biswas**

Biswas, P (2021). Indian have Forgotten Sacrifices of Northeast for India's Freedom. *Freedom Gazette*, June 26<sup>th</sup>

Biswas, P (2021). Map is not the Territory. *Deccan Herald*, August 8<sup>th</sup>

Biswas, P (2021). India recognize your Mongoloid face and Own it. *Deccan Herald*, June 24<sup>th</sup>.

**SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022**

Details of Faculties	Name		1	Xavier Mao	Vanlalnghak	Prasenjit Biswas
	Date of Joining		2	27.9.1988	6.5.2002	2.8.2005
	Field of specialisation		3	Existentialism & Ethics	Philosophy of Culture, Ethics, Analytic Religion	Philosophy: Phenomenology and Continental Philosophy
(A) Teaching Experience (in Years)	UG		4	N.A		
	PG, including PhD		5	34	31	13
(B) Research activities	Basic Research		6	Phenomenology Social Works	Ethics and Analytic Philosophy, Tribal Philosophy	
	Applied Research		7			
	Action Research		8			
	Project Submitted		9			
	Ongoing Project		10			
	Research Paper in UGC care list journals	Group I	11			
		Group II	12			
	Books /Books	Books	13			

	chapters Published	Book Chapters	14	Tribes of North-East India		
	Popular Articles (News Paper/ Magazines)		15		2	3
	Seminar / Conference/ Symposia organized	National	16			
		International	17			
	Seminar / Conference/ Symposia attended	National	18	Visva Bharati University, 26-28 march, 2022, West Bengal	1	
		International	19			
	Conference Proceedings		20			
	Consultancy		21			
(C) Patent	Applied		22			
	Published		23			
	Granted		24			
(D) E-Content	MOOC/SWAYAM/ E-content developed		25			
(E) Any Other	Teaching /Extension /outreach activities		26		Delivered one lecture in HRDC, NEHU	
	Responsibilities other than teaching		27		Head and Dean	In-charge Office of International Affairs
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	NEHUTA & FEDCUTA President & Vice President, Member Governing Body, Asia & Africa Philosophical Society		
	Collaborations	National	29			
		International	30			

Details of Faculties	Name		1	Basil Pohlong	Aribam Uttam Sharma
	Date of Joining		2	6.5.2005	9.2.2010
	Field of specialisation		3	Philosophy of Culture, Ethics , Tribal Philosophy, Philosophy of Religion	Logic and Epistemology
(A) Teaching Experience (in Years)	UG		4	10	
	PG, including PhD		5	17	12
	Basic Research		6	Philosophy of Culture	
	Applied Research		7	Ethno Philosophy	



(B) Research activities	Action Research		8		
	Project Submitted		9		
	Ongoing Project		10		
	Research Paper in UGC care list journals	Group I	11	1	
		Group II	12	1(not care list)	
	Books /Books chapters Published	Books	13		
		Book Chapters	14		
	Popular Articles (News Paper/ Magazines)		15		1
	Seminar / Conference/ Symposia organized	National	16		1
		International	17		
	Seminar / Conference/ Symposia attended	National	18		1
		International	19		1
(C) Patent	Conference Proceedings		20		
	Consultancy		21		
	Applied		22		
(D) E-Content	Published		23		
	Granted		24		
(D) E-Content	MOOC/SWAYAM/ E-content developed		25		
(E) Any Other	Teaching /Extension /outreach activities		26	1 Lecture in Khasi Refresher's Course(15-31m March 2021	
	Responsibilities other than teaching		27		Warden, Hostel No.17 (Arbella Halls of Residence)
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28		
	Collaborations	National	29		
		International	30		

## IV

### SCHOOL OF HUMAN AND ENVIRONMENTAL SCIENCES

**Dean** : **Prof. Lucy. T. V. Zehol**  
**Telephone** : **0364-2723222**  
**E-mail** : **deanshes@nehu.ac.in**

#### 1. Vision and Mission of the School

**Vision:** To be inclusive of equity in diversity, and to contribute to the betterment and well-being of the nation in general and the North-East Region of India in particular.

**Mission:** To develop knowledge, values and skills with holistic multidisciplinary approach to understanding of human environment relationship as integrity of all knowledge, and to provide opportunities for students to develop critical insights and creativity thinking of the social and environmental challenges to human health and well-being.

#### 2. Name of the Departments/Centres under the School

Sl. No.	Name of the Department/Centre
a)	Anthropology
b)	Environmental Studies
c)	Forestry (Estb. 2019 & functional 2021)
d)	Geography
e)	Geology (Estb. 2019 & functional 2021)
f)	Horticulture
g)	Rural Development and Agriculture Production

#### 3. Salient Data of the School during the current year 2021-2022

Total No. of Students awarded Ph.D. Degree	Anthropology - 4 Environmental Studies - 2 Forestry - Nil Geography- 4 Geology - Nil Horticulture - Nil Rural Development and Agriculture Production - 6 Total 16
Total No. of Research Publications National	Anthropology - 10 Environmental Studies - 1 Forestry - Nil Geography - 8 Geology - Nil Horticulture - 6 Rural Development and Agriculture Production - 11 Total 36

International	Anthropology - 4 Environmental Studies- 3 Forestry - Nil Geography - 6 Geology - 3 Horticulture - Nil Rural Development and Agriculture Production - Nil
	Total 16
Total No. of Books, Book Chapters, and Proceedings National	Anthropology -13 Environmental Studies- Nil Forestry - Nil Geography - 4 Geology - Nil Horticulture - 5 Rural Development and Agriculture Production - 1
	Total 23
International	Anthropology - 2 Environmental Studies- Nil Forestry - Nil Geography - 1 Geology - Nil Horticulture - Nil Rural Development and Agriculture Production - Nil
	Total 3
Total No. of Research Projects (Fund Received in lakhs) Completed	Anthropology – 1 ( 8.52) Horticulture - 4 (0.7013)
	Total 5 (9.2213)
Ongoing	Anthropology- 1(18.44) EnvironmentalStudies-1 (2.0) Horticulture – 4 (Nil) Rural Development and Agriculture Production - 3 (339.08476)
	Total 9(357.52476)
New	Geography 1 (Nil) Horticulture 2 (69) Anthropology 1 (Nil)
	Total 4 (69)

#### **4. Major Achievements/Highlights during the period:**

##### **Academic Collaborations:**

##### **(i) National**

- a) Anthropology - 1
- b) Environmental Studies - 1
- c) Forestry - 1
- d) Geography - Nil
- e) Geology - 2
- f) Horticulture - 5
- g) Rural Development and Agriculture Production - 3

**Total = 13**

##### **(ii) International**

- a) Anthropology - 5
- b) Environmental Studies - 1
- c) Forestry - Nil
- d) Geography - 3
- e) Geology - 2
- f) Horticulture - Nil
- g) Rural Development and Agriculture Production - Nil

**Total = 11**

**Honours/Awards/Recognition/Membership/Fellowship:**

- a) Anthropology - 14
- b) Environmental Studies - Nil
- c) Forestry - Nil
- d) Geography - 7
- e) Geology - 2
- f) Horticulture - 3
- g) Rural Development and Agriculture Production - Nil

**Total = 26**

**Other Activities:**

- a) Anthropology - 22
- b) Environmental Studies - 8
- c) Forestry - Nil
- d) Geography - 24
- e) Geology - 8
- f) Horticulture - 7
- g) Rural Development and Agriculture Production - 8

**Total = 81**

**5.Future Plans:**

1. To integrate and consolidate the multidisciplinary nature of our School with different disciplines like Anthropology, Geography, Geology, Forestry, Environmental Studies, Horticulture, and Rural development.
2. To develop a holistic multidisciplinary approach within and outside the School, focusing on social and environmental challenges to human health and socio-economic development.
3. To give more emphasis on conceptual understanding and skill development among students by developing curricular and pedagogy that are more flexible, accessible and inclusive.
4. To formulate a course-structure that includes fieldwork and community services to expose students to the socio-economic issues and real-life problems not only for developing critical and creative thinking but also for being inclusive of equity in diversity at all levels of the society.

## DEPARTMENT OF ANTHROPOLOGY

**Head** : Prof. D. K. Limbu (upto 12<sup>th</sup> Oct 2021)  
 Prof. Geetika Ranjan (from 12<sup>th</sup> Oct 2021 till date)

**Telephone** : 0364-2723104 (O)/9436997824 (M)

**E-mail** : hodant@nehu.ac.in

### Faculty Profile

Designation	Name and Qualification	Specialization
Professor	Dr. T.B. Subba, M.Phil. & Ph.D. (N. Bengal)	Cultural Anthropology (Migration, Development, Diaspora)
	Dr. H.Lamin, M.Phil. & Ph.D. (NEHU)	Cultural Anthropology (Medical Anthropology and Economic Anthropology)
	Dr. R. Khongsdier, M.Phil. & Ph.D. (NEHU)	Biological Anthropology (Health and Nutrition, Demography and Population Genetics)
	Dr. L.T.V. Zehol, M.Phil. & Ph.D. (NEHU)	Cultural Anthropology (Ethnicity, Development, Anthropology of Women and Gender)
	Dr. D.K. Limbu, M.Phil. & Ph.D. (NEHU)	Biological Anthropology (Population Genetics, Dental Anthropology, Demography)
	Dr. G. Ranjan, M.A. & Ph.D. (Lucknow)	Cultural Anthropology (Tribal development, Ethnography, Literary Anthropology, Anthropology of Politics)
	Dr. B. Langstich, M.Sc. (NEHU), Ph.D. (ISI, Calcutta)	Biological Anthropology (Anthropo-genetics, Molecular Anthropology, Demography, Human Ecology, Aging, RCH)
	Dr. Q. Marak, M.A. (Gauhati Univ), Ph.D. (NEHU)	Archaeological Anthropology (Food Studies, Material Culture, Archaeology of Northeast India)
Associate Professor	Dr. V. Pakyntein, M.A. (NEHU), M.Phil. & Ph.D. (Delhi Univ)	Cultural Anthropology (Matrilineality, Gender Issues and Socio-Cultural Change)
	Dr. J.W. Dkhar, M.Phil. & Ph.D. (NEHU)	Biological Anthropology (Growth and Nutrition)
Assistant Professor	Dr. S. Ghosh, M.Sc. & Ph.D. (Delhi)	Biological Anthropology (Human Adaptation and Physiology)

### Thrust Areas of Research

The Department caters to teaching and research in the two broad branches of Anthropology – Social-Cultural Anthropology and Biological Anthropology with an almost equal strength of faculty specializing in these two major fields of anthropology. Anthropology is the study of human beings in totality and in light of this, the Department's mission is to contribute towards the betterment and well-being of society,

particularly North-East India, by carrying out researches on biological aspects (such as population genetics, human growth and nutrition, nutritional anthropometry, demography, reproductive and child health) and socio-cultural aspects (like identity and ethnicity, development, women and gender issues, ethno medicine, food, and socio-cultural change).

### Brief Statement of Academic Activities

The Department offers specialization in Cultural and Biological Anthropology with broad

orientation to Archaeology and Linguistic Anthropology. It enrolled thirty students for the M.A./M.Sc. programmes and eleven students for the Ph.D. programme during the current year. Thirty students completed their M.A./M.Sc. and four students were awarded the Ph.D. degree.

The Department undertook projects titled “The Stories of our Ancestors (Narrative retelling by the Nagas of North East India)” and “Revisiting the Life and Works of Verrier Elwin in North East India: Digital Preservation and Propagation

of Elwin’s Work” sponsored by the North Eastern Council. Another project is “G6PD Deficiency and its association with arterial hypertension among the Angami Naga of North-East India”, under the Department of Science and Technology, Government of India. Collaborative endeavours are being carried out with Université Libre de Bruxelles (Brussels, Belgium), Syracuse University (Syracuse, NY, USA) and University of Michigan (Michigan, USA).

### **Brief Statement of Academic Activities and Achievements**

#### **Students’ Profile**

**Enrolment Capacity: M.A./M.Sc. – 30; Ph.D. – Variable**

#### ***Enrolment of students in M.A./M.Sc.***

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	1	1	2	-	-	-	-	-	-	-	-	1	3
Nagaland	-	-	1	12	-	-	-	-	-	-	-	-	1	12
Mizoram	-	-	-	3	-	-	-	-	-	-	-	-	-	3
Assam	1	1	-	-	-	-	-	1	-	-	-	-	1	2
Manipur	1	-	-	3	-	-	-	-	-	-	-	-	1	3
Arunachal Pradesh	-	-	2	1	-	-	-	-	-	-	-	-	2	1
Sub Total	2	2	4	21	-	-	-	1	-	-	-	-	6	24
Total	4		25		-		1		-		-		30	

#### ***Enrolment of students in Ph.D.***

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Nagaland	1	-	1	2	-	-	-	-	-	-	-	-	2	2
Manipur	-	-	1	3	-	-	-	-	-	-	-	-	1	3
Assam	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Arunachal Pradesh	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Sub Total	1	1	2	7	-	-	-	-	-	-	-	-	3	8
International	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Total	2		9										12	

### **Degrees Awarded**

#### ***M.A./ M.Sc. Degrees Awarded***

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Manipur	-	-	-	3	-	-	-	-	-	-	-	-	-	3
Nagaland	-	-	3	11	-	-	-	-	-	-	-	-	3	11
Arunachal Pradesh	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Mizoram	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Assam	-	3	1	3	1	1	-	-	-	-	-	-	2	7
Sub Total	-	3	4	19	1	1	-	-	-	-	-	-	5	23
Total	3		23		2		-		-		-		28	

#### ***Students Awarded Ph.D. Degree***

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
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Merry C Passah	Reproductive Health among the Pnar of Jowai Town, West Jaintia Hills District, Meghalaya	Prof. D. K. Limbu
Tsiapisa Pojar	A Dental Morphometric and Genetic Study on the Ethno-Origin of the Pochury and Rengma Nagas	Prof. B. T. Langstieh (Supervisor), Dr. Brian E Hemphill (Joint Supervisor)
Vilhousienuo Neli	Rice Culture among the Angami Naga	Prof. Q. Marak
Mariam Jamatia	An Anthropological study of Jamatia Hoda, the traditional institution among the Jamatia of Tripura	Prof. G. Ranjan

### Research Fellowship

UGC-NET – 1

UGC Non-NET – 8

National Fellowship for SCs/STs – 4

### Courses Conducted

#### Postgraduate

##### Semester I

Introduction to Anthropology, Archaeological Anthropology, Biological Anthropology, Social and Cultural Anthropology, Linguistic Anthropology.

##### Semester II

Palaeo-anthropology, Prehistoric Cultures, Material Culture and Museum Method, Human Ecology and Adaptation (Open), Anthropology of North East India (Open).

##### Semester III

Anthropology of India, Medical Anthropology, Field Work Methods and Techniques, Demography, Anthropology of Gender (Open), Human Genetics, Practical in Biological Anthropology I, Human Growth and Body Composition (Open).

##### Semester IV

Theories in Anthropology, Development Anthropology, Economic Anthropology, Biostatistics, Dissertation and Viva-Voce, Biocultural Anthropology, Dental Anthropology, Practical in Biological Anthropology II.

#### PhD Course

Research Methodology in Anthropology, Recent Developments in Social and Cultural Anthropology, Advanced Studies in Biological

Anthropology, Review of Literature and Seminar.

### Publications

#### Published in India

##### Research Papers

Basumatary, L.Q., Dkhar, J.W. (2022). Prevalence of undernutrition among the Bodo boys (3-9 years) of Kokrajhar District, Assam, North-East India. *Antrocom J. of Anthropology*, 18(1): 277-290.

Khamu, S., Langstieh, B. T. (2021). Living in an old age home in a Matrilineal society. *Journal of Indian Anthropological Society*, 56(2): 254- 263.

Khamu, S., Langstieh, B. T. (2021). Mini Nutritional Assessment among the Khasi elders. *Indian Journal of Gerontology*, 35(3): 407-418.

Khieya, T., Dkhar, J.W. (2021). Nutritional status and health risk assessment: A study among the Angami tribal adults of Kohima, Nagaland. *Indian Journal of Public health Research & development*, 12(2): 374-379.

Longkumer, M., Langstieh, B. T. (2022). Metabolic Syndrome in association with Physical activity among the AoNagas of Nagaland. *Journal of Indian Anthropological Society*, 57(1): 48-60.

Marak, M. R., Limbu, D.K. (2021). Haemoglobin content and fertility among the Garo women of Garo Hills. *Spectrum: Humanities, Social Sciences and Management*, 8: 33-43.

Ralte, Z., Zehol, L. (2021). Single Mothers Challenges in Mizo Society. *Mizoram University Journal of Humanities & Social Sciences*, 7 (2):103-115.

Ranjan, G. (2021). Neevkiintain: Manavvigyan ki aadharbhutvi sheshtaiyen. *Manav*, 39(1&2): 98-103.

Sentijungla, Langstieh, B. T. (2022). Challenges of Deaf Education in War Khasi Village Massar, Meghalaya. *South Asian Anthropologist*, 22(1): 19-22.

Sentijungla, Langstieh, B. T. (2021). Challenges of Food Subsistence in Massar. *Man, Environment and Society*, 2 (2):155-168.

### **Book Chapters**

Bhuyan, G., Marak, Q. (2021). An exploratory study on prehistoric settlement pattern in Bibrage, West Garo Hills. In *Archaeology in Northeast India: Recent trends and future prospects*. M. K. Chauley and M. Hazarika (Eds.). Research India Press, New Delhi, Chapter 2, pp. 16-21.

Dkhar, J. W., Malsawmkim, N. (2021). Health and nutritional status among the Hmar children of Churachandpur District, Manipur. In *Human Diversity in North-east India: Bio-Anthropological Approaches*. S. Sengupta and D. Dutta (Eds.). Kalpaz Publication, New Delhi, Chapter 14, pp. 181-192.

Jami, J., Limbu, D.K. (2021). Assessment of nutritional status using anthropometric variables among the Lotha Nagas of Nagaland, India. In *Nutrition and Health among Indian tribes with Reference to Eastern India*. Jyoti Ratan Ghosh and Jaydip Sen (Eds.). Serials Publication, New Delhi, Chapter 13, pp.211-223.

Kipgen, H., Langstieh, B. T. (2021). Determinants on Utilisation of MCH Services among the Thadou-Kuki of Manipur. In *Maternal and Child Health Care in India: Developments and Challenges*. P.K. Panda and C. Subudi (Eds.). Bloomsberry Publication, Chennai, Chapter 13, pp. 167-179.

Limbu, D. K., Lalrammuana, C. (2021). Prevalence of Dental Caries among the Mizos of Aizwal Town, Mizoram. In *Human Diversity in North-east India: Bio- Anthropological Approaches*. Sarthak Sengupta and Dali Dutta (Eds.). Kalpaz Publications, Delhi, Chapter 16, pp.193-204.

Lohe, N., Ghosh, S. (2021). Variation And Association Of Body Physique With Nutritional Status in Adult Mising Population Of Assam. In *Nutrition And Health Among Indian Tribes With Special Reference to Eastern India*. Jyoti Ratan Ghosh and Jaydip Sen (Eds.). Serials Publications, New Delhi, Chapter 19, pp.295-310.

Longkumer, M., Langstieh, B. T. (2021). Anthropometric assessment in identifying risks factors in Metabolic Syndrome. In *Human Diversity in North-east India: Bio-Anthropological Approaches*. Sarthak Sengupta and Dali Dutta (Eds.). Kalpaz Publications, New Delhi, Chapter 17, pp 213-226.

Marak, Q. (2021). Stones that speak. In *India's North-East: Contribution of Anthropology*. N. K. Gogoi and M. Sharma (Eds.). Dibrugarh University, Dibrugarh, Chapter 7, pp.163-177.

Marak, Q. (2021). The dilemma of 'traditional food': The case of the Garos of Assam and Bangladesh. In *Boundaries and Beyond*. K. Mukhopadhyay and R. Dhar (Eds.). AnSI, Kolkata, Chapter 7, pp. 143-154.

Meitei, A. M., Marak, Q. (2021). A study of traditional mortuary practices of the Jaintias of Meghalaya. In *Archaeology in Northeast India: Recent trends and future prospects*. M. K. Chauley and M. Hazarika (Eds.). Research India Press, New Delhi, Chapter 7, pp. 52-61.

Peseyie, V., Ghosh, S. (2021). Reproductive Health of Angami Naga: Challenges and Issues, In *Maternal Health and Child Mortality*. Nitish Mondal and Kh. Narendra Singh (Eds.). Concept Publishing Company Pvt. Ltd., New Delhi, Chapter 11, 203-213.

Ranjan, G. (2021). Border (Mis)Management : The Case of India-Nepal Border. In *India's North-East:Contribution of Anthropology*. N. K. Gogoi and M. Sharma (Eds.). Dibrugarh University, Dibrugarh, Chapter 7, pp. 107-125.

Tsukru, V., Dkhar, J. W. (2021). Age Changes in Somatotypes among the Chakhesang Naga boys of Dimapur district Nagaland. In *Human Diversity in North-east India: Bio-Anthropological Approaches*. S. Sengupta and D. Dutta (Eds.). Kalpaz Publications, New Delhi, Chapter 18, pp. 227-238.

### **Published Abroad**

#### **Research Papers**

Ghosh, S. (2022). A Comparative Analysis Of Dietary Intake And Body Composition Among



Two Ethnically Distinct Tribal Populations From India. *European Journal of Clinical Nutrition*, 1-9. <https://doi.org/10.1038/s41430-022-01121-6>.

Ghosh, S., Kasher, M., Malkina, I., Livshits, G. (2021). Is Craniofacial Morphology And Body Composition Related By Common Genes: Comparative Analysis Of Two Ethnically Diverse Populations. *American Journal of Physical Anthropology*, 1-13. <https://doi.org/10.1002/ajpa.24373>.

Tsukru, V., Limbu, D.K. (2022). High Prevalence of Overweight and Obesity among the Wrestlers of a Folk Wrestling Style in India. *Antrocom Online Journal of Anthropology*, 18(1): 419-426.

Tsukru, V., Putlang, I., Limbu, D.K. (2022). Phenotype and Allelic Distribution of ABO Blood Groups, Rhesus Blood Type, PTC Taste Sensitivity, and Color Blindness among the

Pnars of Jaintia Hills District of Meghalaya, India. *Antrocom Journal of Anthropology*, 18(1): 481-488.

#### **Edited Volume**

Subba, T.B. (Section Editor). 2021. *Brill's Encyclopedia of the Religions of the Indigenous People of South Asia*. Brill, Leiden, ISBN: 978-90-04-35552-1.

<[http://dx.doi.org/10.1163/2665-9093\\_BERO\\_COM\\_032248](http://dx.doi.org/10.1163/2665-9093_BERO_COM_032248)>.

#### **Book Chapter**

Marak, Q. (2022). Prehistoric dwellers of the Meghalaya plateau. In *Northeast India through the Ages: A transdisciplinary perspective on prehistory, history and oral history*. R. Bhattacharyya (Ed.). Routledge, Oxon/New York, Chapter 7, pp. 155-173.

#### **Funds Received during the current Year**

##### **(B) Bulk Grant to Department/Centre/Section etc. other than EMR grant**

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	Rs. 13 lakhs approx.
02	UGC (SAP, CAS, Seminar etc.)	-
03	DST (FIST, PURSE, Seminar etc.)	-
04	NEC (program name)	-
05	Others	-

##### **(C) EMR Research Projects to individual faculty members**

Title of Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of Investigator (PI/Co-PI)	Multi/Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
The Stories of our Ancestors (narrative retelling by the Nagas of North East India) (67.47)	Completed	Prof. L. Zehol (PI)	Single (2020-2021)	North Eastern Council Shillong	8.52
Socio- Economic Status And Problems Of Single Mothers (8.30)	Completed	Dr. Valentina Pakyntein	Single	National Commission for Women, New Delhi And Meghalaya State Commission for Women, Shillong	8.30 Fund received from NCW is manage MSCW
Revisiting The Life and	On-going	Prof. L.Zehol	Single	North	18.44

works of Verrier Elwin in the North East India “Digital Preservation and propagation of Elwin’s work		(PI) Prof. Q. Marak (Co-PI)	(2020-2022)	Eastern Council Shillong	
G6PD Deficiency and Its association With Arterial Hypertension Among the Angami Naga Of North-East India (59.93,522)	New	Dr. Sudipta Ghosh (PI)/ Prof. Manish Kapoor (Co-PI)	Multiple (2022-2025)	Department of Science Technology Govt. of India)	Nil

### Seminar/Conference/Symposium/Extension Programme etc.

#### Organized

**Prof. Q. Marak** was Co-Convenor for the Special Lecture Series *Doing Anthropology in Northeast India and Beyond* organised by Northeast Indian Anthropology, and co-organised by Departments of Anthropology, North-Eastern Hill University, Rajiv Gandhi University and Manipur University, from April 10 to May 22, 2021 in the online mode.

#### Attended

**Dr. S. Ghosh** attended and presented a paper titled “Craniofacial Traits and Body Composition in Two Genetically Varied Populations: Heritability and Associations” was presented in the American Association of Physical Anthropologists (AAPA) 2021 in the Virtual Annual Meeting on 15<sup>th</sup> April 2021 organized by the American Association of Physical Anthropologists (AAPA) during 7 - 28 April 2021 in USA.

#### Academic Collaborations

##### National

**Dr. S. Ghosh** collaborated with Dr. Manish Kapoor, Department of Cardiology

NEIGRIHMS, Shillong, Meghalaya. Title of Project: *G6PD Deficiency and Its Association with Arterial Hypertension among the Angami Naga Of North-East India.*

##### International

**Prof. B. T. Langstieh** collaborated with (i) Dr. Brian E. Hemphill, Department of Anthropology, University of Alaska, Fairbanks, USA. Title of Project: *A Dental Morphometric Examination of the Distinctiveness and Affinities*

*of Austro-Asiatic- and Tibeto-Burman-speaking Ethnic Groups of South Asia.* (ii) Dr. Alexandra Alvergne, Faculty, Institut des Sciences de l’Evolution de Montpellier (ISEM), Université de Montpellier, France & Research Associate, Department of Anthropology and Museum Ethnography, Oxford University, London, UK. and Dr. Jeremy Koster, Department of Anthropology, University of Cincinnati, Ohio, USA. Title of Project: *The Effect of Social Networks on Inequality: A Longitudinal Cross-Cultural Investigation*

**Dr. S. Ghosh** collaborated with (i) Prof. Vitalie Faoro, Université Libre de Bruxelles, Brussels, Belgium. Title of Project: *Exercise Capacity And Cardio-Pulmonary Responses Among Sherpa: Highlander Vs Migrant.* (ii) Prof. Tom D. Brutsaert, Syracuse University, Syracuse, NY, USA. Title of Project: *Writing collaborative research papers on Angiotensin Converting Enzyme (ACE) genotypes among the Tawang Monpa.* (iii) Prof. Abigail Bigham, University of Michigan, Michigan, USA. Title of Project: *Writing collaborative research papers on Angiotensin Converting Enzyme (ACE) genotypes among the Tawang Monpa.*

#### Honours/Awards/Recognition/Membership/ Fellowship

**Prof. T. B. Subba** was appointed as Visiting Professor, Taylor’s University, Kuala Lumpur.

**Prof. R. Khongsdier** was Member of (i) Meghalaya State Level Scrutiny Committee for Scheduled Tribes, Government of Meghalaya, (ii) Meghalaya State Task Force on Minorities, (iii) Member of Advisory Committee of ICSSR-NERC, (iv) Member of the Editorial Boards of the *Journal of Life Sciences*, *Indian Journal of Research in Anthropology*, *The Anthropologist*, and *Anthropology and Ethnology Open Access Journal*.

Details of Faculties	Name		1	T.B.Subba	R. Khongsdier	H.Lamin
	Date of Joining		2	3.9.1991	01.04.1997	07.05.1988
	Field of specialisation		3	Cultural Anthropology	Biological Anthropology	-
(A) Teaching Experience (in Years)	UG		4	Nil	Nil	-
	PG, including PhD		5	31 years	35 years	-
(B) Research activities	Basic Research		6	No	No	-
	Applied Research		7	No	No	-
	Action Research		8	No	No	-
	Project Submitted		9	No	No	-
	Ongoing Project		10	No	No	-
	Research Paper in UGC care list journals	Group I	11	No	No	-
		Group II	12	No	No	-
	Books /Books chapters Published	Books	13	No	No	-
		Book Chapters	14	No	No	-
	Popular Articles (News Paper/ Magazine-s)		15	No	No	-
	Seminar / Conference/ Symposia organized	National	16	No	No	-
		International	17	No	No	-
	Seminar / Conference/ Symposia attended	National	18	No	No	-
		International	19	No	No	-
	Conference Proceedings		20	No	No	-
(C) Patent	Consultancy		21	No	No	-
	Applied		22	No	No	-
	Published		23	No	No	-
(D) E-Content	Granted		24	No	No	-
	MOOC/SWAYAM/ E-content developed		25	No	No	-
(E) Any Other	Teaching /Extension /outreach activities		26	No	No	-
	Responsibilities other than teaching		27	No	No	-
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	Appointed as Visiting Professor, Taylor's University, Kuala Lumpur	6	-
	Collaborations	National	29	No	No	-
		International	30	No	No	-

**Prof. G. Ranjan** was Member of (i) Editorial Board of the journal, South Asian Anthropologist (ii) Editorial Board of the Bulletin of Anthropology published by Department of Anthropology, Gauhati University. (iii) Board of Studies, Department of Tribal Studies, Art, Culture and Folk Literature, Indira Gandhi National Tribal University, Amarkantak (iv) Board of Studies in Anthropology, University of Sikkim. She was also National Chair, of Core Research Domain on Children, Childhood and Youth, United India Anthropology Forum.

**Dr. S. Ghosh** visited Cardio-Pulmonary Exercise Laboratory, Faculty of Motorskill

Sciences, Université Libre de Bruxelles, Brussels, Belgium, from December, 2021 till January, 2022, which was funded by ASEM-DUO/Wallonia-Brussels Fellowship Programme, Belgium Govt

### Other Activities

**Prof. T.B.Subba** delivered: (a) Special talk on “Blended Learning – Implications for Institutions” at the webinar on 6<sup>th</sup> August 2021, organised by Salesian College, Siliguri; (b) lecture on “Anthropological Perspectives of Tribes in Northeast India” online on 9<sup>th</sup> of September 2021 at a seminar on “Safeguarding Tribal Identity: Concepts and Implications”, 9-10 September 2021, organized by Sociology

Details of Faculties	Name		1	L.Zehol	D.K.Limbu	G. Ranjan
	Date of Joining		2	19.8.1993	26.09.2001	17.4.2009

Department, Synod College. He also moderated a Webinar Series on ‘Religious Practices in the Himalayan Spaces: Mountains and Minorities, Meditations and Monasteries, Session IV ‘Buddhist Meditation: Post-traditional Meaning and Method’ initiated by Dr Pius V. Thomas, Department of Philosophy, Assam University, Organised by Salesian College, Siliguri, St. Anthony’s College, Shillong, and Chinese University of Hongkong.

**Prof. G. Ranjan** delivered Invited talks on (a) “Anthropology and cultural relativism: how far to go?”, in the *Platinum jubilee national seminar on Anthropology and humankind*, organized by Department of Anthropology, University of Madras, 28-29 March 2022; (b) “Unfolding the idea of being well: an exploration during Covid times” in the *National conference on Anthropology and health: responses to Covid-19*, organized by Department of Anthropology, Punjab University, Chandigarh, 10-11 March 2022; (c) “Pandemic and the dynamics of emotions: an anthropological perspective”, in the *Round table organized by Indian Anthropology Congress*, 21-23 February 2022; (d) “Trajectory of coal mining in Meghalaya: tradition and transition”, in the *National symposium on biological and cultural Diversity of Northeast India*, organized by Indian Anthropology Congress 21-23 February 2022. She was also Reviewer for journals (i) *Frontier Anthropology*,

*Journal of Anthropological Society of Manipur*; (ii) *Journal of the Anthropological Survey of India*. As Outreach activity, she gave consultancy to International Union of Conservation of Nature (IUCN) – Himalayas for the Future Project - Thematic Area Sustainable Livelihood and enterprise with reference to Meghalaya.

**Prof. B. T. Langstieh** was Reviewer for (i) *American Journal of Human Biology* (2021) and (ii) *Frontier Anthropology*, Department of Anthropology, Manipur University. She also delivered lectures at Refresher Course in Anthropology, Gauhati University and Central Forensic Science Laboratory (CFSL) Online Workshop Kamrup, Guwahati.

**Prof. Q. Marak** was Reviewer for (i) *Journal of the Kolkata Society for Asian Studies*, (ii) *Journal of Indian Anthropological Society* (2020), (iii) *Indian Journal of Anthropological research*, (iv) *Man in India*, and (v) *Journal of Anthropological Survey of India*. She also delivered a lecture titled “Indigenous crops” in the Refresher Course on *Indigenous Knowledge System* organised by Utkal University on 7th February 2022.

**Dr. S. Ghosh** was Reviewer for the Journal of (i) *BMC Pediatrics*, Springer Nature (ii) *International Journal of Obesity*, and (iii) *Human Biology and Public Health*.

	Field of specialisation		3	Cultural Anthropology	Physical Anthropology	Social & cultural Anthropology
(A) Teaching Experience (in Years)	UG		4	Nil	5years	10 Years
	PG, including PhD		5	29	21 years	13 Years
(B) Research activities	Basic Research		6	Yes	Yes	Yes
	Applied Research		7	Yes	No	No
	Action Research		8	Yes	No	No
	Project Submitted		9	1	1	No
	Ongoing Project		10	1	No	No
	Research Paper in UGC care list journals	Group I	11		2	No
		Group II	12	1	2	No
	Books /Books chapters Published	Books	13	No	No	No
		Book Chapters	14	No	2	01
	Popular Articles (News Paper/ Magazine-s)		15	No	No	No
	Seminar / Conference/ Symposia organized	National	16	No	No	No
		International	17	No	No	No
	Seminar / Conference/ Symposia attended	National	18	No	No	Yes
		International	19	No	No	No
	Conference Proceedings		20	No	No	No
	Consultancy		21	No	No	No
(C) Patent	Applied		22	No	No	No
	Published		23	No	No	No
	Granted		24	No	No	No
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	No	No	No
(E) Any Other	Teaching /Extension /outreach activities		26	Yes	No	Yes
	Responsibilities other than teaching		27	Yes	Yes	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	No	Yes
	Collaborations	National	29	No	No	No
		International	30	No	No	No

Details of Faculties	Name		1	B.T.Langstieh	Q.Marak	V.Pakyntein
	Date of Joining		2	28.06. 2002	10.04.2002	21.08.1993
	Field of specialisation		3	Biological Anthropology	Archaeological Anthropology	
(A) Teaching Experience (in Years)	UG		4	Nil	Nil	2years
	PG, including PhD		5	20 years	20	29 years
(B) Research activities	Basic Research		6	Yes	Yes	yes
	Applied Research		7	Yes	No	yes
	Action Research		8	Yes	Yes	yes
	Project Submitted		9	Yes	1	yes
	Ongoing Project		10	Yes	1	No
	Research Paper in UGC care list journals	Group I	11	Yes	No	yes
		Group II	12	Yes	No	yes
	Books /Books chapters Published	Books	13	No	No	No
		Book Chapters	14	Yes	5	No
	Popular Articles (News Paper/ Magazine-s)		15	No	No	No
	Seminar / Conference/ Symposia organized	National	16	Yes	1	No
		International	17	No	No	No
	Seminar / Conference/ Symposia attended	National	18	Yes	No	yes
		International	19	Yes	No	yes
	Conference Proceedings		20	Yes	No	No
(C) Patent	Consultancy		21	Yes	No	yes
	Applied		22	No	No	No
	Published		23	No	No	
(D) E-Content	Granted		24	No	No	No
	MOOC/SWAYAM/ E-content developed		25	Yes	No	No
(E) Any Other	Teaching /Extension /outreach activities		26	Yes	No	yes
	Responsibilities other than teaching		27	Yes	Yes	yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	Yes	No	yes
	Collaborations	National	29	Yes	No	yes
		International	30	Yes	No	yes

Details of Faculties	Name		1	J.W.Dkhar	S. Ghosh
	Date of Joining		2	10.04. 2002	01.02.2010
	Field of specialisation		3	Physical Anthropology	Biological Anthropology
(A) Teaching Experience (in Years)	UG		4	Nil	1.5
	PG, including PhD		5	20	12
(B) Research activities	Basic Research		6	No	20
	Applied Research		7	No	0
	Action Research		8	No	0
	Project Submitted		9	No	1
	Ongoing Project		10	No	1
	Research Paper in UGC care list journals	Group I	11	1	2
		Group II	12	1	0
	Books /Books chapters Published	Books	13		0
		Book Chapters	14	2	2
	Popular Articles (News Paper/ Magazine-s)		15	No	0
	Seminar / Conference/ Symposia organized	National	16	No	0
		International	17	No	0
	Seminar / Conference/ Symposia attended	National	18	No	0
		International	19	No	1
	Conference Proceedings		20	No	0
	Consultancy		21	No	0
(C) Patent	Applied		22	No	0
	Published		23	No	0
	Granted		24	No	0
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	No	0
(E) Any Other	Teaching /Extension /outreach activities		26	No	0
	Responsibilities other than teaching		27	No	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	1
	Collaborations	National	29	No	1
		International	30	No	3

## DEPARTMENT OF ENVIRONMENTAL STUDIES

**Head** : Prof. D. Paul  
**Telephone** : 364-272-1160 (O); +91-9436163867 (Cell)  
**E-mail** : [hodenv@nehu.ac.in](mailto:hodenv@nehu.ac.in); [pauld@rediffmail.com](mailto:pauld@rediffmail.com)

### Faculty Profile

Designation	Name and Qualification	Specialization
<b>Professor</b>	Dr. O. P. Singh, M.Sc. & Ph.D. (BHU)	Environmental Monitoring and Restoration of Degraded Ecosystems
	Dr. D. Paul, M.Sc. & Ph. D. (NEHU)	Integrated Pest Management, Biosource utilization, EIA
	Dr. M. S. Bisht, M.Sc. (Univ. of Jodhpur), Ph.D. (Delhi Univ.)	Resource (Natural and Manmade) Management and Use
<b>Associate Professor</b>	Dr. S. S. Chaturvedi, M.Sc. (Gorakhpur Univ.), Ph.D. (BHU)	Environmental monitoring & abatement, climate change monitoring & mitigation and natural resource management.

### Thrust Areas of Research

Natural Resource Management, Environmental Monitoring and Remediation of Degraded Ecosystems, Forest Management, Forest Biodiversity monitoring and management, land reclamation (Social/agro forestry) and rural development, Forests policy and Law, Environmental Impact Assessment, Environmental Biology, Integrated Pest Management, Policy Oriented Research on Forest and Environment and Watershed Management; Magneto telluric studies, Global Positioning system studies and micro-seismicity of NE Region; Radon activity concentration in NER;

Earthquake forecasting research and impact of seismicity on infrastructures. Waste (organic and single use plastic) recycling and use. Application of bamboo for various uses for socio-economic development and carbon sequestration

### Brief Statement of Academic Activities and achievements

During the year total of 27 students successfully completed Master of Science in Environmental Science and 02 research scholars were awarded Doctor of Philosophy in Environmental Science.

### Students' Profile

**Enrolment Capacity:** M.Sc.: 27, Ph. D.: Variable

	Gen		ST		SC		OBC			EWS		PWD		TOTAL	
STATE	M	F	M	F	M	F	M	F		M	F	M	F	M	F
Assam	-	-	-	-	-	-	-	-		-	2	-	-	-	2
Meghalaya	-	-	5	14	-	-	-	-		-	1	-	-	5	15
Manipur	1	1	1	-	-	-	-	-		-	-	-	-	2	1
Nagaland	-	-	1	1	-	-	-	-		-	-	-	-	1	1
Total	1	1	7	15	-	-	-	-		3	-	-	-	8	19

### M.Sc. Degrees Awarded

	Gen		ST		SC		OBC			EWS		PWD		TOTAL	
STATE	M	F	M	F	M	F	M	F		M	F	M	F	M	F
Assam	-	-	-	-	-	-	-	-		-	2	-	-	-	2
Arunachal Pradesh	-	-	-	1	-	-	-	-		-	-	-	-	-	1
Manipur	-	-	3	2	-	-	-	-		-	-	-	-	3	2
Meghalaya	-	-	6	12	-	-	-	-		-	-	-	-	6	12
Mizoram	-	-	1	-	-	-	-	-		-	-	-	-	1	-
Total	-	-	10	15	-	-	-	-		2	-	-	-	10	17

### Students Awarded Ph.D. Degree



Name of Student	Title of Thesis	Names of Supervisors
Ribha I. Passah	Improvement of Water Quality Affected by Acid Mine Drainage in Jaintia Hills, Meghalaya	Prof. O. P. Singh
Kitboklang Sun	Carbon Stock Assessment in Community Forest of Khasi Hills, Meghalaya	Dr. S. S. Chaturvedi

## Courses Conducted

### Postgraduate

*Semester I:* Environment, Ecology and Ecosystem Dynamics; Environmental Pollution; Forestry and Water Resources

*Semester II:* Environmental Microbiology, Biotechnology and Toxicology; Environmental Impact Assessment and Environmental Policies; Remote Sensing and Geographical Information System; Radiation Biology

*Semester III:* Disaster Management; Environmental Geosciences and Energy; Environmental Issues and Problems of North East India; Research Methods, Techniques and Statistical Analysis

*Semester IV:* Environmental Economics and Sociology; Forest Management and Biodiversity

### M.Phil./Ph. D. Courses

Research Methodology in Environmental Science; Contemporary Environmental Science; Review of Literature

### Organized

**Prof. D. Paul** organized the following: (a) Webinar on *Rededicating to Restoration* on 5<sup>th</sup> June, 2021 in collaboration with Rotary, Orchid City, Shillong and Martin Luther Christian University, Shillong; (b) Faculty Development Programme on *Productivity Enhancement* funded by AICTE from August 23 to 27, 2021; (c) Webinar on *Biomimicry & Life Centred Design* on November 15, 2021, in collaboration with Shillong Chapter ISAC and Incubation Centre, NEHU; (d) Webinar series on *The Cold is getting*

*warmer* on March 05, 2022 in collaboration with Indian Polar Research Network, APECS Indian Chapter, Department of Environmental Science, Central University of Kerala, Department of Civil Engineering, IIT, Jammu, Department of Environmental Science, St. Edmund's College, Shillong and Shillong Chapter-ISCA.

## Publications

### Published in India

#### Research Papers

Biswas, S., Paul, D. (2021). Isolation and characterization of *Rhodococcus qingshengii*, a cellulolytic bacteria from *Cnaphalocrocis medinalis* (Lepidoptera: Crambidae) gut. *Environmental and Experimental Biology*, 19: 203-208. <http://doi.org/10.22364/eeb.19.19>

Sahoo, U.K., Tripathi, O.P., Nath, A.J., Deb, S., Das, D. J., Gupta, A., Devi, N. B., Chaturvedi, S. S., Singh, S. L., Kumar, A., Tiwari, B. K. (2021). Quantifying tree diversity, carbon stock and sequestration potential for diverse land uses in Northeast India. *Front. Environ. Sci.*, 9:724950. doi:10.3389/fenvs.2021.724950

Santosh, O., Bajwa, H. K., Bisht, M. S., Chongtham, C. (2021). Quality evaluation of biscuits fortified with bamboo shoot for their sensory properties. *Journal of Pharmacognosy and Phytochemistry*, 10 (6): 330-337.

Syiemiong, P., Chaturvedi, S. S., Arbenz, T., Tamas, T. (2022). A note on *Sapria himalayana* (Griffith, 1844) (Refflesiaceae) from Jaintia Hills (Meghalaya). *Biodiversity Journal*, 13(1): 73-78. doi.org/ 10.31396/ Biodiv/ Jour .2022. 13. 1.173.78

## Funds Received during the current Year

### (A) Bulk Grant to Department/Centre/Section etc.

Sr. No.	Funding Agency	Amount (Rs. in Lakhs)
01	NEHU	11.40
02	UGC (SAP, CAS, Seminar etc.)	Nil
03	DST (FIST, PURSE, Seminar etc.)	Nil
04	NEC (program name)	Nil
05	Others	Nil

**(B) EMR Research Projects to individual faculty members**

Title of Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of Investigator (PI/Co-PI)	Multi/Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Short term research on forest fire in Meghalaya (8.0)	Ongoing	Prof. D. Paul(PI)/ Dr. K. Upadhaya (Co-PI)	Single	Department of Forests, Govt. of Meghalaya	2.0

**Academic Collaborations**

**Prof D. Paul** collaborated with Dr. Sudhir Kumar, Scientist ‘G’, Head, Nuclear Hydrology Laboratory, National Institute of Hydrology (NIH) Roorkee.

**Other Activities**

**Prof. O. P. Singh** delivered: (a) Invited lecture/special message during World Environment Day 2021 celebration organized by Don Bosco College, Tura on 5<sup>th</sup> June 2021; (b) Invited lecture during World Environment Day 2021 celebration organized by Department of Environmental Studies, North-Eastern Hill University, Shillong on 5<sup>th</sup> June 2021; (c) Invited lecture/special message during World Environment Day 2021 celebration organized by Department of Environmental Science, Burdwan University, Burdwan on 6<sup>th</sup> June 2021; Two invited lectures in Faculty Development Program on ‘Management of Waste of Hydrocarbon production’ organized by Dibrugarh University

during 7-12 February 2022. The topic of lectures was (i) Management of overburden (solid waste) generated in coal production; (ii) Management of Acid Mine Drainage (AMD) generated in coal production; (d) Invited lecture on the occasion of National Science Day celebration organized by Pachhunga University College, Aizawl, Mizoram on the theme ‘Integrated Approach in Science and Technology for a Sustainable Future’ on 2<sup>nd</sup> March 2022.

**Prof D. Paul** delivered a lecture entitled “Global warming & Climate Change” (online) in Refresher course on Environmental Studies (Interdisciplinary) at Pandit Madan Mohan Malviya National Mission on Teachers and Teaching, University of Kerala on 16-03-2021.

**Dr. S.S. Chaturvedi** acted as Institutional Coordinator (NEHU) for Indian Institute of Remote Sensing (IIRS) - Indian Space Organization (ISRO) Out Reach Program and successfully coordinated 10 Outreach Courses.

**SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022**

Details of Faculties	Name		1	Prof O. P. Singh	Prof D. Paul
	Date of Joining		2	8th Oct. 1985	7th April 1997
	Field of specialisation		3	Environmental monitoring and restoration of degraded ecosystems	Entomology, Ecology
(A) Teaching Experience (in Years)	UG		4	37 years	NA
	PG, including PhD		5	35 years	25 years
	Basic Research		6	Yes	No
	Applied Research		7	Yes	Yes
	Action Research		8	No	No
	Project Submitted		9	0	No
	Ongoing Project		10	0	1
	Research Paper in UGC care list journals	Group I	11	0	1
		Group II	12	0	No

(B) Research activities	Books /Books chapters Published	Books	13	0	No
		Book Chapters	14	0	No
	Popular Articles (News Paper/ Magazines)		15	0	No
	Seminar / Conference/ Symposia organized	National	16	0	No
		International	17	0	No
	Seminar / Conference/ Symposia attended	National	18	0	1
		International	19	0	1
(C) Patent	Conference Proceedings		20	0	No
	Consultancy		21	0	No
	Applied		22	0	No
(D) E-Content	Published		23	0	No
	Granted		24	0	No
(D) E-Content	MOOC/SWAYAM/ E- content developed		25	0	No
(E) Any Other	Teaching /Extension /outreach activities		26	0	No
	Responsibilities other than teaching		27	0	No
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	0	No
	Collaborations	National	29	0	No
		International	30	0	No

Details of Faculties	Name		1	Prof M. S. Bisht	Dr S. S. Chaturvedi
	Date of Joining		2	4th Sep 2018	19thMay, 2002
	Field of specialisation		3	Resource (Natural and Manmade) Management and use	Environmental monitoring & abetment, climate change monitoring & mitigation and natural resource management
(A) Teaching Experience (in Years)	UG		4	NA	NA
	PG, including PhD		5	Yes (12months)	19
(B) Research activities	Basic Research		6	Yes	Yes
	Applied Research		7	Yes	Yes
	Action Research		8	Yes	No
	Project Submitted		9	Yes	0
	Ongoing Project		10	No	0
	Research Paper in UGC care list journals	Group I	11		2
		Group II	12		0
	Books /Books chapters Published	Books	13	No	0
		Book Chapters	14	No	0
	Popular Articles (News Paper/ Magazines)		15	No	0
	Seminar / Conference/ Symposia organized	National	16	No	0
		International	17		0
	Seminar / Conference/ Symposia attended	National	18		0
		International	19		0
	Conference Proceedings		20	No	0

	Consultancy		21	No	0
(C) Patent	Applied		22	No	0
	Published		23	No	00
	Granted		24	No	0
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	No	0
(E) Any Other	Teaching /Extension /outreach activities		26	No	1
	Responsibilities other than teaching		27	No	0
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	1
	Collaborations	National	29	No	0
		International	30	No	0

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## DEPARTMENT OF FORESTRY

**Head- In charge** : Prof. C.P. Suresh  
**Telephone** : 8974455216  
**E-mail** : hodforestry@nehu.ac.in ; [nehuforest@gmail.com](mailto:nehuforest@gmail.com),

### Faculty Profile

Designation	Name and Qualification	Specialization
<b>Professor</b>	Dr. C. Perinba Suresh M.Sc (BCKV), Ph.D. (BCKV)	Fruits and Orchard Management, Post-Harvest Technology of Horticultural Crops

### Thrust Areas of Research

The forest of Meghalaya unlike other states is largely under community and private ownership with only 1,113 sq. km. of forests under the direct control of the State Forest Department. The state has a total forest cover of 76.32%, it has two national parks viz., Balphakram and Nokrek Ridge, four wildlife sanctuaries and 65 community reserves forest. The dominant tree species found in the state is *Pinus kesiya*. The state is divided into three distinct regions viz., Garo Hills, Khasi Hills and Jaintia Hills. Major land used system practice in the state is shifting cultivation. It has three major rivers viz., Sanda, Simsang Umngot and Myntdu.

#### 1. Forest ecosystems assessment:

Under this assessment, vegetation analysis, ecosystem, forest soils, environmental management and ecophysiology of forests of Meghalaya can be undertaken.

**2. Biology, ecology and conservation of wildlife:**  
Under this thrust area taxonomy and ecology of vertebrates & invertebrates, ecology of the wetlands and marine ecosystems, captive wildlife management and wildlife forensics can be undertaken.

#### 3. Forest health and Climate Change:

In order to maintain/improve the forest health various studies on ecology of pests and diseases, forest fire and invasive alien species can be taken forward and also to counter climate change research on carbon sequestration and impacts of climate change can be studied.

#### 4. Socio-economic and cultural dimensions of forests:

Studies on Indigenous technical knowledge, Intellectual Property Rights, Forest certification, Human-wildlife interaction, Ecotourism, Joint Forest Management, Forestry Extension, Policy

and legal dimensions should be undertaken to uplift the socio economic status.

#### 5. Silviculture and management of trees and forest plantations:

Under this thrust area tree husbandry and stand management protocols for diverse land management regimes, site quality & stand density management and seed and nursery technology of trees should be assessed.

#### 6. Agroforestry systems and practices:

Functional and structural dynamics, socio-economic attributes of tropical home gardens, other agroforestry systems and practices should be undertaken under this thrust area.

#### 7. Wood technology:

Studies on wood structure, variation and identification, wood quality assessment, wood preservation and seasoning, wood composites and improved wood should be undertaken.

#### 8. Utilization of timber and NTFP:

Extraction, processing, value addition, storage and marketing of timber and NTFP (Non-Timber Forest Products) should be explored.

### Brief Statement of Academic Activities

The utmost priority of the department is to impart knowledge and education related to Forestry and allied branches to serve as a centre in North-East for the academic excellence in Forestry. The Department mainly concentrates on Forestry related dissemination of knowledge to the students through systematic teaching, research and technology transfer through extension works with an aim to improve the production, productivity and conservation aspects of Forest System and to develop technical and skilled manpower in North-Eastern regions in general and Meghalaya state in particular for the development of good Forestry practices and improvement in forest protection and productivity. The main research priorities are: (1)

To carry out research on ecosystem analysis, conservation and restoration through the use of forestry tools and knowledge, (2) To study the carbon sequestration potential of forest ecosystem and its impact on climate change, (3) To document and evaluate ethno-medicinal value of forest produce, (4) To provide livelihood opportunities through the use of suitable agroforestry systems, (5) Hands-on experience to local communities for sustainable utilization of

forest lands through trainings and other curricular activities, (6) To disseminate knowledge to scientific communities through national and international conference, (7) Development of suitable agroforestry models to meet the demand of the regions and to minimize shifting cultivation, (8) To cater talented forestry professionals for future careers in forestry and other allied sectors in biodiversity conservation and management.

### Students' Profile

**Enrolment Capacity: M.Sc. Intake 15 Ph.D. – NIL**

Degree*	Male	Female	SC	ST	OBC	GEN	EWS	Meghalaya	Non-Meghalaya**	Total
M.Sc. (Forestry)	3	9	NIL	12	NIL	NIL	NIL	10	2	12

### Semester I

Silviculture, Forest Biometry, Forest Ecology and Biodiversity and conservation, Forest protection, Remote Sensing and GIS, General statistical methods and Research methodology, Basic concepts in Laboratory techniques, Agricultural Research, Research ethics and rural development programmes, Disaster management, Master Seminars.

### Semester II

Forest Management, Forest Products-Chemistry and Industries, Forest Resources Management and Economics, Forest Policy and laws and International conventions, Tree Improvement, Forest and People, Computer Application and Information technology, Library and Information services, Technical writing and Communication Skills, Intellectual, Masters seminar

### Semester III

Specializations offered: Wood Sciences and technology, Medicinal and aromatic plants,

Plantation Technology, Watershed Management, Eco-tourism, Watershed Management, Eco-tourism, Agro-forestry, Forest Genetic Resources, Forest Biotechnology, Environment Management, Forest Business Management

### Semester IV

Masters Research, Masters comprehensive examination

### Deficiency courses compulsory non-credit for B.Sc. Agri./Hort. Stream

PriPrinciplesd Practices of Silviculture, Forest Mensuration, Principles of Tree Improvement, Wild Life Management, Wood Products and Utilization, Forest Management, Policy and Legislation

### Academic Collaborations

**Prof. C.P. Suresh** collaborated with Department of Forestry, Uttar Banga Krishi Vishwavidyalaya, West Bengal.

## SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	Name		1	Prof. C. P. Suresh
	Date of Joining		2	28.06.2013
	Field of specialisation		3	Fruits and Orchard Management, Post-Harvest Technology of Horticultural Crops
(A) Teaching Experience (in Years)	UG		4	12
	PG, including PhD		5	9

(B) Research activities	Basic Research		6	Yes
	Applied Research		7	Yes
	Action Research		8	
	Project Submitted		9	1
	Ongoing Project		10	2
	Research Paper in UGC care list journals	Group I	11	3
		Group II	12	1
	Books /Books chapters Published	Books	13	
		Book Chapters	14	1
	Popular Articles (News Paper/ Magazines)		15	
	Seminar / Conference/ Symposia organized	National	16	
		International	17	
	Seminar / Conference/ Symposia attended	National	18	1
		International	19	
	Conference Proceedings		20	
	Consultancy		21	
(C) Patent	Applied		22	
	Published		23	
	Granted		24	
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	
(E) Any Other	Teaching /Extension /outreach activities		26	
	Responsibilities other than teaching		27	Head
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	
	Collaborations	National	29	2
		International	30	

## DEPARTMENT OF GEOGRAPHY

**Head** : Prof. B.S. Mipun  
**Telephone** : +91 0364 2723201  
**E-mail** : hodgeo@nehu.ac.in

### Faculty Profile

Designation	Name and Qualification	Specialization
<b>Professor</b>	Dr. B. S.Mipun, Ph. D. (JNU)	Agricultural Geography, RS & GIS
	Dr. D. K. Nayak, M.Phil., Ph. D. (JNU)	Social and population Geography
	Dr. H. J. Syiemlieh, M.Phil., Ph.D. NEHU	Fluvial and Applied Geomorphology
	Dr. Sunil Kumar De, M.Sc., Ph.D. (Calcutta University)	Environmental Geomorphology; Geomorphological Hazards
	Dr. L.Cajee, M. Phil., Ph.D.(NEHU)	Biogeography and Geography of Tourism
	Dr. P. K. Ryngnga, M. Phil., Ph.D. (JNU)	Regional Development, Urban Planning, Remote Sensing & GIS
<b>Associate Professor</b>	Dr. S. Purkayastha, MA, Ph.D(NEHU)	Population Geography, Social geography, North East and developmental Studies

### Thrust Areas of Research

(i) Geomorphology with focus on Regional and Applied Geomorphology, (ii) Environmental studies with focus on Climatology and Climate Change, Water Resources and Hydrology, Biogeography and Biodiversity and Watershed Management Studies, (iii) Regional Development and Regional Planning, (iv) Researches on Social and Cultural Diversity of the North-Eastern Region with a special focus on Tribal Development, (v) GIS and Remote Sensing applications in Environment and Land Use Planning.

### Brief Statement of Academic Activities and Achievements

In the last year, degrees were awarded as under:

- a) P.G. Diploma Geo-Informatics: Total 26 (10 males & 16 females)
- b) M.A./M.Sc.: Total 41 (16 males & 25 females)
- c) Ph.D.: Total 4 (3 males & 1 females)

The Department also has three International Academic Collaborations.

### Students' Profile

**Enrolment Capacity: M.A./M.Sc. – 46; Ph.D. – Variable**

#### Enrolment of students

		Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)		M	F	M	F	M	F	M	F	M	F	M	F	M	F
M.A/M.Sc	Meghalaya	-	1	11	13	-	-	-	-	-	-	-	-	11	14
	Assam	2	7	-	1	-	1	-	-	-	-	-	-	2	9
	Nagaland	-	-	-	3	-	-	-	-	-	-	-	-	-	3
	Manipur	-	-	1	2	-	-	-	1	-	-	-	-	1	3
	Mizoram	-	-	1	1	-	-	-	-	-	-	-	-	1	1
	West Bengal	-	1	-	-	-	-	-	-	-	-	-	-	-	1
	Arunachal .P	-	-	-	1	-	-	-	-	-	-	-	-	-	1
	Ph.D.	1	-	1	-	-	-	-	-	-	-	-	-	2	-
P.G. Diploma Geoinformatics		1	3	4	20	1	1	-	-	-	-	-	-	6	24
Sub Total		4	12	18	41	1	2	0	1	0	0	0	0	23	56
Total		16		59		3		1		0		0		79	

### Degrees Awarded

*P.G. Diploma Geoinformatics*



P.G.Diploma Geoinformatics		Gen		ST		SC		OBC		EWS		PWD		TOTAL	
	STATE	M	F	M	F	M	F	M	F	M	F	M	F	M	F
	Meghalaya	-	-	4	10	-	-	-	-	-	-	-	-	4	10
	Assam	-	4	1		1	-	-	-	-	-	-	-	2	4
	Nagaland	-	-	3	2	-	-	-	-	-	-	-	-	3	2
	West Bengal	-	-	-	-	1	-	-	-	-	-	-	-	1	
	Sub Total	-	4	8	12	2	-	-	-	-	-	-	-	10	16
Total		4		20		2		-		-		-		26	

### ***M.A./M.Sc.***

MA/MSc	STATE(Name)	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F
	Meghalaya	-	-	09	11	-	-	-	-	-	-	-	-	09	11
	Assam	-	09	01	01	-	-	-	-	-	-	-	-	01	10
	Nagaland	-	-	03	01	-	-	-	-	-	-	-	-	03	01
	Manipur	-	-	01	03	-	-	-	-	-	-	-	-	01	03
	Mizoram	-	-	01	-	-	-	-	-	-	-	-	-	01	-
	Arunachal .P	-	-	01	-	-	-	-	-	-	-	-	-	01	-
Total		9		32		-		-		-		-		41	

### ***Ph.D.***

Ph. D	STATE(Name)	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F
	Meghalaya	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Assam	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Nagaland	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Manipur	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	West Bengal	-	-	1	-	1	-	1	1	-	-	-	-	3	1
	Tripura	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Arunachal .P	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total		-		-		-		-		-		-		4	

### **Students Awarded Ph.D. Degree**

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Manasi Debnath	Paleo-climatic reconstruction of ChangmeKhangpu Glacier, Upper Tista Basin, Eastern Himalayas	Prof. H.J. Syiemlieh (Supervisor), Prof. M. C. Sharma ( Joint Supervisor)
Amit Sardar	Livelihood Vulnerability, Adaptation and Security of the Lodhas in Northern Plateau of Odisha, Rarh and Terai Regions of West Bengal	Prof. D.K. Nayak
Manoj Debnath	Out-migration among Small, Marginal and Landless Households from Rural areas in Bankura District of Rarh Region, West Bengal	Prof. D.K. Nayak
Suman Das	Assessment of Land Capability and Sustainability for Crop Production in West Tripura District, Tripura	Prof. B. S. Mipun

### **Research Fellowship**

UGC-NET – 5

Maulana Azad National Fellowship – 1

Others – 1

## Courses Conducted

### Postgraduate

**Semester-I:** Geomorphology, Climatology, Economic Geography, Geographical Thought-I, Quantitative Techniques in Geography-I, Cartography-I (Practical)

**Semester-II:** Geography of India, Principles of Ecology (open course) Biogeography (open course), Population and Settlement Geography, Geographical Thought-II, Quantitative Techniques in Geography-II, Cartography-II (Practical), Geography of North-East India (open course)

**Semester-III:** Geography of India, Principles of Ecology (open course) Biogeography (open course), Population and Settlement Geography, Geographical Thought-II, Quantitative Techniques in Geography-II, Cartography-II (Practical), Geography of North-East India (open course)

**Semester-IV:** Dissertation, Advanced Geomorphology, Tropical Geomorphology, Environmental Geomorphology, Applied Climatology, Agricultural Geography, Geography of Tourism, Urban Geography, Social Geography, Cultural Geography, Population and Development

### P.G. Diploma in Geoinformatics

**Semester I:** Principles of Remote Sensing & GPS; Fundamentals of GIS; Cartography & Geo-Statistics; Geosciences & Image Interpretation; Computer Programming.

**Semester II:** Digital Image Processing; Spatial Analysis & modelling; Project;

Geoinformatics in Agriculture, Soil & Land Evaluation; Geoinformatics in Regional and Urban Planning; Geoinformatics in Water Resources; Geoinformatics in Disaster Management

### M.Phil./Ph.D. Courses

Research Methodology in Geography, Advanced Tools and Techniques in Geographical Researches, Contemporary Geomorphic Issues in North-east India, Geo-Hydrological Processes of Extreme Humid Tropics; Population, Development and Environment, Remote Sensing and GIS Techniques for Agricultural Geography, Contemporary Issues in Urban Development with Special Reference to India, Geographical Perspectives in Cultural Tourism.

### Seminars/Conferences/Workshops/Symposia/Extension Programmes

## Organized

Prof. Sunil Kumar De coordinated the organization of the *Regional Webinar of the International Geomorphology Week - South and West Asia* on 03.03.2022 on behalf of the International Association of Geomorphologists (IAG), 1-6 March, 2022.

### Attended

Prof. D. K. Nayak delivered: (a) plenary lecture titled “Challenges of Sustainable Environment” in the National web conference on *Environment, Development and Livelihood: Sustaining Earth and people*, at Savitribai Phule Pune University, Pune in association with Institute of Indian Geographers, held from 10-12 June 2021; (b) invited lecture titled “...and Geography Matters” on August 6, 2021 at the National Atlas and Thematic Mapping Organisation, Kolkata celebrating 75<sup>th</sup> year of Independence on the theme *Geography Discipline: Its Past, Present and Future*; (c) special Lecture titled, “Words are Weapons: Using Right Lingo in Environmental Discourse” in the XVI International Online Conference of the Deccan Geographical Society on *Environment, Population & Sustainable Development*, at the Centre for Geographical Studies, Patna, 10<sup>th</sup>-12<sup>th</sup> September 2021; (d) the Inaugural Address on 25<sup>th</sup> February, 2022 in the International E-Conference on *Environment and Health: Frontiers Ahead*, Adamas University, Kolkata in collaboration with Foundation of Practising Geographers; (e) Invited Lecture on *The young North and the Old South: Implications of the Emerging Demographic Divide in India* at the Department of Geography, Cooch Behar PanchananBarma University, February 15, 2022; (f) Inaugural Lecture on *Regional Disparities in North-East India: Issues and Challenges* on Feb 28 in the Workshop-cum-Seminar on “Regional Disparities in India: Issues and Challenges” Sikkim University, 28<sup>th</sup> February - Mar 01, 2022. He was also the Key note Speaker at: (a) the ICSSR Sponsored National Seminar on “Sustainable Approach to Resource Management for Social Development”, 2-3 November 2021, Cotton University. Delivered a lecture on *The Place of Indigenous Communities in Sustainable Development: A Global Perspective*; (b) on the topic “Geography for People, Planet, Prosperity, and Peace” in the 42nd IIG Annual Meet and International E-Conference, 4-6 October, 2021, Chaired the Plenary Session. He also chaired the Technical Session 27: *Patterns and Process of Migration in 43rd Indian Geography Congress*, 28-30 October 2021, on 30th October, 2021; and chaired a session on December 9th, 2021 in the 52nd

Annual Meet of Regional Science Association conference on Resurgence of Regions, 8-10 December 2021 at the Institute of Development Studies Kolkata.

**Prof. S. K. De** delivered: (a) Invited lecture on 'Impact of Human Activities on River Health and Vice Versa: A Study on Haora River, Tripura' in the International Webinar On "Natural Resource Management & Sustainable Development: North-East Chapter" (17 -18 April 2021) organized by the Department of Geography, Mizoram University, Pachhunga University College Campus, Aizawl, Mizoram, India on 18.04.2021; (b) Plenary lecture on 'Impact of human activities on the dynamics of braiding in the lower course' in the National Web Conference on "Environment, Development and Livelihood: Sustaining Earth and People" jointly organized by the Department of Geography, Savitribai Phule Pune University (SPPU), Pune and Institute of Indian Geographers (IIG) during 10<sup>th</sup> to 12<sup>th</sup> June, 2021; (c) Invited talk on 'Progress in Indian Geomorphology' as the Special Guest and Chaired a technical session in the inaugural session of the 33rd Conference of the Indian Institute of Geomorphologists (IGI) and International webinar on 'Geomorphology & Environmental Sustainability' organized by the Department of Geography, Allahabad University during 2-4 December, 2021. He also chaired: (a) Plenary Session – I in the 42<sup>nd</sup> IIG Annual Meet as an International E-Conference on "Geography for People, Planet, Prosperity and Peace" jointly organized by the Department of Geography, Savitribai Phule Pune University (SPPU), Pune and Institute of Indian Geographers (IIG) during 4<sup>th</sup> to 6<sup>th</sup> October, 2021; (b) Technical Session 3 in the '3<sup>rd</sup> Annual Meet of the Save the Environment (STE) and International Conference on Environment, Water, Agriculture, Sustainability and Health (Ewash-2021): United Together in the Battle Against Pandemic' organized by the Hindu College, New Delhi during 21-22 January, 2022.

## **Publications**

### ***Published in India Research Papers***

Bora, A., Mipun. B.S., Parmar, M. (2021). Land Degradation/Desertification Vulnerability Index: Using Modified Weighted Index: A study on West Khasi Hills District, Meghalaya India. *International Journal of Scientific Research and Engineering Development*, 4 (5): 169-177.

Bora, A., Mipun. B.S., Parmar, M., (2021). Potency of Modified Weighted Index Analysis for Land degradation /desertification vulnerability Index: A case study on Golaghat District, Assam, India. *International Journal of Research Publication and Reviews*, 2 (9): 328-334.

Das, K., Bandyopadhyay, S., De, S. K. (2021). Assessing the Impact of Riverbank Erosion on Land Use/Land Cover along the Lower Reach of Balasan River, West Bengal. *Journal of Indian Geomorphology*, 9: 56-76.

Karim, S., Das, S., De, S. K. (2021). Statistical analysis of annual maximum flows of a controlled river: A study on the Kangsabati River, India. *Annals of the National Association of Geographers of India*, 41 (2): 234-254.

Lemtur, S., Syiemlieh, H. J., Cajee, L. (2021). Estimating key determinants of household water consumption in Sohra, Meghalaya. *Transactions*, 43 (2): 277-289.

Mallick, S., De, S. K. (2020). Impact of Human Activities on Water Quality and vice versa on Ranikhola River in Sikkim, India. *Indian Journal of Landscape Systems and Ecological Studies*, 43(2): 50-68.

Mipun, B.S., Begum, J. (2021). Oil Mining and its Impact on Agricultural Landuse and Crop Production in Sivasagar District, Assam. *Hill Geographer*, XXXVII (1): 89-102.

Purkayastha, S., Chandra, S. (2021). Role of socio-economic factors in micro level analysis to floods in Kuttanad Wetland. *Journal of Geography and Natural disaster*, 11(10): 1000p511.

## **Book**

Debbarma, R., Purkayastha S. (2022). *Rubber Plantation in Tripura changing Livelihood*. Regency Pub., New Delhi, ISBN: 978-93-5461-333-3.

## **Book Chapters**

Ryngnga, P.K. (2021). Reviving Traditional Water harvesting System in Meghalaya: The Need of the hour. In *Understanding Water Crisis*. D. A. Kharshandy and K. (Eds.). Laksh Publishers, New Delhi, Chapter 18, pp. 201-206.

Saikia, P., Mipun, B.S. (2021). Assessment of Support Vector Machine and Random Forest Classification Technique of Sentinel-2 data for landuse/land cover Mapping of Shillong Urban Agglomeration. In *Urbanization and Climate*

*Change in 21<sup>st</sup> Century: Opportunities and Challenges*. A. Rahman (Ed.). R. K. Books, New Delhi, Chapter 14, pp 224-238.

Sen, S., Mitra, S., De, S. K. (2020). Evolution of Tilla-Lunga Topography, West Tripura, India. In *Land Resources: Processes, Degradation and Evaluation*. H. S. Sharma and S. Padmaja (Eds.). Concept Publishing Company (P) Ltd, New Delhi. Chapter 3, pp. 143-159.

#### **Published Abroad**

#### **Research Papers**

**Debnath, M., Nayak, D.K. (2021).**

Determinants of temporary migration of rural small, marginal and landless households in West Bengal, India. *SN SocSci*, 1: 255.  
<https://doi.org/10.1007/s43545-021-00262-y>.

Debnath, M., Nayak, D.K. (2021). Rural out-migration as a coping strategy in the drought-prone areas of *Rarh* region of Eastern India. *International Migration*.  
<https://doi.org/10.1111/imig.12908>.

Debnath, M., Nayak, D.K. (2022). Dynamic use of remittances and its benefit on rural migrant households: insights from rural West Bengal, India. *Geo Journal*. DOI:  
<https://doi.org/10.1007/s10708-022-10587-7>.

Chowdhury, A., Kroczeck, T., De, S. K., Vilímek, V., Sharma, M. C., Debnath, M. (2021). Glacial Lake Evolution (1962–2018) and Outburst Susceptibility of Gurudongmar Lake Complex in the Tista Basin, Sikkim Himalaya (India). *Water*, MDPI, 13, 3565: 4-22.  
<https://doi.org/10.3390/w13243565> (IF: 3.530)

Chowdhury, A., Sharma, M. C., De, S. K., Debnath, M. (2021). Glacier changes in the Chhombu Chhu Watershed of the Tista basin between 1975 and 2018, the Sikkim Himalaya, India. *Earth System Sciences Data*, 13: 2923-2944. DOI: <https://doi.org/10.5194/essd-13-2923-2021> (IF: 11.333)

Rishi, H., Purkayastha, S. (2021). Living with floods: A comparative assessment of resilience to floods in Tal and Diara Regions of Malda district, West Bengal. *Current World Environment*, 16 (3): 848-860  
<http://dx.doi.org/10.12944/CWE.16.3.16>

#### **Book Chapter**

Ryngnga, P. K. (2022). Green roofs for healthy living in cities: A new normal since Covid -19. In *Smart Environmental Science Technology and Management. Lecture Notes on Environment Conservation and Enrichment*. S. Singh, M. Aurifullah, P. Kianmehr, M. Dragomirescu (Eds.). Technoarete Publishers, Manila, Chapter 11, pp. 1-4.

#### **Funds Received during the current Year**

##### **(D) Bulk Grant to Department/Centre/Section etc. other than EMR grant**

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	13
02	UGC (SAP, CAS, Seminar etc.)	Nil
03	DST (FIST, PURSE, Seminar etc.)	Nil
04	NEC (program name)	Nil
05	Others	Nil

##### **(E) EMR Research Projects to individual faculty members:**

Title of Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of Investigator or (PI/Co-PI)	Multi/Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Urban gardening for Community Sustainability in Shillong (2.0)	New	Prof. PK Ryngnga (PI)/ Mrs B Chyne (Co-PI)	Multi (2021-2025)	Agriculture Department, Government of Meghalaya Shilong	Nil

#### **Academic Collaborations**

Name of collaborator	Name of Institute	Project title
Prof. H. J. Syiemlieh & Prof. S. K. De	Department of Geoenvironmental Research, Institute of Geography and Spatial Organization, Polish Academy of Science, Kraków, Poland	Soil and river habitat degradation in an area with extreme rainfall
Prof. L. Cajee & Prof. H. J. Syiemlieh	Kagawa University, Takamatsu, Japan	Climate Change in South Asia
Prof. P. K. Rynnga	Thrive Institute. Agriculture Training for communities in Africa, Zimbabwe	Organic gardening and growing health in communities: A selected Case Study on developing countries

### Honours/Awards/Recognition/Membership/Fellowship

**Prof. D. K. Nayak** was Editorial Board member of the International Journal Social Sciences, Science Publishing Group.

**Prof. S. K. De** delivered Prof. R. N. Dubey Memorial Lecture on ‘Trends in Geomorphology and Human Impact on Braiding Dynamics in the Lower Course of the Balasan River, West Bengal, India’ in the Department of Geography, University of Allahabad, Prayagraj on 15.11.2021. He was also elected as the Executive Committee Member of the National Association of Geographers, India (NAGI), Delhi. He was nominated as the Editor-in-Chief of the journal *Indian Geographical Research*.

**Prof. P. K. Rynnga** was Member of Editorial Board of North East India Council of Social Research. She also received best paper Presentation Award on Green roofs for healthy living in cities; A new normal since Covid-19 at 7<sup>th</sup> Go Green Summit, Bioleagues, on 14<sup>th</sup> October 2021. She also won a One year fellowship (2021-2022) at Thrive Institute Agriculture training for communities in Africa, Zimbabwe.

### Other Activities

**Prof. D. K. Nayak** was appointed Chief Jury member, Annual Eurasian Slogan Writing Competition on *Energy Conservation: save Today Survive Tomorrow*, Mata Gujri College, Punjab, 20<sup>th</sup> July 2021. He delivered lectures at (a) UGC HRDC NEHU Short Term Course on Research Methodology (18-25 August 2021) on “Introduction to Research Methodology”, “Style Manual in academic Writing”, and “Literature Review”; (b) UGC HRDC NEHU Faculty Induction Programme (9th September-8th October, 2021). He delivered lectures on

“Introduction to Academic Writing and Publications for Professional Growth”, “Style Manual in academic Writing”, and “Assessment and Evaluation to Enhance Students’ Learning”; (c) UGC-HRDC, Punjab University, Chandigarh, Refresher Course on “Research Methodology for Social Sciences” (22.09.2021 to 05.10.2021). He spoke on “Literature Review” and “Content Analysis”; (d) Bombay University UGC-HRDC Refresher Course on “Sustainability, Development and Community Resilience: A Spatio-Social Perspectives” (24 Nov. 4 to Dec. 2021), and delivered lecture on “Achieving Sustainable Development: The Case of the Indigenous Communities World over and In India”; (e) UGC HRDC NEHU Refresher Course (1st to 16th of November, 2021), and spoke on “Food Security in Tribal Areas”; (f) University of Calcutta UGC-HRDC Refresher course in Geography and spoke on “Critical Perspectives in Geography” (10<sup>th</sup> Jan, 2022).

**Prof. S. K. De** delivered: (a) Invited lecture on ‘Risk Assessment of Landslides – Case Studies from Tripura’ as a resource person in the three days Training Programme on ‘Landslide Risk Mitigation and Detailed Project Report (DPR) Preparation’ jointly organized by the Department of Geology, NEHU, Shillong and National Disaster Management Authority (Govt. of India) during 28-30 March, 2022; (b) lecture on ‘Landslide risk Zonation and remedial measure: Example from Tripura’ as a Resource person in the Refresher Course in Environmental Science on ‘Sustainability of Earth: Challenges and Mitigation Strategies’ organized by the UGC-MHRD, North-Bengal University, P.O. North Bengal University, Siliguri, Dist. Darjeeling, Pin: 734013 on 28.02.2022; (c) lectures as a Resource person in the UGC-MHRD Refresher Course in Environmental Science on ‘Recent Environmental Problems and Mitigation

Measures' organized by the Centre for Environmental Sciences, University of Madras on 23.02.2022; (d) lecture as a Resource person in the Refresher Course in "Critical Perspectives in Geography" organized by the UGC-Human Resource Development Centre, University of Calcutta on 19.01.2022; (e) lecture on 'An intergraded approach towards landslide hazard zonation and mitigation' as a Resource person in the Refresher Course on 'Geography and Earth Sciences' organized by the UGC-Human Resource Development Centre, Dr. H. S. Gour Vishwavidyalaya, Sagar on 17.01.2022; (f) lecture as a Resource person in the 'Skill Development Certificate Course on "Application of Remote Sensing and Geographical Information System in Natural Resource and Environmental Management"' under the Rashtriya Uchchatar Shiksha Abhiyan (RUSA) Program' organized by the Department of Environmental Science, University of Kalyani, Nadia, West Bengal on 07.01.2022; (g) lecture as a Resource person in the '3<sup>rd</sup> Online 2- Week Refresher Course in Disaster Management (Interdisciplinary)' organized by the UGC-Human Resource Development Centre, Jamia Millia Islamia on 31.12.2021; (h) Invited talk on 'Landslides Risk zonation and management plan: Examples from Tripura' in the 3 days capacity building program on 'Landslides risk management through geospatial analysis' during 15 – 17<sup>th</sup> Nov, 2021 organized by South Asian Institute for Advanced Research and Development (SAIARD) and National Institute of Disaster Management (NIDM) on 15.11.2021; (i) lectures as a Resource person in the Refresher Course in Geography organized by the UGC-

Human Resource Development Centre, Kumaun University, Nainital on 27.09.2021; (j) lecture as the Guest of Honor in the Inaugural Function in the Refresher Course in Disaster Management organized by the UGC-Human Resource Development Centre, University of Allahabad on 24. 09. 2021; (k) lecture on "Impact of Human Activities on River Health and Vice Versa: A Study on Haora River, Tripura" in the Online Lecture Series organized by the Department of Geography, East Calcutta Girls' College, Kolkata on the occasion of celebrating the World Environment Day 2021 on the UN theme "Reimagine, Recreate and Restore" on 05.08.2021; (l) online lecture on 'Mechanism, Causes and Measures of Landslide Hazard: Examples from different areas' on the occasion of 50 years successful service to the Nation of the Department of Science and Technology, Govt. of India organized by the National Atlas and Thematic Mapping Organization (NATMO) on 17.06.2021; (m) lecture on "Understanding the Earth's Surface" as an invited speaker in the Webinar Lecture Series on 'Future Geographers-II: Exploring the Career Goals and Competencies, 2021' organized by the Department of Geography, School of Basic and Applied Sciences, Adamas University on 22.05.2021.

**Prof. L. Cajee** served as Proctor, North Eastern Hill University.

**Prof. P.K. Rynnga** was Member of Krishi Vigyan Kendra, Plant Protection, Agriculture Department, Government of Meghalaya. She was also awarded degree in Post Graduate Diploma in Urban Planning & Development, IGNOU.

#### SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	Name		1	B. S. Mipun	D.K.Nayak	H.J.Syiemlieh
	Date of Joining		2	06.06.1989	01.01.1986	23.02.1994
	Field of specialisation		3	Agricultural Geography & RS GIS	Social and Population Geography	Fluvial and Applied Geomorphology
(A) Teaching Experience (in Years)	UG		4	0	0	0
	PG, including PhD		5	36	36	28
	Basic Research		6	0	0	0
	Applied Research		7	1	0	1
	Action Research		8	0	0	0
	Project Submitted		9	0	0	0
	Ongoing Project		10	0	0	0
	Research Paper in UGC care list	Group I	11	0	3	1
		Group II	12	3	0	0

(B) Research activities	journals					
	Books /Books chapters Published	Books	13	0	0	0
		Book Chapters	14	1	0	0
	Popular Articles (News Paper/ Magazines)		15	0	0	0
	Seminar / Conference/ Symposia organized	National	16	0	0	0
		International	17	0	0	0
	Seminar / Conference/ Symposia attended	National	18	0	10	0
		International	19	0	0	1
(C) Patent	Conference Proceedings		20	0	0	0
	Consultancy		21	0	0	0
	Applied		22	0	0	0
(D) E-Content	Published		23	0	0	0
	Granted		24	0	0	0
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	0	0	0
(E) Any Other	Teaching /Extension /outreach activities		26	0	0	Yes
	Responsibilities other than teaching		27	0	yes	6
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	0	1	0
	Collaborations	National	29	0	0	1
		International	30	0	0	2

Details of Faculties	Name		1	S. K. De	L.Cajee
	Date of Joining		2	28.06.2013	25/03/1997
	Field of specialisation		3	Environmental Geomorphology and Hazards	Biogeography & Geography of Tourism
(A) Teaching Experience (in Years)	UG		4	6 years	3.12
	PG, including PhD		5	16 years	25
(B)	Basic Research		6	0	0
	Applied Research		7	Yes	0
	Action Research		8	0	0
	Project Submitted		9	0	0
	Ongoing Project		10	0	0
	Research Paper in UGC care list journals	Group I	11	2	1
		Group II	12	2	0
	Books /Books chapters Published	Books	13	0	0
		Book	14	1	0

Research activities		Chapters			
	Popular Articles (News Paper/ Magazines)		15	0	0
	Seminar / Conference/ Symposia organized	National	16	0	0
		International	17	1	0
	Seminar / Conference/ Symposia attended	National	18	5	0
		International	19	0	0
	Conference Proceedings		20	0	0
(C) Patent	Consultancy		21	0	0
	Applied		22	0	0
	Published		23	0	0
(D) E-Content	Granted		24	0	0
	MOOC/SWAYAM/ E-content developed		25	0	0
(E) Any Other	Teaching /Extension /outreach activities		26	Yes	0
	Responsibilities other than teaching		27	13	YES
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	03	0
	Collaborations	National	29	0	0
		International	30	0	1



Details of Faculties	Name		1	P.K.Ryngnga	S.Pukayastha
	Date of Joining		2	21-05-2003	15.12.2005
	Field of specialisation		3	Regional Development, Urban Planning, RS & GIS	Human Geography
(A) Teaching Experience (in Years)	UG		4	0	15 yrs
	PG, including PhD		5	20	17 yrs
(B) Research activities	Basic Research		6	5	0
	Applied Research		7	21	0
	Action Research		8	14	0
	Project Submitted		9	4	0
	Ongoing Project		10	2	0
	Research Paper in UGC care list journals	Group I	11	0	0
		Group II	12	0	1
	Books /Books chapters Published	Books	13	0	1
		Book Chapters	14	2	0
	Popular Articles (News Paper/ Magazines)		15	0	0
	Seminar / Conference/ Symposia organized	National	16	0	0
		International	17	0	0
	Seminar / Conference/ Symposia attended	National	18	11	0
		International	19	5	0
	Conference Proceedings		20	0	0
	Consultancy		21	0	0
(C) Patent	Applied		22	0	0
	Published		23	0	0
	Granted		24	0	0
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	0	0
(E) Any Other	Teaching /Extension /outreach activities		26	YES	0
	Responsibilities other than teaching		27	YES	YES
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	YES	0
	Collaborations	National	29	YES	0
		International	30	YES	0

## DEPARTMENT OF GEOLOGY

**Head** : Prof. Devesh Walia  
**Telephone** : +91-9436163641  
**E-mail** : [hodgeology@nehu.ac.in](mailto:hodgeology@nehu.ac.in) ; [drdeveshwalia@gmail.com](mailto:drdeveshwalia@gmail.com)

### Faculty Profile

Designation	Name and Qualification	Specialization
Professor	Dr. Devesh Walia, M.Tech.(DHSGU, Sagar), Ph.D. (Gauhati University)	Structure and Tectonics of NE Indian region; Magnetotellurics; Radon Emanation Studies; Micro-seismology; Hydrogeology; Global Positioning System, Seismic Disaster Management and Mitigation; Earthquake Forecasting; Remote Sensing and GIS.

### Thrust Areas of Research

Structure and Tectonics; Geophysics and Water Resources, Radon Emanation Studies, Micro Seismology, Global Positioning System, Seismic Disaster Management and Mitigation; Earthquake Forecasting and Geophysics and Geospatial Technologies

### Brief Statement of Academic Activities and Achievements

The Department of Geology was established on 23<sup>rd</sup> February 2021 after sanction from the University Grants Commission, New Delhi and approval from the NEHU's Executive Council. The Department of Geology is placed under the School of Human and Environmental Sciences and has approval to service the M.Sc. and Ph.D. programmes in the field of Geology. After the establishment of the Department of Geology the services of Prof. D.Walia were transferred from Department of Environmental Studies to Department of Geology. The approval of the framework and syllabus of the M.Sc. program was granted by the Academic Council.

### Students' Profile

**Enrolment Capacity: M.Sc. 14 + EWS; PhD – Variable**

### Enrolment of students from different States of India and Abroad

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	3	3	-	1	-	-	-	1	-	-	3	5
Assam	1	3	-	-	-	-	-	-	-	-	-	-	1	3
Manipur	-	-	2	-	-	-	-	-	-	-	-	-	2	-
Nagaland	-	1	-	-	-	-	-	-	-	-	-	-	-	1
West Bengal	-	-	-	-	-	-	-	-	-	1	-	-	-	1
Sub Total	1	4	5	3	-	1	-	-	-	-	-	-	6	10
Total	5		8		1		-		2		-		16	

### Fieldwork/Educational Tour of Students

**Teacher-in-Charge:** Prof. Devesh Walia

**Places/Institutions Visited:** Arunachal Pradesh (Bhalukpong, Bomdila, Dirang, Tawang), Assam (Jorabat, Nagaon, Tezpur), Meghalaya (Sohra, Mawngap, Umiam, Umroi, Nongpoh)

**Duration of Tour (Dates and number of days):** 16-03-2022 to 29-03-2022 (14 days)

**Purpose of Tour:** To learn basics of geological field work, identification of various rock types in the field, geological structures & their disposition and stratigraphical significance in the field setup.

### Courses Conducted

**Postgraduate**

### *Semester I*

Geomorphology and physical geology, Mineralogy and crystallography, Structural geology and tectonics, Paleo-biology, Practical

### *Semester II*

Igneous and metamorphic petrology, Sedimentology and stratigraphy, Practical, Geochemistry and geophysics, Disaster risk resilience

### *Semester III*

Economic geology, Hydrogeology, Practical, Mineral exploration and mining geology, Geoinformatics

### *Semester IV*

Fuel geology, Engineering geology and environmental geology, Practical, Dissertation, Quaternary Geology (Special Paper), Climatology and Oceanography (Special Paper), Field Work and Field Report **Ph.D.**

Research Methodology; Review of Literature & Report Writing; Research Problems in Geoscience; Research and Publication Ethics

### **Seminars/Conferences/Workshops/Symposia/Extension Programmes**

#### ***Organized***

<b>Name of Event</b>	<b>Date</b>	<b>Venue</b>	<b>Place</b>	<b>Name of Convener/ Organising Secretary</b>
Online Essay, Photography and Quiz competition on the Occasion of International Mother Earth Day 2021	22-04-2021	Department of Geology, NEHU, Shillong	Shillong	Prof. Devesh Walia
Azadi ka Amrit Mahotsav Lecture Series on Geology of North-Eastern India	29-04-2021	Department of Geology, NEHU, Shillong	Shillong	Prof. Devesh Walia
Celebration of World Environment Day 2021 and interaction on “UN Decade on Ecosystem Restoration”	05-06-2021	Department of Geology, NEHU, Shillong	Shillong	Prof. Devesh Walia
Celebration of 7th International Day of Yoga 2021	21-06-2021	Department of Geology, NEHU, Shillong	Shillong	Prof. Devesh Walia
Training Programme on Landslide Risk Mitigation and Management in North-East India	28-06-2021 to 31-06-2021	Department of Geology, NEHU, Shillong	Shillong	Prof. Devesh Walia
Online Quiz Competition for Celebrating International Youth Day 2021	12-08-2021	Department of Geology, NEHU, Shillong	Shillong	Prof. Devesh Walia
Online GeoQuiz 2022	03-09-2021	Department of Geology, NEHU, Shillong	Shillong	Prof. Devesh Walia
International Webinar on Permafrost Research: Opportunities and Scope in India	25-09-2021	Department of Geology, NEHU, Shillong	Shillong	Prof. Devesh Walia

Webinar on Building Incubation Ecosystem in NEHU	29-10-2021	Department of Geology, NEHU, Shillong	Shillong	Prof. Devesh Walia
Three days online Training Programme on “Capacity Enhancement on Disaster Risk Reduction in Education Sector”	15-11-2021 to 17-11-2021	National Institute of Disaster Management (Ministry of Home Affairs, Govt. of India) and Department of Geology, NEHU, Shillong	Shillong	Prof. Devesh Walia
58th Annual Convention of Indian Geophysical Union “Recent Advances in Earth Sciences with Special Emphasis – Natural Hazards”	02-02-2022 to 04-02-2022	Indian Geophysical Union and Department of Geology, NEHU, Shillong	Shillong	Prof. Devesh Walia
GeoQuiz 2022 – Celebrating National Science Day	26-02-2022	Department of Geology, NEHU, Shillong	Shillong	Prof. Devesh Walia

## Publications

### Research Papers

Sharma, G., Soubam, M., Walia, D., Nishant, N., Sarma, K. K., Raju, P. L. N. (2021). Development of a monitoring system for ionospheric TEC variability before the earthquakes. *Applied Computing and Geosciences*, 9: 100052.

Barman, B. K., Rao, K. S., Prasad, N. S., Walia, D. (2022). Significance of neotectonics in assessing the relative tectonic activity in and around the Mat Fault of Eastern Himalayan Fold Belt, Mizoram, north-east India. *Geological Journal*, 1-16. DOI: 10.1002/GJ.4356

Siangshai, D. M., Walia, D., Saxena, A., Lyngdoh, A. C. (2021) Assessing the Seismicity of Shillong Plateau Using ‘b value’. *International Journal of Earth Science and Geophysics*, 7:051, DOI: 10.35840/2631-5033/1851

### Funds Received during the current Year

#### (A) Bulk Grant to Department/Centre/Section etc. other than EMR grant

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NIDM	3.0
02	NDMA	2.14347

## Academic Collaborations

### National

The Department collaborated with Theta Enerlytics Pvt. Ltd., IUCN, and Centre for Earth Sciences and Himalayan Studies (Arunachal Pradesh).

### International

The Department collaborated with Earth Observatory of Singapore (NTU), Singapore; and Institute of Physics of the Earth (RAS), Moscow.

### Honours/Awards/Recognition/Membership/

## Fellowship

Prof. D. Walia was Life Member and Vice-Chairman, Shillong Chapter, Council for Educational Administration and Management (CEAM). He is also Life Member, Association of Petroleum Geologists (APG).

## Other Activities

Prof. D. Walia was Resource Person in (i) the two weeks /15 days faculty development program on the theme “Challenges in Multidisciplinary Research” at Mahatma Gandhi Vidyamandir, Institute of Management & Research, Nashik, from 15-06-2021 to 29-06-2021; and (ii) 3 days Training Programme on Disaster Management with the collaboration with MGCGV, Chitrakoot, M P and National Institute of Disaster Management (Ministry of Home Affairs, Govt. of India), New Delhi from 24-08-2021 to 26-08-2021. He was also Guest Speaker at (i) Meghna Knowledge Forum (MKF) 2021, Bangladesh and India Online held on 22-06-2021 to 24-06-2021, and (ii) at Students Seminars on “Environmental Protection and Legislative Measures in India” Department of Geology, Sibsagar College, Joysagar, Assam on 27-07-2021. He was Chief

Guest at the One day public interaction programme on “Know your Aquifer, Aquifer Maps, Ground water Issues & Management Plans” Government of India, Ministry of Jal Shakti, Department of Water Resources, RD & GR Central Ground Water Board, State Unit Office, Shillong on 10-07-2021. He was Moderator & Organizer, International Multidisciplinary Conference on “Gender Equity for Sustainable Development”

Held by Department of Education, North-Eastern Hill University, Shillong in collaboration with Council for Educational Administration and Management (CEAM) India, Thiruvananthapuram, Kerala (11-12, November 2021); and Organizing committee member of North-East Education Conclave, in the light of National Education Policy – 2020 at Gauhati Medical College & Hospital Auditorium, Bhangagarh Guwahati on 20-21, November 2021. He was also Invited Speaker in “Distinguished Faculty Lecture Series” Organized by Association of Petroleum Geologists, India and Assam Arakan Basin, Jorhat, Assam on 30-11-2021.

## SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	Name		1	Devesh Walia
	Date of Joining		2	19-12-1990
	Field of specialisation		3	Structure and Tectonics; Radon Emanation Studies, Seismic Disaster Management and Mitigation; Climate Change and Water Resources and Geophysics and Geospatial Technologies
(A) Teaching Experience (in Years)	UG		4	10
	PG, including PhD		5	23
(B) Research activities	Basic Research		6	15
	Applied Research		7	08
	Action Research		8	20
	Project Submitted		9	6
	Ongoing Project		10	2
	Research Paper in UGC care list journals	Group I	11	-
		Group II	12	3
	Books /Books chapters Published	Books	13	-
		Book Chapters	14	-
	Popular Articles (News Paper/ Magazines)		15	-
	Seminar / Conference/ Symposia organized	National	16	12
		International	17	15
	Seminar /	National	18	15

	Conference/ Symposia attended	International	19	25
	Conference Proceedings		20	04
	Consultancy		21	02
(C) Patent	Applied		22	-
	Published		23	-
	Granted		24	-
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	01
(E) Any Other	Teaching /Extension /outreach activities		26	12
	Responsibilities other than teaching		27	08
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	02
	Collaborations	National	29	02
		International	30	02

## DEPARTMENT OF HORTICULTURE

**Head:** Prof. C.P. Suresh

**Telephone:** 8974455216

**E-mail:** [nehuhort@gmail.com](mailto:nehuhort@gmail.com), [hodhort@nehu.ac.in](mailto:hodhort@nehu.ac.in)

### Faculty Profile

Designation	Name and Qualification	Specialization
<b>Professor</b>	Dr. C. Perinba Suresh M.Sc.(BCKV), Ph.D. ( BCKV)	Fruits and Orchard Management, Post-Harvest Technology of Horticultural Crops
<b>Associate Professor</b>	Dr. Sunil Kumar (on lien in CHF, Pasighat, Ar.P) M.Sc. (BHU), Ph.D. (CCS HAU)	Floriculture
<b>Assistant Professor</b>	Dr. Arvind Kumar Chaurasiya M.Sc. (NDUAT), Ph.D. (BCKV)	Post-Harvest Technology of Horticultural Crops
	Dr. Arindam Barman M.Sc. (GBPUA&T) Ph.D. (IIT, Dhanbad)	Vegetable Science and Molecular biology
	Dr. Yumnam Somi Singh M.Sc. (UAS-Dharwad) Ph.D. (BCKV)	Fruit Science, Fruits and Orchard Management

### Thrust Areas of Research

The thrust area includes conservation of genetic biodiversity especially on Horticultural crops like banana, citrus, pineapple, papaya, jackfruit and minor/underutilized fruits viz. blood fruit, bayberry, passion fruit, dragon fruit etc., sustainable organic farming, standardization of production techniques for the fruit crops under hill horticulture, strengthening of existing horticultural nurseries and resilience to the changing climatic scenario.

### Brief Statement of Academic Activities and Achievements

The utmost priority of the department is to impart knowledge and education related to Horticulture and allied branches and to serve as a centre in North-East for the academic excellence in Horticulture. The Department mainly concentrates on Horticultural related dissemination of knowledge to the students through systematic teaching, research and technology transfer through extension works with an aim to improve the production, productivity, conservation, nutrition and post-harvest management aspects of Hill Horticultural System and to develop technical and skilled manpower in North-Eastern regions in general and Meghalaya state in particular for the development of good horticultural practices and improvement in production and productivity.

### Students' Profile

**Enrolment Capacity: M.Sc. 15 Ph.D. – Variable**

Degree	Male	Female	SC	ST	OBC	GEN	EWS	Meghalaya	Non-Meghalaya**	Total
M.Sc. (Hort.)	4	10	-	11	1	2	-	11	3	14
Ph.D. (Hort.)	-	1	-	1	-	-	-	1	-	1

### Degrees Awarded

Degree	Male	Female	SC	ST	OBC	GEN	EWS	Meghalaya	Non-Meghalaya	Total
M.Sc. (Hort.)	03	10	-	11	1	-	1	11	02	13

## Research Fellowship

National Fellowship for SC/ST – 7

Others – 3

### Courses Conducted

**Postgraduate:** (i) M.Sc. (Hort.) Fruit Science; (ii) M.Sc. (Hort.) Vegetable Science

#### Semester I

Propagation and Nursery Management of Horticultural Crops; Protected Cultivation of Horticultural Crops; Organic Horticulture; Post-Harvest Technology of Horticultural Crops; Biotechnology of Horticultural Crops; Basic Statistical Methods in Agriculture.

#### Semester II

Growth and Development of Horticultural Crops; Tropical and Dry Land Fruit production; Biodiversity and Conservation of Fruit Crops; Production Technology of Warm Season Vegetable Crops; Seed Production Technology of Vegetable Crops; Production Technology of Cut Flowers; Landscaping and Ornamental Garden; Production of Plantation Crops; Library Information and Basic Concepts of Laboratory Techniques.

#### Semester III

Breeding of Fruit Crops; Breeding of Vegetable Crops; Breeding of Flower Crops and Ornamental plants; Sub-Tropical and Temperate Fruit production; Canopy Management of Fruit Crops; Production Technology of Cool Season Vegetable Crops; Production Technology of Loose Flowers; Turfing and Turf Management; Intellectual Property and Its Application in Agriculture; Processing of Plantation Crops, Spices, Medicinal and Aromatic Crops; Production Technology of Under Exploited Vegetable Crops; Research-I (Methodology and Seminar).

#### Semester IV

Research II (Field Laboratory Analysis); Research III (Data Analysis and Interpretation); Research IV Dissertation.

### PhD Courses

#### Semester I

Research Methodologies in Horticulture; Advances in Production of Fruit Crops; Advances in Growth and Development of Fruit Crops; Advances in Production of Major and Under-Utilized Vegetable Crops; Advances in Breeding

of Vegetable Crops; Advances in Flower Production; Advances in Breeding of Flower Crops.

#### Semester II

Advances in Breeding of Fruit Crops; Biotic and Abiotic Stress Management in Vegetable Crops; Advances in Landscaping; Organic Horticulture; Advances in Post-Harvest Technology of Fruit Crops; Advances in Post-Harvest Technology of Vegetable Crops; Advances in Post-Harvest Technology of Flower Crops; Protected Cultivation of Fruit Crops; Protected Cultivation of Vegetable Crops; Protected Cultivation of Flower Crops.

### Publications

#### Published in India

##### Research Papers

Barman, A., Barman, R.M. (2022). Simple sequence repeat and rbcL marker based diversity analysis of Pumpkin (*Cucurbitamoschata* Duch.) germplasm from North Eastern Himalayan regions of India. *Stochastic modeling and applications*, 26 (3): 273-279.

Barman, A., Kar, A., Haorongbam, S. (2022). Indigenous uses of Packing leaves (*Phrynium pubinerve*) and their commercial cultivation for livelihood promotion in Northeast India. *Stochastic modeling and applications*, 26 (3): 239-244.

Natarajan, N., Sundararajan, S., Ramalingam, S., Suresh, C.P. (2021). Efficient and rapid in-vitro plantlet regeneration via somatic embryogenesis in ornamental bananas (*Musa* spp.). *Biologia*, 75(2): 317-326.

Natarajan, N., Sundararajan, S., Suresh, C.P., Ramalingam, S. (2021). In vitro somatic embryogenesis from immature female flower of *Musa* AAB cv. Chenichampa and molecular analysis of transcript factors (TFs) during somatic embryogenesis. *Plant Cell, Tissue and Organ Culture*, 142: 339.

Singh, Y.S., Swamy, G.S.K. (2021). Genetic variation for morphological and physico-chemical traits in jamun (*Syzygium cumini* Skeels). *International Journal of Minor Fruits, Medicinal and Aromatic Plants*, 7 (2): 73-78.



War, E., Suresh, C.P., Sangma, T.J.T. and Flory, H.R. (2022). Influence of organic manures on the growth, quality and yield attributes of Khasi mandarin (*Citrus reticulata* Blanco) in RiBhoi District of Meghalaya. *Crop Research*, 57(4): 261-265.

#### Book

Barman, A. (2022). *Instant Vegetable Science*. 6<sup>th</sup> Ed. Sharma Publishers & Distributor, New Delhi, ISBN: 13-978-81-920090-2-5.

#### Book Chapters

Mathukmi, K., Laishram, H., Sarkar, A., Suresh, C.P., Kamaie, D., Rinhphami, W.S. (2022). Banana and Plantain: A nutritious Fruit to combat food and nutrition deficit. In *Food security in global challenges*. Rao, R.K (Ed.). Mahima publications, Varanasi, UP., Chapter 29, pp. 221.

Singh, Y. S., Hemanta, L., Minerva, P., Devi, M. P., Devi, H. S., Devi, H. M. (2022). Indigenous organic farming practices. In *Indigenous Development in Agriculture under Covid-19 Pandemic*. Uma (Ed.). MKSES Publsiher, Lucknow, Chapter 8, pp. 110-124.

Kamei, D., Catherine, L. C., Mathukmi, K., Singh, Y. S. (2022). Wild edible plants of Northeast India: An important facet for food security. In: *Food Security in Global Challenges*. R. K. Rao (Ed.). Mahima Research Foundation & Social Welfare, Varanasi, Chapter 30, pp. 228-233.

Devi, O. B., Henny, T., Shiragur, M., Singh, Y. S., Momin, M. C. (2021). Plant growth regulators and their regulatory effects in horticultural crops. In *Advances in horticulture Sciences*. V. S. Kohale (Ed.). Integrated publications, New Delhi, Chapter 4, pp. 59-79.

#### EMR Research Projects

Title of Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name (PI/Co-PI)	Multi/Singl e Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Molecular and morphological diversity analysis of cucurbits of Garo Hills Meghalaya (42.81)	Completed	Dr. Arindam Barman (PI)	Multi-institute (2015-2017)	DBT, New Delhi	NIL
Utilization of novel biotechnological tools using agro-waste products for livelihood improvement of farmers of Meghalaya India (19.296)	Completed	Dr. Arindam Barman (Mentor Scientist)	Single (2017-2020)	DST, New Delhi	NIL
Isolation and characterization of bioactive components from indigenous plants of NEH region for antiurolithiatic potential with standardized phytochemical and pharmacological parameters (79.828)	Completed	Dr. Arindam Barman (PI)	Multi-institute (2018-2021)	DBT, New Delhi	NIL

Cultivation of packing leaves plant for livelihood enhancement of ST communities and promotion of packing leaves as substitute of plastics in Meghalaya (37.95)	Completed	Dr. Arindam Barman (PI)	Multi-institute (2019-2022)	National Mission on Himalayan Studies (NMHS), G.B. Pant National Institute of Himalayan Environment and Sustainable Development, Kosi-Katarmal, Almora	0.7013
Dissemination of farmers' varieties of different crops identified by NIF-India in Meghalaya for societal development (10.47226)	Ongoing	Dr. Arindam Barman (PI)	Single (2020-2022)	National Innovation Foundation, Govt. of India	NIL
Biotech-Krishi Innovation Science Application Network (Biotech-KISAN) in Meghalaya (Biotech Kisan Hub) (118)	New	Dr. Arindam Barman (PI)	Single (2022-2024)	DBT, New Delhi	64
Biotech-Krishi Innovation Science Application Network (Biotech-KISAN) in Kamrup (Metropolitan), Kamrup (Rural), Chirang and Kokrajhar districts (Biotech Kisan Hub) (93 )	New	Dr. Arindam Barman (Co-PI)	Single (2022-2024)	DBT, New Delhi	5
Characterization of high value phytochemicals of anti-diabetic and immunomodulatory properties in North Eastern banana varieties (56.30)	Ongoing	Prof. C.P. Suresh (PI)		Department of Biotechnology (DBT), New Delhi	NIL
Value addition of banana (Musa. sp) and creating small scale enterprises of Meghalaya tribal community through minimal processing technology (71.06)	Ongoing	Prof. C.P. Suresh (Co-PI)		DBT-NER Banana, DBT, Government of India.	NIL

Development of Low-Cost Process Technology for Extraction of Oleoresin, Essential Oils and its Value-added Products from Tejpatta (Cinnamomum tamala) and Creating Entrepreneurship for Tribal People of Meghalaya (30.0)	Ongoing	Dr. A.K. Chaurasiya (Co-PI)		Tribal Cooperative Marketing Development Federation of India (TRIFED), New Delhi	NIL

#### **Seminar/Conference/Symposium/Extension Programme etc.**

##### ***Attended***

**Prof. C. P. Suresh** delivered a paper entitled “Doubling Farmer’s Income for Economic & social Development of North east” organised by Tura Christian College dated 14<sup>th</sup> -15<sup>th</sup> January, 2022.

**Dr. Arindam Barman** delivered: (a) Invited lecture in the topic “Microgreens: Its Potential and Prospects” in the event “Organic Farming for Sustainable Agricultural Production in Garo Hills” organised by Krishi Vigyan Kendra, ICAR, West Garo Hills, Meghalaya on 23<sup>rd</sup> April 2021; (b) Invited lecture in the topic “Career Opportunities in Horticulture with special reference to Micro Green Cultivation” in the event *A webinar series to enrich and strengthen our UG academic program* organized by Department of Agriculture, Brainware University, Barasat, West Bengal on 30th October 2021.

#### **Academic Collaborations**

##### ***National***

**Prof. C.P. Suresh** collaborated with Dr. Muthu M. Vaganan, Principal Scientist, Biochemistry, National Research Centre for Banana, Trichy as a project partner in the project entitled “Characterization of high value phytochemicals of anti-diabetic and immunomodulatory properties in North-Eastern Banana varieties”. He

also collaborated with Prof. Karpura Kumaravel, Vice-chancellor (Acting) Central University of Tamil Nadu, Thiruvavur as an expert for beautification, curriculum development, member of Board of Studies, Dept of Horticulture and Floriculture and Member of Building committee.

**Dr. Arindam Barman** collaborated with Dr. Prakash Gupta, Chhatrapati Shahu Ji Maharaj University, Kanpur, Uttar Pradesh; Dr. Dharitri Bhrama, North Eastern Indira Gandhi Regional Institute of Health and Medical Sciences is a medical institute of India, Shillong, Meghalaya and Dr. Ashish Kar, The Energy and Research Institute (The North-Eastern Regional Centre), Guwahati on the DBT, New Delhi project entitled “Isolation and characterization of bioactive components from indigenous plants of NEH region for antiurolithiatic potential with standardized phytochemical and pharmacological parameters”. He also collaborated with Dr. Ashish Kar, The Energy and Research Institute (The North-Eastern Regional Centre), Guwahati on the National Mission on Himalayan Studies (NMHS) project entitled “Cultivation of packing leaves plant for livelihood enhancement of ST communities and promotion of packing leaves as substitute of plastics in Meghalaya”.

#### **Honours/Awards/Recognition/Membership/Fellowship**

**Prof. C P Suresh** was Member, Building Committee of Central University of Tamil Nadu,

Thiruvavur for the duration of three years (12-08-2019 to 11-08-2022).

**Dr. Arindam Barman** was member of Editorial Board of *Transient* journal of Don Bosco College, Tura, Meghalaya, India.

**Dr. Yumnam Somi Singh** was awarded “Young Scientist Award” in Fruit Science-2021 by Mahima Research Foundation and Social Welfare, B.H.U., Varanasi, Uttar Pradesh during the International Conference 25-26<sup>th</sup> September, 2021.

#### Other Activities

**Prof. C. P. Suresh** was member: (a) Governing Body, Loyola College, Williamnagar; (b)

Governing Body, Acheng Rangmanpa College, Mahendraganj; (c) Board of Studies for Department of Horticulture and Floriculture, Central University of Tamil Nadu, Thiruvavur; (d) Board of Management Deen Dayal Upadhyaya Community College.

**Dr. Arindam Barman** was Editor of NDP Journal of Horticulture and Plant Science (IJHPS) of New Delhi Publishers, New Delhi, India. He was also Reviewer for the journals (a) *International Journal of Agriculture Sciences*; (b) *International Journal of Agriculture Environment and Biotechnology (IJAEB)*.

### SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	Name		1	Prof. C. P. Suresh	Dr. Arvind Kumar Chaurasiya
	Date of Joining		2	28.06.2013	26-06-2012
	Field of specialisation		3	Fruits and Orchard Management, Post-Harvest Technology of Horticultural Crops	Post-Harvest Technology of Horticultural Crops
(A) Teaching Experience (in Years)	UG		4	12	-
	PG, including PhD		5	9	10
(B) Research activities	Basic Research		6	Yes	Yes
	Applied Research		7	Yes	Yes
	Action Research		8		
	Project Submitted		9	1	-
	Ongoing Project		10	2	1
	Research Paper in UGC care list journals	Group I	11	1	1
		Group II	12	3	
	Books /Books chapters Published	Books	13		
		Book Chapters	14	1	1
	Popular Articles (News Paper/ Magazines)		15		
	Seminar / Conference/ Symposia organized	National	16		
		International	17		
	Seminar / Conference/ Symposia attended	National	18	1	
		International	19		
	Conference Proceedings		20		
	Consultancy		21		
(C) Patent	Applied		22		
	Published		23		
	Granted		24		
(D) E-Content	MOOC/SWAYAM/ E-content developed		25		
	Teaching /Extension /outreach activities		26		

(E) Any Other	Responsibilities other than teaching		27	Head (Horticulture) Head In-Charge (Forestry)	
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28		
	Collaborations	National	29	2	
		International	30		

Details of Faculties	Name		1	Dr. Arindam Barman	Dr. Y.S. Singh
	Date of Joining		2	31.07.2012	21.08.2022
	Field of specialisation		3	Vegetable Science and Molecular biology	Fruits Science, Fruits and Orchard Management
(A) Teaching Experience (in Years)	UG		4	-	-
	PG, including PhD		5	10	9
(B) Research activities	Basic Research		6	Yes	Yes
	Applied Research		7	Yes	Yes
	Action Research		8		
	Project Submitted		9	2	
	Ongoing Project		10	4	
	Research Paper in UGC care list journals	Group I	11		
		Group II	12	3	
	Books /Books chapters Published	Books	13	1	
		Book Chapter	14		3
	Popular Articles (News Paper/ Magazines)		15		
	Seminar / Conference/ Symposia organized	National	16		
		International	17		
	Seminar / Conference/ Symposia attended	National	18	1	1
		International	19		
	Conference Proceedings		20		
	Consultancy		21		
(C) Patent	Applied		22		
	Published		23		
(D) E-Content	Granted		24		
	MOOC/SWAYAM/ E-content developed		25		
(E) Any Other	Teaching /Extension /outreach activities		26	Yes	
	Responsibilities other than teaching		27	Yes	
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28		1
	Collaborations	National	29	3	
		International	30		

**DEPARTMENT OF RURAL DEVELOPMENT AND AGRICULTURAL  
PRODUCTION**

**Head In Charge** : Prof. D.C. Kalita  
**Telephone** : 7005473148  
**E-mail** : hodrdap@nehu.ac.in

**Faculty Profile**

Designation	Name and Qualification	Specialization
<b>Professor</b>	Dr. D.C. Kalita, M.Sc. (Agri.) (AAU, Jorhat), Ph.D. (AAU, Jorhat)	Agricultural Economics
	Dr. S.C. Srivastava, MA & Ph.D. (Allahabad University)	Rural Development
<b>Associate Professor</b>	Dr. B. K. Mishra, M.Sc. (Agri.) & Ph.D. (Banaras Hindu University)	Dairy Science and Technology
	Dr. B. Mathew, M.Sc. (Agri.) & Ph.D. (Bidhan Chandra Krishi Viswavidyalaya, West Bengal)	Horticulture (Fruits and Orchard Management)
	Dr. L. S. Pereira, M.Sc. (Agri.) & Ph.D. (Bidhan Chandra Krishi Viswavidyalaya, West Bengal)	Horticulture (Fruits and Orchard Management)

**Thrust Areas of Research**

The department concentrates on multi-disciplinary research in the areas of rural development, agronomy, horticulture and dairy products and fermented foods. The department conducts studies on impact assessment, micro and decentralized planning, local governance, globalization and food security, indigenous knowledge systems in agriculture and allied sectors, conservation of bio-resources, animal husbandry, dairy and food sciences, fruit and vegetables preservation, ethnobotanical studies and plant biotechnology, horticulture, plant biotechnology, biodiversity, ethnobotany, tissue culture of fruits, conservation of endangered plants, biodiversity studies of fruits, phonological studies of fruits.

**Brief Statement of Academic Activities and Achievements**

Being multidisciplinary in nature the department undertakes both teaching and research in the areas concerning rural development, agronomy, horticulture and animal sciences. The department provided both theoretical and practical exposure to M.Sc. (RDAP) students in various areas relating to the multidisciplinary P.G programme. The department is also involved in carrying out Research projects, seminars, trainings, workshops etc.

During the period 6 research scholars were awarded with Ph.D. Degree. The faculty members delivered lectures in various seminars, conferences, training programme etc. The department also received external funds from NEC, Ministry of DONER, Govt. of India and Department of Biotechnology, Govt. of India, New Delhi.

**Students' Profile**

**Enrolment Capacity in M.Sc. in 2021-22: 25**

STATE	Gen		ST		SC		OBC		EWS		PWD		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	8	18	-	-	-	-	-	-	-	-	8	18
Total	-	-	8	18	-	-	-	-	-	-	-	-	8	18

## Enrolment Capacity in Ph.D. in 2021-22: Variable

### Degrees Awarded

#### M.Sc. Degrees Awarded to Students

STATE	GEN		ST		SC		OBC		EWS		PWD		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F

STATE	Gen		ST		SC		OBC		EWS		PWD		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Assam	-	-	-	-	-	1	-	-	-	-	-	-	-	1
West Bengal	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Sub Total	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Total	-	1	-	1	-	1	-	-	-	-	-	-	-	3
Meghalaya	-	-	5	1	-	-	-	-	-	-	-	-	5	1
Arunachal Pradesh	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Manipur	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Sub Total	1	-	5	1	-	-	-	-	-	-	-	-	6	1
Total	1	-	5	1	-	-	-	-	-	-	-	-	6	1

#### Ph.D. Degrees Awarded to Students

Sl. No	Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
1	Kyntiew Kupa Nongsiej	Impact, Usage and Maintenance of Selected Assets Created under Mahatma Gandhi National Rural Employment Guarantee Act in South West Khasi Hills District, Meghalaya	Prof. S.C. Srivastava (Supervisor), Prof. D.C. Kalita (Joint Supervisor)
2	Abhishisha Mawkhiew	Phenological Study of selected Mango variation in Garo Hills, Meghalaya	Dr. Lolly S. Pereira (Supervisor)
3	Adela D. Marak	Ethnomedicinal Plants used by Garo Tribe of Meghalaya and their Phytochemical Properties	Dr. Binu Mathew (Supervisor)
4	Pratibha Mohan	Financing and Resource use Efficiency of Composite Fish Culture in Sivasagar District of Assam	Prof. D.C. Kalita (Supervisor)
5	Gaithoilu Phaonaei	Diversity of Jackfruit (Artocarpus Heterophyllus Lam.) in the Garo Hills, Meghalaya	Dr. Binu Mathew (Supervisor)
6	Sujit Das	Isolation and Characterization of Lactobacillus Strains from Traditional foods of Meghalaya for the development of Probiotic Soya Yoghurt	Dr. B. K. Mishra (Supervisor)

#### Placement of Students

Name of the Student(s)	Name of the Programme	Post Held	Place of Work
Dr. Sujit Das	BIRAC, Govt. of India	Officer Technical	New Delhi
Dr. Gaithoilu Phaonaei	William Carey University	Assistant Professor	Shillong
Dr. Abhishisha Mawkhiew	William Carey University	Assistant Professor	Shillong

MattibakorMawlong	Meghalaya Basin Development Agency	Technical assistant	Laitkroh Block, East khasi hills district
Shining Star Pala	Meghalaya Basin Development Agency	EE	Khliehriat, Meghalaya

### Research Fellowship

UGC Non-NET – 1

DBT Fellowship – 1

### Courses Conducted

#### Postgraduate

##### Semester-I

General Aspects of Rural Development, Introductory Agriculture & Agronomy, Fundamentals of Horticulture, Introduction to Animal Husbandry and Poultry, Soil Conservation and Watershed Management, Computer Application.

##### Semester-II

Rural Development Approaches, Programmes and Policies, Package and Practices of field Crops, Plant propagation and Nursery Management, Dairy and livestock management, Farm Management, Organic Farming (Open Course).

##### Semester-III

Basic Statistics and Software Applications, Rural Development Organizations, Institutions and Administration, Production Technologies of Horticultural Crops-I, Principles and Practices of Dairy Management, Rural Development Planning and Project Management, Commercial Floriculture and Landscaping, Swine, Goat and Sheep Production, Dairy Farming and Rural Development, Economic Reforms and Rural Development.

##### Semester-IV

Rural Marketing and Entrepreneurship development, Research Methods, Agricultural Surveying and leveling, Rural credit and Micro-finance, Production Technology of Horticultural Crops-II, Processing of Livestock Products, IEC and Rural development, Post-Harvest Management of Horticultural Crops, Rabbit, Fishery and Poultry Production, Micro-enterprise and Non-Farm sector Development, Protected Cultivation of Horticultural Crops, Indigenous Dairy Products and Soya Milk.

### Ph.D. Courses

Research Methodology, General Aspects of Rural Development and Agricultural Production, Rural Development and Sustainable Change (Optional), Horticultural Production and Management (Optional), Animal Production and Management (Optional).

### Seminars/Conferences/Workshops/Symposia/Extension Programmes

#### Organized

**Dr. B. K. Mishra** was Organising Secretary at the 27<sup>th</sup> International Conference of International Academy of Physical science on *Advances in Food Science and Technology* held at NEHU, Tura Campus during October 26-28, 2021.

### Publications

#### Published in India

##### Research Papers

Begum, K., Mishra, B. K., Choubey, C. S. (2021). Functional Whey Based Health Drink Using *Saccharomyces Cerevisiae* and *Lactobacillus Plantarum*. *Bioved*, 31(1): 31-34.

Bliss, H., Das, P., Mishra, B. K. (2022). Gender roles in Integrated farming system - A Study of Meghalaya, India. *Environment and Ecology*, 40(1): 39-46.

Chakraborty, P., Nath, D., Hoque, M., Sarkar, P., Hati, S., Mishra, B. K. (2022). Biopolymer-based antimicrobial coatings for aquatic food products: A Review. *Journal of Food Processing and Preservation*, 46(4):1-22. <https://doi.org/10.1111/jfpp16465>.

Chhetri, K., Mathew, B., Pereira, L. S. (2021). In vitro direct shoot and root regeneration of Indian Wild Orange (*Citrus indica* Tanaka) using nodal



segments excised from mature tree. *Indian Journal of Hill Farming*, 34:31-40.

Chhetri, K., Mathew, B., Pereira, L. S. (2021). Micropropagation of *Citrus indica* Tanaka using shoot tips from mature trees. *Plant Tissue Culture and Biotechnology*, 31(1):13-23.

Hati, S., Mishra, B. K., Patel, M., Prajapati, J. B., Bhagora, N. J., Savaliya, F. B., Pathan, M., Jani, P. B., Ghodasara, D. J. (2021). Indigenous *Lactobacillus* strains improve growth performance and high-density cholesterol levels in broilers. *Indian Journal of Experimental Biology*, 59: 556-563.

Marak, A. D., Mathew, B. (2022). Traditional oral healthcare practices followed by the Garo tribe of West Garo Hills District, Meghalaya. *Indian Journal of Traditional Knowledge*, 21(2):287-291.

Marak, L.C., Pereira, L. S., Mathew, B. (2022). Influence of soil microbes on plant pathogens of *Artocarpusheterophyllus* in Nokrek Biosphere Reserve of Meghalaya. *Agricultural Research Journal*, 59 (1): 162-166. DOI No. 10.5958/2395-146X.2022.00025.4.

Mishra, B. K., Das, S., Prajapati, J. B., Hati, S. (2021). Bio-functional properties and Storage study of Chubitchi - a fermented rice beverage of Garo Hills, Meghalaya. *Indian Journal of Traditional Knowledge*, 20 (2): 498-511.

Priyamvada, S., Mishra, B. K., Bhagat, D., Choubey, C. S. (2021). Economics of Milk Supply Chain under Town Milk Supply Scheme in Jorhat District of Assam. *Bioved Journal*, 31(1): 35-41.

Saikia, B., Mishra, B. K. (2021), Development of Fermented Whey Beverage Supplementation with Lactic Acid Bacteria and *Plumbago Zeylanica* Extract. *Environment and Ecology*, 39(4A): 1347-1354.

### Book Chapter

Deb, A., Mathew, B. (2021). Diversification of Agriculture in the Hills of Meghalaya. In *Vulnerability to Food and Nutrition Insecurity under Mountain Specificities: Unique Challenges and Niche Opportunities*. Deepak Bhagat and Ram Singh (Eds.). New Delhi Publishers, Chapter 27, pp. 245-254.

### Funds Received during the current Year

#### (A) Bulk Grant to Department/Centre/Section etc. other than EMR grant

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	7.00
02	UGC (SAP, CAS, Seminar etc.)	Nil
03	DST (FIST, PURSE, Seminar etc.)	Nil
04	NEC (program name)	Nil
05	Others	Nil

#### (B) EMR Research Projects to individual faculty members:

Title of Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of Investigator (PI/Co-PI)	Multi/Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
BioNESTBioincubator Project [394.456]	Ongoing	Dr. B. K. Mishra	Single	BIRAC, DBT Govt. of India.	259.70
Deployment and Piloting of Improved Indigenous Fermented Food Product- Chubbitchi and Tungrymbai for the sustainable	Ongoing	Dr. B. K. Mishra	Single	DBT, Govt. of India	79.38476

Livelihood in Meghalaya [123.26952 ]					
STINER-Technology Facility Centre (STINER-TFC) at NEHU, Tura Campus [198.00]	Ongoing	Dr. B. Mathew (PI), Prof. D.C. Kalita (Co-PI), Dr. L.S. Pereira (Co-PI)	Multi	North Eastern Council, Ministry of DoNER, Govt. of India	Nil

### Academic Collaborations

The department collaborated with (a) KIIT, Bhubaneswar, Orissa for BioNEST Bioincubator Project; (b) CISR-NEIST, Jorhat for STINER-Technology Facility Centre (STINER-TFC); and (c) Anand Agricultural University for Deployment and Piloting of Improved Indigenous Fermented Food Product (*Chubbitchi* and *Tungrymbai*) for the sustainable livelihood in Meghalaya.

### Other Activities

**Prof. D. C. Kalita** was Resource Person at: (a) AICTE-ASTE Induction / Refresher Programme and delivered the lecture on “Emerging Areas of Research in Management / Rural Development” on 28<sup>th</sup> December 2021 at Assam Down Town University; (b) National Webinar and delivered the lecture on the topic “Indian Agriculture and Repeal of Three farm Laws” held on 15<sup>th</sup> February 2021 at Assam Down Town University; (c) Krishi Mela Cum Farmer’s Seminar on 21-22 March 2022 at ICAR KVK Goalpara, Assam.

**Dr. B. K. Mishra** delivered (a) Invited lecture on “Recent Advances in Fat-rich Dairy Products” on October 26-28, 2021 at 27<sup>th</sup> International Conference of International Academy of Physical

*science on Advances in Food Science and Technology* held at NEHU, Tura Campus; (b) a talk as invited speaker on “Organic Dairy Farming” at KVK, ICAR, West Garo Hills on 23<sup>th</sup> April 2021. He also participated and presented a paper on “Production of Organic Acids and B-vitamins from Indigenous Yeasts and Lactic Strains Isolated from Fermented Foods of Garo tribes in Meghalaya” on April 8, 2021 at Christ College, Rajkot, Saurashtra University, Gujarat.

**Dr. B. Mathew** delivered lectures on: (a) “Multi-Storied Cropping System for Livelihood Improvement” during the national level training programme on *Integrated Farming System for Livelihood Security* on 15-6-2021 organized by National Institute of Rural Development and Panchayati Raj, NERC, Khanapara, Guwahati; (b) “Organic Soil and Crop Management” during the national level training programme on *Organic Farming and Certification* on 06-07-2021 organized by National Institute of Rural Development and Panchayati Raj, NERC, Khanapara, Guwahati; (c) “Organic Farming: Concept, Principles and Practices” during the workshop on *Organic farming for sustainable agricultural production in Garo Hills* on 23-04-2021 organized by ICAR Research Complex for NEH Region, Krishi Vigyan Kendra, West Garo Hills, Meghalaya.

### SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	Name			Prof. D.C. Kalita	Prof. S.C. srivastava	Dr. B.K. Mishra
	Date of Joining		1	28.07.2003	09.08.2006	21.12.2006
	Field of specialisation		2	Agricultural Economics and Rural Development	Rural Development	Dairy Technology
(A) Teaching Experience	UG		4	7 years	Nil	Nil
	PG, including PhD		5	19 years	15 years	15 years

(in Years)						
(B) Research activities	Basic Research		6	No	No	No
	Applied Research		7	No	No	03
	Action Research		8	No	No	No
	Project Submitted		9	No	No	01
	Ongoing Project		10	01	No	02
	Research Paper in UGC care list journals	Group I	11	No	No	No
		Group II	12	No	No	No
	Books /Books chapters Published	Books	13	No	No	No
		Book Chapters	14	No	No	No
	Popular Articles (News Paper/ Magazines)		15	No	No	No
	Seminar / Conference/ Symposia organized	National	16	No	No	No
		International	17	No	No	01
	Seminar / Conference/ Symposia attended	National	18	03	No	03
		International	19	No	No	01
	Conference Proceedings		20	No	No	No
	Consultancy		21	No	No	No
(C) Patent	Applied		22	No	No	No
	Published		23	No	No	No
	Granted		24	No	No	02
(D) E-Content	MOOC/SWAYA M/ E-content developed		25	No	No	No
(E) Any Other	Teaching /Extension /outreach activities		26	No	No	04
	Responsibilities other than teaching		27	8	3	8
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	No	05
	Collaborations	National	29	01	No	02
		International	30	No	No	No

Details of Faculties	Name			Dr. B. Mathew	Dr. L.S. Pereira
	Date of Joining		1	17.01.2007	26.03.2009
	Field of specialisation		2	Horticulture (Fruits and Orchard Management)	Horticulture (Fruits and Orchard Management)
(A) Teaching Experience (in Years)	UG		4	06 months	Nil
	PG, including PhD		5	15 years	13 years
	Basic Research		6	No	No
	Applied Research		7	05	04

(B) Research activities	Action Research		8	No	No
	Project Submitted		9	No	No
	Ongoing Project		10	01	01
	Research Paper in UGC care list journals	Group I	11	3	2
		Group II	12	2	2
	Books /Books chapters Published	Books	13	01	No
		Book Chapters	14	01	No
	Popular Articles (News Paper/ Magazines)		15	No	No
	Seminar / Conference/ Symposia organized	National	16	No	No
		International	17	No	No
	Seminar / Conference/ Symposia attended	National	18	09	09
		International	19	No	No
(C) Patent	Conference Proceedings		20	No	No
	Consultancy		21	No	No
	Applied		22	No	No
	Published		23	No	No
(D) E-Content	Granted		24	No	No
	MOOC/SWAYAM / E-content developed		25	No	No
(E) Any Other	Teaching /Extension /outreach activities		26	02	02
	Responsibilities other than teaching		27	10	6
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	9	4
	Collaborations	National	29	01	01
		International	30	No	No

## V SCHOOL OF LIFE SCIENCES

**Dean** : Prof. R. N. Sharan (till afternoon July 30, 2021)  
Prof. N. K. Chrungoo (w.e.f. afternoon July 30, 2021 up to afternoon March 31, 2022)  
Prof. S.B. Prasad (w.e.f. forenoon April 1, 2022 up to afternoon August 31, 2022)  
Prof. N. Saha (w.e.f. forenoon September 1, 2022)

**Telephone** : 0364 2722001, 0364 2551292 (O), 9436100836 (M)

**E-mail** : deansls@nehu.ac.in

### 1. Vision and Mission of the School:

The School of Life Sciences comprises four academic departments, namely the Departments of Zoology, Botany, Biochemistry and Biotechnology & Bioinformatics. The School is a premier Centre for post-graduate teaching and research in frontier areas of biology. The major thrust areas of research include Metabolic Regulation, Immunology, Adaptational Biochemistry, Enzymology, Endocrinology, Reproductive Physiology, Medicinal Biochemistry, Biogerontology, Radiation Biology, Carcinogenesis and Cancer Biology, Microbiology, Brain disorders, Cardiovascular diseases, Diabetes, Epigenetics, Helminthology, Animal and Plant Physiology, Nitrogen Fixation, Molecular Biology, genomics, Proteomics, Biotechnology, Fish Biology, Natural Products, Ecology, Forestry, Biodiversity, Plant and Animal Taxonomy etc. The departments under the School of Life Sciences have developed one of the best scientific infrastructural facilities of the country for promoting higher studies and research in the North-Eastern Region. The School is well maintained and functional state-of-the art equipments like Next Generation Sequencers, DNA Sequencer, DNA Synthesizer, Confocal Laser Scanning Microscope, Gamma Radiation Source, FACS, Real-Time PCR Systems, Flameless Atomic Absorption, High-speed Refrigerated Centrifuges, Nitrogen Analyzer, Automatic Scintillation Analyzer, etc. The departments have regularly attracted financial assistance for extra-mural research from various Govt. funding agencies like Department of Biotechnology, Department of Science and Technology, Science and Engineering Research Board, Council of Scientific and Industrial Research, Indian Council of Medical Research, Department of Atomic Energy, Indian Council of Agricultural Research, etc. and International agencies, such as IAEA, etc. The University Grants Commission, New Delhi has been financially supporting all the departments under its Special Assistance Programme (SAP) as well as the COSIST Programme. Further, these Departments have also received financial support under the DST-FIST Programme. The Departments under the School have attracted highly qualified faculty members, many of whom have been awarded national and international fellowships as recognitions of significant research contributions in various fields of biological research, as well as for undertaking collaborative research projects in the country and abroad. A large number of students under the School qualify every year the eligibility test such as INSPIRE, NET, GATE SLET, etc. The postgraduates and research students of the School are successful in obtaining employment in academic and research institutions in the country and abroad. The students, research scholars and faculty have easy access to Wi-Fi supported by high speed internet connectivity and access to rich e-resources. The School has developed a Central Instrumentation Facility, a Seminar Hall and a Conference Room for promoting research and academic activities.

### 2. Name of the Departments/Centres under the School:

Sl. No.	Name of the Department/Centre
1.	Zoology
2.	Botany
3.	Biochemistry
4.	Biotechnology and Bioinformatics

### 3. Salient Data of the School

Total No. of Students awarded Ph.D. Degree	18
Total No. of Research Publications National	22

International	71
Total No. of Books, Book Chapters, and Proceedings	
National	4
International	17
Total No. of Research Projects (Fund Received in Lakhs)	
Completed	
Ongoing	6 (Rs. 252.83 Lakhs)
New	7 (Rs. 58.67 Lakhs)
	4 (Rs. 159.69 Lakhs)
Total No. of Consultancy Projects (Fund Received in Lakhs)	
National	
International	1 (Rs. 8.30 Lakhs)
Total No. of Students Placed/Selected for Higher Studies	8

#### **4. Major Achievements/Highlights during the period (such as International Funding/Collaborations, International/National Awards):**

From the School of Life Sciences, a total of 118 students have been awarded with M.Sc. degree, and 18 students have been awarded with the Ph.D. degree during the year 2021-2022. Further, 8 students, after completion of their Ph.D. from this school, have been placed for higher studies in different Institutes/Universities in India and abroad. A total of 17 students cleared the UGC/CSIR-NET examination in this financial year, 5 students have been awarded with the Rajiv Gandhi National fellowship and 2 students awarded with the Maulana Azad National Fellowship. A total of 93 original research papers were published in various peer reviewed well-reputed National (22) and International (71) journals. Additionally, various faculty members and research scholars from this School of Life Sciences also contributed 4 book chapters published by Indian publishers and 17 chapters in books published by International publishers. One faculty member also edited a book, which was published by the Academic Press, USA. Different faculty members from the School completed 6 major research projects costing about Rs. 253.00 lakhs, 7 research projects costing about Rs. 59.00 lakhs are still running, and 4 new major projects costing about Rs. 160.00 lakhs have also been sanctioned by different funding agencies to various faculties from this School during the year 2021-2022.

#### **5. Future Plans**

The NEP-2020 M.Sc. syllabus will be introduced during the academic year 2022-2023. Maximum efforts will be made to further increase the quality of teaching at the P.G. level using various modern teaching tools so that the students get maximum benefit out of it and help to improve the skill development of the students. Maximum efforts will be made to increase the number of research publications in different journals of international repute. Faculty members will be encouraged to write quality research projects with an intention to receive more research grants from extra-mural sources so that the more quality research could be carried out within the School of Life Sciences.

## DEPARTMENT OF BIOCHEMISTRY

**Head** : Prof. Mayashree B. Syiem

**Telephone** : 0364-272-2101

**E-mail** : hodbio@nehu.ac.in

### Faculty Profile:

Designation	Name and Qualification	Specialization
<b>Professor</b>	*Dr. R. Sharma, M.Sc. & Ph.D. (BHU)	Biochemistry of Aging
	*Dr. R.N. Sharan, M.Sc. & Ph.D. (JNU)	Molecular Biology of Radiation Damage/Repair and Carcinogenesis
	Dr. D. Syiem, M.Sc. & Ph.D. (NEHU)	Medical Biochemistry, Diabetes and Natural Products
	Dr. A.K. Singh, M.Sc. (DDUGU), Ph.D. (HCU)	Environmental Microbiology
	Dr. M. B. Syiem, M.Sc. & Ph.D. (NEHU)	Cyanobacterial Biochemistry, Carbon and Nitrogen Metabolism Bioremediation
	Dr. L. Kma, M.Sc. & Ph.D. (NEHU)	Cancer Biology and Radiation Countermeasures
<b>Associate Professor</b>	Dr. P.K. Ambasht, M.Sc. & Ph.D. (BHU)	Enzymology: Enzyme Purification, Kinetics and Immobilization
	Dr. S. Bhan, M.Sc. & Ph.D. (BHU)	Medical Biochemistry, Nano-biomaterials
<b>Assistant Professor</b>	Dr. T. Tripathi, M.Sc. (UOM), Ph.D. (JNU)	Biophysics, Molecular Biology

\*Superannuated on 31.07.2021

### Thrust Areas of Research

1. Medical Biochemistry (Development and Aging, Diabetes, Medicinal Plants, Natural Products, Molecular Biology of Radiation Damage/Repair and Carcinogenesis, Neurobiochemistry, Nano-biomaterial)
2. Microbial Biochemistry (Plant-Microbe Interaction, Cyanobacterial Diversity and Nitrogen Fixation, Cyanobacterial biofertilizer and Bioremediation)
3. Protein Chemistry (Enzymology: Purification, kinetics and immobilization; Molecular and Structural Biophysics)

### Brief Statement of Academic Activities and achievements:

The Department admitted twenty-six students for M.Sc. and one student for Ph.D. programme. During this period, twenty-two students have successfully completed their M.Sc. and three students have been awarded the Ph.D. degree.

Research scholars participated in various seminar/workshops/conference/symposia, gave online poster or oral presentation. Faculty members delivered guest lectures in different institutions, presented research papers and delivered invited talks (Online) in different seminar/webinars/workshops /conference/symposia in India and abroad.

### Students' Profile

**Enrolment Capacity: M.Sc. 26 Ph.D. – Variable**

**Enrolment of students from different States of India and Abroad**

**M.Sc.**

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
State 1 (Meghalaya)	-	1	4	16	-	1	-	-	-	1	-	-	4	19
State 2 (Assam)	-	1	-	-	-	-	-	-	-	-	-	-	-	1
State 3 (Tripura)	1	-	-	-	-	-	-	-	-	-	-	-	1	-
State 4 (Manipur)	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Sub Total	2	2	4	16	-	1	-	-	-	1	-	-	6	20
International														
Total	4		20		1				1				26	

#### Ph.D.

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
State 1 (Mizoram)	-	-		1	-	-	-	-	-	-	-	-	-	1
Sub Total				1	-		-	-	-	-	-	-		1
International														
Total			1										1	

#### Degrees Awarded

##### Degree: M.Sc.

##### Degrees Awarded to students from different States of India and Abroad

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
State 1 (Meghalaya)	-	-	4	10	-	-	-	1	-	-	-	-	4	11
State 2 (Manipur)	-	-	1	-	-	-	-	-	-	-	-	-	1	-
State 3 (Mizoram)	-	-	-	3	-	-	-	-	-	-	-	-	-	3
State 4 (Nagaland)	-	-	-	1	-	-	-	-	-	-	-	-	-	1
State 5 (Assam)	-	1	-	-	-	-	-	-	-	-	-	-	-	1
State 6 (Arunachal Pradesh)	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Sub Total		1	5	15	-	-	-	1	-	-	-	-	5	17
International														
Total	1		20				1						22	

##### Degree: Ph.D.

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE (Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
(Meghalaya)	1	1		1	-	-	-	-	-	-	-	-	1	2
Sub Total	1	1		1	-		-	-	-	-	-	-	1	2
International														
Total	2		1										3	

#### Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/
Ms. Daiahun Thabakh	Studies on the Effects of <i>Potentilla fulgens</i> L. on Glucose Transporter and Insulin Signalling Pathways under Induced Diabetic Condition in Mice	Prof. D. Syiem
Ms. Tutu Kalita	Studies on the Catalytic Activity of Soluble and Immobilized Acid Phosphatase in Resolving Racemic Phosphate Esters in Aqueous and Organic solvents	Dr. P.K. Ambasht Prof. G. Bez (Joint Supervisor)
Mr. Purna Bahadur Chettri	Studies on Structure and Function of the Cytochrome P450, Glyceraldehyde-3- Phosphate Dehydrogenase and Malate Dehydrogenase of Liver Fluke- <i>Fasciolagigantica</i>	Dr. T.Tripathi



### Placement of Students

Name of the Student(s)	Name of the Programme	Post Held	Place of Work
Dr. Tutu Kalita	Research	Research Associate	Dept. of Bioscience and Bioengineering, IIT, Guwahati
Dr. Daiahun Thabab	Teaching	Guest Lecturer	Department of Biochemistry, NEHU, Shillong
Dr. Khetbadei L.H. Hadem	Teaching	Guest lecturer	Department of Biochemistry, NEHU, Shillong
Balakyntiew Shisha Lyngdoh Kynshi	JRF (Project) (CAU)	JRF (Project) (CAU)	Central Agricultural University, Umiam, Meghalaya
Careen Liza Pakyntein	Project Associate (ICAR)	Project Associate (ICAR)	Indian Council of Agricultural Research, Umiam, Meghalaya

### Students selected for Higher Studies:

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
Dr. Purna B. Chetri	Post-Doctoral	IIT Bombay, Mumbai	India
Dr. Parimita Kalita	Post-Doctoral	Washington University, USA	USA

### Research Fellowship: 25

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others
5	11	Nil	Nil	1	8

### DS Kothari Post-Doctoral Fellowship: 02

#### Courses Conducted:

##### *Postgraduate:* M.Sc.

Semester I: Core courses

BCH-C-101 Chemistry and Biomolecules; BCH-C-102 Enzymology; BCH-C-103 Intermediary metabolism; BCH-C-104 Practical.

Semester II: Core courses

BCH-C-202 Physiological Chemistry; BCH-C-204 Practical.

: Open courses

BCH-O-201 Techniques in Biochemistry; BCH-O-203 Microbiology.

Semester III : Core courses

BCH-C-301 Genetics; BCH-C-302 Medical Biochemistry; BCH-C-305. Practical.

: Open courses

BCH-O-303 Environmental Biochemistry; BCH-O-304 Nutritional and Clinical Biochemistry.

Semester IV: Core courses

BCH-C-401 Molecular Biology; BCH-C-402 Immunology; BCH-C-403 Bioenergetics; BCH-C-404 Practical.

##### *Ph.D. Courses*

SLS-PhD-01 Research Methodology; BCH-PhD-02 Topics in Biochemistry; BCH-PP-03 Review of Literature and Seminar.

#### Seminars/Conferences/Workshops/Symposia/Extension Programmes (National/International):

##### *Organized*

Prof. R.N. Sharan and Prof. L. Kma

*Free Health Camp on Oral Hygiene and Early Oral Cancer Detection* at Bethany Hospital Outreach Facility, Nongpoh (Ri-Bhoi district) (April 3, 2021).

##### *Attended*

**Prof. R.N. Sharan**

Panellist in a webinar on *Early Oral Cancer Screening for Reducing Harm from Tobacco Use: From Clinic to Lab and Back* (May 28, 2021)

Key-note address on “Smokeless tobacco Burden in India and Harm Minimization: Scientific Perspective” in a *CHETCOMCON2021 Webinar* (June 2, 2021).

Chaired a scientific session and delivered concluding remarks in virtual mode during *International E-conclave on Tobacco Cessation: Integrating Pharmacotherapy for Tobacco Cessation* (July 18, 2021).

Delivered an invited talk on “Molecular Radiobiology: Potential clinical applications” at Royal Global University, Guwahati (July 20, 2021).

Prof. L. Kma

Delivered invited papers online

“Understanding the complexity of cancer cachexia in elderly population” in *The 6<sup>th</sup> Cancer Cachexia Conference-Bridging molecular advances to clinical care*, Cancer Cachexia Society, Florida, USA (August 27-29 2021); “Therapeutic roles of medicinal plants in management of leukemias” in *The 2<sup>nd</sup> Virtual Congress on Controversies in Leukemias (Euro LEUK 2021)*, (October 28-29 2021); “Combined effects of radiation and medicinal plant extracts in mitigation of lung cancer” in *The American Virtual Conference on Lung Cancers (AVCLC 2021)* (December 7, 2021).

Dr. S. Bhan

Delivered talk on

“Increased Apoptosis and Expression of Bcl-2 Related Marker in Wound Healing of Streptozotocin Induced Diabetic Rats” at *APA Bioforum International e-Conference* at IIT Delhi (August 27-28, 2021); “Chlorophyllin Suppresses Oxidative Stress And Apoptosis In Hepatocytes of Diabetic Mice” at *International e-Conference on Nanomaterials & Nanoengineering on APA NANOFORUM-2022* (February 24-26, 2022).

Dr. T. Tripathi

Delivered invited and plenary lectures

“Drug Resistance in SARS-CoV-2: Importance of Mutational Surveillance and its Role in Future Pandemics” in the *National Conference on Computational and Biochemical Drug Discovery* at IIT BHU Varanasi (September 11-12, 2021); “SARS-CoV-2 Drug Resistance: Mutational Surveillance and its Role in Future

Pandemics” in *Interface Between Biological and Physical Sciences Towards Atmanirbhar Bharat* NASI, Prayagraj (December 4-6, 2021); “Unconventional Thiol Redox Metabolism of Parasitic Liver Flukes: Drug Discovery Perspectives” in *International Webinar on Redox Homeostasis: An Universal Process in Diverse Cellular Events* at Utkal University, Bhubaneswar (December 20, 2021).

Dr. T. Tripathi attended

Two-Week Faculty Development Programme, “Inter-Disciplinary Refresher Course on Research Methodology” Ramanujan College, New Delhi (October 23-November 06, 2021).

## Publications

### Published in India:

Ahad, R.I.A., Sachu, M., Syiem, M.B. (2022) Reusability of *Nostoc muscorum* Meg 1 biomass for Cd<sup>2+</sup> removal. *Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences*, 8: 1-10.

Goswami, D., Syiem, M.B. (2021). Biocontrol of *Pythium aphanidermatum* causing soft rot in ginger with biosurfactant produced by a rhizospheric *Bacillus* species. *Journal of Spices and Aromatic Crops*, 30: 69-80.

Kma, L., Baruah, T.J. (2021). Quercetin develops sensitivity of adenocarcinoma cells to radiation via lowering metastasis and promoting caspase-3 independent cell death. *International Journal of Pharmaceutical Sciences and Research*, 12: 2842-2852.

Pakyntein, C. L., Syiem, D., Thabah, D., Sunn, S.E. (2021). Antioxidant, anti-inflammatory, and anti-hyperglycemic activity of aqueous and methanolic extract of *Houttuynia cordata*: an *in vitro* and *in vivo* study. *GSC Biological and Pharmaceutical Sciences*, 16: 145–154.

Sachu, M., Ryntathiang, S., Kynshi, B.L., Chullai, L.R., Ahad, R.I.A., Syiem, M.B. (2021) Induction of enzymatic and non-enzymatic antioxidants in response to Cd<sup>2+</sup> stress in a cyanobacterium. *Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences*, 7: 1-24.

Sunn, S.E., Syiem, D., Pakyntein, C.L. (2021). Amelioration of altered adipokines expression and serine/threonine phosphorylation of IRS1 in alloxan-induced diabetes by *Potentilla fulgens* and its phytochemical

constituents. *GSC Biological and Pharmaceutical Sciences*, 17:144-152.

### Published Abroad:

Belho, K., Ambasht, P.K. (2021). Thermal and chemical inactivation studies of phytase from rice bean. *Journal of Proteins Proteomics* 12:143-149.

Chetri, P.B., Shukla, R., Khan, J.M., Padhi, A.K., Seal, A., Tripathi, T. (2022). Unraveling the structural basis of urea-induced unfolding of *Fasciola gigantica* cytosolic malate dehydrogenase. *Journal of Molecular Liquids*, 349: 118170.

Chettri, B., Singha, N.A., Singh, A.K. (2021). Efficiency and kinetics of Assam crude oil degradation by *Pseudomonas aeruginosa* and *Bacillus* sp. *Archives of Microbiology*, 203:5793-5803.

Kma, L., Baruah, T.J. (2021). The interplay of ROS and the PI3K/Akt pathway in autophagy regulation. *Biotechnology and Applied Biochemistry*, 69: 248-264.

Kynshi, B.L., Sachu, M., Syiem, M.B. (2021) Modulation in isocitrate dehydrogenase activity under citrate enrichment affects carbon and nitrogen fixations in the cyanobacterium *Nostoc muscorum* Meg 1. *Biochimie*, 186: 94-104.

Nag, N., Sasidharan, S., Uversky, V.N., Saudagar, P., Tripathi, T. (2022) Phase separation of FG-nucleoporins in nuclear pore complexes. *Biochimica et Biophysica Acta Molecular Cell Research*, 1869: 119205.

Nag, N., Tripathi, T. (2022). Cross-seeding with homologous sequences alters amyloid aggregation kinetics and fibril structure. *ACS Chemical Neuroscience*, 13: 537-539.

Nonglang F.P., Khale, A., Bhan, S. (2022) Phytochemical characterization of the ethanolic extract of *Kaempferia galanga* rhizome for antioxidant activities by HPTLC and GCMS. *Future Journal of Pharmaceutical Sciences* 8: <https://doi.org/10.1186/s43094-021-00394-1>

Nongpiur, S.R., Kalita, T., Belho, K., Ambasht, P.K. (2021). Purification and partial characterization of acid phosphatase from rice bean (*Vigna umbellata*). *Journal of Proteins Proteomics* 12: 325-335.

Padhi, A.K., Dandapat, J., Saudagar, P., Uversky, V.N., Tripathi, T. (2021). Interface-based design of the favipiravir-binding site in SARS-CoV-2 RNA-dependent RNA polymerase reveals

mutations conferring resistance to chain termination. *FEBS Letters*, 595: 2366-2382.

Padhi, A.K., Rath, S.L., Tripathi, T. (2021). Accelerating COVID-19 research using molecular dynamics simulation. *Journal of Physical Chemistry B*, 125: 9078-9091.

Raj, S., Sasidharan, S., Tripathi, T., Saudagar, P. (2022) Biofunctionalized chrysin-conjugated gold nanoparticles neutralize *Leishmania* parasites with high efficacy. *International Journal of Biological Macromolecules*, 205: 211-219.

Sachu, M., Kynshi, B.L., Syiem, M.B. (2022) A biochemical, physiological and molecular evaluation of how the herbicide 2, 4-dichlorophenoxyacetic acid intercedes photosynthesis and diazotrophy in the cyanobacterium *Nostoc muscorum* Meg 1. *Environmental Science and Pollution Research*, 29: 36684-36698.

Sachu, M., Kynshi, B.L., Syiem, M.B. (2021). Herbicide monuron mediated alterations in carbon and nitrogen fixation in the cyanobacterium *Nostoc muscorum* Meg 1. *Journal of Applied Phycology*, 21: 1-12.

Sasidharan, S., Tripathi, T., Saudagar, P. (2021). Critical insight into plausible acquired tocopherol pathway in neglected human Trypanosomatids. *ACS Omega*, 6: 31396-31403.

Subedi, S., Nag, N., Sasidharan, S., Saudagar, P., Tripathi, T. (2022). Amyloid cross-seeding: Mechanism, implication, and inhibition. *Molecules*, 27: 1776.

### Edited Books/Volumes.

Tripathi, T. & Dubey, V.K., editors. (2022). *Advances in Protein Molecular and Structural Biology Methods*. Academic Press, USA. pp. 1-714. ISBN: 978-032-39-0264-9.

### Book Chapters.

Chetri, P.B., Khan, H., and Tripathi, T. (2022) Methods to determine the oligomeric structure of proteins. In *Advances in Protein Molecular and Structural Biology Methods*. Tripathi, T. & Dubey, V.K. (Eds) Academic Press, USA. [ISBN: 978-032-39-0264-9]. Chapter 5, pp. 49-76.

Kumar, P., Bhardwaj, A., Uversky, V.N., Tripathi, T., Giri, R. (2022) Computational methods to study intrinsically disordered proteins. In *Advances in Protein Molecular and Structural Biology Methods*. Tripathi, T. & Dubey, V.K. (Eds) Academic Press, USA. [ISBN: 978-032-39-0264-9]. Chapter 30, pp. 489-504.

Nag, N., Chetri, P.B., Uversky, V.N., Giri, R., and Tripathi, T. (2022) Experimental methods to study intrinsically disordered proteins. In *Advances in Protein Molecular and Structural Biology Methods*. Tripathi, T. & Dubey, V.K. (Eds) Academic Press, USA. [ISBN: 978-032-39-0264-9]. Chapter 31, pp. 505-533.

Nag, N., Khan, H. and Tripathi, T. (2022) Strategies to improve the expression and solubility of recombinant proteins in *E. coli*. In *Advances in Protein Molecular and Structural Biology Methods*. Tripathi, T. & Dubey, V.K. (Eds) Academic Press, USA. [ISBN: 978-032-39-0264-9]. Chapter 1, pp. 1-12.

Sasidharan, S., Nag, N., Tripathi, T., and Saudagar, P. (2022) Experimental methods to study the thermodynamics of protein-protein interactions. In *Advances in Protein Molecular and Structural Biology Methods*. Tripathi, T. & Dubey, V.K. (Eds) Academic Press, USA. [ISBN: 978-032-39-0264-9]. Chapter 7, pp. 103-114.

### Popular Articles (News Paper and Magazines)

#### Prof. L. Kma

Published three articles in different newspapers (The Shillong Times, The Meghalaya Times, The Highland Post, The Meghalaya Guardian).

### Funds Received during the current Year

#### (F) Bulk Grant to Department/Centre/Section etc. other than EMR grant

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	16
02	UGC (SAP, CAS, Seminar etc.)	Nil
03	DST (FIST, PURSE, Seminar etc.)	Nil
04	NEC (program name)	Nil
05	Others	Nil

#### (G) EMR Research Projects to individual faculty members:

Title of Project (Total outlay in Lakhs)	Current Status (New / on-going/ completed)	Name (PI/ Co-PI)	Multi/ Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Enhancing Clinical Efficacy of Radiotherapy by Personalized and Precision Radiotherapy Utilizing the Biomarkers of Molecular Biodosimetry (Euro 16000.00)	On-going	Prof. RN Sharan (Retd.)(PI)/ Prof. L. Kma (Co-PI)	Single (2017-2023)	International Atomic energy Agency (IAEA), Vienna, Austria	Euro 2000.00
Design and Validation Of Field Deployable Miniaturized Nano-Bio-Sensing System for Detection of the Parasitic Liver fluke Fasciolagigantica (INR 82.71 L)	New	PI: Dr. Timir Tripathi Co-PI: Prof. AK Singh Co-PI: Dr. Pranjal Chandra, IIT BHU	Multi (2022-2025)	Department of Health Research (DHR), New Delhi	INR 45.61 L
Understanding the Specificity and Dynamics of the Interaction of	New	PI: Dr. Timir Tripathi Co-PI: Prof. AK Singh	Single (2021-2024)	Indian Council of Medical Research	INR 22.05 L

Phospho-tau and Intrinsically Disordered FG-Nucleoporins in Alzheimer's Disease (INR 42.15 L)				(ICMR), New Delhi	
Understanding the Early Events of $\alpha$ -Synuclein Aggregation and its Implications in Parkinson's Disease Related Neurodegeneration (INR 128.00 L)	Ongoing	PI: Timir Tripathi Co-PI: Prof. MB Syiem Co-PI: Dr. K Chattopadhyay, CSIR-IICB, Kolkata	Multi (2019-2022)	Department of Biotechnology (DBT), New Delhi	Nil

### Academic Collaborations

#### (i). National

##### Dr. P.K. Ambasht

S. no.	Name of collaborator	Collaborating Institution	Title of project	Academic activity
1	Prof. G. Bez	Department of Chemistry, NEHU, Shillong	-	Research publications
2.	Dr. T. Tripathi	Department of Bio-chemistry, NEHU, Shillong	-	Research publications

##### Dr. S. Bhan

S. no.	Name of collaborator	Collaborating Institution	Title of project	Academic activity
1	Prof. Rajpal Kashyap	CIIMS Nagpur	Brucellosis	Research Publication
2.	Prof. B Gupta	IIT, Delhi	Wound healing and biomaterials	Research Publication

##### Dr. T. Tripathi

S. n	Name of collaborator	Collaborating Institution	Title of project	Academic activity
1	Dr. Prakash Saudagar	NIT Warangal, Warangal	-	Research publications
2	Dr. Krishnananda Chattopadhyay	CSIR-IICB, Kolkata	Understanding the Early Events of $\alpha$ -Synuclein Aggregation and its Implications in Parkinson's Disease Related Neurodegeneration	Research publications
3	Dr. Pranjal Chandra	IIT BHU, Varanasi	Design and Validation of Field Deployable Miniaturized Nano-Bio-Sensing System for Detection of the Parasitic Liver fluke <i>Fasciola gigantica</i>	Research publications

**(ii). International**

**Dr. T. Tripathi**

S.n	Name of collaborator	Collaborating Institution	Title of project	Academic activity
1	Prof. Kam Zhang/ Dr. Aditya K Padhi	RIKEN, Yokohama, Japan	-	Research publications
2	Prof. Vladimir N Uversky	University of South Florida, USA	-	Research publications

**Honours/Awards/Recognition/Membership/**

**Fellowship**

**Prof. R. Sharma**

Member

Editorial Board International Journal of developmental Neurosciences, Frontiers in Genetics of Aging, Ageing & Society; Member Editorial Advisory Board Journal of Scientific Research, BHU, Varanasi; Technical Expert Committee (TEC) on Chronic Disease Biology, DBT, MoST, GOI; TEC for Medical Biotechnology-I, DBT-NER, MoST, GOI; Project Monitoring Advisory Group (PMAG) in Dementia Science Programme of DBT, MoST, GoI; DBT Task Force on Star College Scheme, DBT, GoI.

Prof. A.K. Singh

Appointed as Honorary Academic adviser to the “Trust University, Barishal”, Bangladesh

**Dr. T. Tripathi**

Member

Editorial Board International Journal of Biological Molecules (Elsevier), Acta Tropica (Elsevier), Frontiers in Molecular Biosciences,

and Scientific Reports; Extramural Project Grant evaluation committee of Israel Science Foundation (Israel), DBT-BIRAC, SERB, and ICMR (India);

Academic Editor PLoS ONE.

Elected Member

National Academy of Sciences, India (NASI) and the Royal Society of Biology, London; Management Council Member of the Biotech Research Society of India (2021-2023); EC member of the Bioinformatics and Drug Discovery Society, India (2020-2023); Elected as a Management Council Member of the Biotech Research Society of India (2019-2021).

**Other Activities**

Prof. R. Sharma

Delivered invited lecture on “Choice Based Credit System (CBCS) using Outcome based Learning (OBL) under semester system” during *4th Faculty Induction Programme (FIP) for College and University teachers* at UGC-HRDC, NEHU, Shillong (April 09, 2021).

Attended CSIR Pre- Examination Board meeting (April 01-03, 2021); DBT Star College 10<sup>th</sup> meeting of the Task Force (April 29, 2021). Chaired DBT-National RA evaluation committee meeting at IISc, Bangalore (July 13-14, 2021).

**Prof. R.N. Sharan**

Chief Guest and delivered the Valedictory Address during Virtual valedictory function of the 4<sup>th</sup> Faculty Induction Program at HRDC, NEHU (April 10, 2021).

**Prof. D. Syiem**

Delivered invited talk in Refresher course as Resource Person

“Genome and Gene Editing, a Perspective” at Department of Biotechnology and Bioinformatics, NEHU, Shillong (August 23, 2021); “Indigenous knowledge with special reference to Meghalaya” at UGC HRDC NEHU Shillong (November 9, 2021); “Indigenous knowledge system: Its relevance today” at Department of Khasi, NEHU, Shillong (November 26, 2021).

Delivered introductory talk as a Special invited Guest

“Role of technology in improving medical care” at Department of Biomedical Engineering, NEHU, Shillong (October 25, 2021); “Career in Biomedical Research” at Department of Biomedical Engineering and Design Innovation Centre, NEHU, Shillong (December 16, 2021).

**Prof. A.K. Singh**

Delivered invited lectures as a Resource Person

“Sources of hydrocarbon pollution and bioremediation” in Department of Biotechnology and Bioinformatics, NEHU, *Refresher course*, NEHU, Shillong (September 3, 2021).

Reviewer of *Journal of Biomedical research and environmental sciences*, *BMC microbiology*, *The Frontiers in Microbiology*

#### **Prof. M.B. Syiem**

Delivered lectures as Resource Person on “Choosing microbes as bioremediating agents of heavy metals” in Dept. of Biotechnology and Bioinformatics, NEHU in *Refresher Course* in NEHU, Shillong (September 3, 2021); “Unlimited possibilities with electron microscopy in biological sciences” in *Workshop*, at SAIF, NEHU Shillong (November 25, 2021)

#### **Prof. L. Kma**

Reviewer of *Journal of Cell Communication and Signalling*, *Journal of Cancer Science and Therapy*, *Journal of Pharmaceutical Research International*, *Current Molecular Medicine*

#### **Dr. P.K. Ambasht**

Delivered online series of lectures for M.Sc. Students on “Coenzymes” School of Biotechnology, Institute of Science, Banaras Hindu University, Varanasi (April 2021).

Delivered lecture as a Resource Person on “Enzyme immobilization and application” in *Refresher Course*, Department of Biotechnology and Bioinformatics, NEHU, Shillong (August 23, 2021).

Reviewer of *Journal of Scientific Research (BHU)*; *Chemical Engineering & Technology*; *Brazilian Journal of Chemical Engineering*, *Bioscience Journal*

#### **Dr. T. Tripathi**

Reviewer of the Journals *The Lancet Respiratory Medicine*, *The Lancet Regional Health – Europe*, *Nature Communications*, *Journal of Molecular Biology*, *Briefings in Bioinformatics*, *BBA - Proteins and Proteomics*, *BBA – Biomembranes*, *RSC Advances*, *Journal of Alzheimer's Disease*, *Molecular Neurobiology*, *ACS Applied Bio Materials*, *ACS Bio & Med Chem Au*, *ACS Omega*, *Current Research in Structural Biology*, *Briefings in Bioinformatics*, *Frontiers in Cellular Neuroscience*, *ChemBioChem*, *Chemical Biology & Drug Design*, *IUBMB Life*, *Computational and Structural Biotechnology Journal*, *Journal of Biomolecular Structure & Dynamics*, *PLOS*

*ONE*, *International Journal of Biological Macromolecules*, *Tropical Medicine and Health*, *Infection*, *Genetics and Evolution*, *Journal of Immunoassay and Immunochemistry*, *Medical Science Monitor*, *Future Microbiology*, *Frontiers in Bioscience*, *Journal of Cellular Biochemistry*, *Science Progress*, *Future Medicinal Chemistry*, *Aging and Disease*, *Computational and Theoretical Chemistry*, *FEBS Open Bio*, *Journal of Proteins and Proteomics*, *3 Biotech*, *BioFactors*, *Journal of Fluorine Chemistry*, *Cell Biochemistry & Function*, *Heliyon*, *Expert Review of Clinical Pharmacology*, *Frontiers in Molecular Biosciences*, *Computers in Biology and Medicine*, *Aging*, *Frontiers in Immunology*, *Human Immunology*, *Acta Tropica*, *Infection and Drug Resistance*, *Bioorganic Chemistry*, *Arabian Journal of Chemistry*, *Indian Journal of Medical Research*, *Molecular Simulation*, *Microbial Pathogenesis*, *Journal of Molecular Graphics and Modelling*, *Informatics in Medicine Unlocked*, *Journal of Molecular Liquids*, *BMC Research Notes*, *Bioscience Reports*, *Journal of Molecular Recognition*, *Parasitology*, *Frontiers in Cellular and Infection Microbiology*, *Computational Biology and Chemistry*, *Biomolecules*, *Seminars in Cancer Biology*, *Frontiers in Cell and Developmental Biology*, *Journal of Immunoassay and Immunochemistry*, *Frontiers in Microbiology*, *Frontiers in Pharmacology*, *Protein Engineering, Design, and Selection*.

Reviewer of Books

*Elsevier*: Structural Biology of Amyloid Fibrils: Current Understanding and Limitations; From a Biophysics Chalk Board to a Business Board Room: Science into Business; *Taylor & Francis*: Systems biology of RNA Therapeutics.

Project Grant Reviewer

Israel Science Foundation, CSIR-FIRST, DBT-BIG.

Delivered lectures

“National Research Foundation: To Foster Research and Innovation in India” in the *Faculty Development Program* at Sri Guru Nanak Dev Khalsa College, University of Delhi (April 1-5, 2021).

Popular lecture for UG/PG/Ph.D. students

“From DNA Structure to Biotechnology: Breakthroughs that Shaped Life Science Research” *Biofootprints*, New Delhi (February 19, 2022).

**SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022**

Details of Faculties	Name		1	D. Syiem	A. K. Singh	M. B. Syiem
	Date of Joining		2	18.12.96	20.2.97	10.4.02
	Field of specialisation		3	Enzymology, Med. Biochem. Natural Products	Environmental Microbiology	Cyanobacterial Bio-Chemistry, C&N metabolism, Bioremediation
(A) Teaching Experience (in Years)	UG		4	0	0	6
	PG, including PhD		5	25	25	20
(B) Research activities	Basic Research		6	Yes	Yes	Yes
	Applied Research		7	Yes	Yes	Yes
	Action Research		8		No	
	Project Submitted		9	1	1	0
	Ongoing Project		10	Nil	Nil	1
	Research Paper in UGC care list journals	Group I	11	2	0	5
		Group II	12		1	1
	Books /Books chapters Published	Books	13		0	
		Book Chapters	14		0	
	Popular Articles (News Paper/ Magazines)		15		0	
	Seminar / Conference/ Symposia organized	National	16		0	
		International	17		0	
	Seminar / Conference/ Symposia attended	National	18		0	
		International	19		0	
	Conference Proceedings		20		0	
	Consultancy		21		0	
(C) Patent	Applied		22		0	
	Published		23		0	
	Granted		24		0	
(D) E-Content	MOOC/SWAYAM/ E-content developed		25		0	
(E) Any Other	Teaching /Extension /outreach activities		26	Yes	Yes	
	Responsibilities other than teaching		27	Yes	Yes	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28		Yes	
	Collaborations	National	29	Yes		
		International	30	Yes		



Details of Faculties	Name		1	L. Kma	P. K. Ambasht
	Date of Joining		2	10.4.02	10.4.02
	Field of specialisation		3	Cancer Biology and Radiation Counter-measures	Enzymo-logy & Enzyme Biotechnology
(A) Teaching Experience (in Years)	UG		4	0	0
	PG, including PhD		5	20	20
(B) Research activities	Basic Research		6	Yes	Yes
	Applied Research		7	Yes	Yes
	Action Research		8		No
	Project Submitted		9	1	0
	Ongoing Project		10	1	0
	Research Paper in UGC care list journals	Group I	11	1	2
		Group II	12	1	0
	Books /Books chapters Published	Books	13		0
		Book Chapters	14		0
	Popular Articles (News Paper/ Magazines)		15	3	0
	Seminar / Conference/ Symposia organized	National	16		0
		International	17		0
	Seminar / Conference/ Symposia attended	National	18		0
		International	19	3	0
	Conference Proceedings		20		0
	Consultancy		21		0
(C) Patent	Applied		22		0
	Published		23		0
	Granted		24		0
(D) E-Content	MOOC/SWAYAM/ E-content developed		25		0
(E) Any Other	Teaching /Extension /outreach activities		26		Yes
	Responsibilities other than teaching		27	Yes	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28		0
	Collaborations	National	29		2
		International	30		0

Details of Faculties	Name		1	S. Bhan	T. Tripathi
	Date of Joining		2	17.1.07	2.4.09
	Field of specialisation		3	MedicalBioc-hemistry	Biophysics, Molecular Biology Bioinfor-matics
(A) Teaching	UG		4	0	0
	PG, including PhD		5	15	13

Experience (in Years)					
(B) Research activities	Basic Research		6		Yes
	Applied Research		7		No
	Action Research		8		No
	Project Submitted		9		1
	Ongoing Project		10		3
	Research Paper in UGC care list journals	Group I	11	1	
		Group II	12		8
	Books /Books chapters Published	Books	13		1
		Book Chapters	14		5
	Popular Articles (News Paper/ Magazines)		15		0
	Seminar / Conference/ Symposia organized	National	16		0
		International	17		0
	Seminar / Conference/ Symposia attended	National	18		3
		International	19	2	1
	Conference Proceedings		20		0
	Consultancy		21		0
(C) Patent	Applied		22		0
	Published		23		0
	Granted		24		0
(D) E-Content	MOOC/SWAYAM/ E- content developed		25		0
(E) Any Other	Teaching /Extension /outreach activities		26		Yes
	Responsibilities other than teaching		27		Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28		Yes
	Collaborations	National	29	2	3
		International	30		2

## DEPARTMENT OF BIOTECHNOLOGY AND BIOINFORMATICS

Head : Professor S.R. Joshi  
Telephone : 0364-272-2401/2402/2420  
E-mail : [hodbthbic@nehu.ac.in](mailto:hodbthbic@nehu.ac.in)/[biotechnologynehu@gmail.com](mailto:biotechnologynehu@gmail.com)

### Faculty Profile:

Designation	Name and Qualification	Specialization
Professor	Prof. S. Rama Rao M.Sc. & Ph.D. (Jodhpur Univ.)	Plant Biotechnology
	Prof. Kripamoy Aguan M.Sc. (IARI), Ph.D. (Univ.of Birmingham)	Molecular Biology
	Prof. S. R. Joshi M.Sc. & Ph.D. (NEHU)	Microbiology
Associate Professor	Dr. (Mrs.) Suktilang Majaw M.Sc.(Tezpur Univ.), Ph.D. (NEHU)	Biochemistry & Immunology
	Dr. Atanu Bhattacharjee M.Sc.(NEHU), M.Sc. (Annamalai Univ.), Ph.D. (NEHU)	Bioinformatics & Microbiology
Assistant Professor	Dr. (Mrs.) Neha Chaurasia M.Sc.& Ph.D. (BHU)	Environmental Biotechnology, Stress Physiology

### Thrust Areas of Research

1. Molecular Genetics
2. Microbiology

### Brief Statement of Academic Activities

The Department of Biotechnology and Bioinformatics was started in 2005. It offers Post Graduate (M.Sc. and Ph.D.) academic programmes. North-Eastern Region of India being the hotspot of biodiversity rich in flora and fauna has led the department to envision for the development of bio-resources, its exploration, conservation and sustainable utilization coupled with the need of trained manpower in Biotechnology and Bioinformatics network. The Department of Biotechnology and Bioinformatics is providing training and research environment with the latest information in their respective fields and bringing them closer to the rest of the world as far as scientific advancements are concerned. Based on the overall academic objectives of the Department and its faculty's potential, the Department was considered for financial support for "M.Sc. Biotechnology Programme Support" by the Department of Biotechnology, Government of India, New Delhi. The Department has its M.Sc. students who have successfully completed their M.Sc. degree and joined in different IITs, IMTECH, AIIMS, IISc, Universities and other institutes for their Ph.D. degree, while many others have joined different National Biotech Companies. While giving importance to the global scenario, the Department also lays emphasis on regional priorities in research and development incorporated into its programme. This programme is intended to develop, acquire, and maintain the modern state-of-the art in teaching, training, research, databases, and software development related to biologically rich resources of the North-Eastern Region of India, which could ultimately contribute towards socio-economic development of the people of the region. The Department has been receiving adequate extramural-financial support from various agencies, which include Special Assistance program of UGC-DRS-I (SAP), Phase I and II programs of DST-FIST, regular support from DBT for teaching and research programs etc. The additional extramural support in the form of projects have been received from DBT, ICAR, DST, UGC, CSIR, Ministry of Environment & Forest, BRNS, OIL, NEC etc. by the faculty members.

### Students' Profile

**Enrolment Capacity: M.Sc. -30; Ph.D. – Variable**

**Enrolment of students from different States of India and Abroad  
M.Sc.**

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	02	01	02	-	01	-	-	-	-	-	-	-	05	01
Bihar	02	-	-	-	-	-	-	-	-	-	-	-	02	-
Maharashtra	-	02	-	-	-	-	-	-	-	-	-	-	-	02
Manipur	-	-	-	01	-	-	-	-	-	-	-	-	-	01
Meghalaya	-	02	-	07	-	-	-	-	-	-	-	-	-	09
Nagaland	-	-	-	01	-	-	-	-	-	-	-	-	-	01
Uttar Pradesh	-	01	-	-	-	-	-	-	-	-	-	-	-	01
Uttarakhand	01	-	-	-	-	-	-	-	-	-	-	-	01	-
West Bengal	04	01	-	-	01	-	-	-	-	-	-	-	05	01
Sub Total	09	07	02	09	02	-	-	-	-	-	-	-	13	16
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	16		11		02								29	

**Ph.D.**

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	01	01	01	01	-	-	-	-	-	-	-	-	02	02
Assam	-	03	-	-	-	-	-	-	-	-	-	-	-	03
Manipur	-	-	01	-	-	-	-	-	-	-	-	-	01	-
Sub Total	01	04	02	01	-	-	-	-	-	-	-	-	03	05
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	05		03		-		-		-		-		08	

**Degrees Awarded**

**Degrees Awarded to students from different States of India and Abroad**

**M.Sc.**

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam		03		02									-	05
Bihar		01												01
Meghalaya		02	01	07									01	09
Uttarakhand	01												01	-
West Bengal	01	02											01	02
Tamilnadu		01												01
Sub Total	02	09	01	09									03	18
International														
Total	11		10										21	

**Ph.D.**

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	01	-	-	-	-	-	-	-	-	-	-	-	01
Meghalaya	-	-	-	02	-	-	-	-	-	-	-	-	-	02
Manipur	01	-	-	-	-	-	-	-	-	-	-	-	01	-
Sub Total	01	01	-	02	-	-	-	-	-	-	-	-	01	03
International														
Total	02		02		-		-		-		-		04	

**Students Awarded Ph.D. Degree**

Name of Student	Title of Thesis	Name of Supervisor & Joint Supervisor
Ms. Nabamita Boruah	Investigation of DNA and histone methylation in oral and oesophageal cancer samples collected from chewers of raw areca nut	Prof. Anupam Chatterjee

Mr. Chongtham Sovachandra Singh	Association of inactivation of certain tumor suppressor genes, chromosome instability and deregulation of Mad2 expression in raw areca-nut induced human cancer samples	Prof. Anupam Chatterjee
Ms. Lily Shylla	Characterization of bacteria from rat-hole coal mines of Meghalaya	Prof. S.R. Joshi
Ms. Melinda Nongbet Sohlang	Studies on the effect of hyperglycemia and hyperlipidemia on mouse lymphocyte apoptosis	Dr. S. Majaw

#### Placement of Students

Name of Student	Placement
Mr. Satyam Kumar	Tokia Seed Company, Jharkhand
Ms. Bipasha Dutta	Anthem Biosciences, Bangalore
Mr. Pritam Mukherjee	Ph.D at IIT Mandi
Mr. Shailendra Gangwar	M.Tech at IIT Guwahati
Ms. Lenhum Lepcha	M.Tech at IIT Kharagpur

#### Research fellowship

CSIR-UGC-NET/GATE	UGC-Non-NET	National Fellowship for ST student	ICPR Fellowship	Meritorious Maulana Azad Fellowship	DST	ICMR
03	06	-	-	-	-	-

#### Courses Conducted

##### Postgraduate

**Semester-I:** Cell Biology & Genetics, Biomolecules, and Microbiology.

**Semester-II:** Molecular Biology, Immunology, and Microbial Technology.

**Semester-III:** Animal Cell Science & Technology, Genetic Engineering, and Plant Biotechnology.

**Semester-IV:** Bioprocess Engineering & Technology, Environmental Biotechnology, Molecular Genetics, and Applied Microbiology.

The department offers open courses on Microbial Technology, Applied Molecular Genetics, Bioinformatics in Molecular and Cellular Biology under CBCS in the M.Sc. 2<sup>nd</sup> and 3<sup>rd</sup> semesters.

##### Ph.D. Courses

**Ph.D Course Work (One Semester):** Research Methodology, (School Level), Biotechnology in Medicine, Agriculture and Microbiology, (Department Level), Review of literature (Department Level).

**Seminars/Conferences/Symposia/Extension Programmes etc.**

##### Organized

**Dr. A. Bhattacharjee**

Coordinated a Refresher course on “Biotechnology & Bioinformatics 2021”, 23/08/2021 to 06/09/2021, at Department of Biotechnology & Bioinformatics, NEHU, Shillong in collaboration with UGC-HRDC, NEHU, Shillong.

##### Dr. N. Chaurasia

1. Organized One day national webinar on theme “Impact of climate change on diversity and agriculture in hilly areas” held on 6<sup>th</sup> August, 2021 organized by UGC-HRDC, NEHU, Shillong.

2. Acted as a member of the Organizing committee of “National Science Day” held on 28<sup>th</sup> Feb 2022 organized by the School of Life Sciences, NEHU, Shillong.

##### Attended

##### Prof. S.R. Rao

1. Attended international webinar on “Gene Editing for Agriculture, Society and Sustainable Development: prospects and Perspectives” organized by Tata Institute of Genetics and Society, Bengaluru on December 15; 2021.

2. Attended and delivered invited lecture on “Genetic Diversity Analysis of Wild Edible Fruit Plants-A Need of the Hour” in Webinar on Conservation and Value Addition of fruits of Forest Origin organized by Forest Research

Centre for Eco- Rehabilitation, Prayagraj on July 02;2021.

3. Attended Webinar of SRM University-Distinguished Lecture Series on “Creating a Vibrant Knowledge Society-An Indian Strategy for 21st Century” organized by SRM University-A.P. in association with The Hindu ( a daily National News Paper-Chennai ) on July 24; 2021.

4. Attended and delivered invited lecture (virtual mode) on “Understanding Genetic Diversity-The power of Molecular Biological Techniques” in National Webinar on Bioinformatics and Molecular Tools to Understand Plant Genome Diversity organized by Department of Biosciences and Biotechnology, Krishna University, Machilipatnam, Andhra Pradesh on August 12;2021.

5. Attended and delivered invited lecture (virtual mode) on “Bioinformatics and Plant Genomics” in National Webinar on Bioinformatics and Molecular Tools to Understand Plant Genome Diversity organized by Department of Biosciences and Biotechnology, Krishna University, Machilipatnam, Andhra Pradesh on August 12; 2021.

6. Attended and delivered keynote address on “Genetic characterization of horticultural resources with focus on *Abelmoschus* from North-East India for prioritizing conservation needs.” at International Conference on Biotechnology for Environment and Health (ICBEH) from 25-27 November, 2021; organized by the School of Bio-Sciences and Technology, Vellore Institute of Technology, Vellore, in association with ABAP (Association of Biotechnology and Pharmacy) on November 27; 2021.

### ***Prof. S. R. Joshi***

1. Delivered an invited talk on “Transmission of a Disease: In the context of present day Pandemic” during a webinar organized by Royal Global University, Assam on 31<sup>st</sup> May 2021.

2. Delivered an invited talk on “Metallophilic and bioremediation of contaminated water” during a webinar organized by Inter University Centre for Evolutionary and Integrative Biology on 18<sup>th</sup> August 2021 organized by University of Kerala.

3. Delivered an invited talk on” Human capacity development: Role of North-Eastern Hill University” on 20<sup>th</sup> October 2021 during a

webinar organized by Ministry of Science and Technology, Department of Science and Technology (DST), SEED Division, Government of India and State Council of Science, Technology & Environment (SCSTE), Meghalaya Vigyan Utsav Programme.

4. Attended a two days “North-East Education Conclave” organized by department of Education, Govt of Assam and Shankardev Education and research Foundation (SERF) on 20<sup>th</sup> and 21<sup>st</sup> November 2021 at Guwahati.

5. Attended a two days “North-East Education Conclave” organized by department of

Education, Govt of Assam and Shankardev Education and research Foundation (SERF) on 20<sup>th</sup> and 21<sup>st</sup> November 2021 at Guwahati.

6. Chaired a session on ”Women Scientists Working in Tribal Areas” organized by The National Academy of Sciences, India (NASI), Prayagraj, during the commemoration of “ International women’s Day” on 8<sup>th</sup> March 2022 under the aegis of “ Azadi Ki Amrit Mahotsav”.

7. Delivered a lead lecture on “Wild mushrooms from the pristine forests: Perspectives from health benefits and identification paradox” on 9<sup>th</sup> March 2022 during the National Conference on “Mycology and Mankind: Marching ahead in the new era” organized by Mycological Society of India at ICAR research Complex for NEH region during 8-10 march, 2022

8. Delivered an online keynote address on ”Microbial diversity in ethnic foods: Benefits and concerns” during a National Seminar –cum-workshop on ”Recent Trends in Bioinformatics with special reference to life sciences” organized by Kurseong College, Darjeeling, West Bengal held during 11<sup>th</sup> and 12<sup>th</sup> March 2022.

9. Co-chaired a session on ”Sensitization programme for Young Scientist on Science and Technology (SYST) sponsored by DST, Gol” during the “ National Seminar on Emerging Trends in Plant Sciences” organized by department of Botany, NEHU, Shillong during 29-30 March 2022 at Shillong

### ***Dr. A .Bhattacharjee***

Attended a two days “North-East Education Conclave” organized by department of

Education, Govt of Assam and Shankardev Education and research Foundation (SERF) on

20<sup>th</sup> and 21<sup>st</sup> November 2021 at Guwahati.

### Dr. S. Majaw

1. Attended a virtual course on Introduction to the EMBL-EBI Bioinformatics Tools Framework organized by European Bioinformatics Institute, 20<sup>th</sup> October, 2021.
2. Delivered an invited talk in a Refresher course on “Biotechnology & Bioinformatics 2021” organized by the Department of Biotechnology & Bioinformatics, NEHU, Shillong in collaboration with UGC-HRDC, NEHU, Shillong on 27<sup>th</sup> August 2021.

### Dr. N. Chaurasia

Attended, UGC Sponsored Refresher course in “Biotechnology and Bioinformatics 2021” from 23<sup>rd</sup> August-6<sup>th</sup> Sept 2021, organized by the Department of Biotechnology & Bioinformatics, NEHU, Shillong in collaboration with UGC-HRDC, NEHU, Shillong.

### Publications

#### Published in India:

1. Hajong, A., Deb, S., Sangma, P., Choudhury, A., Suresh, C.P. and Rao, S.R. 2021. Morphological characterization and genetic diversity analysis of wild *Musa* collections from Garo Hills, Meghalaya by SPAR approach. *Acta Scientif. Agricul.*, 5(4): 12-24.
2. Borah, R., Bhattacharjee, A., Rao, S.R., Kumar, V., Sharma, P., Upadhyaya, K. and Choudhury, H. 2021. Genetic diversity and population structure assessment using molecular markers and SPAR approach in *Illicium griffithii*, a medicinally important RET species of Northeast India. *J. Genetic Eng. Biotechnol.*, 19(1): 118-135.
3. Upendra, J.M., Nair, S., Rao, S.R. and Dagla, H.R. 2022. Genetic diversity analysis of *Salvadora oleoides* Decne: An evergreen dry land fruit tree of Rajasthan, India. *Explorat. Environment. Sci. Res.*, 3: 1-9.
4. Akoijam, N., Dutta, S., Joshi, S.R. (2021). Biomineralization Potential of a ureolytic fungus isolated from Mawsmi cave in Meghalaya. *The NEHU Journal*, XIX: 31-48.
5. Majaw, S., Thanglorsang, H.A., Rynjah, C.V., Horam, U. (2021). Ameliorative effect of *Olax acuminata* Wall. Ex Benth. Leaves aqueous extract on high fat diet induced alterations in mice. *The NEHU Journal*, XIX(2): 14-25.

#### Published Abroad:

1. Goswami, B., Gadi, B. R., Rao, S.R. 2022. Morphological and molecular markers based assessment of genetic diversity of a valuable endemic plant *Lasiurus indicus* Henr. in the arid region of Rajasthan, India. *Arid Land Res. Manag.* 36, (3), 298-313; <https://doi.org/10.1080/15324982.2021.2012728>.
2. Rani, V., Raina, S.N., Rao, S.R., Sharma, S. Chodhury, A. 2022. Chromosome complements and karyological studies in *Medicago* species. *Cytologia*, 87(2): 113-118.
3. Baruah, P., Das, A., Paul, D., Chakrabarty, S., Aguan, K., Mitra, S. (2021). Sulfonylurea Class of Antidiabetic Drugs Inhibit Acetylcholinesterase Activity: Unexplored Auxiliary Pharmacological Benefit toward Alzheimer's disease. *ACS Pharmacol. Transl. Sci.* 4(1): 193-205.
4. Khatua, S., Sheet, S.K., Rabha, M., Sen, B., Patra, S.K., Aguan, K. (2021). Ruthenium (II) Complex-based G-quadruplex DNA Selective Luminescent ‘Light-up’ Probe for RNase H Activity Detection. *Chem. Bio. Chem.*, <https://doi.org/10.1002/cbic.202100229>
5. Baruah, P., Phanrang, P.T., Konthoujam, I., Aguan, K., Mitra, S. (2021). Cholinergic drugs bind at the minor groove and reverse induced oxidative stress of calf thymus DNA: a new perspective towards an unexplored therapeutic efficacy. *New J. Chem.*, 45, 13925-13933
6. Baruah, K., Haque, M., Langbang L., Das, S., Aguan, K., Roy, A.S. (2021). *Ocimum sanctum* mediated green synthesis of silver nanoparticles: A biophysical study towards lysozyme binding and anti-bacterial activity. *J. Mol. Liquids*, 337: 116422. (<https://doi.org/10.1016/j.molliq.2021.116422>)
7. Sen, B., Patra, S. K., Rabha, M., Sheet, S. K., Aguan, K., Samanta, D., Khatua, S. (2021). Luminescence Detection of Ag<sup>+</sup> and Phosphate Ions by a Ruthenium(II) Complex-Based Multianalyte Probe: A Combined Spectroscopic, Crystallographic, and Theoretical Approach. *Europ. J. Inorg. Chem.*, 35: 3549-3560.
8. Rabha, M., Sen, B., Sheet, S.K., Aguan, K., Khatua, S. (2022). Cyclometalated iridium(III) complex of a 1,2,3-triazole-based ligand for highly selective sensing of pyrophosphate ion. *Dalton Trans.*, 51: 11372-11380.
9. Barooah, M., Joshi, S.R., Bahar, B. (2022). Editorial: Genomics and Metabolomics of

- Microbes in Fermented Food. *Front. Microbiol.*, 13:892726. doi: 10.3389/fmicb.2022.892726
10. Chettri, U., Joshi, S.R. (2022). A first calibration of culturable bacterial diversity and their dual resistance to heavy metals and antibiotics along altitudinal zonation of the Teesta River. *Arch. Microbiol.*, 204:241. <https://doi.org/10.1007/s00203-022-02858-1>
  11. Singh, R.I., Chettri, U., Maity, P., Ghosh, A.K., Joshi, S.R., Mitra, S. (2022). Modulated Antimicrobial Activity and Drug-Protein Interaction Ability of Zinc Oxide and Cadmium Sulfide Nanoparticles: Effect of Doping with Few First-Row Transition Metals. *J. Cluster Sc.*, <https://doi.org/10.1007/s10876-022-02257-y>(0123456789)
  12. Das, P., Behera, M. D., Barik, S. K., Mudi, S., Jagadish, B., Sarkar, S., Joshi, S.R., Adhikari, D., Behera, S.K., Sarma, K., Srivastava, P. K., Chauhan, P.S. (2021). Shifting cultivation induced Burn area Dynamics using Ensemble Approach in Northeast India. *Trees, Forests and People*. DOI: <https://doi.org/10.1016/j.tfp.2021.100183>
  13. Shylla, L., Barik, S.K., Joshi, S.R. (2021). Application of Native *Bacillus* sp. for Sustainable Jhum Agro-ecosystem. *Proc. Nat. Acad. Sci., India Biol. Sc.*, DOI 10.1007/s40011-021-01263-w
  14. Ka-Ot, A.L., Joshi, S.R. (2021). Application of acid and heavy metal resistant bacteria from rat-hole coal mines in bioremediation strategy. *J. Basic Microbiol.*, DOI:10.1002/jobm.202100241.
  15. Bhattacharjee, K., Chrungoo, N.K., Joshi, S.R. (2021). Cryopreservation Design for Bacterial Cell: a Non-Conventional Gizmatic Approach. *Proc. Nat. Acad. Sci., India Biol. Sc.*, doi.org/10.1007/s40011-021-01266.
  16. Pathaw, N., Gurung, A. B., Chrungoo, N. K., Bhattacharjee, A., Roy, S. S., Ansari M. A., Sharma S. K. (2021). In silico molecular modelling, structural dynamics simulation and characterization of antifungal nature of  $\beta$ -glucosidase enzyme from *Sechium edule*. *J. Biomol. Struct. Dyn.*, 39:12, 4501-4509.
  17. Baranwal, M., Gupta, Y., Dey, P., Majaw S. (2021). Anti-inflammatory phytochemicals against virus-induced hyperinflammatory responses : Scope, Rationale, Application and Limitation. *Phytother. Res.*, 35(11): 6148-6169.
  18. Thapliyal, A., Thapliyal, M., Panwar, S., Rana, D., Pant, M., Semwal, P., Sharma, U., Majaw, S., Nautiyal, V., Kumar, S., Dobhal, R. (2021). Biochemical analysis of curcumin content of turmeric (*Curcuma longa*) from Himalayan region of Uttarakhand and its economic importance. *Biochem. Cell. Arch.*, 22(1): 1109-11142021.
  19. Mandal, M.K., Chaurasia, N. (2021). De novo transcriptomic analysis of *Graesiella emersonii* NC-M1 reveals differential genes expression in cell proliferation and lipid production under glucose and salt supplemented condition. *Renew. Energy*, 179: 2004-2015. doi: 10.1016/j.renene.2021.07.141
  20. Chanu, N.K., Mandal, M.K., Chaurasia, N. (2021). Proteomics analysis reveals several metabolic alterations in cyanobacterium *Anabaena* sp. NC-K1 in response to alphacypermethrin exposure. *Environ. Sci. Pollut. Res.*, 29(13): 19762-19777. doi: 10.1007/s11356-021-16611-6.
- Books/Book Chapters/Proceedings**
1. Thabab, S., Joshi S.R. (2021). Plant growth promoting rhizobacteria from the perspectives of tea plantations and diseases. In: *HB Singh and Anukool Vaishnav (Eds). New and Future Developments in Microbial Biotechnology and Bioengineering*. Elsevier Amsterdam, Netherlands pp. 315-332. ISBN: 978-0-323-85163-3
  2. Pun, B., Joshi S.R. (2022). Microbes as biomedicinal minifactories and medical product evaluation models. In: *PV Mohanan (Ed.) Biomedical Product and Materials Evaluation Standards and Ethics*. Elsevier WoodHead Publishing. United Kingdom. pp. 667-701.
  3. Akoijam N., Joshi S.R. (2022). Conservation Metagenomics: Understanding Microbiomes for Biodiversity Sustenance and Conservation. In: *A. Kumar et al. (eds.), Molecular Genetics and Genomics Tools in Biodiversity Conservation*. Springer Nature Singapore Ltd. [https://doi.org/10.1007/978-981-16-6005-4\\_3](https://doi.org/10.1007/978-981-16-6005-4_3)
  4. Banerjee A., Barik S.K., Joshi S.R. (2022). Bacilli and Sustainable Jhum Agrobiotechnology. In: M. T. Islam et al. (eds.), *Bacilli in Agrobiotechnology, Bacilli in Climate<sup>SEP</sup> Resilient Agriculture and Bioprospecting*. Springer Nature Switzerland. [https://doi.org/10.1007/978-3-030-85465-2\\_11](https://doi.org/10.1007/978-3-030-85465-2_11)
  5. Chanda, P., Joshi S.R. (2022). Understanding the Small World. In: ( P. Verma Ed.) *The Microbes: Industrial Microbiology and*



*Biotechnology*. Springer Nature Singapore Pte Ltd. pp. 1-62. <https://doi.org/10.1007/978-981-16-5214-1>. ISBN 978-981-16-5213-4 ISBN 978-981-16-5214-1 (eBook)

6. Akoijam, N., Kalita D., Joshi, S.R. (2022). Bacteria and Their Industrial Importance. In: (P. Verma Ed.) *The Microbes: Industrial Microbiology and Biotechnology*. Springer Nature Singapore Pte Ltd . pp. 63-80. <https://doi.org/10.1007/978-981-16-5214-1>. ISBN 978-981-16-5213-4 ISBN 978-981-16-5214-1 (eBook)

7. Paul, S., Joshi, S.R. (2022). Industrial Perspectives of Fungi. In: (P. Verma Ed.) *The Microbes: Industrial Microbiology and Biotechnology*. Springer Nature Singapore Pte Ltd . pp. 81- 106. <https://doi.org/10.1007/978-981-16-5214-1>. ISBN 978-981-16-5213-4 ISBN 978-981-16-5214-1 (eBook)

8. Chettri, U., Rai, A.K., Thabab, S., Joshi, S.R. (2020). Production of Malt-Based Beverages. In: P.Verma (Ed.) *The Microbes: Industrial Microbiology and Biotechnology*. Springer Nature Singapore Pte Ltd. pp. 279-306. <https://doi.org/10.1007/978-981-16-5214-1>.

ISBN 978-981-16-5213-4 ISBN 978-981-16-5214-1 (eBook)

9. Joshi, S.R., Baskar, S. (2022). Factors Affecting Biomineralization. In: Berenjian, A., Seifan, M. (eds) *Mineral Formation by Microorganisms. Microbiology Monographs*, vol 36. Springer, Cham. Pp. 283-314 [https://doi.org/10.1007/978-3-030-80807-5\\_8](https://doi.org/10.1007/978-3-030-80807-5_8)

10. Pun, B., Nongkhaw, F.M.W. and Joshi S.R. (2022). Metaomics Technologies in Understanding Ethnomedicinal Plants and Endophyte Microbiome. In: J. Sahu, A. Vaishnav and HB Singh (Eds) . *Plant-Microbe Interactions, harnessing Next-Generation Molecular technologies for Sustainable Agriculture*. CRC Press (Taylor & Francis Group). doi: 10.1201/9781003171416. ISBN: 9781003171416 (eBook).

11. Rik Ganguly and Atanu Bhattacharjee (2021). Enrichment of pharmacokinetic characteristics of UK122 a potential inhibitor for Urokinase-Type Plasminogen Activator. In Session 2: Advances in Structural Biology. Book of Abstracts of Indian Conference on Bioinformatics 2021 (InBix2021). DOI: 10.13140/RG.2.2.22713.08805

#### Funds Received from Agencies including NEHU/UGC

Non- Plan:	₹ 15, 80,000
DBT- M.Sc. Teaching:	₹ 32, 25,000
DBT (Project):	₹ 71, 88,180

#### Research Projects:

Title of Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name (PI/ Co-PI)	Multi/Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (Rs in Lakhs)
Network Programme for Enrichment and Update of Database on Genome Related Information for Indian Spermatophyta and Archegoniatae Taxa- Phase II (₹ 222.88080)	On going	Prof. S. R. Rao	Multi institutional (2021-24)	DBT, Govt. of India	17.07280

NEHU:52.93200					
Utilization Of Citrus Microbiome in Rejuvenating Khasi Mandarin Plants Affected by Important Citrus Diseases (₹ 49,55,940)	Ongoing	Prof. S.R. Joshi	Multi institutional (2021-2024)	DBT, Govt of India	22.80420
Exploration of Native Legumes and Characterization Of Associated Nitrogen Fixing Microsymbionts in North-Eastern India for Development of Biofertilizers (₹ 59.75480)	New	Prof. S.R. Joshi	Multi institutional (2022-2025)	DBT, Govt. of India	32.00480

Development of Drug-seeds that target TFF3 in mammary gastric, and hepatocellular Carcinoma (₹ 52.25 lakhs)	Ongoing	Dr. A. Bhattacharjee & Dr.B Salundi, Mysore University	Multi Institutional (2019-2022)	DBT, Govt. of India	Nil
Comparison of herbal and semi synthetic compounds for enhancement of the proliferation and potency of Mesenchymal Stem Cells derived from adult dental pulp and adipose tissues for diabetic wounds using 3D scaffolds (₹ 45.81 lakhs)	Ongoing	Dr. A. Bhattacharjee & Dr. A.M. Punnoose, Sri Ramachandra University, Chennai	Multi Institutional (2019-2022)	DBT, Govt. of India	Nil

**Academic Collaborations: (Mention the name of collaborator (s), collaborating Institution (s) and the title of the project)**

**(i) National:**

***Prof. S.R. Rao***

A collaborative research project entitled, "Network programme for enrichment and update of Database on genome related information for Indian Spermatophyta and Archeloniatæ taxa-Phase II", funded by Department of Biotechnology, Govt. of India, New Delhi, is being implemented with collaborations from North Eastern Hill University; Amity University; University of Jammu; University of Delhi; Central University of Jammu; Shivaji University; Hansraj College (University of Delhi)

***Prof. S.R. Joshi***

1. Prof S.R. Joshi collaborating with Prof. Madhumita Barooah, Department of Biotechnology, Assam Agricultural University, Jorhat, Assam (Project: Utilization of Citrus microbiome in rejuvenating Khasi mandarin plants affected by important citrus diseases)
2. Prof S.R. Joshi collaborating with Prof. Piyush Pandey, Assam University, Silchar; Prof. P.R. Gajurel, NERIST, Arunachal Pradesh; Prof. H.S. Gehlot and Dr Nisha Tak, JN Vyas University, Jodhpur; Prof. S.K. Barik, CSIR-NBRI, Lucknow; Dr. Indira Devi, ISBD, Imphal, Manipur; Dr. Panna Das, Tripura University, Tripura (Project: Exploration of native legumes and characterization of associated nitrogen fixing microsymbionts in North-Eastern India for development of biofertilizers)

***Dr. A. Bhattacharjee***

1. Dr. A. Bhattacharjee collaborating with Dr. B. Salundi, Mysore University on DBT sponsored research project "Development of Drug-seeds that target TFF3 in mammary gastric, and hepatocellular Carcinoma".
2. Dr. A. Bhattacharjee collaborating with Dr. A.M. Punnoose, Sri Ramachandra University, Chennai on DBT sponsored research project "Comparison of herbal and semi synthetic compounds for enhancement of the proliferation and potency of Mesenchymal Stem Cells derived from adult dental pulp and adipose tissues for diabetic wounds using 3D scaffolds".

**Honours/Awards/Recognition/Membership/Fellowship**

***Prof. S.R. Rao***

1. Awarded Prof. H.C.Arya Gold Medal during 43<sup>rd</sup> Annual Meeting of Plant Tissue

Culture Association (India)- PTCA (I) and International Symposium on "Advances in Plant Biotechnology and Nutritional Security (APBNS-2022) to be held at ICAR-NIPB, New Delhi (17<sup>th</sup>-19<sup>th</sup> Feb. 2022).

2. Delivered Prof. Kameswara Rao Endowment Lecture 2021 during Annual conference of the Indian Association for Angiosperm Taxonomy (IAAT) held from 19<sup>th</sup>-21<sup>st</sup> January 2022 at Kalsubai-Harishchandragad Wildlife Sanctuary, Akola, Ahmednagar district, Maharashtra. Nominated by

3. Nominated for the Award of Prof. Uma Kant Sinha Memorial Lecture 2022 to be delivered during the 45<sup>th</sup> All India Botanical Conference, University of Lucknow, Lucknow in 2022.

***Prof. S.R. Joshi***

1. Nominated Member, Board of Post Graduate Studies in Botany, Nagaland University, Lumami, Nagaland
2. Nominated Member, Scientific Advisory Committee, National Agri-Food Biotechnology Institute (NABI), Mohali
3. Nominated Member, Scientific Advisory Committee, Centre for Innovative and Applied Bioprocessing (CIAB), Mohali
4. Nominated Member of Governing Body, National Agri-Food Biotechnology Institute (NABI), Mohali
5. Nominated Member of Governing Body, Centre for Innovative and Applied Bioprocessing, Mohali
6. Nominated Member, "State Steering Committee for SCF- School Education & SCF-ECCE" Govt. of Meghalaya
7. Nominated Member, NEIGRIHMS Scientific Advisory Committee (NSAC), NEIGRIHMS Shillong.

***Dr. A. Bhattacharjee***

1. Editorial Board member of Journal of Enzymology and Metabolism. Open source publications
2. A member of International Society for Computational Biology
3. An Associate Member of Bioinformatics.org society.
4. DBT, Govt of India nominee in the Institutional Bio-safety Committee, ICAR Research Complex for NEH Region, Umiam

## **Other Activities**

### ***Prof. S.R.Rao***

1. Delivered keynote address on “Clonal Forestry- Bio-technological and Genomic Approaches.” National Conference on Clonal Forestry in Eco-restoration held at Forest Research Centre for Eco-Rehabilitation, Prayagraj on November 10-11; 2021.
2. Attended as Chief Guest and delivered plenary lecture on PGRs of Nagaland: Dynamic conservation and enhancing rural income during workshop on PGRs of Nagaland: Dynamic conservation and enhancing rural income held at Nagaland University, Dimapur. March 5, 2022.

### ***Prof. S.R. Joshi***

1. Delivered a lecture on “Science Teaching at High and Higher Secondary School Level from the perspectives of changing times and pedagogy” at Ramakrishna Mission Higher Secondary School at Sohra, Meghalaya on 17<sup>th</sup> April 2021.
2. Delivered a lecture on “Relationship between Nature of Disciplines and Research” on 18<sup>th</sup> August 2021 in the UGC-HRDC 5<sup>th</sup> Faculty Induction Programme organized by Academic Staff College-HRDC NEHU, Shillong.
3. Delivered a lecture of “Metallophilic and Bioremediation: A microbial perspectives” on 27<sup>th</sup> August 2021 during the Refresher Course in Biotechnology & Bioinformatics organized by UGC-HRDC and Department of Biotechnology & Bioinformatics, NEHU, Shillong during 23<sup>rd</sup> Aug-4 September 2021.
4. Delivered a lecture of “Genomics to Metagenomics” on 28<sup>th</sup> August 2021 during the Refresher Course in Biotechnology & Bioinformatics organized by UGC-HRDC and Department of Biotechnology & Bioinformatics, NEHU, Shillong during 23<sup>rd</sup> Aug-4 September 2021.
5. Delivered a lecture on “Understanding Learning” on 8<sup>th</sup> September 2021 in the UGC-HRDC 5<sup>th</sup> Faculty Induction Programme organized by Academic Staff College-HRDC NEHU, Shillong.
6. Delivered a lecture on “Pedagogical Principles of Teaching and learning” on 8<sup>th</sup> September 2021 in the UGC-HRDC 5<sup>th</sup> Faculty Induction Programme organized by Academic Staff College-HRDC NEHU, Shillong.
7. Delivered a lecture on “Roles of responsibilities of Teachers at Higher Education

Institutions” on 9<sup>th</sup> September 2021 in the UGC-HRDC 6<sup>th</sup> Faculty Induction Programme organized by Academic Staff College-HRDC NEHU, Shillong.

8. Delivered a lecture on “Relationship between Nature of Disciplines and Research” on 9<sup>th</sup> September 2021 in the UGC-HRDC 6<sup>th</sup> Faculty Induction Programme organized by Academic Staff College-HRDC NEHU, Shillong.

9. Delivered a talk on “Online Teaching: Challenges and Opportunities” during a workshop organized by Society for Empowerment and Education Development. Meghalaya on 28<sup>th</sup> October 2021

10. Delivered a lecture on “Relationship between Nature of Disciplines and Research” on 17<sup>th</sup> January 2022 in the UGC-HRDC 7<sup>th</sup> Faculty Induction Programme organized by Academic Staff College-HRDC NEHU, Shillong.

11. Delivered a lecture on “Understanding Learning” on 1<sup>st</sup> February 2022 in the UGC-HRDC 7<sup>th</sup> Faculty Induction Programme organized by Academic Staff College-HRDC NEHU, Shillong.

12. Delivered a lecture on “Pedagogical Principles of Learning” on 2<sup>nd</sup> February 2022 in the UGC-HRDC 7<sup>th</sup> Faculty Induction Programme organized by Academic Staff College-HRDC NEHU, Shillong

13. Delivered a lecture on “Relationship between Nature of Disciplines and Research” on 3<sup>rd</sup> March 2022 in the UGC-HRDC 8<sup>th</sup> Faculty Induction Programme organized by Academic Staff College-HRDC NEHU, Shillong.

### ***Dr. A. Bhattacharjee***

Delivered an invited talk at Refresher course on “Biotechnology & Bioinformatics 2021”, 23<sup>rd</sup> August 2021 on topic “Emerging tools in Bioinformatics” Sponsored by UGC-HRDC, NEHU, Shillong.

### ***Dr. S. Majaw***

1. Delivered an invited talk at the National Lecture Series - Science for All - All for Science organized by Department of Zoology, Govt. PG College, Dehradun on 1<sup>st</sup> August 2021 ([https://www.youtube.com/watch?v=4\\_WmjHv8vGw&t=9s](https://www.youtube.com/watch?v=4_WmjHv8vGw&t=9s))

2. Co-chaired a session in a Seminar on “Emerging Trends in Plant Sciences” organised by the Department of Botany, NEHU, Shillong in collaboration with CSIR-NBRI, Lucknow from 29-30 March, 2022.

3. Anchored/host the National Science day programme on “Integrated Approach in S&T for Sustainable Future” held on 28<sup>th</sup> Feb 2022 organized by the School of Life Sciences, NEHU, Shillong.

***Dr. N. Chaurasia***

Delivered a Guest lecture in 7days training programme (14<sup>th</sup> to 21<sup>st</sup> March, 2022) on “Enhancing Climate stress resilience of Hill agriculture under Changing climate” organized by ICAR Research Complex for NEH Region, Umiam, Meghalaya.

**Reviewers for journals of national/international repute –**

***Prof. S.R. Joshi***

Reviewer for journals namely, Frontiers in Microbiology, Arabian Journal of Science and Engineering, Microbes and Environment, Archives in Microbiology, 3Biotech, Science of the Total Environment.

***Dr. Atanu Bhattacharjee***

Reviewer of Journal of Biomolecular structure and dynamics.

***Dr. S. Majaw***

Reviewer for Journal of Biologically Active Products from Nature, Frontier Pharmacology-Gastrointestinal and Hepatic Pharmacology

**SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022**

Details of Faculties	Name		1	Prof. S.R.Rao	Prof. K. Aguan	Prof. S.R. Joshi
	Date of Joining		2	16.07. 2006	02.03. 2010	14.05. 2003
	Field of specialisation		3	Plant Biotechnology	Molecular Biology	Microbiology
(A) Teaching Experience (in Years)	UG		4	15 years	No	17 years
	PG, including PhD		5	30 years	12.9 yrs	17 Years
(B) Research activities	Basic Research		6	Yes	01	01
	Applied Research		7	Yes	01	01
	Action Research		8		No	-
	Project Submitted		9	Yes	No	Nil
	Ongoing Project		10	Yes	01	02
	Research Paper in UGC care list journals	Group I	11	Yes	07	-
		Group II	12	Yes	No	07
	Books /Books chapters Published	Books	13	No	No	-
		Book Chapters	14	No	No	10
	Popular Articles (Newspaper/ Magazines)		15	No	No	-
	Seminar / Conference/ Symposia organized	National	16	No	No	-
		International	17	No	No	-
	Seminar / Conference/ Symposia attended	National	18	Yes	01	06
		International	19	Yes	No	02
	Conference Proceedings		20	No	No	-
	Consultancy		21	No	No	-
(C) Patent	Applied		22	No	No	-
	Published		23	No	No	-
	Granted		24	No	No	-
(D) E-Content	MOOC/ SWAYAM/E-content developed		25	No	No	-
(E) Any Other	Teaching /Extension /outreach activities		26	Yes	-	04
	Responsibilities other than teaching		27	Yes	Yes	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	Yes	-	08
	Collaborations	National	29	Yes	01	07
		International	30	No	-	-

Details of Faculties	Name		1	Dr. A. Bhattacharjee	Dr. S. Majaw	Dr. N. Chaurasia
	Date of Joining		2	21.12. 2006	14.12. 2005	19.02. 2010
	Field of specialisation		3	Bioinformatics	Biochemistry & Immunology	Environmental Biotechnology
(A) Teaching Experience (in Years)	UG		4	-	2.5 years	-
	PG, including PhD		5	15	16.2 years	12.7
(B) Research activities	Basic Research		6	02	01	16
	Applied Research		7	-	-	12.7
	Action Research		8	-	-	-
	Project Submitted		9	-	02	0
	Ongoing Project		10	02	-	0
	Research Paper in UGC care list journals	Group I	11	01	01	2
		Group II	12	-	01	-
	Books /Books chapters Published	Books	13	-	-	-
		Book Chapters	14	-	-	-
	Popular Articles (News Paper/ Magazines)		15	-	-	-
	Seminar / Conference/ Symposia organized	National	16	-	-	02
		International	17	-	-	-
	Seminar / Conference/ Symposia attended	National	18	-	-	-
		International	19	-	02	-
	Conference Proceedings		20	-	-	-
	Consultancy		21	-	-	-
(C) Patent	Applied		22	-	-	-
	Published		23	-	-	-
	Granted		24	-	-	-
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	-	-	-
(E) Any Other	Teaching /Extension /outreach activities		26	-	2	01
	Responsibilities other than teaching		27	Yes	Yes	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	02	-	-
	Collaborations	National	29	02	-	-
		International	30	Nil	-	-

## DEPARTMENT OF BOTANY

Head : Prof. H. Kayang  
 Telephone : 0364-2722201/2202  
 E-mail : hodbot@nehu.ac.in

### Faculty Profile:

Designation	Name and Qualification	Specialization
Professor	Dr. N.K. Chrungoo*, M.Sc. & Ph.D. (Kashmir Univ.)	Plant Physiology and Plant Molecular Biology
	Dr. M.S. Dkhar, M.Sc. & Ph.D. (NEHU)	Microbial Ecology and Microbiology
	Dr. S.K. Barik**, M.Sc. (Behrampur Univ.) & Ph.D. (NEHU)	Forest Ecology and Management, Biodiversity Conservation and EIA
	Dr. Uma Shankar, M.Sc. (Agra) & Ph.D. (NEHU)	Ecology, Biosystematics, Biodiversity Conservation
	Dr. H. Kayang, M.Sc. & Ph.D. (NEHU)	Microbial Ecology and Microbiology
	Dr. S. Kumaria, M.Sc. & Ph.D. (NEHU)	Plant Biotechnology and Physiology
Associate Professor	Dr. M.C. Das, M.Sc. & Ph.D. (NEHU)	Plant Biotechnology

\* Retired on March 31, 2022; \*\*On lien since November 04, 2016 (as Director, NBRI, Lucknow).

**Thrust Areas of Research:** Plant and Microbial Diversity: Assessment, Characterization, Bio-prospection, and Conservation.

### Brief Statement of Academic Activities and achievements:

The Department offers two M.Sc. Programmes, viz., M.Sc. (Botany) and M.Sc. (Plant Molecular Biology) and Ph.D. Programme in Botany. Faculty members are actively involved in diverse areas of research in plant sciences and are operating several research projects funded by various national and international agencies. The Department received a research grant of 26.00lakhs (Rupees twenty six lakhs) only from different funding agencies (including non-plan grant from the UGC) during 2021–22. The faculty members were invited to deliver lectures at important national and international events, such as symposia and seminars as keynote and lead speakers.

Dr. Kuno Chuzho, Dr. Nutan Singh, Dr. Upasna Chettry, Dr. Gayle Alisha Kharshiing, Dr. Namita Thapa and Dr. Jentu Giba taught some courses as Guest Faculty during the year. Thirty three students were admitted to M.Sc. in Botany and ten students to M.Sc. in Plant Molecular Biology during the year. Thirty students were awarded the M.Sc. degree in Botany and six students were awarded the M.Sc. degree in Plant Molecular Biology. Eight students were admitted to the Ph.D. programme. 7 students were awarded the Ph.D. degree during the year. The research scholars participated in workshops and training programmes at universities/institutions, and also presented papers at national and international seminars/symposia in India. A total of 14 research papers were published in peer-reviewed scientific journals of national and international repute, book chapters and conference proceedings.

Prof. N. K. Chrungoo and Mr. H. R.Choudhury superannuated during the year.

### Students' Profile

**Enrolment Capacity: (1) M.Sc. in Botany: 32; (2) M.Sc. in Plant Molecular Biology (PMB):10; Ph.D.: Variable.**

### Enrolment of students from different States of India and Abroad

M.Sc Botany	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	3	27	-	-	-	-	-	1	-	-	3	28



Manipur	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Sub Total														
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	31	-	-	-	-	1	-	-	-	-	32	

M.Sc PMB	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	1	1	1	7	-	-	-	-	-	-	-	-	2	8
Sub Total														
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	2		8		-		-		-		-		10	

#### Enrolment of PhD students from different States of India and Abroad

Botany	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	1	-	-	-	1	-	-	-	-	-	-	-	2	-
Meghalaya	-	1	1	3	-	-	-	-	-	-	-	-	1	4
West Bengal	-	1	-	-	-	-	-	-	-	-	-	-	-	1

#### Degrees Awarded

##### Degree: M.Sc. (Botany)

Botany	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE (Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	4	14	-	-	-	-	-	-	-	-	4	14
Assam	2	2	1	-	-	-	-	1	-	-	-	-	3	3
Mizoram	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Arunachal P	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Nagaland	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Manipur	-	-	1	1	-	-	-	-	-	-	-	-	1	1
International														
Total	4		25		-		1		-		-		30	

##### Degree: M.Sc. (Plant Molecular Biology)

PMB	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE (Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	1	3	-	-	-	-	-	-	-	-	1	3
Assam	-	1	-	-	-	-	-	1	-	-	-	-	-	2
International														
Total	1		4		-		1		-		-		6	

#### Degree: Ph.D.

##### Degrees Awarded to students from different States of India and Abroad

BOTANY	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Assam	1		1	1	-	-	-	-	-	-	-	-	2	1
Mizoram				1		-	-	-	-	-	-	-	-	1
Jammu Kashmir	1	-				-	-	-	-	-	-	-	1	-
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	2		5		-		-		-		-		7	

#### Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Dr. Chester John Nongkynrih	Taxonomic studies of grasses (Poaceae) in Meghalaya	Prof. Yogendra Kumar
Dr. Puranjoy Mipun	Studies on angiospermic flora of East Karbi Anglong wildlife sanctuary, Assam	Prof. Yogendra Kumar (Supervisor) Prof. B. S. Mipun (Joint Supervisor)
Dr. Nazir Ahmad Bhat	Studies on floristic diversity and systematic of Order Solanales in Meghalaya	Prof. Yogendra Kumar

Dr. Pranita Hajong	Evaluation of microalgae from selected water bodies of Garo Hills, Meghalaya for their pisciculture potential	Dr. P. Ramanujam
Dr. Kuno Chuzho	Altitudinal Variation in diversity of wood-rotting fungi in forests of Nagaland	Prof. M. S. Dkhar
Dr. Carefulness Macnelson Dirborne	Effect of landuse type on soil algal Communities in Khasi Hills, Meghalaya	Dr. P. Ramanujam
Dr. Farzana Naseem	Studies on Diversity of Endophytic Fungi Associated with Nepenthes Khasiana Hook.f.	Prof. H. Kayang

### Research Fellowship

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship(SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others
5	11	Nil	-	1	3

**Fieldwork/Educational Tour of Students:** Nil

**Courses Conducted: Revised Syllabi Effective from 2017**

**Postgraduate:**

#### 1. *M.Sc. in Botany*

##### *Semester I*

Microbiology, Mycology and Plant Pathology; Microbiology, Mycology and Plant Pathology (Practical); Algae, Bryophytes and Pteridophytes; Algae, Bryophytes and Pteridophytes (Practical); Gymnosperms and Plant Anatomy, Gymnosperms and Plant Anatomy (Practical).

##### *Semester II*

Angiosperm Taxonomy, Economic Botany and Ethnobotany, Angiosperm Taxonomy, Economic Botany and Ethnobotany (Practical), Plant Biochemistry and Molecular Biology, Plant Biochemistry and Molecular Biology (Practical), Stress Biology (Open), Bioprocess Development (Open), Techniques in Molecular Biology (Open).

##### *Semester III*

Genetics, Cytogenetics and Plant Breeding; Genetics, Cytogenetics and Plant Breeding (Practical); Plant Physiology, Plant Physiology (Practical), Biodiversity and Phytogeography,

Environmental Pollution and Conservation (Open), Biostatistics (Open).

##### *Semester IV*

Plant Reproductive Biology and Biotechnology, Plant Reproductive Biology and Biotechnology (Practical), Plant Ecology and Ecosystem Analysis, Plant Ecology and Ecosystem Analysis (Practical), Project Work.

### ***Broad Areas for Specialisation through Project Work***

Plant Ecology, Microbial Ecology, Plant Molecular Biology, Advanced Plant Physiology, Taxonomy and Diversity of Angiosperms, Development and Reproduction of Angiosperms, Plant Biotechnology, Plant Genetics and Cytogenetics, Lower plants.

#### 2. *M.Sc. in Plant Molecular Biology*

##### *Semester I*

Microbiology, Cell Biology and Plant Physiology, Fundamentals of Genetic Engineering, Lab Work/ Practical (Practical).

##### *Semester II*

Plant Biochemistry and Molecular Biology, Eukaryotic Genome Organization, Stress Biology (Open), Bioprocess Development (Open), Techniques in Molecular Biology (Open), Lab Work/ Practical (Practical).

##### *Semester III*

Genetics, Cytogenetics and Plant Breeding; Metabolite Engineering (Open), Environmental Pollution and Conservation (Open), Computer Applications and Bioinformatics (Open), Lab Work/ Practical (Practical).

##### *Semester IV*

Plant Biotechnology, Molecular Basis of Differentiation, Lab Work/Practical, Project Work and Dissertation.

### ***Broad areas for Specialization through Project Work.***

Microbiology, Molecular Ecology, Plant Biotechnology, Plant Molecular Biology.

### ***Ph.D. Courses***

Research Methodology, Plant Sciences, Review of Literature and Seminar.

### **Seminars/Conferences/Workshops/Symposia/Extension Programmes (National/International):**

#### **Organized**

1. National Seminar on *Emerging Trends in Plant Sciences* (29-30<sup>th</sup> March, 2022) (Hybrid Mode) organised in collaboration with CSIR-National Botanical Research Institute, Pratap Marg, Lucknow-226001 Uttar Pradesh, India and Department of Botany, NEHU, Shillong (Convener: Prof. H. Kayang & Dr. M.C. Das: Organizing Secretary)

#### **Attended:**

##### **Prof. Uma Shankar**

1. Two Invited Lectures on “Making Teaching Effective” in Two-Week Refresher Course (15-28 March 2021) under FDP under PMMMNMTT Scheme of Ministry of Education, GOI, on March 26, 2021 at Tripura University, Agartala.
2. Keynote Talk on “Linking Ecosystem Services with Sustainable Development” in National Webinar on “Ecosystem Services and Sustainable Development”, held on June 30, 2021, and organized by the Department of Botany, University of Science & Technology Meghalaya (USTM), Ri-Bhoi, Meghalaya.
3. Invited Lecture in “Orientation Programme for Ph.D. Scholars 2021(B) Batch”, held on August 23, 2021, organized by the University of Science & Technology Meghalaya (USTM), Baridua, Ri-Bhoi, Meghalaya.
4. Chaired a Session in Webinar Series on “National Parks, Tiger Reserves, Wildlife Sanctuaries and Botanical, Zoological Gardens of India – Identification, Conservation and Management”, held during September 01-06, 2021, organized by Govt. Madhav Sadashivrao Golvalkar College, Rewa (M.P.).
5. Participated in an International Webinar on “Rare Plants of Western Ghats – Their Potential and Utilization in Sustainable Development” by Prof. S.R. Yadav on July 31, 2021, organized by The University of Trans-Disciplinary Health Sciences and Technology (TDU), Bengaluru. VIEW
6. Participated in “Effective Research Planning and Execution using Scopus and ScienceDirect” by Sri Vishal Gupta of Elsevier, organized by the University of Jammu on December 17, 2021 in Online Mode.

##### **Dr. M. C. Das**

1. Attended International Webinar on 1-3<sup>rd</sup> August 2021 on *Genetics and Genomics Technologies for crop Improvement* organized by Hansraj College, Department of Botany in association with International Maize and Wheat improvement Centre (CIMMYT) Mexico, and in collaboration with Mahatma Hansraj Faculty Development Centre), New Delhi
2. Participated 3 days’ virtual International webinar on *Virtual Global Symposium and Workshop Conserving Exceptional Plants Cryobiotechnology and the model Oaks*-October 19-21, 2021, organized by Cincinnati Zoo & Botanical Garden, Cincinnati, Ohio, USA.
3. Attended International Training Programme on *Plant Tissue Culture for Entrepreneurship and Sustainable development* organised by SAGE University Bhopal and Quest International University Malaysia w.e.f 10<sup>th</sup> -23<sup>rd</sup> November, 2021.
4. International live webinar on Plant Tissue Culture: *Micropropagation to Genetic Transformation* organized by Biogene.com on 28<sup>th</sup> July, 2021.
5. Attended 5 days’ hands on online course “Plotting Graphs for Research” using ggplot 2 and other packages in R Programming Language w.e.f 1<sup>st</sup> till 5<sup>th</sup> September, 2021.
6. Attended Short term course on NEP from Gujarat University UGC-HRDC 18<sup>th</sup>-24<sup>th</sup> October, 2021

#### **Publication**

##### **Published in India:**

- Chrungoo, N. K. and Chettry, U. (2021). Buckwheat: A critical approach towards assessment of its potential as a super crop. *Indian J. Genet.*, 81 (1): 1-23.
- Ferry Kharshandi, Alarisa Khylllep, Highland Kayang (2021). Plant Growth Promoting Rhizobacteria of *Curcuma longa* L. and their Impact on its growth. *Proc. Natl. Acad. Sci. India, Sect. B. Biol. Sc.*, <https://doi.org/10.1007/s40011-021-01268-5>.
- Kharkongor P. S., Dkhar M. S., Chuzho K. (2021). Documentation and preliminary study of wood inhabiting fungi from two forest stands of Ri-Bhoi district, Meghalaya. *Biological Spectrum of Northeast India: Ann. Biosc. Comm.*, 1, ISSN: 978-9390-434-190, pp. 48-54.
- Bharali, R, Shankar, U. and Brahma, J. 2021. Extent of polymorphism and heteromorphism in pollen grains of two invasive species of *Ageratina*

Spach in Northeast India. *J. Hist. Bot. Soc. Bengal*, 75(2): 63-85.

**(i) Edited Books/Volumes.**

Chuzho K., Dkhar, M. S. (2021). Wood-rotting fungi of Nagaland. Recent Advancements on Science and Technology by Nongsiang, D., Paul, D. and Marak J.C.P. Sara Publication, Ahmadabad, Gujarat, India, ISSN: 978-81-95307-2-3-4, pp. 86-115.

**Published Abroad:**

Bose B., S. Kumaria and P. Tandon (2022). Physiological insights into the role of temperature and light conditions on *in vitro* growth, membrane thermostability and antioxidative activity of *Nardostachys jatamansi*, an IUCN Red-listed critically endangered therapeutic plant. *South Afr. J. Bot.*, 146: 365-374

Parveen S., N. Singh, A. Adit, S. Kumaria, R. Tandon, M. Agarwal, A. Jagannath and S. Goel (2022). Contrasting reproductive strategies of two *Nymphaea* species affect existing natural genetic diversity as assessed by microsatellite markers:

Implications for conservation and wetlands restoration. *Front. Plant Sci.*, 13:773572. doi: 10.3389/fpls.2022.773572

Shankar, U. (2022). Formation-to-fall: natural history and the journey of a lesser-known genus of orchids, *Monomeria*. *Ind. J. Hist. Sci.*, 56(3): 204-216 (<https://link.springer.com/article/10.1007/s43539-021-00022-0>)

Das, M. C., Devi, S.D., Kumaria, S., Reed, B.M. (2021). Looking for a way forward for the cryopreservation of orchid diversity. *Cryobiology*, 102:1-14.

Khylllep A., Thakuria D. and Dkhar M. S. (2021). Effect of jhum cycles on acidobacteria and burkholderia community in the rhizosphere of mixed crops of different jhum fields. *Appl. Ecol. Environ. Sci.*, 9(11): 919-930.

**(d) Consultancy:**

Mayondi Grace Ramsdam, Anand Kumar Chaudhari, Vipin Kumar Singh, Mamtaj S. Dkhar, Highland Kayang, Nawal Kishore Dubey and Bhanu Prakash (2021). Antifungal and antioxidant activity of plant based essential oils on *Aspergillus flavus* Link (Trichocomaceae) isolated from stored maize grains of Meghalaya. *Arch. Phytopath. Plant Protect.*, DOI: [10.1080/03235408.2021.1911561](https://doi.org/10.1080/03235408.2021.1911561).

Vishwakarma, S. K., Singh, N. and Kumaria, S. (2021). Genome-wide identification and analysis of the PAL genes from the orchids *Apostasi ashenzhenica*, *Dendrobium catenatum* and *Phalaenopsis equestris*. *J. Biomol. Struct. Dyn.*, <https://doi.org/10.1080/07391102.2021.2019120>

Zhang Kaixuan, Ming He, Fan Yu, Zhao Hui, Bin Gao, Yang Keli, Li Faliang, Tang Yu, Qiang Gao, Tao Lin, Muriel Quinet, Dagmar Janovská, Vladimir Meglič, Kwiatkowski Jacek, Olga Romanova, Chrungoo Nikhil, Suzuki Tatsuro, Zlata Luthar Mateja Germ, Woo Sun-Hee, Milen I. Georgiev, Zhou Meiliang (2021). Resequencing of global Tartary buckwheat accessions reveals multiple domestication events and key loci associated with agronomic traits. *Genome Biol.*, 22 (1): 1-17.

**(i) Book Chapters.**

Diengdoh, R.V., Das, M. C., Nongsiang, A., Kumaria, S. (2022). Recent *in vitro* propagation advances in genus *Paphiopedilum*: Lady Slipper Orchids. In: Commercial Scale Tissue Culture for Horticulture and Plantation Crops. S. Gupta and P. Chaturvedi (Eds.). Springer, Singapore. Chapter 14, pp.317-335. <https://doi.org/10.1007/978-981-19-0055-6-14>.

**(v) Proceedings of Seminar/Conferences: Nil**

**(c). Popular Articles (News Paper and Magazines)**

Uma Shankar 2021. Kya Baat Thi. *NEHU Jyoti* (Annual Magazine of NEHU) 5: 67. (RNI: MEGHIN-00011-2017).

Title of Consultancy Project (Total outlay in Lakhs)	Current Status (New/on-going/ completed)	Name of the Consultant	Multi/Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Energy audit for the Government of Meghalaya (Rs 16.05 L)	New	Dr. S. Hazarika	Single  (2019-2022)	Govern ment of Meghal aya	Rs 8.30 L

**Funds Received during the current Year**

**(A) Bulk Grant to Department/Centre/Section etc. other than EMR grant**

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	26.00 (16.00- Non Plan 02.00 -NEHU Capital 07.00- Minor Equip 01.00 -Seminar)
02	UGC (SAP, CAS, Seminar etc.)	Nil
03	DST (FIST, PURSE, Seminar etc.)	Nil
04	NEC (program name)	Nil
05	Others	Nil

**(B) EMR Research Projects to individual faculty members**

Title of Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of Investigator (PI/Co-PI)	Multi/Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (Rs. in Lakhs)
A Multi-institutional Networking Project entitled "Bioresource and sustainable livelihoods in North East India: Component 4: Biodiversity based livelihoods Sub Project: 4- Development of captive farming, sustainable harvest technologies, integration with plantation programmes and agroforestry, and value addition of targeted bioresources Zanthoxylum and Gaultheria species. Total outlay = 75.542 lakhs (Sanction No. BT/01/17/NE/TAX, dated 29.03.2018)	Completed	Prof. H. Kayang (PI)	Multi Institute (2018- Sept 2021)	DBT, New Delhi	Nil
A Study of Indian Himalayan Region (IHR) by Indian Himalayan Central Universities Consortium under NEHU Theme 2. Agro-Ecology in Himalayan States with special emphasis on marketing in Meghalaya Total outlay=18.75 lakhs	Completed	Prof. H. Kayang (PI)	Multi Institute (2021- March 2022)	Department of Higher Education, Central University Division, Ministry of Education, Govt. of India	Nil
Fungal and mycotoxin contamination of stored maize (Zea mays Linn) samples in Meghalaya and antimicrobial and mycotoxin inhibitory efficacy of some biocontrol agents and essential oils of traditionally used medicinal plants of the region under the DBT program for the NE (2017-2021).	Completed	Prof. M. S. Dkhar and Prof. H. Kayang Collaborated with Prof. N. K. Dubey and Dr. Bhanu Prakash, BHU, Varanasi.	Multi Institute 2017-2021	DBT, Govt. of India, New Delhi	34.18 (NEHU)

Network Programme for Enrichment and Update of Database on Genome Related Information for Indian Spermatophyta and Archegoniatae Taxa Phase II Department of Biotechnology, India BT/PR34491/BID/7/958/2020. Total outlay Rs. 17,07280 (NEHU)	Ongoing	Prof. S.R Rao, (PI) Department of Biotechnology & Bioinformatics (Superannuated on 31st July, 2022) Dr. M.C. Das (Co-PI), Department of Botany	Network Program	DBT, Govt. of India, New Delhi	17,07280 (NEHU)
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## Academic Collaborations

### (i). National

Prof. M. S. Dkhar and Prof. H. Kayang

i) Collaborated with Prof. N. K. Dubey and Dr. Bhanu Prakash, BHU, Varanasi, on the project *Fungal and Mycotoxin Contamination of Stored maize (Zea mays Linn) Samples in Meghalaya and Anti-microbial and Mycotoxin Inhibitory Efficacy of Some Biocontrol Agents and Essential oils of Traditionally Used Medicinal Plants of the Region under the DBT program for the NE* (2017 -2021).

#### Prof. H. Kayang

i) Collaborated with Dr. R. Ganesan (ATREE, Bangalore) on a multi-institutional networking project, entitled *Bioresource and Sustainable Livelihoods in North-East India*: Component 4: Biodiversity based livelihoods Sub Project: 4-Development of captive farming, sustainable harvest technologies, integration with plantation programmes and agroforestry, and value addition

of targeted bioresources *Zanthoxylum* and *Gaultheria* species (2018 -2021).

ii) Collaborated with HNB Garhwal University, Srinagar, Garhwal, Uttarakhand for a Study of Indian Himalayan Region (IHR) by Indian Himalayan Central Universities Consortium assigned by NITI Aayog, New Delhi in 2021.

### (ii). International: Nil

#### Honours/Awards/Recognition/Membership/Fellowship

##### Prof. M. S. Dkhar

Member of Governing Body of Sankardev College

Member of BOS of Department of Biotechnology and Bioinformatics

Involved in preparation of academic reports of the department

Reviewed research articles.

Evaluated Ph.D. Theses and Emeritus Research Project

#### Prof. Uma Shankar

Awarded INSA Teachers Award 2021 by the Indian National Science Academy, New Delhi.

#### Prof. H. Kayang

Member of Governing Body of Lyngngam Presbyterian College, West Khasi Hills, for a period of three years w. e. f. 6. 01. 2021.

Member of Board of Studies in Horticulture, Tura NEHU for a period of three-year w. e. f 06.01. 2021.

Member of Governing Body of Smit College, Nongmadan, Khyriem Shyiemship, PO-Smit, East Khasi Hills District, Shillong -793015 for a period of three-year w. e. f. 1<sup>st</sup> August 2021.

Member of Board of under Graduate Studies (BUGS) in Botany for a period of 3 years w. e. f. 22. 10. 2021.

Member of Board of Governors of the ICFAI University, December, 2021 - 2024.

Member of Expert Committee of Meghalaya Biodiversity Board on Access and Benefit Sharing (ABS) under Rule 13(1) of Meghalaya Biological Diversity Rules 2010 w. e. f. 21<sup>st</sup> February 2022.

Member of Board of Studies (PG) in Department of Life Sciences (Botany), Manipur University, Canchipur, Imphal for a period of three-year w. e. f. 29. 08. 2020.

#### Dr. M.C. Das

Member of Vidyalaya Management Committee, w.e.f. 19-11-2019.

Life Member of ISTD, New-Delhi.w.e.f. dated 16<sup>th</sup> July, 2021

#### Other Activities

**Prof. M. S. Dkhar**

1. Delivered invited lecture as a Resource person on “*Vermicomposting*” during Refresher Course organized by Department of Biotechnology and Bioinformatics, NEHU, Shillong during September, 2021.

2. Delivered invited lecture on “*Mushroom Cultivation*” during Refresher Course organized by USTM (2022).

**Prof. Uma Shankar**

Coordinated Online Distance Learning Programme on “Fundamentals of Remote Sensing and GIS Technology Course (in Hindi)”, conducted by the Indian Institute of Remote Sensing (IIRS), Dehradun during September, 14-28, 2021.

**Prof. H. Kayang**

1. Delivered invited lecture as a Resource person on 4<sup>th</sup> September, 2021 for the Refresher Course on ‘Biotechnology & Bioinformatics’ from 23rd August till 6th September 2021 supported by UGC-Human Resource Development Centre, NEHU, Shillong and organized by Department of Biotechnology & Bioinformatics, NEHU, Shillong

2. Delivered invited lecture as a Resource person on 6<sup>th</sup> December, 2021 for the short Term Course for Academic Administrators (1<sup>st</sup>–7<sup>th</sup> December, 2021) organised by the UGC-Human Resource Development Centre, NEHU, Shillong

**Prof. Suman Kumaria**

1. Chaired the session on “Plant Biotechnology” in the National Seminar on Emerging Trends in Plant sciences (29-30<sup>th</sup> March, 2022) (Hybrid Mode) organised in collaboration with CSIR-National Botanical Research Institute, Pratap Marg, Lucknow-226001 Uttar Pradesh, India and Department of Botany, NEHU, Shillong.

2. Chaired the session on “Special Technical Session: Young Enclave” on March 26, 2022 in an International Conference cum Workshop (hybrid mode) on “Agrotechnology, Value Addition, Global Trade and Sustainability of

Medicinal/Neutraceutical Orchids & Orchid Show” at Dr Y.S.R. Horticultural University, Venkataramannagudem-534 101, West Godavari, Andhra Pradesh during March 25-27, 2022 organized by The Orchid Society of India (TOSI) jointly with Dr. Y. S. R. Horticultural University, Venkataramannagudem in co-operation with BSI, Kolkata (West Bengal) and ICAR-NRC for Orchids, Pakyong.

3. Delivered an invited lecture on “*Mass propagation of Orchids for Socio-Economic Empowerment*” in an International Conference cum Workshop (hybrid mode) on “Agrotechnology, Value Addition, Global Trade and Sustainability of Medicinal/Neutraceutical Orchids & Orchid Show” at Dr Y.S.R. Horticultural University, Venkataramannagudem-534 101, West Godavari, Andhra Pradesh during March 25-27, 2022 organized by The Orchid Society of India (TOSI) jointly with Dr. Y S R Horticultural University, Venkataramannagudem in co-operation with BSI, Kolkata (West Bengal) and ICAR-NRC for Orchids, Pakyong

4. Invited as a resource person and delivered a lecture on “*Tissue culture for conservation and sustainable utilization of endangered and medicinal orchids*” in the Workshop on Conservation of ornamental, medicinal and wild fruit bearing plants from Himalayan regions, 10-11 March 2022 Jointly Organised by Society for Plant Research (SPR) & Department of Ecology & Environmental Science, Assam University, Silchar.

**Dr. M. C. Das**

1. Invited speaker at Refresher Course by the Department of “Biotechnology & Bioinformatics” from 23rd August till 6th September 2021 supported by UGC-Human Resource Development Centre, NEHU, Shillong on 1<sup>st</sup> September on the topic: Cryobiotechnology; An approach for long term conservation of rare and threatened plants of North East India.

**SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022**

Details of Faculties	Name		1	Prof. M. S. Dkhar	Prof. Uma Shankar	Prof. H. Kayang
	Date of Joining		2	06. 05. 1988		26.03. 1997
	Field of specialisation		3	Microbial Ecology and Microbiology	Ecology, Biosystematics, Biodiversity Conservation	Microbial Ecology and Microbiology
(A) Teaching Experience	UG		4	N/A	N/A	N/A
	PG, including PhD		5	34	21	25

(in Years)						
(B) Research activities	Basic Research		6	Yes	Yes	Yes
	Applied Research		7	Yes	Yes	Yes
	Action Research		8	N0	N0	N0
	Project Submitted		9	Yes	No	Yes
	Ongoing Project		10	No	No	No
	Research Paper in UGC care list journals	Group I	11	yes	yes	yes
		Group II	12	yes	yes	yes
	Books /Books chapters Published	Books	13	-	No	No
		Book Chapters	14	yes	No	No
	Popular Articles (News Paper/ Magazines)		15	No	Yes	No
	Seminar / Conference/ Symposia organized	National	16	No	No	Yes
		International	17	No	No	No
	Seminar / Conference/ Symposia attended	National	18	yes	yes	yes
		International	19	No	No	No
(C) Patent	Conference Proceedings		20	No	No	No
	Consultancy		21	No	No	No
	Applied		22	No	No	No
	Published		23	No	No	No
(D) E-Content	Granted		24	No	No	No
	MOOC/SWAYAM/ E-content developed		25	No	No	No
(E) Any Other	Teaching /Extension /outreach activities		26	yes	yes	yes
	Responsibilities other than teaching		27	yes	yes	yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	yes	yes	yes
	Collaborations	National	29	yes	yes	yes
		International	30	No	No	No

Details of Faculties	Name		1	Prof. Suman Kumaria	Dr. M. C. Das
	Date of Joining		2	27. 03. 1997	29. 03. 2007
	Field of specialisation		3	Plant Biotechnology and Physiology	Plant Biotechnology
(A) Teaching Experience (in Years)	UG		4	N/A	N/A
	PG, including PhD		5	25	15
	Basic Research		6	Yes	Yes
	Applied Research		7	Yes	Yes
	Action Research		8	N0	N0



(B) Research activities	Project Submitted		9	Yes	Yes
	Ongoing Project		10	No	No
	Research Paper in UGC care list journals	Group I	11	yes	yes
		Group II	12	yes	yes
	Books /Books chapters Published	Books	13	No	No
		Book Chapters	14	Yes	Yes
	Popular Articles (News Paper/ Magazines)		15	No	No
	Seminar / Conference/ Symposia organized	National	16	No	Yes
		International	17	No	No
	Seminar / Conference/ Symposia attended	National	18	yes	yes
		International	19	No	Yes
(C) Patent	Conference Proceedings		20	No	No
	Consultancy		21	No	No
	Applied		22	No	No
	Published		23	No	No
(D) E-Content	Granted		24	No	No
	MOOC/SWAYAM/ E-content developed		25	No	No
(E) Any Other	Teaching /Extension /outreach activities		26	yes	yes
	Responsibilities other than teaching		27	yes	yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	yes	yes
	Collaborations	National	29	yes	yes
		International	30	No	No

## DEPARTMENT OF ZOOLOGY

Head : Prof. A. K. Yadav (till 23<sup>rd</sup> November 2021)

Prof. B. Roy (from 24<sup>th</sup> November 2021)

Telephone : 0364-2722301

E-mail : [hodzoo@nehu.ac.in](mailto:hodzoo@nehu.ac.in)

### Faculty Profile:

Designation	Name and Qualification	Specialization
Professor	Dr. B. B. P. Gupta, M.Sc. & Ph.D. (BHU)	Endocrinology and Reproductive Physiology
	Dr. S. B. Prasad, M.Sc. & Ph.D. (BHU)	Cell and Tumour Biology
	Dr. R. N. K. Hooroo, M.Sc. & Ph.D. (NEHU)	Developmental Biology
	Dr. N. Saha, M.Sc. & Ph.D. (NEHU)	Biochemical Adaptation and Metabolic Regulation
	Dr. A.K. Yadav, M.Sc. (Agra), Ph.D. (NEHU)	Parasitology and Ethnopharmacology
	Dr. B. Roy, M.Sc. (NBU), Ph.D. (NEHU)	Parasitology and Toxicology
	Dr. A. S. Dixit, M.Sc. (G.U.), Ph.D. (BHU)	Reproductive Endocrinology and Chronobiology
	Dr. B. Keshan, M.Sc. & Ph.D. (Calcutta Univ.)	Insect Physiology
	Dr. S. R. Hajong, M.Sc. & Ph.D. (NEHU)	Entomology
	Dr. S. Ghosh, M.Sc. & Ph.D. (Calcutta Univ.)	Genetics
Associate Professor	Dr. B. Das, M.Sc. (Berhampur Univ.), Ph.D. (NEHU)	Cell Physiology and Biochemistry
Assistant Professor	Dr. S. Choudhury, M.Sc. & Ph.D. (NEHU)	Entomology

### Thrust Areas of Research

The Department is engaged in research under the thrust area “Faunal Diversity and Ecophysiology” in various disciplines, such as biodiversity of fishes, amphibian and insects in the North-Eastern Region; adrenergic signal transduction in pineal gland; hormonal regulation of oxidative metabolism; chronoendocrinology, photophysiology and seasonality in reproduction, migration and moult in some birds of North-Eastern; breeding biology of endangered fishes, amphibians and birds; cisplatin action as an anticancer drug and efficacy of putative anticancerous plants and animals from the North-Eastern Region; biochemical adaptation to nitrogen; regulation carbohydrate, protein and oxidative metabolism; nitric oxide signalling under various environmental stresses in air-breathing fishes; diversity of helminth parasites and entomopathogenic nematodes in the North-Eastern Region with an emphasis on molecular taxonomy of zoonotic parasites; bioprospection

of anthelmintic efficacy of plants used in traditional medicine systems along with the extent of their toxic potential; silkworm growth

and development under various environmental stresses and the involvement of hormones mediated signaling pathway and epigenetic study of human cancer with emphasis on the role of DNA methylation.

### Brief statement of academic activities and achievements:

The Department of Zoology offers specializations in all major disciplines of Zoology. The Department is regularly conducting the UGC Refresher course in Zoology for college and university teachers. Faculty members of the Department have several collaborations with national and international academic and research institutions. The Department has successfully organized several national and regional seminars, symposia and workshops having direct regional and national relevance. Besides book(s)/book chapters, many research papers are published in reputed national and international journals. The Department offers the MSc and PhD Programmes. The Department has adopted the choice-based credit system (CBCS) at the MSc level. Some research students qualified in the CSIR-UGC NET examination. Some students have acquired important faculty positions in educational and research institutions of the North-Eastern Region and other parts of the country.

The total intake of students per year for MSc Zoology course is 35, and for the PhD programme, it varies from 15 to 20. The faculty members and research students of this Department are recipients of various awards, distinctions and fellowships. Based on the overall academic and research contributions, the Department was awarded the three phases of DRS and two phases of DSA programme by the UGC under its Special Assistance Programme to promote higher research with special reference to the North-Eastern Region. Further, the Department has received grants recently under

the DST-FIST programme for the second time and third phase of UGC-DSA programme. The Department has various research projects sponsored by UGC, DST, DBT, ICMR, ICAR, MoEF, etc. All these projects have a direct relevance to the socio-economic development of the North-Eastern Region. The Department is conducting seminars every week for MSc students under the supervision of faculty members. The Department manages a “Zoonic Society” for various activities involving students, teaching and non-teaching staff.

### Students' Profile

**Enrolment Capacity: M.A./M.Sc./M.Tech./Any other(Please mention)35**

### PhD – Variable

**Enrolment of students from different states of India and abroad**

#### M.Sc.

STATE(Name)	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	2	-	-	-	-	-	-	-	-	-	-	-	2
Arunachal Pradesh	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Manipur	-	-	-	-	-	1	-	-	-	-	-	-	-	1
Meghalaya	-	1	5	22	-	-	-	-	-	-	-	-	5	23
Mizoram	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Nagaland	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Sub Total	-	3	5	26	-	1	-	-	-	-	-	-	5	30
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total													35	

#### Ph.D.

STATE(Name)	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	1	1	-	-	-	-	-	-	-	-	-	-	1	1
Bihar	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Meghalaya	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Sub Total	2	1	-	2	-	-	-	-	-	-	-	-	2	3
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total													5	

#### Degrees Awarded: M.Sc.

**Degrees Awarded to students from different States of India and abroad**

STATE(Name)	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	2	8	-	-	-	-	-	-	-	-	-	-	2	8
Arunachal Pradesh	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Bihar	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Manipur	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Meghalaya	-	-	6	15	-	-	-	-	-	-	-	-	6	15
Nagaland	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Sub Total	3	8	6	19	-	-	-	-	-	-	-	-	9	27
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	11		25		-		-		-		-		36	

**Ph.D.**

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	1	-	-	-	-	1	-	-	-	-	-	1	1
Meghalaya	-	-	1	1	-	-	-	-	-	-	-	-	1	1
Sub Total	-	1	1	1	-	-	1	-	-	-	-	-	2	2
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	2		2		-		-		-		-		4	

**Students awarded Ph.D.degree**

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Dr. Manash Pratim Borah	Documentation of ethnozoological knowledge adjacent to some wildlife sanctuaries of Assam and evaluation of potential antitumor activity of certain traditionally used animals.	Prof. S.B. Prasad
Dr. Grimchi T. Sangma	Assessment of toxicological and mutagenic effects of selected smokeless tobaccos in mice	Prof. S.B. Prasad
Dr. Rubaiya Hasan	Studies on environmentally-induced oxidative stress and the antioxidant strategies in the air-breathing catfish, <i>Clarias magur</i> (Hamilton).	Prof. N. Saha
Dr. Kermi-u Tariang	Effects of arsenic and lead on selected enzymes of carbohydrate metabolism and MAPK pathway in air-breathing catfish, <i>Heteropneustes Jossilis</i> (Bloch, 1794).	Dr. B. Das

**Students selected for higher studies:**

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
Dr. Bodhisattwa Banerjee	Post-doctoral Associate	Department of Biochemistry The Robert Larner, MD College of Medicine, The University of Vermont, 89 Beaumont Avenue Burlington, VT 05405-1742	U.S. A

**Research Fellowship**

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others
4	7	5	-	1	-

**Courses Conducted:****Postgraduate: MSc**

*Semester I:* Cell Biology and Immunology; Biological Chemistry and Molecular Biology; Genetics and Developmental Biology.

*Semester II:* Animal Physiology; Parasitology and Entomology; Techniques in Biology.

*Semester III:* Endocrinology and Reproductive Biology; Aquatic Biology and Fisheries; Animal Diversity.

*Semester IV:* Biosystematics and Evolution; Ecology and Environmental Biology; Special Paper.\*

*\*Special Papers Offered:* Biochemical Adaptation and Metabolic Regulation; Developmental Biology; Endocrinology and Reproductive Physiology; Fish Biology; Helminth Parasitology; Insect Physiology; Molecular Cell Biology and Immunology.

**PhD Courses**

Research Methodology; Optional Papers (Applied Entomology; Chronobiology; Fish Physiology and Toxicology; Freshwater Ecology; Molecular and Biochemical Zoology; Tropical Parasitology); Review of Literature.

**Seminars/Conferences/Workshops/Symposia/Extension Programmes (National/International):**

**Attended**

**Prof. R.N.K. Hooroo**

Attended via online mode the “National Seminars on Life and Life Processes: Interdisciplinary approach for sustainable development”, Department of Zoology, Goa University, July 19 - 21, 2021.

**Prof. B. Keshan**

Attended and delivered a talk on “Accumulation and utilization of carbohydrate reserves in *Bombyx mori*” in the International E-conference on “Sericulture: Molecules to Materials”, organized by the Seri-biotechnology Lab, Department of Biotechnology, GIS, GITAM (Deemed to be University), Visakhapatnam. August 12-14, 2021.

**Prof. S.R. Hajong**

Invited talks at recognized institutions within or outside NEHU:

- (i) Delivered an invited talk as Resource person on ‘Insect diversity and conservation in North east India’ at State level workshop for establishment of Nagaland state Chapter under Himalayan Knowledge network,. March 31, 2022.
- (ii) Delivered a talk as a Resource person on the topic “Insect Biodiversity in Northeast India” in the National Webinar organised by Department of Zoology, Kokrajhar Govt College on 16<sup>th</sup> December 2021.

Editors/Reviewers for journals of national/international repute;

- (i) Reviewed paper for the journal ‘International Journal of Tropical Insect Science’.
- (ii) Reviewed paper for the journal ‘Bulletin of Pure and Applied Sciences Section-A-Zoology’
- (iii) Reviewed paper for the journal ‘Zootaxa’

**Lectures delivered at Refresher Courses/ Orientation Programs/Workshops, etc.**

- (i) Delivered a lecture as Resource person on ‘Perspectives in Insect diversity and conservation in Northeast India’ in the ‘Refresher Course in Biodiversity and Conservation’ Organised by Department of Botany, and HRDC, NEHU Shillong.

**Dr. B. Das**

Delivered a lecture on “Cutting Edge Techniques Applied in Biology” in refresher course in “Biotechnology and Bioinformatics” held during 23/08/2021 to 06/09/2021 at UGC-

HRDC, NEHU, Shillong-793022, on 24th August 2021

Served as external reviewer for few reputed international journals (**Diabetes, Obesity and Metabolism, Bioscience Reports, Phytomedicine, Journal of Parasitic Diseases, etc.**)

**Publications**

**Published in India:**

Shylla, A., Pathaw, D., Roy, B. (2022). Toxicological assessment of methanolic fruit extract of *Zanthoxylum acanthopodium* DC. in swiss albino mice: acute and sub-acute toxicity study. *Toxicol. Int.*, 29(1): <https://doi.org/10.18311/ti/2022/v29i128051>.

Sarkar, A., Roy, B. (2022). Reproductive toxicity in male wistar rats caused by Kaempferol Derivative Isolated from *Lysimachia amosa*. *J. Sci. Res.*, 66(1): <https://doi.org/10.37398/JSR.2022.660115>.

Pathaw, D., Shylla, A., Roy, B. (2021). Safety evaluation of *Carex baccans* Nees. (a traditional anthelmintic remedy), in swiss albino mice: an acute and sub-acute toxicity study. *Toxicol. Int.*, 28(2): <https://doi.org/10.18311/ti/2021/v28i2/26208>.

Dixit A.S., Byrnat S., Singh N.S. (2021). Avian diversity of North-Eastern Hill University campus, Shillong and need for its conservation., *J. Exp. Zool. India*, 24: 1395-1402.

Kharbisnop B., Hajong S.R. (2021) New Records of *Pseudanaphes sikkimianus* (Insecta: Chalcidoidea: Mymaridae) from Meghalaya, India. *Bionotes*. 23: 2-3.

Kharbisnop B., Hajong S.R. (2022) An Updated Diversity Pattern of Chalcididae (Hymenoptera: Chalcidoidea) between Disturbed and Undisturbed Forest of Meghalaya with Some New Records. *Ambient Science*, 09(1): 13-16. DOI:10.21276/ambi.2022.09.1.aa02.

Das, K.S., Kharthangmaw, J. M., Nonglait, K.C.L., Marwein, C.B., Choudhury, S. (2022). Sensory structures on the maxillary palp of the termite species *Hoplititermes jepsoni* Snyder (Termitidae: Isoptera). *Int. J. Entomol. Res.*, 7(2): 171–177

**(ii) Proceedings of Seminar/Conferences.**

Sangma, J.S.A., Prasad, S.B.: Antitumour potential of weaver ants, *Oecophylla smaragdina* against murine ascites Dalton's lymphoma. National Seminar on Life and Life processes: Interdisciplinary Approach for Sustainable Development. Department of Zoology, Goa University, Goa 19<sup>th</sup> – 21<sup>st</sup> July 2021. pp- 36.

Sangma, J.S.A., Prasad, S.B.: Studies on the nutritive value of weaver ants *Oecophylla maragdina* and its anti-tumour efficacy against murine ascites Dalton's lymphoma. International Conference on Advances in Food Science and Technology (AFSTECH-2021). North-Eastern Hill University, Tura Campus, Meghalaya, India in Association with Swedish South Asian Network on Fermented Foods (SASNET-FF), Anand, Gujarat, India on the 26<sup>th</sup> – 28<sup>th</sup> October 2021. pp- 53

**(a) Published Abroad:**

Hijam, N., Warjri, P., Gupta, B.B.P. (2021). Differential role of cAMP, cGMP, and Ca<sup>2+</sup> and involvement of kinases and CBP-CREB-CRE pathway in regulation of arylalkylamine N-acetyltransferase 2 mRNA levels in the pineal organ of an air-breathing catfish, *Clarias gariepinus*. *Asian J. Biol. Life Sci.*, 10(13), 642-648. [UGC-CARE listed journal. e-ISSN : 2278-5957 ; p-ISSN : 2278-747X].

Warjri P., Hijam, N., Gupta, B.B.P. (2022). In vitro effect of cholinergic agonists and antagonists, activators and blockers of voltage-sensitive Ca<sup>++</sup>-channels and Na<sup>+</sup>-channels on arylalkylamine N-acetyltransferase 2 mRNA levels in pineal organ of the catfish, *Clarias gariepinus*. *South Asian j. Exp. Biol.*, 12(1), 73-81. ISSN: 2230-9799.

Prasad, R. & Prasad, S.B. (2021). Modulatory effect of rutin on the antitumor activity and genotoxicity of cisplatin in tumor bearing mice. *Advance Pharma. Bulletin*, 11(4): 746-754

Sangma, J.S.A., & Prasad, S.B. (2021). Population and nesting behaviour of weaver ants, *Oecophylla maragdina* from Meghalaya, India. *Sociobiol*, 68(4): e7204.

Shangpliang, P.W., Shadap, R., Hooroo, R.N.K., Nongkynrih, S.J., Kharkongor, M., Rangad, D., Tron, R.K.L. (2021). The first comprehensive description of the normal development of Annandale's High-Altitude Frog, *Kurixalus naso* (Annandale, 1912). *Current Herpetology*. 40(2): 137-150.

Banerjee, B., Koner, D., Karasika D., Saha, N. (2021). Genome-wide identification of novel long non-coding RNAs and their possible roles in hypoxic zebrafish brain. *Genomics*, 113(1): 29-43. <https://doi.org/10.1016/j.ygeno.2020.11.023>

Das, S., Chattopadhyay, D., Chatterjee, S.K., Mondal, S.A., Majumder, S.S., Mukhopadhyay, S., Saha, N., Velayuthan, R., Bhattacharya, S., Mukherjee, S. (2021). Increase in PPAR $\gamma$  inhibitory phosphorylation by Fetuin—A

through the activation of Ras-MEK-ERK pathway causes insulin resistance. *Biochim et Biophys Acta (BBA)-Mol Basis of Disease*, 1867 (4): 166060. <https://doi.org/10.1016/j.bbadis.2020.166050>

Koner, D., Banerjee, B., Kumari, A., Lanong, A.S., Snaitang, R., Saha, N. (2021). Molecular characterization of superoxide dismutase and catalase genes, and the induction of antioxidant genes under the zinc oxide nanoparticle-induced oxidative stress in air-breathing magur catfish (*Clarias magur*). *Fish Physiol. Biochem.*, 47(6): 1909-1932. <https://doi.org/10.1007/s10695-021-01019-3>

Chutia P., Das M., Goswami N., Choudhury M., Saha N. and Sarma K. (2022). Deciphering the role of aquaporin 1 in the adaptation of the stinging catfish *Heteropneustes fossilis* to environmental hypertonicity by molecular dynamics simulation studies. *J. Biomol. Str. Dyn.* <https://doi.org/10.1080/07391102.2022.2027272>

Saha N., Koner D. and Sharma R. (2022). Environmental hypoxia: A threat to the gonadal development and reproduction in bony fishes. *Aquaculture and Fisheries*, 7(5): 572-582. <https://doi.org/10.1016/j.aaf.2022.02.002>

Gogoi, S., Soren, A.D., Yadav, A.K. (2022). Ultrastructural studies on effect of *Caesalpinia bonducella* and *Croton joufra*, traditionally used anthelmintics, on *Hymenolepis diminuta* and *Syphacia obvelata*. *JoBAZ* 83:31: <https://doi.org/10.1186/s41936-022-00296-5>.

Kharmawlong, G.K., Nongrum, R., Kumar, J.E., Chhetri, B., Yadav, A.K., Nongkhaw, R. (2022). A new approach for the synthesis of biologically active chromene compounds using a photo catalyst TiO<sub>2</sub>-Ag. *Synth. Commun.* 52:229-249.

Soren, A.D., Yadav, A.K. (2022). Toxicity assessment of traditionally used medicinal plants *Sesbania sesban* var. Bicolor, *Cyperus compressus* and *Asparagus racemosus*. *Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.* 92, 309–317.

Dhar ED, Yadav A.K., Basumatary, G., Bez, G. (2021). Anti-pinworm activity of novel coumarin-based trisubstituted methanes in *Syphacia obvelata*-infected mice. *Parasitol. Int.*, 85:102425. [https://doi: 10.1016/j.parint.2021.102425](https://doi.org/10.1016/j.parint.2021.102425).

- Soren, A.D., Yadav, A.K. (2021). Studies on the anthelmintic potentials of the roots of *Asparagus racemosus* willd. (Asparagaceae). *Clin. Phytosci.* 7:32 <https://doi.org/10.1186/s40816-021-00270-8>.
- Dixit, A.S., Byrsat S., Kataki, B. (2022). Hypothalamic expression of GnRH-I and GnIH in the Eurasian tree sparrow over a single long day. *Photochem. & Photobiol. Sci.*, doi: 10.1007/s43630-021-00143-6, IF: 3.98.
- Dixit, A.S., Chetri, R. and Singh, N.S. (2022). Utilization of biomolecules as fuel energy and their physiological mechanism during migration in birds- A review. *J. Environ. Biol.* 43:1-10. IF: 0.78.
- Siammawii, V., Tariatang, A. D., Muansanga, L. Malsawmdawngliana, F., Khanikar, D., Dixit A.S., Lalremsanga, H.T. (2022). Larval oral morphology of *Fejervarya multistriata* (Hallowell, 1861) from Mizoram, Northeast India. *SAURIA, Berlin*, 44(3):61-62
- Singh, N.S., Dixit, A.S., Khanikar, D. (2021). Morphological and ultrastructural studies of pectin in the Eurasian tree sparrow. *Microscopy & Microanalysis*, doi:10.1017/S1431927621012885: 1-9. IF: 4.13.
- Hajong, S.R., Limatemen (2021) *Platylomiakohimaensis* sp. a new cicada species (Hemiptera: Cicadidae) from the Naga Hills in the Eastern Himalayas. *Zootaxa*. 28;5047(1):81-91. doi: 10.11646/zootaxa.5047.1.7.
- Kshetriya D., Warjri C.D., Chakrabarty T.K., Ghosh S. (2021) Assessment of heavy metals in some natural water bodies in Meghalaya, India. *Environ. Nanotechnol. Monit. & Manag.*, 16 100512 <https://doi.org/10.1016/j.enmm.2021.100512>
- Khongsti, K., Das, B. (2021) Osteopontin and breast cancer metastasis: possible role of genistein on regulation of osteopontin. *Phytomed. Plus* 1(4): 100138 <https://doi.org/10.1016/j.phyplu.2021.100138>
- Das, B. (2021) Glucosinolate biosynthesis: role of MAM synthase and its perspectives. *Biosci. Rep.* 41:BSR20211634 <https://doi.org/10.1042/BSR20211634>
- Tariatang, K., Khongsti, K., Das, B. (2021) Effect of arsenic and lead on glucose level and expression of ERK in air-breathing catfish, *Heteropneustes fossilis*. *Int. Aquat. Res.* 13:129-137 <https://doi.org/10.22034/IAR.2021.1923096.1136>
- Khongsti, K., Pasupuleti, B.G., Das, B., Bez, G. (2021) 1,2,3-Triazole tethered 1,2,4-trioxane trimer induces apoptosis in metastatic cancer cells and inhibits their proliferation, migration and invasion. *Bio. Chem.* 112: 104952 <https://doi.org/10.1016/j.bioorg.2021.104952>
- Das, K.S., Marwein, C.B., Nonglait, K.C.L., Choudhury, S. (2021). Sensory structures on the antenna of soldier and worker castes of the termite species *Odontotermes parvidens* (Termitidae: Isoptera: Blattaria). *Micros. Res. Techniq.*, 85(3):956-970: <https://doi.org/10.1002/jemt.23965>.
- Marwein, C.B., Das, K.S., Nonglait, K.C.L., Kharthangmaw, J.M., Choudhury, S. (2022). Scanning electron microscopic studies of the antennal sensilla of *Aplosomyx chalybaeus* (Hope) (Coleoptera: Chrysomelidae). *Micros. Res. Techniq.*, 1-10: <https://doi.org/10.1002/jemt.24219>.

## (ii) Book Chapters.

- Dixit, A.S., Khanikar, D., Kataki, B. (2021). Environmental control of reproduction and related behaviours in song birds. In: *Advances in Environmental Research* (ed. Justin A. Daniels), Nova Science publishers, Inc. (USA), Vol.84, DOI: <https://doi.org/10.52305/GQSU4556>.

## Funds Received during the current Year

### (C) Bulk Grant to Department/Centre/Section etc. other than EMR grant

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	INR. 16 Lakhs
02	UGC (SAP, CAS, Seminar etc.)	-
03	DST (FIST, PURSE, Seminar etc.)	INR. 1.73 crores
04	NEC (program name)	-
05	Others	INR. 105.00Lakhs

### EMR Research Projects to individual faculty members:

Title of Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of Investigator (PI/Co-PI)	Multi/ Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (Rs. in Lakhs)
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“Influence of altitudinal variations on breeding activity of anurans prevailing in the Hilly terrain of Meghalaya”	Completed	Prof. R.N.K.Hooroo	Single	Department of Science and Technology- Science and Engineering Research Board, New Delhi	36.65 Lakhs
To Elucidate the Unique Biochemical Adaptational Strategies that Allow two Air-breathing Catfishes ( <i>Clarias batrachus</i> and <i>Heteropneustes fossilis</i> ) to Survive in Ammonia Enriched Toxic Waste	Completed	Prof. N. Saha (PI), Prof. S. Bhattacharya (Co-PI), Dr. V. Mohindra (Co-PI), Dr. H.K. Barman (Co-PI)	Multi Institute (2018-2022)	National Agricultural Science Fund - Indian Council of Agricultural Research (NASF-ICAR), New Delhi	105.00 Lakhs
Molecular Adaptation During Exposure to Zinc Oxide and Titanium Dioxide Nanoparticles with Special Reference to Oxidative Stress, Nitric Oxide Production, Heat Shock Protein Expression and Induction of Apoptosis in Air-Breathing Catfish, <i>Clarias batrachus</i>	Completed	Prof. N. Saha (PI)	Single Institute (2018-2022)	Department of Science and technology – Science and Engineering Research Board DST-SERB), New Delhi	77.00 Lakhs
To Elucidate the Roles of HIF and mtor Signaling Pathways, and the Autophagy in Adaptation to Hypoxia Stress in Air-Breathing Stinging Catfish, <i>Heteropneustes fossilis</i> .	New	Prof. N. Saha (PI)	Single Institute (2022-2025)	Department of Science and technology – Science and Engineering Research Board DST-SERB), New Delhi	60.00 Lakhs
Quantitative Assessment and Mapping of Cicadas from Northeast India	Completed	Prof. S. R. Hajong	Single (2018-2021)	Department of Biotechnology	Nil
Purification and characterization of glycerol kinase and glycerol-3-phosphate dehydrogenase (cytosolic and mitochondrial) from <i>Homo sapiens</i> for their critical role in type 2	Ongoing	Dr. B Das (PI)/ Dr. D. Biswal (Co-PI)	Single (2020-2023)	DBT, GoI, New Delhi	Nil



diabetes (INR 85.1 L)					
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## Academic Collaborations

### (i). National

#### Prof. N. Saha collaborated with:

- (i) Prof. S. Bhattacharya, Department of Zoology, Visva-Bharati University, Santiniketan, WB for the project “To Elucidate the Unique Biochemical Adaptational Strategies that Allow two Air-breathing Catfishes (*Clarias batrachus* and *Heteropneustes fossilis*) to Survive in Ammonia Enriched Toxic Waste.” (ii) Dr. V. Mohindra, National Bureau of Fish genetic resource, Indian Council of Agricultural Research, Lucknow, UP for the project “To Elucidate the Unique Biochemical Adaptational Strategies that Allow two Air-breathing Catfishes (*Clarias batrachus* and *Heteropneustes fossilis*) to Survive in Ammonia Enriched Toxic Waste.” (iii) Dr. H. K. Barman, Central Institute of Freshwater Aquaculture, Indian Council of Agricultural Research, Bhubaneswar, Orissa for the project “To Elucidate the Unique Biochemical Adaptational Strategies that Allow two Air-breathing Catfishes (*Clarias batrachus* and *Heteropneustes fossilis*) to Survive in Ammonia Enriched Toxic Waste.”

#### Prof. A.K. Yadav collaborated with:

- (i) Prof. G. Bez, Department of Chemistry, NEHU, Shillong. Joint supervisor of Ph.D. student, Ms. Errini D. Dhar, Thesis title: Studies on anthelmintic efficacy and potential toxicity of selected coumarin derivatives. Thesis submitted and one research paper published during reporting period. (ii) Prof. R.L. Nongkhaw, Department of Chemistry, NEHU, Shillong. Joint Supervisor of Ph.D. student, Mr. Bhushan, Chhetri, Thesis title: Synthesis of some quinazoline derivatives, and evaluation of their anthelmintic efficacy in rodents. One research paper published during reporting period.

#### Prof. A.S. Dixit collaborated with:

- (i) Lucknow University Through funded project by DST (IRHPA scheme), Govt. of India. (ii) Delhi University, Mangalore University, CCS University, NISER Bhubaneswar through funded project from Department of Biotechnology, Govt. of India. (iii) Prof. H.T. Lalremsanga, Department of Zoology, Mizoram University.

#### Dr. S.R. Hajong collaborated with:

- (i) Dr. Limatemjen, Associate Professor, Department of Zoology, Kohima Science College, Nagaland, Jointly described a new species of cicada from Nagaland. (ii) Prof. H.J. Syiemlieh, Department of Geography, North-Eastern Hill University

Shillong. Collaborated on the study of periodic cicada *Chremisticaribhoi*, its distributional mapping and weather data analysis and entomological aspects.

#### Dr. B. Das collaborated with:

- (i) Prof. K. Satyamoorthy, Director, MLSC, Manipal University, Manipal, (ii) Prof. S. Mishra, Scientist-E, ILS, Bhubaneswar, Odisha.

### (ii). International

#### Prof. A.K. Yadav collaborated with:

- (i) Prof. Andreas Schmidt-Rhaesa, Head, Department of Invertebrates, Centre for Taxonomy and Morphology, University of Hamburg, Germany: Collaborating on Biodiversity of Nematomorpha in North-East India.

#### Prof. A.S. Dixit collaborated with:

- (i) Prof. Kazuyoshi Tsutsui, Centre for Advanced Biomedical Sciences, Waseda University, Tokyo Japan. (ii) Prof. Henryk Urbanski, Department of Behavioral Neuroscience, OHSU; Divisions of Neuroscience, ORPRC

#### Dr. B. Das collaborated with:

- (i) Dr Todd Holyoak, Professor, Department of Biology, University of Waterloo, 200 University Avenue West Waterloo, ON N2L 3G1, Canada

### Honours/Awards/Recognition/Membership/ Fellowship

#### Prof. S.B. Prasad

Members of the Editorial Boards of “**Journal of Bioresources**”

#### Prof. A.K. Yadav

Editorial Board Member, Journal of Parasitic Diseases (Springer).

Academic Editor, PLoS ONE.

Associate Editor, BMC Complementary Medicine & Therapies (Springer Nature).

Fellow, Zoological Society of Kolkata (FZS).

Executive Committee Member, Indian Society for Parasitology.

**Prof. A.S. Dixit**

(Co-opted member of the Program Advisory Committee (PAC) on Organismal and Evolutionary Biology (OEB), Science and Engineering Research Board (SERB), Department of Science and Technology (DST), Govt. of India, New Delhi, 29.07.2022- 28.07.2025.

Vice-President and Executive committee Member: Indian Society for Chronobiology.

Vice- President: Association of Avian Biologists in India.

**Prof. B. Keshan**

Life Member- Indian Science Congress Association, Kolkata.

Life Member – The Zoological Society, Kolkata

**Dr. B. Das**

Member (57681M) of American Society for Biochemistry and Molecular Biology, U.S.A.

Life membership (L/124/2015) of Society for Mitochondrial Research and Medicine, India

Life membership (LM 699 of 2005) of Indian Society for Parasitology, India

**Other Activities**

**Prof. S.B. Prasad**

Editors/Reviewers for journals of national/international repute: Reviewer of the Journals – Frontiers in Immunology, PLOS One, Indian J. Exp. Biology, Oriental Insects, Journal of Ethnobiology and Ethnomedicine, Journal of Bioresources, etc.

**Lectures delivered at Refresher Courses/Orientation Programs/Workshops, etc:** As a **Resource person delivered two lectures** on the topics “**Immunoglobulin diversity**” and “**Cell cycle regulation**” on 26<sup>th</sup>

August 2021 and 2<sup>nd</sup> September 2021 respectively in the Refresher Course for the teachers organized by the Department of Biotechnology & Bioinformatics, NEHU, HRDC Shillong during August 23- September 06, 2021.

**Prof. N. Saha**

Editors/Reviewers in International journals

- i) Comparative Biochemistry and Physiology
- ii) Journal of Experimental Biology
- iii) Fish Physiology and Biochemistry
- iv) Fish and Shellfish Immunology
- v) Science of the Total Environment
- vi) Gene

vii) Ecotoxicology and Environmental Safety

Refresher course lectures delivered:

- i) Department of Zoology, Burdwan University, Burdwan
- ii) Department of Zoology, Jammu University, Jammu

**Prof. A.K. Yadav**

Reviewed research papers for Journal of Ethnopharmacology (Elsevier), Journal of Parasitic Diseases (Springer). Proceedings of the National Academy of Sciences, India Section B: Biological Sciences (Springer), Proceedings of the Zoological Society (Springer).

Performed confidential work for Meghalaya Public Service Commission, Shillong.

Prof. A.S. Dixit

Director, Internal Quality Assurance Cell (IQAC), North-Eastern Hill University, Shillong, 25.02.2021 to present.

**Prof. B. Roy**

Reviewed Research Papers for

- (a) PLOS ONE
- (b) Acta Tropica
- (c) Journal of Parasitic Diseases

**Prof. B. Keshan**

Chaired a scientific session in the International E-conference on “Sericulture: Molecules to Materials”, organized by the Seri-biotechnology Lab, Department of Biotechnology, GIS, GITAM (Deemed to be University), Visakhapatnam. 2021, August 12-14

Reviewers for journals of national/international repute:

- a. Journal of Insect Science (Oxford Academic)
- b. Insect Science (Wiley)
- c. Comparative Biochemistry and Physiology (Elsevier)
- d. Scientific Reports (Springer-Nature Publishing Group)

Responsibilities other than Teaching

- a. Member, University level Yoga Committee, NEHU
- b. Member, Admission Committee, M.Sc. Admission, Department of Zoology, NEHU
- c. Member, School Board, School of Life Sciences, NEHU
- d. Member, Board of Studies, Zoology, NEHU

- e. Member, Board of Studies, Biotechnology and Bioinformatics, NEHU  
 f. Member, University Court, NEHU  
 g. Member, Academic Council, NEHU  
 h. Attended One-Day National Level Panel Discussion on “National Education Policy

(NEP) 2020” organized by the North-Eastern Hill University Teachers’ Association (NEHUTA), NEHU, Shillong, Meghalaya, India in collaboration with the Department of Education, NEHU, Shillong, 14th September 2021.

### SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	Name		1	<b>Prof. B. B. P. Gupta</b>	<b>Prof. S. B. Prasad</b>	<b>Prof. (Mrs.) R. N. K. Hooroo</b>
	Date of Joining		2	16.03.1985	13.06.1983	19.08.1993
	Field of specialisation		3	Endocrinology and Reproductive Physiology	Cell and Tumour Biology	Developmental Biology
(A) Teaching Experience (in Years)	UG		4		2 years	
	PG, including PhD		5	36 years (from joining) 10 months (this academic year)	38 years	
(B) Research activities	Basic Research		6	Endocrinology and Reproductive Physiology	Cell and Tumour Biology	
	Applied Research		7			
	Action Research		8			
	Project Submitted		9		Nil	1
	Ongoing Project		10		Nil	
	Research Paper in UGC care list journals	Group I	11		2	1
		Group II	12			
	Books /Books chapters Published	Books	13			
		Book Chapters	14			
	Popular Articles (News Paper/ Magazines)		15			
	Seminar / Conference/ Symposia organized	National	16			
		International	17			
	Seminar / Conference/ Symposia attended	National	18			
		International	19			
	Conference Proceedings		20			
	Consultancy		21			
(C) Patent	Applied		22			
	Published		23			
	Granted		24			
(D) E-Content	MOOC/SWAYAM/ E-content developed		25			
	Teaching /Extension /outreach activities		26			

(E) Any Other	Responsibilities other than teaching		27		Member of various Statutory authorities of NEHU, selection committees, visiting/inspection team for affiliation of courses	
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28			
	Collaborations	National	29			1
		International	30			1

Details of Faculties	Name		1	<b>Prof. N. Saha</b>	<b>Prof. A. K. Yadav</b>	<b>Prof. B. Roy</b>
	Date of Joining		2	06.05.1988	19.08.1993	23.12.1996
	Field of specialisation		3	Biochemical Adaptaion and Metabolic Regulation	Parasitology	Parasitology and Toxicology
(A) Teaching Experience (in Years)	UG		4		Nil	8 years
	PG, including PhD		5	Yes	29 Years	18 years
(B) Research activities	Basic Research		6	Yes	Documentation and Validation of Anthelmintic Ayurvedic Formulations	Yes
	Applied Research		7	No	Anthelmintic efficacy of traditional medicine plants	Yes
	Action Research		8	No	Attempting standardization of Ayurvedic anthelmintic formulations	NO
	Project Submitted		9	No	Nil	NO
	Ongoing Project		10	Yes (One)	Nil	NO
	Research Paper in UGC care list journals	Group I	11	Yes (5)	4	1
		Group II	12		0	2
	Books /Books chapters Published	Books	13	No	Nil	NO
		Book Chapters	14	No	Nil	NO
	Popular Articles (News Paper/ Magazines)		15	No	Nil	NO
	Seminar / Conference/ Symposia organized	National	16	No	Nil	NO
		International	17	No	Nil	NO
	Seminar / Conference/ Symposia attended	National	18	No	Nil	NO
		International	19	No		NO
	Conference Proceedings		20	No	Nil	NO

	Consultancy		21	No	Nil	NO
(C) Patent	Applied		22	No	Nil	NO
	Published		23	No	Nil	NO
	Granted		24	No	Nil	NO
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	No	Online synchronous interaction	NO
(E) Any Other	Teaching /Extension /outreach activities		26	No	Parasitology and Immunology at Post Graduate Level	NO
	Responsibilities other than teaching		27	Yes	Members of Several Administrative Committees at Department Level, Academic Council, School Board in Life Sciences; HOD, Member-Secretary, Institutional Ethics Committee (Animal Models) and Chairman BOS in Zoology till November 23, 2021.	HOD, Zoology; Chairman BOS in Zoology
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	Editorial Board Member, Journal of Parasitic Diseases (Springer). Academic Editor, PLoS ONE. Associate Editor, BMC Complementary Medicine & Therapies (Springer Nature). Fellow, Zoological Society of Kolkata (FZS). Executive Committee Member, Indian Society for Parasitology.	Member of School Board, SLS; Member of BOS in Chemistry; member of Academic Council, NEHU
	Collaborations	National	29	Yes	Prof. G. Bez, Department of Chemistry, NEHU, Shillong. Joint supervisor of Ms. Errini D. Dhar, Thesis title: Studies on anthelmintic efficacy and potential toxicity of selected coumarin derivatives.  Prof. R. L. Nongkhaw, Department of Chemistry, NEHU, Shillong. Joint Supervisor of Mr. Bhushan, Chhetri, Thesis title: Synthesis	NO

					of some quinazoline derivatives, and evaluation of their anthelmintic efficacy in rodents.	
		International	30	No	Prof. Andreas Schmidt-Rhaesa, Head of Department of Invertebrates, Centre for Taxonomy and Morphology, University of Hamburg, Germany: Collaborating on Biodiversity of Nematomorpha in North-East India.	NO

Details of Faculties	Name		1	<b>Prof. A. S. Dixit</b>	<b>Prof. B. Keshan</b>	<b>Prof. S. R. Hajong</b>
	Date of Joining		2	27. 2. 2006	19.04.2007	19.12.2002
	Field of specialisation		3	Reproductive Endocrinology and Chronobiology	Insect Physiology	Entomology
(A) Teaching Experience (in Years)	UG		4	-	0	
	PG, including PhD		5	16 Years	1	20 years
(B) Research activities	Basic Research		6	Yes	Yes	25 years
	Applied Research		7	Yes	Yes	no
	Action Research		8	No	No	no
	Project Submitted		9	5	No	no
	Ongoing Project		10	No	No	no
	Research Paper in UGC care list journals	Group I	11	1	No	Group I
		Group II	12	3	No	Group II
	Books /Books chapters Published	Books	13	-	No	Books
		Book Chapters	14	1	No	Book Chapters
	Popular Articles (News Paper/ Magazines)		15	-	No	
	Seminar / Conference/ Symposia organized	National	16	No	No	National
		International	17	No	No	International
	Seminar / Conference/ Symposia attended	National	18	No	No	National
		International	19	No	Yes	International
	Conference Proceedings		20	No	No	
	Consultancy		21	No	No	
(C) Patent	Applied		22	No	No	
	Published		23	No	No	
	Granted		24	No	No	
(D) E-Content	MOOC/SWAYA M/ E-content developed		25	No	No	
	Teaching /Extension		26	No	Yes	1

(E) Any Other	/outreach activities					
	Responsibilities other than teaching		27	1. Director, IQAC, NEHU, Shillong	Yes	
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	2. Chairmen, MoU Committee, NEHU, Shillong	Yes	no
	Collaborations	National	29	3. Co-opted member of the Program Advisory Committee (PAC) on Organismal and Evolutionary Biology (OEB), Science and Engineering Research Board (SERB), Department of Science and Technology (DST), Govt. of India, New Delhi.	No	National
		International	30	3	No	International

Details of Faculties	Name		1	<b>Prof. S. Ghosh</b>	<b>Dr. B. Das</b>	<b>Dr. S. Choudhury</b>
	Date of Joining		2	14.07.2009	06.04.2009	20.12.2002
	Field of specialisation		3	Genetics	Cell Physiology and Biochemistry	Entomology
(A) Teaching Experience (in Years)	UG		4	no		-
	PG, including PhD		5	13	15 years	19 years
(B) Research activities	Basic Research		6	yes	Yes	Termite taxonomy, Insect sensory structures
	Applied Research		7	no	Yes	-
	Action Research		8	no		-
	Project Submitted		9	no	3	-
	Ongoing Project		10	no	1	-
	Research Paper in UGC care list journals	Group I	11	no	Group I	-
		Group II	12	yes	Group II	3
	Books /Books chapters Published	Books	13	no	Books	-
		Book Chapters	14	no	Book Chapters	-
	Popular Articles (News Paper/ Magazines)		15	no		-
	Seminar / Conference/ Symposia organized	National	16	no	National	-
		International	17	no	International	-
	Seminar / Conference/ Symposia attended	National	18	no	National	-
		International	19	no	International	-
	Conference Proceedings		20	no		-
	Consultancy		21	no		-
(C)	Applied		22	no		-

Patent	Published		23	no		-
	Granted		24	no		-
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	no	E-content developed for PG and PhD classes	-
(E) Any Other	Teaching /Extension /outreach activities		26	no	Yes	-
	Responsibilities other than teaching		27	yes	As per the assignments of the HOD	-
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	no	Memberships for 3 societies	-
	Collaborations	National	29	yes	National	-
		International	30	no	International	-



## VI SCHOOL OF PHYSICAL SCIENCES

**Dean** : Prof. K. Mohan Rao  
**Telephone** : 0364272503  
**E-mail** : kmrao@nehu.ac.in

### 1. Vision and Mission of the School:

**Vision:** The school of physical sciences at the North-Eastern Hill University aspires to be a leading force for advancing society through the continuous pursuit of educational excellence and cutting-edge research in the physical and mathematical sciences.

**Mission:** To discover and apply fundamental laws of nature and reason, foster an inclusive and creative intellectual environment, and shape the next generation of physical scientists and mathematicians.

### Core Values

In the SPS, we...

- prioritize scientific advancement, collaboration, and education
- lead with integrity and transparency
- create a culture of respect, inclusion, and wellness

### 2. Name of the Departments/Centers under the School:

Sl. No.	Name of the Department
1	DEPARTMENT OF CHEMISTRY
2	DEPARTMENT OF PHYSICS
3	DEPARTMENT OF MATHEMATICS
4	DEPARTMENT OF STATISTICS

### 3. Salient Data of the School

Total No. of Students awarded Ph.D. Degree	11
Total No. of Research Publications National International	National = 10 International = 62
Total No. of Research Projects (Fund Received in Lakhs) Completed Ongoing 9 New	18.7 Lakhs
Total No. of Students Placed/Selected for Higher Studies	14

### 4. Major Collaborations, International/National Awards):

National : 25, International : 13

### 5. Future Plans:

- Advancement faculty research efforts to keep abreast of the latest scientific advances and to impart new concepts in the department's graduate curricula.
- Maintain graduate teaching and research programs to develop the next generation of academic, industrial, and government laboratory chemists who will be called upon to solve new problems.
- Increase the depth and breadth of outreach activities and opportunities for technology transfer from the faculty and staff to the people of the state, region, and nation.
- Encourage interdisciplinary research endeavors that draw on and add to the research base within The University of North Eastern Hill University.

## DEPARTMENT OF CHEMISTRY

**Head** : Prof. T.S. Basu Baul  
**Telephone** : 0364-2722601/2626  
**E-mail** : hodche@nehu.ac.in

### Faculty Profile:

Designation	Name and Qualification	Specialization
<b>Professor</b>	Dr. R. H. Duncan Lyngdoh, M. Sc. (NEHU), Ph. D. (IIT Madras)	Organic Chemistry
	Dr. K. Mohan Rao, M. Sc. (S. V. Univ.), Ph. D. (IIT, Kanpur)	Inorganic Chemistry
	Dr. A. K. Chandra, M. Sc. & Ph. D. (Burdwan Univ.)	Physical Chemistry
	Dr. G. Bez, M.Sc. & Ph. D. (Gauhati Univ.)	Organic Chemistry
	Dr. H. Askari, M. Sc. & Ph. D. (AMU)	Physical Chemistry
	Dr. T. S. Basu Baul, M. Sc. (Jabalpur Univ.), Ph. D. (N. Bengal Univ.)	Inorganic Chemistry
	Dr. M. K. Sahoo, M. Sc. (Utkal Univ.), Ph. D. (Comenius, Czechoslovakia)	Organic Chemistry
	Dr. S. Mitra, M. Sc. (Vidyasagar Univ), Ph. D. (IACS, Jadavpur Univ.)	Physical Chemistry
	Dr. M. Velusamy, M. Sc & Ph. D. (Bharathidasan Univ.)	Inorganic Chemistry
	Dr. R. L. Nongkhlaw, M. Sc. & Ph.D. (NEHU)	Organic Chemistry
<b>Associate Professor</b>	Dr. D. P. S. Negi, M. Sc. (Univ. Roorkee), Ph.D. (IIT, Roorkee)	Physical Chemistry
	Dr. B. Sarkar, M. Sc. (N. Bengal Univ.); Ph. D. (IIT, Guwahati)	Physical Chemistry
	Dr. A. K. Pal, M. Sc. (Calcutta Univ.), Ph. D. (Kalyani Univ.)	Organic Chemistry
<b>Assistant Professor</b>	Dr. E. K. Rymmai, M.Sc. & Ph. D. (NEHU)	Inorganic Chemistry
	Dr. S. Khatua, M.Sc. (Vidyasagar Univ.), Ph. D. (IIT Kharagpur)	Inorganic Chemistry

### Thrust Areas of Research

Organometallic Chemistry, Coordination Chemistry, Computational Chemistry, Theoretical Reaction Kinetics, Synthetic Organic Chemistry, Heterocyclic Chemistry, Chemistry of Surfactants, Photocatalysis, Fluorescence Spectroscopy, Environmental Chemistry, Natural Product Chemistry.

### Brief Statement of Academic Activities and achievements

The Department offers M. Sc. degree under CBCS curriculum and Ph. D. programme. The academic and strong interdisciplinary research programmes of the Department is designed to enable the students to acquire a good understanding of Chemistry at the molecular level. In the year 2021-22, 45 M. Sc. and 9 Ph. D. students were admitted. Forty five students were awarded the M. Sc. Degree and 3 Research Scholars were awarded Ph. D. Degree.

### Students Profile

**Enrolment Capacity:** M. Sc. – 45; Ph. D. – Variable

**Enrolment of students from different States of India and Abroad:**

**M. Sc.**

	Gen	ST	SC	OBC	EWS	PWD	TOTAL
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STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	1	2	10	20					0	1			11	23
Assam			1						3	2			4	2
Manipur				2				2						4
Nagaland				1										1
Sub Total	1	2	11	23				2	3	3			15	30
Total	3		34		0		2		6		0		45	

#### Ph.D.

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya					1									
Assam	2	1	1	2					1	1				
Sub Total	2	1	1	2	1				1	1				
Total	3		3		1				2				9	

#### Degrees Awarded to students from different States of India and Abroad

#### M. Sc.

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	3	2	12	20									15	22
Assam					1				2	3			3	3
Manipur		1												1
Kerala		1												1
Sub Total	3	4	12	20	1				2	3			18	27
Total	7		32		1		0		5		0		45	

#### Ph.D. (The following table should be filled with relevant data)

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya			1											
West Bengal	1													
Andhra Pradesh							1							
Sub Total	1		1				1							
International														
Total	1		1				1						3	

#### Students awarded Ph. D. degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Mr. Maheshwara Rao Addepali	Synthesis, Structural Characterization and Biological Applications of Organotin (IV) Complexes Derived from Nitrogen, Oxygen and Sulfur Donor Ligands	Dr. T.S. Basu Baul
Mr. George Kupa Kharmawlong	Development of New Methodologies for the Synthesis of Heterocyclic Compounds	Dr. R. L. Nongkhaw
Mr. Sumit Kumar Patra	Development of Photoluminescent Organic Probes and Ruthenium(II) Complexes for Multianalyte Sensing and Bioimaging	Dr. S. Khatua

#### Placement of students

Name of the Student(s)	Name of the Programme	Post Held	Place of Work
Dr. Dipankar Sutradhar	Teaching	Asst. Professor	VIT, Bhopal

Dr. Sumit Kumar Patra	Research	Post Doc. Fellow	Chungnam National University (CNU), South Korea
Dr. John Elisa Kumar	Research	Post Doc. Fellow	ICT, Mumbai
Dr. Maheswara Rao Addepalli	Teaching	Guest faculty	JNTU, Vijayanagaram, Andhra Pradesh
Dr. Anurag Chaurasiya	Teaching	Guest faculty	Govt. P. G. College, Guna, Madhya Pradesh
Ms. Lini Sam	Sanyog Pharma	Trainee Chemist	Trivandrum, Kerala

#### Students selected for higher studies

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
Ms. Deepika Kalita	Ph. D.	IIT, Mumbai	India
Mr. Roopjyoti Mishra	Ph. D.	IIT, Guwahati	India
Ms. Upasana Deka	Ph. D.	Tezpur University	India

#### Research Fellowship

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others
6	29	0	1 (INSPIRE)	1	7 (NFST)

#### Fieldwork/Educational Tour of Students - No

#### Courses Conducted:

##### Postgraduate

##### Semester I

Inorganic Chemistry I, Organic Chemistry I, Physical Chemistry I, Laboratory Course in Organic Chemistry.

##### Semester II

Inorganic Chemistry II, Organic Chemistry II, Physical Chemistry II, Laboratory Course in Inorganic Chemistry. Topics in Organic Synthesis, Computer Programming in Chemistry, Organometallic Chemistry, Bioorganic Chemistry, Chemistry of Surfactants.

##### Semester III

Inorganic Chemistry III, Organic Chemistry III, Physical Chemistry III, Laboratory Course in Physical Chemistry, Environmental and Analytical Chemistry, Photochemistry, Bioinorganic Chemistry, Natural Products Chemistry, Principles and Applications of Fluorescence Spectroscopy.

##### Semester IV

Inorganic Chemistry IV, Organic Chemistry IV, Physical Chemistry IV, Seminar, Project Work in Inorganic/Organic/Physical Chemistry.

#### Ph. D. Course

Research Methodologies in Chemistry, Spectroscopic and Crystallographic Techniques in Chemistry, Advanced Inorganic Chemistry, Advanced Organic Chemistry, Advanced Physical Chemistry, Advanced Quantum Chemistry.

#### Seminar/Conference/Symposium/Extension Programme etc.

##### Organized:

##### Prof. M. Velusamy

Refresher Course in Chemistry 2021, UGC-HRDC, NEHU. 21 October-03 November 2021.

##### Attended

##### Prof. R.H.D. Lyngdoh

1. Presented Invited Talk titled "Metal-Metal (MM) Bond Lengths Related to MM Bond Orders in Binuclear 3d Metal Complexes: Experimental and Computational Results" at the 17<sup>th</sup> Theoretical Chemistry Symposium (TCS-2021) held online at IISER, Kolkata, from 11<sup>th</sup> to 14<sup>th</sup> December, 2021.
2. Attended the 28<sup>th</sup> National Symposium on Chemistry (CRSI-NSC 28) and the 15<sup>th</sup> CRSI-RSC Symposium held at Indian Institute of Technology, Guwahati, from 24<sup>th</sup> to 27<sup>th</sup> March, 2022.

##### Prof. A.K. Chandra

1. Delivered lecture on: Halogen Bonding: Strength, Nature and Diversity at TCS-2021, IISER-Kolkata 11-14 December 2021.
2. Delivered a keynote address on “Research & Publication Ethics” in the Webinar “The Journey of a Research Paper: Manuscript Writing, Submission and Publication” organized by Springer Nature and NEHU Library on 9<sup>th</sup> February 2022.
3. Delivered keynote lecture on: On some aspects of  $\sigma$ -hole and  $\pi$ -hole Bonds at NCMMS-2022, VIT-Bhopal 28 February – 02 March 2022.

#### **Prof. M. K. Sahoo**

Participated in the Virtual International conference on Surface Chemistry held on 11<sup>th</sup> and 12<sup>th</sup> February, 2022 at Annamalai University, Annamalai Nagar, Tamil Nadu

#### **Dr. A.K. Pal**

Application of nanoparticles in heterocycles synthesis, National webinar on basic understanding of science, Mathabhang College, Cooch Behar, 12.01.2022.

#### **Dr. B. Sarkar**

Seventeenth Theoretical Chemistry Symposium (TCS) 2021, IISER Kolkata, December 11-14, 2021, IISER Kolkata, Title of the talk: Gas-phase 1,3-cycloaddition of ozone with catechol: Criegee Intermediates, peroxy acids and seven membered oxepins.

Dr. S. Khatua

International Conference on Recent Trends in Chemical Sciences (RTCS-2021), by Indian chemical society, at IIT, Guwahati, December 22-23, 2021.

#### **Publications**

##### **(a) Published in India**

##### **(iii) Research Papers: Total Number 2**

1. Nongpiur, C.G.L., Tripathy, D.K., Poluri, K.M., Rawat, H., Kollipara, M.R. (2022). Ruthenium, rhodium and iridium complexes containing diazafluorene derivative ligands: Synthesis and biological studies. *J. Chem. Sci.*, 134: 23.
2. Pasupuleti, B. G., Gogoi, A., Bez, G. (2021). Selective aerobic oxidation of benzylic and allylic alcohols catalyzed by Cu(OAc)<sub>2</sub>/TEMPO/Et<sub>2</sub>NH. *Indian J. Chem.*, 60B: 589.

##### **(iv) Books: Nil**

##### **(v) Edited Books/Volumes: Nil**

##### **(vi) Book Chapters: Nil**

##### **(vii) Proceedings of Seminar/Conferences: Nil**

##### **(b) Published abroad**

##### **(i) Research Papers: Total Number 47**

1. Hujon, F., Lyngdoh, R.H.D., King, R.B. (2021). Lengths and bond orders in diiron lantern-type complexes with high spin ground states. *Eur. J. Inorg. Chem.*, 9: 848-860.
2. Salam, T., Lyngdoh, R.H.D. (2021). Clues to the non-carcinogenicity of certain N-nitroso compounds: Role of alkylated DNA bases. *Biophys. Chem.*, 271: 106539.
3. Langstieh, D.R., Lyngdoh, R.H.D., King, R.B., Schaefer III, H.F. (2021). Lantern-type divanadium complexes with bridging ligands: short metal-metal bonds with high multiple bond orders. *Chem. Phys. Chem.*, 22: 2014-2024.
4. Kharnaigor, K. S., Chandra, A.K., Lyngdoh, R.H.D. (2021). Generation, structures, relative energies and isomerization reactions of C<sub>5</sub>H<sub>5</sub><sup>+</sup> cations. *J. Mol. Model.*, 27: 1-14.
5. Kharnaigor, K.S., Lyngdoh, R.H.D. (2022). Minima on the (C<sub>6</sub>H<sub>6</sub>)<sup>+</sup> radical cation potential energy surface: A DFT exploration. *Comp. Theor. Chem.*, 1209: 113588.
6. Nongpiur, C.G.L., Diengdoh, D.F., Nagar, N., Poluri, K.M., Gannon, P.M., Kaminsky, W., Kollipara, M.R. (2022). Mono and dinuclear ruthenium, rhodium and iridium metal complexes containing N-acylhydrazone moiety: Synthesis and *in vitro* biological studies. *Polyhedron.*, 221: 115855.
7. Dkhar, L., Banothu, V., Kaminsky, W., Kollipara, M.R. (2022). Ruthenium, rhodium, and iridium complexes featuring coumarin hydrazone derivatives: Synthesis, characterization, and preliminary investigation of their anticancer and antibacterial activity. *Appl. Organomet. Chem.*, 36: e6589.
8. Nongpiur, C.G.L., Ghate, M.M., Tripathi, D.K., Poluri, K.M., Kaminsky, W., Kollipara, M.R. (2022). Study of versatile coordination modes, antibacterial and radical scavenging activities of arene ruthenium, rhodium and iridium complexes containing fluorenone based thiosemicarbazones. *J. Organomet. Chem.*, 957: 122148.
9. Nongpiur, C.G.L., Dkhar, L., Tripathi, D.K., Poluri, K.M., Kaminsky, W., Kollipara, M.R. (2021). Half-sandwich platinum group metal complexes containing coumarin-N-acylhydrazone hybrid ligands: Synthesis and biological evaluation studies. *Inorg. Chim. Acta*, 525: 120459.
10. Lapasam, A., Shadap, L., Tripathi, D.K., Poluri, K.M., Kaminsky, W., Kollipara, M.R. (2021). Arene ruthenium, rhodium and iridium complexes containing NNO chelating ligands: Synthesis, antibacterial and antioxidant studies. *J. Coord. Chem.*, 74: 2365-2379.
11. Cuc, N.T.T., An, N.T., Ngan, V.T., Chandra, A.K., Trung, N.T. (2022). Importance of water and intramolecular interaction governs substantial blue shift of Csp<sup>2</sup>-H stretching frequency in complexes

- between chalcogenoaldehydes and water. *RSC Adv.*, 12: 1998-2008.
12. Hynniewta, S., Lily, M., Chandra, A.K. (2021). Computational investigations on kinetics of reaction between t-butanol and OH radical and ozone formation potential. *J. Mol. Graph. Model.* 108: 108002.
13. Bhattarai, S., Sutradhar, D., Zeegers-Huyskens, T., Chandra, A.K. (2021). Nature and strength of the  $\pi$ -hole chalcogen bonded complexes between substituted pyridines and SO<sub>3</sub> molecule. *Chem. Select.* 6: 7514-7524.
14. Lily, M., Hynniewta, S., Muthaih, B., Wang, W., Chandra, A.K., Liu, F. (2021). Quantum chemical insights into the atmospheric reactions of CH<sub>2</sub>FCH<sub>2</sub>OH with OH radical, fate of CH<sub>2</sub>FC•HOH radical and ozone formation potential. *Atm. Env.*, 249: 118247.
15. Kharrngi, B., Basumatary, G., Bez, G. (2021). Iodine catalysed synthesis of unsymmetrical benzylic ethers by direct cross-coupling of alcohols. *Tetrahedron Lett.*, 81: 153370.
16. Dhar, E. D., Yadav, A.K., Basumatary, G., Bez, G. (2021). Anti-pinworm activity of novel coumarin-based trisubstituted methanes in Syphacia obvelata-infected mice. *Parasitol. Int.*, 85: 102425.
17. Khongsti, K., Pasupuleti, B.G., Das, B., Bez, G. (2021). 1,2,3-Triazole tethered 1,2,4-trioxane trimer induces apoptosis in cancer cells and inhibits their proliferation, migration and invasion. *Bioorg. Chem.*, 112: 104952.
18. Wagay, T. A., Shergujri, M.A., Askari, H. (2021). Mixed micellization behavior of benzyldimethylhexadecylammonium chloride with gemini surfactants and their applications in the synthesis of silver nanoparticles, *J. Dispers. Sci. Technol.*, 42: 813-823.
19. Wagay, T. A., Charangia, A., Suting, S., Askari, H. (2021). Aggregation and adsorption properties of benzyldimethylhexadecylammonium tetrachloromanganate(II) metallosurfactant in water-ethylene glycol medium, *J. Dispers. Sci. Technol.*, 42: 1843-1852.
20. Suting, S., Wagay, T.A., Charingia, A., Askari, H. (2021). Binary micellar schemes of cationic gemini and conventional surfactants: Chain length effect, *J. Dispers. Sci. Technol.* <https://doi.org/10.1080/01932691.2022.2056479>.
21. Linden, A., Basu Baul, T.S. (2021). Structural diversity among some dialkyltin(IV) benzoate and related derivatives. *Acta Crystallogr.*, C77: 209-220.
22. Basu Baul, T.S., Chaurasiya, A., Lyngdoh Nonglait, B., Lyčka, A., Schollmeyer, D., Jurkschat, K. (2021). Organotin(IV) derivatives containing heteroditopic pyridyl-quinolin-8-olate ligands: Synthesis and structures. *J. Organomet. Chem.*, 946-947, 121898.
23. Basu Baul, T.S., Chaurasiya, A., Vasquez-Ríos, M.G., Höpfl, H. (2022). Zinc(II) complexes constructed from an adamantane-functionalized pyridine Schiff base - Influence of the counterion on the supramolecular organization by means of C-H...O, C-H...N, C-H... $\pi$  and  $\pi$ ... $\pi$  interactions, *J. Mol. Str.*, 1247: 131241.
24. Singh, M., Rana, N.K. Muthu, M.S., Jha, A., Basu Baul, T.S., Koch, B. (2022). Enhanced *in vitro* therapeutic efficacy of triphenyltin(IV) loaded vitamin E TPGS against breast cancer therapy, *Mater. Today Commun.*, 31: 103256.
25. Basu Baul, T.S., Addepalli, M.R., Hlychho, B., Lyčka A., Vamadevan, P., Saurav, S., Manna, S.K., Guedes da Silva, M.F.C. (2022). O,N,S-tris-chelating ligand scaffolds flanked with cyclohexyl or adamantyl substituents anchored with diorganotin(IV) moieties: synthesis, structures and cytotoxicity, *Inorg. Chim. Acta.* 537: 120935.
26. Kumar, J. E., Mulai, T., Kharmawphlang, W., Sharan, R. N., Sahoo, M. K. (2021). The removal of binary mixture of dyes by heterogeneous Fenton oxidation: Kinetics, product identification and toxicity assessment. *Acta Chim. Slov.*, 68: 833-848.
27. Singh, I.R., Chettri, U., Maiti, P., Ghosh, A. K., Joshi, S. R., Mitra, S. (2022). Modulated antimicrobial activity and drug-protein interaction ability of zinc oxide and cadmium sulfide nanoparticles: Effect of doping with few first-row transition metals. *J. Cluster Sci.* <https://doi.org/10.1007/s10876-022-02257-y>
28. Phanrang, P.T., Baruah, P., Chandra, A. K., Mitra, S. (2022). Auxiliary therapeutic role of cholinergic agents: Mechanistic insights into the antioxidant behavior of AD drugs towards reversing DNA oxidative stress. *J. Phys. Chem. A.* 126: 546-556.
29. Baruah, P., Paul, D., Doshi, J., Mitra S., (2022). Elevated fibrinogen level reduces therapeutic efficiency of AD drugs: Biophysical insights on the interaction of FDA approved cholinesterase inhibitors with human fibrinogen. *J. Phys. Chem. B.* 126: 30- 43.
30. Rohman, M. A., Phanrang, P.T., Chamlagai, D., Mitra, S. (2021). Deciphering spectroscopic and structural insights into the photophysical behavior of 2, 2'-dipyridylamine: An efficient environment sensitive fluorescence probe. *J. Phys. Chem. A.* 125: 6964-6975.
31. Baruah, P., Phanrang, P.T., Konthoujam, I., Aguan, K., Mitra, S. (2021). Cholinergic drugs bind at minor groove and reverse induced oxidative stress of calf thymus DNA: A new perspective towards an unexplored therapeutic efficacy, *New J. Chem.*, 45: 13925-13933.
32. Muthuramalingam, S., Velusamy, M., Mayilmurugan, R. (2021). Fixation of atmospheric

CO<sub>2</sub> as C1-feedstock by nickel(II) complexes. *Dalton Trans.*, 50: 7984-7994.

33. Gopalakrishnan, D., Saravanan, S., Merckx, R., Madan Kumar, A., Khamrang, T., Velusamy, M., Vasanth, K., Sunitha, S., Hoogenboom, R., Maji, S., Ganeshpandian, M. (2021). *N,N*-Ru(II)-*p*-cymenepoly(*N*-vinylpyrrolidone) surface functionalized gold nanoparticles: From organoruthenium complex to nanomaterial for antiproliferative activity. *Dalton Trans.*, 50: 8232-8242.

34. Huang, W.-C., Liu, J.-C., Hsia, C.-W., Fong, T.-H., Hsia, C.-H., Tran, O.-T., Velusamy, M., Yang, C.-H., Sheu, J.R. (2021). Pterostilbene, a Dimethylether analogue of resveratrol, possesses high potency in the prevention of platelet activation in humans and the reduction of vascular thrombosis in mice. *J. Agric. Food Chem.*, 69: 4697-4707.

35. Dutta, A., Rohman, M. A., Nongrum, R., Thongni, A., Mitra, S., Nongkhaw, R.L. (2021). Visible-light-promoted synthesis of pyrrolidinone derivatives *via* rose bengal as a photoredox catalyst and their photophysical studies. *New J. Chem.*, 45: 8136-8148.

36. Goswami, M., Dutta, A., Paul, P., Nongkhaw, R.L. (2021). Recent developments on catalyst-free, visible-light-triggered synthesis of heterocyclic scaffolds and their mechanistic study. *Chem. Select.* 6: 9684-9700.

37. Dutta, A., Patra, S. K., Khatua, S., Nongkhaw, R.L. (2021). Visible-light-mediated synthesis of 3, 4, 5-trisubstituted furan-2-one derivatives via a bifunctional organo photocatalyst. *New J. Chem.*, 45: 19329-19337.

38. Lipon, T. M., Marpna, I. D., Wanniang, K., Shangpliang, O. R., Laloo, B. M., Nongkhaw, R.L., Myrboh, B. (2021). Selenium dioxide-mediated bromination of  $\alpha,\beta$ -unsaturated ketones using *n*-bromosuccinimide in the presence of *p*-toluenesulfonic acid: A versatile route for the synthesis of  $\alpha'$ -bromo-4-arylbut-3-en-2-one and  $\alpha',\alpha'$ -dibromo-4-arylbut-3-en-2-one, *ACS Omega*, 6: 27466-27477.

39. Thongni, A., Phanrang, P. T., Dutta, A., Nongkhaw, R.L. (2021). One-pot synthesis of 2-amino-3-cyano-4*H*-pyrans and pyran-annulated heterocycles using sodium citrate as an organo-salt

based catalyst in aqueous ethanol, *Synth. Commun.*, 52: 43-62.

40. Dutta, A., Goswami, M., Rabha, J., Das, S., Jha, D. K., Nongkhaw, R.L. (2022). Fe<sub>3</sub>O<sub>4</sub>@RB@LDH: Efficient and recyclable photocatalyst visible-light mediated synthesis of pyran and pyrrolidinone derivatives and their antimicrobial activities, *Chem. Select*, 7: 1-13.

41. Alam, S., Karim, R., Khan, A., Pal, A.K., Maruani, A. (2021). Copper-catalyzed preparation of alkenylboronates and arylboronates. *Eur. J. Org. Chem.* 2021: 6115-6160.

42. Sarkar, F.K., Gupta, A., Jamatia, R., Anald, J.M.H., Pal, A.K. (2021). A green and sustainable approach for the synthesis of 1,5-benzodiazepines and spirooxindoles in one-pot using a MIL-101(Cr) metal-organic framework as a reusable catalyst. *New J. Chem.*, 45: 19553-19564.

43. Gajurel, S., Dam, B., Bhushan, M., Singh, L.M., Pal, A.K. (2022). CuO-NiO bimetallic nanoparticles supported on graphitic carbon nitride with enhanced catalytic performance for the synthesis of 1,2,3-triazoles, bis-1,2,3-triazoles, and tetrazoles in parts per million level. *Appl. Organomet. Chem.*, 36: e6524.

44. Patra, S. K., Sen, B., Rabha, M., Khatua, S. (2022). An aggregation-induced emission-active bis-heteroleptic ruthenium(II) complex of thiophenyl substituted phenanthroline for the selective "turn-off" detection of picric acid. *New J. Chem.*, 46: 169-177.

45. Sen, B., Patra, S. K., Khatua, S. (2021). Ruthenium(II) polypyridine complex-based aggregation-induced emission luminogen for rapid and selective detection of phosgene in solution and in the gas phase. *Inorg. Chem.*, 60: 19175-19188.

46. Sen, B., Patra, S. K., Rabha, M., Sheet, S. K., Aguan, K., Samanta, D., Khatua, S. (2021). Luminescence detection of Ag<sup>+</sup> and phosphate ions by a ruthenium(II) complex-based multianalyte probe: A combined spectroscopic, crystallographic and theoretical approach. *Eur. J. Inorg. Chem.*, 2021: 3549-3560.

47. Sheet, S.K., Rabha, M., Sen, B., Patra, S. K., Aguan, K., Khatua, S. (2021). Ruthenium(II) complex-based G-quadruplex DNA selective luminescent 'light-up' probe for RNase H activity detection. *ChemBioChem.*, 22: 2880-2887.

(ii) **Books:** Nil

(iii) **Edited Books/Volumes:** Nil

(iv) **Book Chapters:** Nil

(v) **Proceedings of Seminar/Conferences:** Nil

(c) **Popular Articles (News Paper and Magazines):** Nil

**IPR Items:**

(a) **Patents:** Nil

(b) **Policy Reports:** Nil

(c) E-Content developed (MOOCs/SWAYAM): Nil

(d) Consultancy: Nil

**Funds Received during the current Year**

**(D) Bulk Grant to Department/Centre/Section etc. other than EMR grant**

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	23.95
02	UGC (SAP, CAS, Seminar etc.)	-
03	DST (FIST, PURSE, Seminar etc.)	-
04	NEC (program name)	-
05	Others	-

**(E) EMR Research Projects to individual faculty members:**

Title of Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of Investigator (PI/Co-PI)	Multi/Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Theoretical Studies on Understanding and Tuning of Some Non-Covalent Interactions	Ongoing	Dr. A.K. Chandra	Single (2020-2023)	DST-SERB New Delhi	INR 1.80 L
Molecular Mechanism of Designated Ferrocene Scaffold Appended with Organostannyl Benzoates for Anticancer Activity	Ongoing	Dr. T.S. Basu Baul (PI)/ Dr. S. K. Manna	Multi (2018-2020)	DBT- New Delhi	Nil
Study on anti-Alzheimer Activity of Coumarin Based Hybrid Drugs: Synthesis and Acetylcholinesterase Inhibition Assay	New	Prof. S. Mitra (PI)/ Prof. G. Bez & Prof. K. Aguan	Single (2022-2023)	ICMR, New Delhi	INR 9.28 L
Photophysical Studies on Polypyridyl Complexes: Towards the Development of Nanoscopic Fluorescent Targets	On-going	Prof. S. Mitra (PI)/ Prof. K. M. Rao	Single (2019-2022)	DST-SERB New Delhi	NIL
Assessment of Climate Change Impact on Soils and Various Water Basins of	Ongoing	Dr. Snehadrinayan Khatua (Co-PI)	Multi (2019-2022)	DST-SERB New Delhi	NIL



Meghalaya Using Existing and Newer Techniques.					
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## Academic Collaborations

### (i). National

#### Prof. K.M. Rao

1. Dr. V. Banothu, Centre for Biotechnology (CBT), Institute of Science & Technology (IST), Jawaharlal Nehru Technological University Hyderabad (JNTUH), Hyderabad (Biological studies)
2. Prof. K. M. Poluri, Department of Biosciences and Bioengineering, Indian Institute of Technology Roorkee, Roorkee (Biological studies)
3. Dr. A. Varma, Department of Zoology, Cotton University, Guwahati (Biological studies)

#### Prof. T.S. Basu Baul

1. Dr. B. Koch, Department of Zoology, Banaras Hindu University, Varanasi (Biological studies)
2. Dr. S. K. Manna, Centre for DNA Finger printing and Diagnostics, Hyderabad (Biological studies)

#### Prof. M.K. Sahoo

Dr. V. K. Tyagi, Shriram Institute for Industrial Research, New Delhi (development of green and sustainable bamboo based feminine hygiene product)

#### Prof. S. Mitra

1. Prof. A. K. Ghosh, Dept. of Physics, Banaras Hindu University, Varanasi (Development and characterization nanoparticles with superior biological activity)
2. Prof. S. R. Joshi, Dept. of Biotechnology & Bioinformatics, NEHU (Antimicrobial activity of nanoparticles)
3. Prof. K. Aguan, Dept. of Biotechnology & Bioinformatics, NEHU (Assessing active acetylcholinesterase inhibitors)

#### Prof. M. Velusamy

1. Dr. A. Kathiravan, Department of Chemistry, Vel Tech Rangarajan (Device fabrication and testing for solar cells and sensors)
2. Dr. Sagunthala, R & D Institute of Science and Technology Chennai (Device fabrication and testing for solar cells and sensors)

Dr. B. Sarkar

1. Prof. A. Das, Department of Chemistry, IISER, Pune (Theoretical research)
2. Dr. A. K. Paul, Department of Chemistry, NIT, Meghalaya, Shillong (Theoretical research)

#### Dr. A. K. Pal

1. Dr. L. R. Singh, Department of Nanotechnology, NEHU (Nanomaterials)

#### Dr. S. Khatua

1. Prof. K. Aguan, Department of Biotechnology and Bioinformatics, NEHU, Shillong (A Lab on a molecule for cation and anion sensing)
2. Dr. S. C. Manna, Dept. of Chemistry, Vidyasagar University, Midnapore (Crystallography)
3. Dr. P. N. Chatterjee, Dept. of Chemistry, NIT, Meghalaya, Shillong (Crystallography)
4. Prof. R. L. Nongkhlaw, Dept of Chemistry, NEHU, Shillong (Photocatalysis)

### (ii). International

#### Prof. K.M. Rao

Dr. W. Kaminsky, Department of Chemistry, University of Washington, Seattle, USA (Crystallography)

#### Prof. A.K. Chandra

Prof. N.T. Trung, Quantum Chemistry Group, Department of Chemistry, Quy Nhon University, Vietnam (Non-covalent interactions)

#### Prof. T.S. Basu Baul

1. Prof. U. Englert, Institute of Inorganic Chemistry, RWTH Aachen University, Germany (Crystallography)
2. Prof. A. Lyčka, Faculty of Science, University of Hradec Králové, Czech Republic (NMR)
3. Dr. A. Duthie, School of Life & Environmental Science, Deakin University, Australia (NMR)
4. Prof. H. Höpfl, Centro de Investigaciones Químicas, Universidad Autónoma del Estado de Morelos, Mexico (Crystallography)
5. Prof. M. Fátima C. Guedes da Silva, Centro de Química Estrutural, Universidade de Lisboa, Portugal (Crystallography and catalysis)
6. Prof. A. Linden, Department of Chemistry, University of Zurich, Switzerland (Crystallography)

7. Dr. D. Schollmeyer, Johannes Gutenberg-Universität Mainz, Institut für Organische Chemie, Germany (Crystallography)
8. Prof. K. Jurkschat, Technische Universität Dortmund, Fakultät für Chemie und Chemische Biologie, Germany (Crystallography)

**Prof. M. Velusamy**

Prof. Chih-Hsuan Hsia, Graduate Institute of Medical Sciences, College of Medicine, Taipei Medical University, Taipei, Taiwan (Biological studies)

**Dr. A. K. Pal**

Dr. R. A. Patil, and Dr. Yuan-Ron Ma, Department Physics National Dong Hwa University, Hualien, Taiwan (Nanomaterials)

**Honours/Awards/Recognition/Membership/Fellowship**

**Prof. H. Askari**

Life Member of (i) Chemical Research Society of India (ii) Indian Science Congress Association (iii) Indian Society for Training and Development (ISTD).

**Prof. T.S. Basu Baul**

Life Member of (i) National Academy of Sciences, India, (ii) Chemical Research Society of India (iii) Indian Society of the Analytical Scientists.

**Prof. M.K. Sahoo**

Life member of (i) Society of Environmental Chemistry and Allied Sciences (SECAS), (ii) Indian Society for Radiation and Photochemical Sciences (ISRAPS), (iii) Society for Chemical Education, Assam

**Prof. S. Mitra**

Member of (1) American Chemical Society; (2) Indian Society for Radiation and Photochemical Sciences; (3) Indian Association for the Cultivation of Science; (4) Fluorescence Society of India

**Other Activities**

**Prof. K.M. Rao**

Reviewer of (i) Journal of Chemical Science, (ii) Journal of Organometallic Chemistry, (iii) Polyhedron, (iv) New Journal of Chemistry, (v) Inorganica Chimica Acta, (vi) Journal of Coordination Chemistry, (vii) Dalton Transactions

**Prof. A.K. Chandra**

Delivered a lecture as resource person on “Some aspects of non-covalent bond” in the Refresher

Course in Chemistry at HRDC-UHC, NEHU on 3<sup>rd</sup> November 2021

**Prof. H. Askari**

1. Reviewer of the journals (i) Computational Biology and Chemistry and (ii) Indian journal of Chemistry.
2. Delivered an invited talk on ‘Improving Scientific Research Writing and Publication Skill’ at National Level Online Workshop on 16<sup>th</sup> of October, 2020 jointly organized by Research and Publication Cell (IQAC), SSC, Assam and Indian Council of Social Science Research (ICSSR) North-Eastern Regional Centre, Shillong.

**Prof. T.S. Basu Baul**

1. Reviewer of (i) Journal of Chemical Science, (ii) Journal of Organometallic Chemistry, (iii) Polyhedron, (iv) Main Group Metal Chemistry, (v) Inorganica Chimica Acta, (vi) Journal of Coordination Chemistry, (vii) Dalton Transactions, (viii) Journal of Molecular Structure.
2. Member of editorial board of the Journal “Main Group Metal Chemistry (DE GRUYTER)” Berlin, Germany.

**Prof. M.K. Sahoo**

Reviewer of (i) International Journal of Environmental Analytical Chemistry, (ii) Environmental Sciences Europe, (iii) Chemical Engineering Journal, (iv) Separation and Purification Technology, (v) Chemosphere, (vi) Desalination, (vii) Desalination and Water Treatment, (viii) Environmental Science Europe, (ix) Environmental Processes, (x) Ecological Engineering, (xi) Journal of Radiation Research

**Prof. S. Mitra**

1. Reviewer of (i) Journal of Physical Chemistry, (ii) Journal of Molecular Liquid, (iii) Journal Photochemistry and Photobiology A: Chemistry, (iv) New Journal of Chemistry, (v) Chemico-Biological Interactions
2. Delivered a popular talk at Ramkrishna Mission Higher Secondary School, Cherrapunjee titled “Raman and his Effect” on 03.03.2022 on National Science Day.
3. Delivered a lecture at HRDC, NEHU, Shillong titled “Application of different biophysical techniques in assessing the activity of neuro-degenerative enzymes: Some examples” on 02.11.2021 in Refresher Course in Chemistry (21 Oct – 03 Nov, 2021).

**Dr. D.P.S. Negi**

1. Reviewer of (i) Chemical Engineering Journal, (ii) Journal of Physics: Condensed

Matter and Methods and Applications in Fluorescence

2. Served as a Judge for the Inter-College Science Exhibition cum Presentation Competition organised by Sankardev College, Shillong on 26<sup>th</sup> March 2022.

3. Delivered an online Invited Lecture entitled “Semiconductor Photocatalysis and Applications” during the Refresher Course in Chemistry organised by UGC-HRDC, NEHU from 21<sup>st</sup> October 2021 to 3<sup>rd</sup> November 2021

#### Dr. B. Sarkar

Resource Person for Fourth FIP and 6th Faculty Induction Program at UGC-HRDC, NEHU.

#### Dr. A.K. Pal

Delivered lectures in refresher course “Materials Science and Nanotechnology” held on 01.10.2021.

#### Dr. S. Khatua

1. Reviewer of (i) Chemical Communications, (ii) Dalton Transactions, (iii) Crystal

Engineering Communications, (iv) Chemistry-An Asian Journal, (v) Inorganic Chemistry Frontiers, (vi) Nanoscale, (vii) Journal of Material Chemistry B/C, (viii) Photochemical and Photobiological Sciences, (ix) RSC Advance, (x) Analyst, (xi) Analytical Method, (xii) New Journal of Chemistry, (xiii) Dyes & Pigments, (xiv) Sensors & Actuator B: Chemical, (xv) ACS Applied Materials And Interfaces, (xvi) Inorganic Chemistry, (xvii) ACS Applied Bio Materials, (xviii) Analytical Chemistry

2. Delivered Invited lecture on “Luminescence tuning of d<sup>6</sup>-metal polypyridine complexes for sensing and bioimaging” on International Conference on Recent Trends in Chemical Sciences (RTCS-2021), by Indian chemical society, at IIT, Guwahati, December 22-23, 2021.

3. Invited lecture on “Development on metal complex-based materials for sensing toxic and bio-relevant species” at Refresher course on the theme “Materials Science and Nanotechnology”, NEHU, September 21, 2021.

### SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	Name		1	Prof. R. H. D. Lyngdoh	Prof. K. Mohan Rao	Prof. A. K. Chandra
	Date of Joining		2	11.07.1988	16 .09.1997	31.07.2003
	Field of specialisation		3	Organic Chemistry	Inorganic Chemistry	Physical Chemistry
(A) Teaching Experience (in Years)	UG		4	Nil	Nil	2
	PG, including PhD		5	34	24	20
(B) Research activities	Basic Research		6	Yes	Yes	Yes
	Applied Research		7	No	Yes	No
	Action Research		8	No	No	No
	Project Submitted		9	No	No	No
	Ongoing Project		10	No	No	01
	Research Paper in UGC care list journals	Group I	11	No	01	No
		Group II	12	05	05	04
	Books /Books chapters Published	Books	13	No	No	No
		Book Chapters	14	No	No	No
	Popular Articles (News Paper/ Magazines)		15	No	No	No
	Seminar / Conference/ Symposia organized	National	16	No	No	No
		International	17	No	No	No
	Seminar / Conference/ Symposia attended	National	18	02	No	03
		International	19	No	No	No
	Conference Proceedings		20	No	No	No
	Consultancy		21	No	No	No
(C) Patent	Applied		22	No	No	No
	Published		23	No	No	No
	Granted		24	No	No	No
(D)	MOOC/SWAYAM/ E-		25	No	No	No

E-Content	content developed					
(E) Any Other	Teaching /Extension /outreach activities		26	No	No	No
	Responsibilities other than teaching		27	No	Yes	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	No	No
	Collaborations	National	29	No	03	No
		International	30	02	01	01

Details of Faculties	Name		1	<b>Prof. G. Bez</b>	<b>Prof. H. Askari</b>	<b>Prof. T. S. Basu Baul</b>
	Date of Joining		2	11.8.2006	25.07.1985	22.06.1984
	Field of specialisation		3	Organic Chemistry	Physical Chemistry	Inorganic Chemistry
(A) Teaching Experience (in Years)	UG		4	Nil	19	Nil
	PG, including PhD		5	23	18	27
(B) Research activities	Basic Research		6	Yes	Yes	Yes
	Applied Research		7	Yes	No	Yes
	Action Research		8	No	No	No
	Project Submitted		9	01	No	No
	Ongoing Project		10	No	No	01
	Research Paper in UGC care list journals	Group I	11	01	No	No
		Group II	12	03	03	05
	Books /Books chapters Published	Books	13	No	No	No
		Book Chapters	14	No	No	No
	Popular Articles (News Paper/ Magazines)		15	No	No	No
	Seminar / Conference/ Symposia organized	National	16	No	No	No
		International	17	No	No	No
	Seminar / Conference/ Symposia attended	National	18	No	No	No
		International	19	No	No	No
(C) Patent	Conference Proceedings		20	No	No	No
	Consultancy		21	No	No	No
	Applied		22	No	No	No
(D) E-Content	Published		23	No	No	No
	Granted		24	No	No	No
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	No	No	No
(E) Any Other	Teaching /Extension /outreach activities		26	No	No	No
	Responsibilities other than teaching		27	Yes	Yes	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	No	No
	Collaborations	National	29	No	No	2
		International	30	No	No	8

Details of Faculties	Name		1	Prof. Mihir Kumar Sahoo	Prof. Sivaprasad Mitra	Prof. Marappan Velusamy
	Date of Joining		2	02.02.1996	03.08.2003	27.5.2013

	Field of specialisation		3	Organic Environmental Chemistry	Physical Chemistry	Inorganic
(A) Teaching Experience (in Years)	UG		4	08	Nil	Nil
	PG, including PhD		5	18	19	09
(B) Research activities	Basic Research		6	Yes	Yes	Yes
	Applied Research		7	Yes	No	Yes
	Action Research		8	No	No	No
	Project Submitted		9	No	No	No
	Ongoing Project		10	No	02	No
	Research Paper in UGC care list journals	Group I	11	No	No	No
		Group II	12	01	05	03
	Books /Books chapters Published	Books	13	No	No	No
		Book Chapters	14	No	No	No
	Popular Articles (News Paper/ Magazines)		15	No	No	No
	Seminar / Conference/ Symposia organized	National	16	No	No	No
		International	17	No	No	No
	Seminar / Conference/ Symposia attended	National	18	01	No	No
		International	19	No	No	No
	Conference Proceedings		20	No	No	No
	Consultancy		21	No	No	No
(C) Patent	Applied		22	No	No	No
	Published		23	No	No	No
	Granted		24	No	No	No
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	No	No	No
(E) Any Other	Teaching /Extension /outreach activities		26	No	01	No
	Responsibilities other than teaching		27	Yes	Yes	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	No	No
	Collaborations	National	29	01	03	02
		International	30	No	No	01

Details of Faculties	Name		1	Prof. R. L. Nongkhlaw	Dr. D. P.S. Negi	Dr. Biplab Sarkar
	Date of Joining		2	13.05.2003	11.6.2003	10.01.2007
	Field of specialisation		3	Organic Synthesis	Physical Chemistry	Physical Chemistry
(A) Teaching Experience (in Years)	UG		4	Nil	Nil	Nil
	PG, including PhD		5	19	19	16
	Basic Research		6	Yes	Yes	Yes
	Applied Research		7	Yes	Yes	No
	Action Research		8	No	No	No
	Project Submitted		9	01	No	01
	Ongoing Project		10	No	No	No

(B) Research activities	Research Paper in UGC care list journals	Group I	11	No	No	No
		Group II	12	06	No	No
	Books /Books chapters Published	Books	13	No	No	No
		Book Chapters	14	No	No	No
	Popular Articles (News Paper/ Magazines)		15	No	No	No
	Seminar / Conference/ Symposia organized	National	16	No	No	No
		International	17	No	No	No
	Seminar / Conference/ Symposia attended	National	18	No	No	No
		International	19	No	No	01
	Conference Proceedings		20	No	No	No
(C) Patent	Consultancy		21	No	No	No
	Applied		22	No	No	No
	Published		23	No	No	No
	Granted		24	No	No	No
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	No	No	No
(E) Any Other	Teaching /Extension /outreach activities		26	No	No	No
	Responsibilities other than teaching		27	Yes	Yes	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	No	No
	Collaborations	National	29	No	No	02
		International	30	No	No	No

Details of Faculties	Name		1	Dr. Amarta Kumar Pal	Dr. E. K. Rymmai	Dr. Snehadrinarayan Khatua
	Date of Joining		2	30.03.2009	14.05.2003	01.05.2013
	Field of specialisation		3	Organic Chemistry	Inorganic Chemistry	Inorganic Chemistry
(A) Teaching Experience (in Years)	UG		4	Nil	Nil	Nil
	PG, including PhD		5	13	19	9
(B) Research activities	Basic Research		6	Yes	Yes	Yes
	Applied Research		7	No	No	Yes
	Action Research		8	No	No	No
	Project Submitted		9	01	No	No
	Ongoing Project		10	No	No	01
	Research Paper in UGC care list journals	Group I	11	No	No	No
		Group II	12	03	No	05
	Books /Books chapters Published	Books	13	No	No	No
		Book Chapters	14	No	No	No
	Popular Articles (News Paper/ Magazines)		15	No	No	No
	Seminar / Conference/ Symposia organized	National	16	No	No	No
		International	17	No	No	No
	Seminar / Conference/ Symposia attended	National	18	01	No	No
		International	19	No	No	01

	Conference Proceedings		20	No	No	No
	Consultancy		21	No	No	No
(C) Patent	Applied		22	No	No	No
	Published		23	No	No	No
	Granted		24	No	No	No
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	No	No	No
(E) Any Other	Teaching /Extension /outreach activities		26	No	No	No
	Responsibilities other than teaching		27	Yes	Yes	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	No	No
	Collaborations	National	29	02	No	04
		International	30	01	No	No

## DEPARTMENT OF PHYSICS

**Head** : PROF. M.C. MAHATO

**Telephone** : 272-2801/2833

**E-mail** :

### Faculty Profile:

Designation	Name and Qualification	Specialization
<b>Professor</b>	Dr.B.M.Jyrwa*, M.Sc. & Ph.D.(NEHU)	Nuclear Physics ( Theoretical)
	Dr. Atul Saxena, M. Phil. (IAS, Meerut), Ph.D.(NEHU)	Nuclear Physics, Condensed Matter Physics and Atmospheric Physics
	Dr. M.C. Mahato, M.Sc.(Ranchi), Ph.D. (I. I. Sc. Bangalore)	Statistical Physics, Fluid dynamics (Experimental)
	Dr. P.K. Patra, M.Sc. (Sambalpur University) Ph.D. (NEHU)	Nanoscience, High Energy Physics (Theory)
	Dr.S.S. Khatri, M.Sc. & Ph.D. (NEHU)	Laser Raman and IR Spectroscopy
<b>Associate Professor</b>	Dr.A.K. Biswas, M.Sc. (IIT, Kharagpur), Ph.D. (IOP, Bhubaneshwar)	High Energy Physics (Theory)
<b>Assistant Professor</b>	Dr.S.S.Pohlong,M.Sc. & Ph.D.(NEHU)	Solid State Physics (Theory)

\* Prof. B.M. Jyrwa upto 31<sup>st</sup> January, 2022.

### Thrust Areas of Research:

Theoretical Nuclear Physics: Calculation of covariance matrix of nuclear data used in nuclear reactors. Experimental Nuclear Physics: Measurement of high energy photon and neutron nuclear reaction cross-sections in structural materials, study of pre-equilibrium processes, EXFOR Compilations, characterization of radiation detectors and measurement of environmental radioactivity (hazard indices) with particular emphasis on radon measurement, and measurement of trace elements in soil samples. Solid State Physics/ Condensed Matter Physics: Study of Stochastic resonance (theory and experiment), ratchet effect, nonlinear dynamics, instability of liquid jets (experiment), density-functional study of alloys and other materials. High Energy Physics (Theory). Laser Physics (Experiment): Spectroscopic study of organic liquid mixtures. Nanoscience: Mechanical, electronic and optical properties of Carbon Nanotubes (CNTs) and its nano composites. Nuclear Physics both experimental and theory, as well as applications in analysing clay and rock samples found in the Sung Valley of Jaintia Hills, Meghalaya.

### Brief Statement of Academic Activities and achievements:

The main academic activity of the Department is the teaching M.Sc. (Physics) courses. The Department also conducts mandatory Ph.D. course work. In addition to teaching M.Sc. and Ph.D. courses, members of the Faculty have been engaged in guiding research for Ph.D. scholars and in carrying out their own research works. Faculty members visited various institutions to carry out their research collaborations and delivered talks on their research contributions.

### Students' Profile

**Enrolment Capacity: M.A./M.Sc./M.Tech./Any other: 41**

**Enrolment of students from different States of India and Abroad**



	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	01	02	-	-	-	-	-	-	-	-	-	-	02	01
Meghalaya	01	02	17	14	-	-	-	-	-	-	-	-	18	16
Bihar	-	01	-	-	-	-	-	-	-	-	-	-	-	01
Manipur	-	01	-	-	01	-	-	-	-	-	-	-	01	01
Tripura	-	01	-	-	-	-	-	-	-	-	-	-	-	01
Mizoram	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arunachal Pradesh	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sub Total													21	20
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total													41	

#### Ph.D.: 02

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	01	-	-	-	-	-	-	-	-	-	-	-	01	-
Arunachal Pradesh	-	-	01	-	-	-	-	-	-	-	-	-	01	-
Sub Total													02	-
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total													02	

#### Degrees Awarded

**Degree: M.Sc. - 36**

**Degrees Awarded to students from different States of India and Abroad**

**M.Sc. Programme:**

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	01	03	11	08	-	-	-	-	-	01	-	-	12	12
Assam	04	01	-	-	-	-	01	-	02	01	-	-	07	02
Bihar	-	-	-	-	01	-	-	-	-	-	-	-	01	-
Nagaland	-	-	01	-	-	-	-	-	-	-	-	-	01	-
Mizoram	-	-	-	01	-	-	-	-	-	-	-	-	-	01
Sub Total													21	15
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total													36	

#### Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s) /Jt sprvr
Mr. Aibanjop Pyngrope	"Investigation on Radiation Exposure Due to Radon Isotopes and Their Progeny"	Prof. A. Saxena
Mr. Wellstandfree K. Bani	"Study of instability of liquid jets under gravity"	Prof. M.C. Mahato
Mr. Ivan Skhem Sawkmie	"Study of Stochastic Resonance in Sinusoidal potentials by Analog simulation experiment"	Prof. M.C. Mahato
Mr. Bobbyland Lyngkhoi	"Natural Radioactivity Measurement and Radiological impact in building materials of East Khasi Hills District of Meghalaya"	Prof. P. Nongkynrih (Supervisor) Prof. A. Saxena (Jt. Supervisor)
Mr. Batngen Rap Kur Lang Lyngdoh Mawphlang	"Analytical Study of Mechanical Properties of Carbon Nanotubes"	Prof. P.K. Patra

#### Research Fellowship:

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship(SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others
02	05	-	-	-	02(INSPIRE)

## Courses Conducted:

### Postgraduate

**Semester I:** Classical Mechanics, Quantum Mechanics I, Mathematical Physics, Laboratory – I.

**Semester II:** Electrodynamics, Electronics, Quantum Mechanics II, Laboratory II.

**Semester III:** Nuclear Physics I, Solid State Physics I, Atomic and Molecular Physics, Laboratory III, Environmental Physics.

**Semester IV:** Thermal Physics, Computational Techniques and Numerical Methods, Computational Techniques-Laboratory, Optional Papers on Solid State Physics II, High Energy Physics, Laser Physics and Nuclear Physics II.

**PhD Courses:** Statistical & Numerical Methods in Physics, Experimental Techniques and Their Applications, Advanced Statistical Mechanics.

### Publications :

#### Published in India:

- 1) Bani, W.K., Mahato, M.C. (2022). Intermediate length scale of water jets under gravity: An experimental result. *Pramana – J. Phys.* 96:68.
- 2) Adhikari, Smriti and Khatri, S.S. (2021). Solvent-dependent Raman study of ethyl acetate and N, N-dimethyl formamide in methanol and carbon tetrachloride, *Pramana – J. Phys.* 95: 133.
- 3) Adhikari, Smriti and Khatri, S.S. (2021). Concentration dependence study of non-coincidence effect (NCE) on C=O stretching and NH<sub>2</sub> bending modes of formamide in acetonitrile: A comparative study, *Vibrational Spectroscopy*, 166: 103298.
- 4) Kalita, R., Shadap, M.D., and Saxena, A. (2022). Trend Analysis and Change Point Detection of Diurnal Temperature Range in Shillong City, *Transient IX*: 80-89 (ISSN: 2250-0650)
- 5) Kalita, D., Saxena, A. (2022). Study of Structural, Electronic and Thermodynamic properties of Half-Heusler alloy RhTiSb, *Transient IX*: 47-53 (ISSN: 2250-0650)

#### Proceedings of Seminar/Conferences:

- 1) Bani, W.K., Bani, S.K., Mahato, M.C. (2021). Effect of gravity on the vertically glowing down water jets. In *Proceedings of the DAR Solid State Symposium*. DAE SSPS Vol. 55, 336-337.
- 2) Kalita, D., Limbu, N., Ram, M., Kalita, R., Saxena, A. (2021). Structural and Electronics properties of the RhFeSi compound under different Approaches. *Proceedings of the 65<sup>th</sup> DAE Solid State Physics Symposium* 55, 587-588, ISBN: 81-8372-085-4.
- 3) Limbu, N., Shankar, A. and Saxena, A. (2021). Electronic and thermoelectric properties of p type CeFe<sub>4</sub>Sb<sub>12</sub>. *Proceedings of the 65<sup>th</sup> DAE Solid State Physics Symposium* 55, 587-588, ISBN: 81-8372-085-4.
- 4) Kalita, R., Saxena, A. (2022). Downscaling of Future Rainfall from CANESM2 Projections in Cherrapunji. *Conference: International Symposium on Tropical Meteorology (INTROMET -2021) on Changing Climate: Consequences and Challenges (C4-21)*.

#### Published Abroad:

##### (iii) Research Papers:

- 1) Kalita, D., Ram, M., Limbu, N., Kalita, R., Saxena, A. (2022). Prediction of some physical properties in new half Heusler alloy NbAgSi. *Journal of Solid State Chemistry*, 310, 122999: <https://doi.org/10.1016/j.jssc.2022.122999>.
- 2) Kalita, D., Ram, M., Limbu, N., Kalita, R., Saxena, A. (2021). Investigation of mechanical, thermodynamical, dynamical and electronic properties of

- RuYAs (Y=Cr and Fe) alloys. *Journal of Physics: Condensed Matter*, 34(8), 085501: <https://doi.org/10.1088/1361-648X/ac3b74>.
- 3) Kalita, D., Limbu, N., Ram, M., Kalita, R., Saxena, A. (2021). Study of lattice dynamic, electronic and mechanical properties of Half-Heusler RuCrP alloy. *Materials Today Communications*, 29, 102799: <https://doi.org/10.1016/j.mtcomm.2021.102799>.
  - 4) Limbu, N., Ram, M., Joshi, H., Saxena, A., Shankar, A. (2022). Electronic and thermoelectric properties of Nd-doped Ce-filled skutterudites, *Physical Chemistry Chemical Physics*, 24(7), 4533-4546: <https://doi.org/10.1039/D1CP04504K>.
  - 5) Pyngrope, A., Saxena, A., Khardewsaw, A., Sharma, Y., Sahoo, B.K. (2022). Effect of soil's porosity and moisture content on radon and thoron exhalation rates. *Journal of Radioanalytical and Nuclear Chemistry*, 331(4), 1975-1984: <https://doi.org/10.1007/s109676-021-08168-y>.
  - 6) Siangshai, D.M., Walia, D., Saxena, A., Lyngdoh, A.C. (2021). Assessing the Seismicity of Shillong Plateau Using 'b value'. *Int J Earth Sci Geophys* 7:051:10.35840/2631-5033/1851.
  - 7) Rai, D. P., Singh, Y. T., Chettri, B., Houmad, M., Patra, P. K. (2021). A theoretical investigation of electronic and optical properties of (6,1) single-wall carbon nanotube (SWCNT). *Carbon Lett.* 31, 441–448. DOI: 10.1007/s42823-020-00172-8.
  - 8) Chettri, B., Patra, P. K., Srivastava, S., Laref, A., Rai, D. P. (2021). Enhanced H<sub>2</sub> Storage Capacity of Bilayer Hexagonal Boron Nitride (h-BN) Incorporating van der Waals Interaction under an Applied External Electric Field. *ACS omega* 6 (34), 22374-22382. DOI: 10.1021/acsomega.1c03154.
  - 9) Chettri, B., Patra, P.K., Hieu, N. N., Rai, D.P. (2021). Hexagonal boron nitride (h-BN) nanosheet as a potential hydrogen adsorption material: A density functional theory (DFT) study, *Surfaces and Interfaces* 24, 101043. DOI: 10.1016/j.surfin.2021.101043.
  - 10) Chettri, B., Patra, P. K., Lalmuanchhana, Lalhriatzuala, Verma, S., Rao, B. K., Verma, M. L., Thakur, V., Kumar, N., Hieu, N. N., Rai, D. P. (2021). Induced magnetic states upon electron-hole injection at B and N sites of hexagonal boron nitride bilayer: A density functional theory study. *International Journal of Quantum Chemistry*, *Int J Quantum Chem.*; 121: e26680. DOI: 10.1002/qua.26680.
  - 11) Senapati, S., Shah, A., Patra, P. K., Mahato, M. (2022). Measurement of elastic modulus of CNT composites: a nondestructive study, *Fullerenes, Nanotubes and Carbon Nanostructures*, 30:2, 290-296. DOI: 10.1080/1536383X.2021.1936506.
  - 12) Singh, Y. T., Patra, P. K., Obodo, K. O., Rai, D. P. (2022). Electronic and mechanical properties of (6,1) single-walled carbon nanotubes with different tube diameters: a theoretical study. *Carbon Lett.* 32, 451–460. DOI: 10.1007/s42823-021-00274-x.

#### **Proceedings of Seminar/Conferences:**

- 1) Kalita, D., Kalita, R., Sharma, Y. And Saxena, A. (2021)). An experimental study of 93Nb ion ranges in Makrofol-E detector. In *AIP Conference Proceedings* (Vol. 2352, No. 1, p. 050005). AIP Publishing LLC: <https://doi.org/10.1063/5.0052578>.

#### **Funds Received during the current Year: 2021-2022**

**(F) Bulk Grant to Department/Centre/Section etc. other than EMR grant**

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	16,51,830/-
02	UGC (SAP, CAS, Seminar etc.)	NIL
03	DST (FIST, PURSE, Seminar etc.)	NIL
04	NEC (program name)	NIL
05	Others	NIL

#### Academic Collaborations:

##### (i). National:

##### Prof. A. Saxena collaborated with

- (a) Prof. Devesh Walia, Department of Geology, NEHU on  
“MicroEarthquake and Magnetotelluric technique”.
- (b) Dr. B.K. Sahoo, Scientific Officer (E), Radiological Physics Division BARC, Mumbai on  
“Radon and Thoron Studies”

Prof. P. K. Patra collaborated with Dr. D. P. Rai, Physics Department,  
Pachhunga University College, Aizawl, Mizoram for DST Bilateral Project

##### (ii). International:

Prof. P. K. Patra collaborated with Prof. Oksana Ismailova, Uzbekistan-Japan  
Innovation Centre of Youth, Tashkent, Uzbekistan (DST Bilateral Project with  
Uzbekistan entitled “Synthesize and Characterization of the Emerging Multi-  
functional Properties of Sulvanite Compounds from Theory and Experiment”).

##### Other Activities:

Prof. M.C. Mahato:

Reviewer: Phys.Rev.E.

Prof. P.K. Patra: Delivered lectures on “Recent Advances in Nanophysics” at  
Refresher Course in Physics organized by UGC-HRDC,  
Sambalpur University, Jyotivihar, Odisha during September 22-  
23, 2021.

#### SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	Name		1	Prof. A. Saxena	Prof. M.C. Mahato	Prof. P.K. Patra
	Date of Joining		2	27/7/1989	06/2/2003	19/10/1985
	Field of specialisation		3	Nuclear Physics, Condensed Matter Physics and Atmospheric Physics	Statistical Physics, Fluid Dynamics (Expt)	Nano- science, High Energy Physics (Theory)
(A) Teaching Experience (in Years)	UG		4	15 years & 6 months		29 years
	PG, including PhD		5	32 years + 16 years	25 years	8 years
(B) Research activities	Basic Research		6	Yes	Yes	36
	Applied Research		7	Yes	No	No
	Action Research		8	-	No	No
	Project Submitted		9	2	0	2
	Ongoing Project		10	1	0	1
	Research Paper in UGC care list journals	Group I	11	-	0	4
		Group II	12	5	0	45
	Books /Books chapters Published	Books	13	-	0	1
		Book Chaptr	14	2	0	2
	Popular Articles (News Paper/ Magazines)		15	-	0	No
	Seminar / Conference/ Symposia organized	National	16	-	0	No
		International	17	-	0	No
	Seminar / Conference/ Symposia attended	National	18	-	0	20
		International	19	-	0	3

	Conference Proceedings		20	4	0	4
	Consultancy		21	-	0	No
(C) Patent	Applied		22	-	0	No
	Published		23	-	0	No
(D) E-Content	Granted		24	-	0	No
	MOOC/SWAYAM/ E-content developed		25	-	0	No
(E) Any Other	Teaching /Extension /outreach activities		26	-	0	Yes
	Responsibilities other than teaching		27	-	HoD	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	-	No	Yes
	Collaborations	National	29	2	No	Yes
		International	30	-	No	Yes

Details of Faculties	Name		1	<b>Prof. S.S. Khatri</b>	<b>Dr. A.K. Biswas</b>	<b>Dr. S.S. Pohlong</b>
	Date of Joining		2	15/12/2005	20/5/2009	8/1/2003
	Field of specialisation		3	Ir Laser Raman Spectroscopy	High Energy Physics (Theory)	Solid State Physics
(A) Teaching Experience (in Years)	UG		4	15 years	-	10 years
	PG, including PhD		5	16 years 8 months	13 years	19 years
(B) Research activities	Basic Research		6	-	-	-
	Applied Research		7	-	-	-
	Action Research		8	-	-	-
	Project Submitted		9	-	-	-
	Ongoing Project		10	-	-	-
	Research Paper in UGC care list journals	Group I	11	2	-	-
		Group II	12	-	-	-
	Books /Books chapters Published	Books	13	-	-	-
		Book Chapters	14	-	-	-
	Popular Articles (News Paper/ Magazines)		15	-	-	-
	Seminar / Conference/ Symposia organized	National	16	-	-	-
		International	17	-	-	-
	Seminar / Conference/ Symposia attended	National	18	-	-	-
		International	19	-	-	-
	Conference Proceedings		20	-	-	-
	Consultancy		21	-	-	-
(C) Patent	Applied		22	-	-	-
	Published		23	-	-	-
	Granted		24	-	-	-
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	-	-	-
(E) Any Other	Teaching /Extension /outreach activities		26	-	-	-
	Responsibilities other than teaching		27	-	-	-
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28			
	Collaborations	National	29			
		International	30			

## DEPARTMENT OF MATHEMATICS

**Head** : Dr. A. M. Buhphang  
**Telephone** : 0364-2722720  
**E-mail** : hodmath@nehu.ac.in

### Faculty Profile:

Designation	Name and Qualification	Specialization
Associate Professor	Dr. A.M. Buhphang, Ph.D. (NEHU)	Ring Theory
	Dr. S.Dutta, PhD (NEHU)	Rings of Continuous Functions
	Dr. A.T.Singh, PhD(NEHU)	Algebraic and Differential Topology
	Dr. John Paul Jala Kharbhih, PhD(NEHU)	Rings of Continuous Functions
	Dr. Ph. Chinglensana, MSc (Delhi)	Algebraic Topology

### Thrust Areas of Research

Thrust areas of research in alphabetical order are Algebra, Algebraic and Differential Topology, Graph Theory, Rings of continuous functions.

**Brief Statement of Academic Activities and achievements:** During the year 2021-22, the department conducted courses on Algebra, Analysis, Commutative Algebra, Computer Programming, Differential Equations, Discrete Mathematics, Field Theory, Graph Theory, Linear Algebra, Mechanics, Number Theory, Ring Theory and Topology. The Department conducted regular seminar and colloquia on the topics in the thrust areas of research.

### Students' Profile

**Enrolment Capacity:** M.Sc. - 45. Ph.D. - Variable

**Enrolment of students from different States of India and Abroad**

#### M.Sc.

STATE(Name)	Gen		ST		EWS		PWD		TOTAL	
	M	F	M	F	M	F	M	F	M	F
Meghalaya		1	19	18					19	19
Assam				1	3	1			3	2
Arunachal Pradesh							1		1	0
Sub Total		1	19	19	3	1	1		23	21
Total	1		38		4		1		44	

#### PhD – Variable

STATE(Name)	M
Assam	2
West Bengal	1
Total	3

### Degrees Awarded to students from different States of India and Abroad

#### M.Sc.

STATE(Name)	Gen		ST		EWS		TOTAL	
	M	F	M	F	M	F	M	F
Meghalaya	1	2	17	11	1	0	19	13
Assam	2	1	0	0	1	0	3	1
Manipur	1	0	0	0	0	0	1	0
Mizoram	0	0	0	1	0	0	0	1
Sub Total	4	3	17	12	2	0	23	15
Total	7		29		2		38	

### Placement of Students

Name of the Student(s)	Name of the Programme	Post Held	Place of Work
Pravesh Sharma	Faculty	Asst. Professor	Nar Bahadur Bhandari Govt. College, Gangtok.
Rojit Singh	Faculty	Asst. Professor	North-East Seventh Day Adventist University, Khliehtyrshi.

#### Students selected for Higher Studies:

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
Soumitra Das	Post Doctoral in Mathematics	IISER, Berhampur	India

#### Research Fellowship

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others
4	6	1	0	0	0

#### Courses Conducted:

##### Postgraduate

Semester I: Analysis I; AMES; Linear Algebra; ODE; Classical Mechanics.

Semester II: Elementary Graph Theory; Algebra; Topology; PDE; Analysis II.

Semester III: CFT; Theory of Field Extensions; ENT; Programming in C and Applications; Computer programming practical.

Semester-IV: Numerical Analysis; Computer Oriented Numerical Analysis; Ring Theory; Discrete Mathematics; Functional Analysis.

**MPhil/PhD Courses:** Research Methodology in Mathematics

**Optional Courses:** Rings of Continuous Functions; Commutative Algebra; Advanced Ring Theory; Topological Graph Theory; Advanced Topics in Discrete Mathematics.

**Seminar/Conference/Symposium/Extension Programme etc.**

##### Attended:

1) Dr. A. M. Buhphang delivered an invited lecture "On Endomorphism algebras" during an "Enrichment Lecture Series" organised by the Department of Mathematics, USTM on 22<sup>nd</sup> November, 2021.

2) Dr. J.P.J. Kharbhih participated and presented a paper entitled "A variant of prime ideals in ring of continuous functions", at the International conference "Emerging trends in Pure and Applied Mathematics" held on March 12-13,

3) 2022 in blended mode, organized by Department of Applied Sciences, School of Engineering in association with Department of

Mathematical Sciences, School of Sciences, Tezpur University.

4) Mr. Ph. Chinglensana presented a paper on "Bounds of some energy-like invariants of neighbourhood corona of graphs" in the 8th *International Conference on Mathematics and Computing (ICMC 2022)* organized by VIT, Vellore from January 06 - 08, 2022.

5) Mr. Ph. Chinglensana presented a paper on "A note on general sum-connectivity index" in the *National Conference on Emerging Trends in Discrete Mathematics (NCETDM-2022)* organized by Department of Mathematics, Hemchandracharya North Gujarat University, Patan in association with ATMIYA University, Rajkot in virtual mode during February 17-19, 2022.

6) Mr. Ph. Chinglensana presented a paper on "Some new bounds for general sum-connectivity index of graphs" in the *International Conference on Mathematical modelling, applied analysis and computational intelligence (ICMMAACI-2022)*, 2-4<sup>th</sup> March 2022, organised by Mathematics department, Gandhigram Rural Institute, Gandhigram, Tamil Nadu.

7) Mr. Ph. Chinglensana presented a paper on "On Sombor index of graphs" in the *National webinar on recent trends in mathematics and its applications (RAMA-2022)*, 10-11<sup>th</sup> March 2022, entitled organised by the Department of Pure Mathematics, University of Calcutta, Kolkata.

8) Mr. Ph. Chinglensana presented a paper on "On general Sombor index of graphs" in the *International Conference on "Emerging trends in Pure and Applied Mathematics"*, March 12-13, 2022, in blended mode, entitled, organized by Department of Applied Sciences, School of Engineering in association with Department of Mathematical Sciences, School of Sciences, Tezpur University, Assam.

#### Publications

**Published Abroad:****(iv) Research Papers.**

48. Das, S., Buhphang, A.M. (2021). On principally small- injective rings, *Rendiconti del Circolo Matematico di Palermo Series 2*, <https://doi.org/10.1007/s12215-021-00663-1>

49. Phanjoubam C., S. M. Mawiong (2021). On Sombor index and some topological indices, *Iranian Journal of Mathematical Chemistry*, 12 (4): 209-215.

1. Dr. A.M. Buhphang acted as a Teaching Assistant in SWAYAM NPTEL, Online Certification course ‘An Introduction to Point-Set Topology Part-1 during January to April, 2022, collaboration with IIT Bombay.

2. Dr. A.T. Singh acted as a Teaching Assistant in SWAYAM NPTEL, Online Certification course ‘An Introduction to Point-Set Topology Part-1 during January to April, 2022, collaboration with IIT Bombay.

**(c)E-Content developed (MOOCs/SWAYAM):****Funds Received during the current Year****(G) Bulk Grant to Department/Centre/Section etc. other than EMR grant**

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	1.4 lakhs

**Academic Collaborations****National:**

Sl. No.	Name of the faculty	Name of the collaborator and Institute	Name of the project
1	Dr. A. Tiken Singh and Dr. A. M. Buhphang	Prof. A. R. Shastri, IIT Bombay	SWAYAM NPTEL Online Certification course ‘An Introduction to Point-Set Topology, Part-1’ during January to April, 22.
2	Dr. A. M. Buhphang	Dr. Tikaram Subedi, NIT, Meghalaya	Joint research on ‘Pointwise semi-commutative rings’.

**Honours/Awards/Recognition/Membership/Fellowship**

Dr. A.M.Buhphang is a member of the taskforce committee on the Meghalaya State Curriculum Framework, Directorate of Educational Research and Training, Laitumkhrah, Government of Meghalaya.

**Other Activities**

1. Dr. A.M. Buhphang gave an invited lecture on “*Ring Theory*” at Union Christian College, Umiam Khwan on 7<sup>th</sup> December, 2021.
2. Dr. S. Dutta delivered an invited lecture title “Graph Theory in Number Theory” in St Anthony’s College Shillong held on 22.12.2021 in the webinar “The Beauty of Mathematics and Application of Graph Theory”.
3. Dr. S. Dutta reviewed a paper title “Honey Badger Algorithm: New Metaheuristic Algorithm for Solving Optimization Problems” for the Elsevier journal “Mathematics and Computers in Simulation”.
4. Dr. J.P.J. Kharbhih delivered a special lecture on “Some Conjectures in Mathematics” organized by Department of Mathematics, Synod College on 28<sup>th</sup> September 2021.
5. Dr. J.P.J. Kharbhih delivered a lecture on “Rings of Continuous functions” in the Enrichment programme held on 7<sup>th</sup> Dec 2021, organized by Union Christian College, Umiam Khwan.

**SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022**

Details of Faculties	Name		1	Dr. Ardeline Mary Buhphang	Dr. Angom Tiken Singh	Dr. Sanghita Dutta
	Date of Joining		2	10.04.2002	14.05.2003	26.5.2003
	Field of specialisation		3	Ring Theory	Algebraic and Differential Topology	Rings of Continuous Functions, Graph Theory



(A) Teaching Experience (in Years)	UG		4			9 years
	PG, including PhD		5	20	19	19 years
(B) Research activities	Basic Research		6	Yes	Yes	Yes
	Applied Research		7	No	No	No
	Action Research		8	No	No	No
	Project Submitted		9	No	No	No
	Ongoing Project		10	No	No	No
	Research Paper in UGC care list journals	Group I	11	No	No	No
		Group II	12	01	No	No
	Books /Books chapters Published	Books	13	No	No	No
		Book Chapters	14	No	No	No
	Popular Articles (News Paper/ Magazines)		15	No	No	No
	Seminar / Conference/ Symposia organized	National	16	No	No	No
		International	17	No	No	No
	Seminar / Conference/ Symposia attended	National	18	1	1	No
		International	19	No	No	No
	Conference Proceedings		20	No	No	No
	Consultancy		21	No	No	No
(C) Patent	Applied		22	No	No	No
	Published		23	No	No	No
	Granted		24	No	No	No
(D) E-Content	MOOC/SWAYAM/ E- content developed		25	Yes	Yes	No
(E) Any Other	Teaching /Extension /outreach activities		26	1	No	No
	Responsibilities other than teaching		27	Yes	No	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	Yes	No	No
	Collaborations	National	29	Yes	Yes	No
		International	30	No	No	No

Details of Faculties	Name		1	Dr. John Paul Jala Kharbhih	Chinglensana Phanjooubam
	Date of Joining		2	27.3.2009	28.06.2012
	Field of specialisation		3	Rings of Continuous Functions	Graph theory
(A) Teaching Experience (in Years)	UG		4	5	04
	PG, including PhD		5	12	10
(B) Research activities	Basic Research		6	Yes	Yes
	Applied Research		7	No	No
	Action Research		8	No	No
	Project Submitted		9	No	No
	Ongoing Project		10	No	No
	Research Paper in UGC care list journals	Group I	11	No	No
		Group II	12	No	01
	Books /Books chapters Published	Books	13	No	No
		Book Chapters	14	No	No
	Popular Articles (News Paper/		15	No	No

	Magazines)				
	Seminar / Conference/ Symposia organized	National	16	No	No
		International	17	No	No
	Seminar / Conference/ Symposia attended	National	18	No	02
		International	19	1	03
	Conference Proceedings		20	No	No
(C) Patent	Consultancy		21	No	No
	Applied		22	No	No
	Published		23	No	No
	Granted		24	No	No
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	No	No
(E) Any Other	Teaching /Extension /outreach activities		26	No	No
	Responsibilities other than teaching		27	Yes	No
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	No
	Collaborations	National	29	No	No
		International	30	No	No

## DEPARTMENT OF STATISTICS

Head : Prof. T. K Chakrabarty

Telephone : 0364-272-2901/2902

E-mail : hodsta@nehu.ac.in

### Faculty Profile:

Designation	Name and Qualification	Specialization
<b>Professor</b>	Dr. R. Singh M. Sc. (Stat.) & Ph. D. (all Patna Univ.)	Econometrics, Demography , Poverty & Human Development
	Dr. T. K. Chakrabarty M. Stat. (Agra Univ.), Ph. D. (Manipur Univ.)	Time Series Analysis, Statistical Demography and Health Analytics
<b>Associate Professor</b>	Dr. B. K. Gupta M. Sc. (Stat.) (AMU), Ph. D. (Guahati Univ.)	Survey Sampling
	Dr. S. K. Jha M. Sc. (Stat) & Ph. D. (all Patna Univ.)	Probability Distribution, Spatial Statistics
<b>Assistant Professor</b>	Dr. B. Das M. Sc. & Ph. D. (Gauhati Univ.)	Distribution Theory, Environmental Statistics, Actuarial Statistics

### Thrust Areas of Research

Distribution Theory, Modeling with quantile functions, Spatial Statistics, Event History and life course data analysis, Demography, Econometrics, Poverty & Human Development.

### Brief Statement of Academic Activities and achievements:

The Department is offering Master of Science in Statistics under CBCS as well as Ph.D. programmes. Having been supported by the FIST programme of DST, Government of India, it has three computing laboratories with stable power back up, internet connectivity and softwares such as STATA, SPSS, R, S-PLUS, SYSTAT, MINITAB and MS-EXCEL. Students are exposed to modern computational techniques and hands on training with the statistical softwares to develop analytical skill, and also taken to field trips for collecting primary data. Department uses a quality and rigorous curriculum in Research Methodology as a compulsory paper in the M.Phil./Ph.D. research work. All the faculty members are actively engaged in research in the eminent fields such as Econometrics, Demography, Spatial Statistics, Statistical Distribution Theory, Survey Sampling Theory and Time Series.

### Students' Profile

**Enrolment Capacity: M.Sc. -31, Ph.D. – Variable**

### Enrolment of students from different States of India and Abroad:

#### M.Sc.

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	11	7	-	-	-	-	-	-	-	-	11	7
Mizoram	-	-	7	3	-	-	-	-	-	-	-	-	7	3
Sub Total	-	-	18	10	-	-	-	-	-	-	-	-	18	10
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	28	-	-	-	-	-	-	-	-	-	28	-

#### Ph.D.

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Nagaland	-	-	1	-	-	-	-	-	-	-	-	-	1	0
Total	-	-	1	-	-	-	-	-	-	-	-	-	1	0

### Degrees Awarded to students from different States of India and Abroad:

**M.Sc.**

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	4	9									4	9
Mizoram	-	-	5	3									5	3
Nagaland	-	-	-	4									-	4
Arunachal Pradesh	-	-	-	1									-	1
Sub Total			9	17									9	17
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	26		-	-	-	-	-	-	-	-	26	

**Ph.D.**

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Tripura	1	-	-	-	-	-	-	-	-	-	-	-	1	0
Total	1	-	-	-	-	-	-	-	-	-	-	-	1	0

**Students Awarded Ph.D. Degree**

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Mr. Jayanta Deb	“Modelling Multi-State Clustered Duration Data using frailty	Prof. T. K Chakrabarty

**Placement of Students:**

Name of the Student(s)	Name of the Programme	Post Held	Place of Work
Dr. N. Vikimchandra Singh	M.Sc. and Ph.D.	Assistant Professor	Department of Statistics, Rajiv Gandhi University, Itanagar, since 04.10.2021
Ms. Upama Deka	M.Phil. Ph.D. (persuing)	Statistician cum Lecturer	Fakhruddin Ali Ahmed Medical College and Hospital, Barpeta – 781301, Assam. Since 06.01.2022
Mr. Strong Pillar Marbaniang	M.Sc.	Assistant Professor	Sankardev College, Shillong Since 01.11.2021

**Students selected for Higher Studies:**

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
Mr. Imliyangba	Ph.D.	Department of Statistics, NEHU, Shillong.	India

**Research Fellowship**

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others
-	12	1	-	-	-

**Courses Conducted****Postgraduate**

**Semester - I:** Mathematical Analysis and Linear Algebra, Distribution Theory, Probability

Theory, Practical I: Statistical Computing in R, Practical II: Distribution and Linear Algebra.

**Semester-II:** Survey Sample, Statistical Inference I, Linear Models and Regression Analysis, Poverty, Human Development and Environmental Statistics, Practical III: Sampling, Inference I and Regression.

**Semester-III:** Design and Analysis of Experiments, Statistical Inference II, Econometrics, Stochastic Processes, Practical IV: Design, Inference II and Econometrics.

**Semester - IV:** Applied Multivariate Analysis, Time Series Analysis and Forecasting, Project Work, Practical V: Multivariate and Time Series and components from Optional Paper, One of the following optional papers: Reliability Theory, Operation Research, Population Dynamic and Demography.

**M. Phil./Ph. D. Courses**

Research Methodology in Statistics, Bayesian Inference and Analysis, Statistical Modeling, Topics in Sample Survey and Statistical Inference.

**Seminar/Conference/Symposium/Extension Programme etc.**

**Organized:**

**Dr. B. Das**

One Day National Webinar on Basic Statistical Techniques in Research Methodology which was held on the 22nd February, 2022.

**Attended:**

**Prof. T. K. Chakrabarty**

Chaired the session “03- Undernutrition among children and adolescents in India: From micro – to-macro level variations” on December 06, 2021 during XXIX International Population Conference (IPC 2021) held virtually during December 5-10, 2021.

Presented a paper titled “Gender dynamics of adulthood transitions for early school leavers : A case of Indian youths” in session 55 Life Course Approaches to the Transition to Adulthood during XXIX International Population Conference (IPC 2021) held virtually during December 5-10, 2021.

**Dr. S. K. Jha**

Delivered lecture as resource person on “Modelling Relationship between Variables: some new developments” in the ‘National Webinar’ organized by Govt. J Thankhuma College, Aizawl, Mizoram, on 28 October, 2021.

**Dr. B. Das**

Presented a paper titled “A Generalized Form of Power Transformation on Exponential Family of Distribution with Properties and Application.” In International Conference on Statistics and Data Science: Theory and Practice for Progress and Prosperity (ICSDS-2021) held virtually during March 11 - 13, 2022.

**Publications**

**Published Abroad:**

**Prof. T. K. Chakrabarty**

Khsetriya, D., Warjari, C. D., Chakrabarty, T. K., and Ghosh, S. (2021). Assessment of heavy metals in some water bodies in Meghalaya in India, Environmental Nanotechnology, Monitoring & Management, Vol. 16, 100512: <https://doi.org/10.1016/j.enmm.2021.100512>.

**Dr. B. Das**

Seema Chetri, Bhanita Das, Subrata Chakrabarty (2021), A New Modified Alpha Power Weibull Distribution: Properties, Parameter Estimation and Application. *Journal of the Indian Society for Probability and Statistics* volume 22, pages: 417–449

Deka, U., Das, B. and Deka, D. (2021). Concomitants of order statistics for bivariate exponentiated inverted Weibull distribution. *Journal of Mathematical and Computational Science*, 11 (5), 6444–6467. <https://doi.org/10.28919/jmcs/6254>. ISSN: 1927-5307.

**Funds Received during the current Year**

**(H) Bulk Grant to Department/Centre/Section etc. other than EMR grant**

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	4.4
02	UGC (SAP, CAS, Seminar etc.)	NIL
03	DST (FIST, PURSE, Seminar etc.)	NIL
04	NEC (program name)	NIL
05	Others	NIL

**Academic Collaborations**

**(i). National**

**Prof. T. K. Chakrabarty**

Name of the Collaborator	Name of the Institution	Title of the Project or Academic Activity
Dr. S. G. Maji, Head Department of Commerce	Tezpur University, Assam	Workshop on Research Methodology
Ms. E. Tariat, Head, Department of Statistics	Shankardev College, Shillong	One-day Webinar

**Dr. S. K Jha**

Name of the Collaborator	Name of the Institution	Title of the Project or Academic Activity
Dr. S. G. Maji, Head Department of Commerce	Tezpur University, Assam	Workshop on Research Methodology

**(ii). International****Prof. T. K. Chakrabarty**

Name of the Collaborator	Name of the Institution	Title of the Project or Academic Activity
Mary Ellen Zuppan	International Union for Scientific Study of Population, France	International Population Conference, 2021

**Honours/Awards/Recognition/Membership/Fellowship****Other Activities****Prof. T. K. Chakrabarty**

Delivered two invited talks as a resource person on “Panel Data Regression-I & -II” on March 10, 2022 during 5-days workshop held during March 5-10, 2022, in the Department of Commerce, Tezpur University, Assam.

Delivered an invited talk as a resource person on “Statistical Inference using Bootstrap” on November 06, 2021 during a one-day webinar in the Department of Statistics, Shankardev College, Shillong.

**Dr. S.K Jha**

Delivered lectures as resource person on topics, (1) Introduction to Regression: Classical and Modern, and (2) Logistic Regression, in ‘5-day Workshop’, organized by Department of Commerce, Tezpur University, Assam during 7-11 March 2022.

**Dr. B. Das**

Resource Person for 8<sup>th</sup> Faculty Induction Programme in HRDC NEHU from 2<sup>nd</sup> March – 31<sup>st</sup> March, 2022.

**SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022**

Details of Faculties	Name		1	Prof. Tapan Kumar Chakrabarty	Dr. Sanjeeva Kumar Jha	Dr. Bhanita Das
	Date of Joining		2	1st February, 2006	23 August 1997	17th April, 2013
	Field of specialisation		3	Quantile Modeling, Time Series Analysis & Forecasting, Statistical Demography & Health Analytics	Prob Distribution, Spatial Statistics	Distribution Theory, Environmental Statistics and Actuarial Statistics
(A) Teaching Experience (in Years)	UG		4	0	10 years	
	PG, including PhD		5	34 years	16 years	8 years
	Basic Research		6	Yes	Yes	Yes

(B) Research activities	Applied Research		7	No	No	No
	Action Research		8	No	No	No
	Project Submitted		9	0	0	0
	Ongoing Project		10	0	0	0
	Research Paper in UGC care list journals	Group I	11	0	0	2
		Group II	12	1	0	0
	Books /Books chapters Published	Books	13	0	0	0
		Book Chapters	14	0	0	0
	Popular Articles (News Paper/ Magazines)		15	0	0	0
	Seminar / Conference/ Symposia organized	National	16	0	0	0
		International	17	0	0	0
	Seminar / Conference/ Symposia attended	National	18	1	1	0
		International	19	1	0	1
(C) Patent	Conference Proceedings		20	0	0	0
	Consultancy		21	0	0	0
	Applied		22	0	0	0
(D) E-Content	Published		23	0	0	0
	Granted		24	0	0	0
(E) Any Other	MOOC/SWAYAM/ E-content developed		25	0	0	0
	Teaching /Extension /outreach activities		26	Yes	Yes	Yes
	Responsibilities other than teaching		27	Yes	Yes	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	0	0	0
	Collaborations	National	29	2	2	0
		International	30	1	0	0

## VII SCHOOL OF SOCIAL SCIENCES

**Dean** : Prof K Debbarma  
**Telephone** : 0364-2723001 (O)  
**Email** : [deansss@nehu.ac.in](mailto:deansss@nehu.ac.in) ; [kdebbarma@rediffmail.com](mailto:kdebbarma@rediffmail.com)

The School of Social Sciences established in 1974 is one of the oldest school in the University. Currently, the school consists of the following Departments: 1. **History**, 2. **Political Science**, 3. **Sociology**, 4. **Cultural and Creative Studies**, 5. **Law**, 6. **History & Archaeology (Tura Campus)**, 7. **Social Work (self-financed and in Tura Campus)**. All Departments under the School, except Social Work, offer **Ph. D** courses alongside the **Master's Programme**. In addition, the Department of Law also offers the **Five Year Integrated BA LLB course** and the Department of Cultural and Creative Studies offers **Diploma courses** in Music and Painting. Some departments (Sociology, Cultural and Creative Studies) also have **extension activities** as part of their academic programmes. **Educational tours to other parts of India**, which were conducted by various departments of the school every year, could not take place during the year 2021-2022 due to prevailing Covid-19 pandemic.

During the last year, all departments under the School regularly engaged in various academic programmes. Faculty members also **attend regional, national and international seminars** through Webinar, wherein they **deliver keynote addresses, present papers, chair academic sessions, etc.** Faculty members are also engaged as **resource persons in refresher courses** and in other **academic programmes** run by the Human Resource and Development Centre (earlier known as Academic Staff College), NEHU. Some of the faculty members also have/had **academic collaboration** with universities abroad (Prof. Desmond Kharmawplang – CCS - with South Wales University and University of California; Dr. S. Sengupta – Global Science and Technology Forum, Singapore; M. Majumdar- University of Yangon, Myanmar-Political Science). Faculty members have also received recognition by way of **membership of editorial boards** (Prof. J. J. Mozika, Associate Editor of the Indian Human Rights Law Review and member of the International Journal of Jurisprudence and Philosophy of Law; Mr. S. Tiwari, member of the editorial board National Journal of Comparative Law; Prof. A. K. Nongkynrih member of editorial committee of Indian Sociological Bulletin-e-journal- India Sociological Society). Prof. D. V. Kumar (Sociology) is member of The Expert Committee, UGC for the review of SAP related proposals in Sociology.

While the Departments of **History and Political Science** have completed **projects** under the **UGC-SAP Phase-II**, the department of **Sociology has completed UGC-SAP-DSA-I and these projects** include all faculty members of the respective departments. Out of these projects, some books have been published as well. In addition to the above mentioned, some faculty members of various departments under the school also have on-going individual projects funded by other agencies.

Amidst various challenges and constraints of time, most faculty members from the various departments under the School have credible **publications** by way of **research papers** and **books** for the year under review. At present, the major challenge faced by all the departments of the school is the acute shortages faculties.

A brief account of all the departments under the School of Social Sciences is presented below.



## DEPARTMENT OF CULTURAL AND CREATIVE STUDIES

Head : Prof. Desmond L. Kharmawphlang  
 Telephone : 0364-2723374/3371/3372 (O); 98630 60983 (M)  
 E-mail : hodcccs@nehu.ac.in

### Faculty Profile:

Designation	Name and Qualification	Specialization
Professor	Dr.Desmond L. Kharmawphlang, Ph.D. (NEHU)	Folkloristics
	Dr.Subrat Kumar Nanda, Ph.D. (JNU)	Folkloristics
Associate Professor	Dr.Lapynshai Syiem, Ph.D. (NEHU)	Music
Assistant Professor	Bedanta Kalita, M.F.A. (M S Univ. of Baroda)	Painting

### Thrust Areas of Research

As far as the thrust areas of research are concerned, the department mainly focuses on the study of various theoretical, conceptual, analytical, contextual and empirical issues related to different aspects in the fields of folklore, folk and traditional music and visual arts.

### Brief Statement of Academic Activities and achievements:

The department offers regular courses at both P.G. and P.G. Diploma level. The courses offered by the department comprise M.A. course in folkloristics, P.G. Diploma course in music and P.G. Diploma course painting. In addition, the department offers the Ph.D. course in folkloristics and traditional/folk music, which covers primarily research studies related to different aspects and dimensions of folklore and other cognate areas such as folk music, traditional performing arts, folk theatre, etc. Candidates desirous of pursuing research work in these areas are provided with necessary facilities, technical and professional guidance by subject matter experts and supervisors. Both theoretical knowledge and practical training are provided to the students admitted to the postgraduate course in folkloristics and the postgraduate diploma courses in music and painting. Besides full time teaching and research activities, the department is regularly engaged in extension activities as part of its outreach academic programmes.

### Students' Profile

**Enrolment Capacity:** M.A.(Folkloristics): 30, P.G. Diploma (Music): 20, P.G. Diploma (Painting): 10, Ph.D.: Variable

### Enrolment of students from different States of India and Abroad

M.A.(Folkloristics)

STATE(Name)	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya			8	19									8	19
Nagaland			1										1	
Total			28										28	

P.G. Diploma (Music)

STATE(Name)	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya			7	7									7	7
Total			14										14	

P.G. Diploma (Painting)

STATE(Name)	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	1		3	6									4	6
Sub Total	1		3	6									4	6
International														
Total	1		9										10	

**Ph.D**

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya			1										1	
Manipur				1										1
Tripura				1										1
Sub Total			1	2									1	2
International														
Total			3										3	

**Degrees Awarded****Degree: M.A. (Folkloristics), P.G. Diploma (Music), P.G. Diploma (Painting)****Degrees Awarded to students from different States of India and Abroad****M.A. (Folkloristics)**

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya			3	11									3	11
Kerala			1										1	
Mizoram				1										1
Arunachal Pradesh				1										1
Sub Total			4	13									4	13
International														
Total			17										17	

**P.G. Diploma (Music)**

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya			7	7									7	7
Sub Total			7	7										
International														
Total			14										14	

**P.G. Diploma (Painting)**

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	1		3	6									4	6
Sub Total	1		3	6									4	6
International														
Total	1		9										10	

**Ph.D.**

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Nagaland					1								1	
Sub Total														
International														
Total					1								1	

**Students Awarded Ph.D. Degree**

Name of Student	Title of Thesis	Name(s) of Supervisor(s)
Mr. Karan Gurung	“Orality and Identity: Analysing Construction of Gurung Identity through Oral Tradition”	Prof. S. K. Nanda

**Semester-I****Courses Conducted:****Postgraduate****M. A. (Folkloristics)**

Introduction to Folkloristics, History of Folklore Studies, Introduction to Semiotics, Folklore Theories-I, Field Methods and Studies.

### ***Semester-II***

Folklore Theories-II, Folk Literature-I, Public Sector Folklore, Introduction to Visual Arts, Urban Folklore.

### ***Semester-III***

Ethnomusicology, Folk Literature-II, Introduction to Performing Arts, Folklore of Northeast India-I, Social Folk Custom.

### ***Semester-IV***

Material Culture, Language, Culture and Society, Narratology, Folklore of Northeast India-II, Dissertation.

### **P. G. Diploma (Painting)**

#### ***Semester-I***

Fundamentals of Visual Arts (Theory), Introduction to Indian and Chinese Art (Theory), Drawing and Colour Application (Practical), Sculpture (Practical), Introduction to Traditional Folk Art and Craft of Northeast India (Theory).

#### ***Semester-II***

Introduction to Western Art (Theory), Print Making (Practical), Creative Painting (Practical), Enamel Painting in Glazing Technique (Practical), Introduction to Indian and Western Aesthetics (Theory).

### **P. G. Diploma (Music)**

#### ***Semester-I***

Brief History of Indian Classical Music (Theory), Introducing General Musical Terms (Theory), Introduction to Indian Classical Music (Practical), Practical Training in Indian

Classical Music (Practical), Introduction to Western Musical (Staff) Notation (Practical).

#### ***Semester-II***

Study of Selected Musical Instruments (Theory); Songs of Meghalaya (Practical); Rhythmic Pattern of Music of Meghalaya (Practical), Concept of Rhythmic Pattern of

Music of Meghalaya (Theory), Proficiency Western Musical Instruments (Practical).

### **Ph. D. Coursework Semester**

Research Methodology, Recent Trends in Folkloristics, Advanced Course in Performing Arts

### **Publications**

#### ***(c)Published in India:***

#### **Book Chapters.**

Kharmawphlang, Desmond L., (2021). A Mouthful of Khasi Proverbs: Structural and Literary Perspectives. D.K. Kalita, *Anandam Journal of AnundoramBorooahInstitute of Language, Art and Culture, Assam*. ABILAC.

Kharmawphlang, Desmond L., (2021). Two Orphans and The Skull of U SyiemSyadLukhmi. Loppamudra Maitra Bajpai, *The Owl Delivered the Good News All Night Long*. ALEPH Book Company, New Delhi.

#### **Other Activities**

Prof. Desmond L. Kharmawphlang:

(i) Appointed as Member of Centre for Indian Knowledge System, Indian Institute of Technology, Guwahati.

(ii) Delivered a talk on Sacred Groves: Tradition meets Nature on the One-Day webinar organised by Lady Keane College on 22<sup>nd</sup> October 2021.

(iii) Served as Resource Person in the Refresher Course on Tribal Studies organised by HRDC, NEHU on 2<sup>nd</sup> and 9<sup>th</sup> November 2021.

(iv) Served as Resource Person in the Refresher Course in Khasi organized by HRDC, NEHU on 11<sup>th</sup> December 2021.

#### **Prof. S. K. Nanda:**

"Folklore as Counterculture: The Power of Orality and Tacit Knowledge amidst Mass Culture", paper presented at the online National Conference on "Folklore as Resistance: Insights from Northeast India" organised by the Department of Cultural Studies, Tezpur University, Tezpur, Assam during 9-10 March 2022.

## **SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022**

Details of Faculties	Name		1	Prof. Desmond L. Kharmawphlang	Prof. Subrat Kumar Nanda
	Date of Joining		2	07.05.1988	10.12.1988
	Field of specialisation		3	Folklore	Sociology
(A)	UG		4		

Teaching Experience (in Years)	PG, including PhD		5	34	34
(B) Research activities	Basic Research		6		
	Applied Research		7		
	Action Research		8		
	Project Submitted		9		
	Ongoing Project		10	2	1
	Research Paper in UGC care list journals	Group I	11		
		Group II	12		
	Books /Books chapters Published	Books	13		
		Book Chapters	14	2	
	Popular Articles (News Paper/ Magazines)		15		
	Seminar / Conference/ Symposia organized	National	16		
		International	17		
	Seminar / Conference/ Symposia attended	National	18	1	1
		International	19		
	Conference Proceedings		20		
	Consultancy		21		
(C) Patent	Applied		22		
	Published		23		
	Granted		24		
(D) E-Content	MOOC/SWAYAM/ E-content developed		25		
(E) Any Other	Teaching /Extension /outreach activities		26		
	Responsibilities other than teaching		27		
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28		
	Collaborations	National	29		
		International	30	1	

Details of Faculties	Name		1	Dr. (Mrs) Lapyinshai Syiem	Mr. Bedanta Kalita
	Date of Joining		2	April 2002	11.06.2009
	Field of specialisation		3	Music (Khasi Traditional)	Art History
(A) Teaching Experience (in Years)	UG		4		
	PG, including PhD		5	20	13
	Basic Research		6		
	Applied Research		7		
	Action Research		8		
	Project Submitted		9		
	Ongoing Project		10		

(B) Research activities	Research Paper in UGC care list journals	Group I	11		
		Group II	12		
	Books /Books chapters Published	Books	13		
		Book Chapters	14		
	Popular Articles (News Paper/ Magazines)		15		
	Seminar / Conference/ Symposia organized	National	16		
		International	17		
	Seminar / Conference/ Symposia attended	National	18		
		International	19		
(C) Patent	Conference Proceedings		20		
	Consultancy		21		
	Applied		22		
(D) E-Content	Published		23		
	Granted		24		
(D) E-Content	MOOC/SWAYAM/ E- content developed		25		
(E) Any Other	Teaching /Extension /outreach activities		26		
	Responsibilities other than teaching		27		
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28		
	Collaborations	National	29		
		International	30		

## DEPARTMENT OF HISTORY AND ARCHAEOLOGY

Head : Dr. Tilok Thakuria  
 Telephone : 9127422780  
 E-mail : hodhash@nehu.ac.in

### Faculty Profile:

Designation	Name and Qualification	Specialization
<b>Assistant Professor</b>	Dr. Tilok Thakuria MA. Ph.D (DCPRI)	Proto-History, Ethno-Archaeology of Paleo-Adornment, Archaeology and Culture of NE India
	Dr. Dnoeti Sivaji MA, M.phil, Ph.D (HCU)	Business History, Studies on Entrepreneurship, Studies on Caste

### Thrust Areas of Research

The primary focus of the department is research in history and archaeology. The goal is to promote research in the history and archaeology of India and Southeast Asia. The department gives particular interest in encouraging research in history, archaeology, ethno-archaeology, and cultural studies of Northeast India. Aside from these, it intends to investigate research areas such as business history, entrepreneurship studies, intellectual history studies, and the caste system of India in general, and North-East India in particular.

Recently, the Department established an archaeological laboratory with scientific equipment for archaeological survey and documentation. The laboratory is also equipped with other necessary instruments for archaeological studies. The department also provides scholars and students with computer access.

### Brief Statement of Academic Activities and achievements:

The Department celebrated the World Heritage week from 19th to 25th November 2021. Prof. V. Sinde, former Vice-Chancellor of Deccan College PGRI gave an online lecture on heritage of India from archaeological precept. Dr. Amalka W., Marine archaeologist from Srilank also gave an online lecture on the Maritime heritage of Indian Ocean. The Honourable Vice-Chancellor of NEHU, Prof. P. S. Shukla also gave graced the celebration with his inaugural speech.

### Students' Profile

**Enrolment Capacity: M.A: 30**

**PhD – Variable**

### Enrolment of students from different States of India and Abroad (PG)

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya			16	30									16	30
Assam		1	1										1	1
Nagaland		7	3										7	3
Sub Total													24	34
Total													57	

### Degrees Awarded

**Degree: M.A**

### Degrees Awarded to students from different States of India and Abroad

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya			2	18									2	18
Assam	1	2											1	2
Nagaland			2	1									2	1

Uttar Pradesh	1												1	
Sub Total													6	21
Total													27	

## M. Phil.

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya				1										1
Assam		1												1
International														2
Total													2	

## Research Fellowship

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others
2	3				

## Courses Conducted:

### Postgraduate

Semester I: Historical Methods-1, Prehistoric Archaeology, Social and Polity formation in Ancient India-I, Introduction to Archaeology, 105 Social and Polity formation in Northeast India

Semester II: Historical Methods-II, Social and Polity formation in Ancient India-II, Archaeology of Northeast India, Pre-Industrial Society, The Neolithic Cultures in India

Semester III: Capitalism and Colonialism – I, Practicals in Archaeology, State and Society in Medieval India, Society and Religion in Northeast India, Art and Architecture of India

Semester-IV: Capitalism and Colonialism-II, Making of Modern India, The Chalcolithic Cultures in India, Environmental History of India, Perspectives in History and Culture in Northeast India

**MPhil/PhDCourses:** Research Methodology, Oral Traditions, Readings on History and Archaeology (Seminar Course)

### Seminar/ Workshop Attended

1. Doneti, S. 2021 ‘The holistic development of dalits special emphasis on entrepreneurship’, National seminar, organized by department of economics and department of english, SR&BGNR Govt Arts and Science College, Khammam, Telangana, Dec, 29th.

2. Doneti, S.2021 ‘Historical perspectives of pandemics and the impact of Covid -19’, National Webinar, organized by Nongston College, Meghalaya, as a resource Person, April, 21st.

3. Thakuria, T. 2021. ‘Colonial Archaeology in Assam’ lecture delivered in the Refresher course on “History and Archaeology” UGC-HRDC, Mizoram University, 2nd September 2021

4. Thakuria, T. 2021. “Colonial Archaeology of Northeast India” presented in the Webinar on “Development of Archaeological Research in Northeast India” organised by Dept. History, Unity College, Nagaland on 21st September 2021

5. Thakuria, T. 2021. “Stone Jars and Iron in Northeast India”, presented in the national seminar on “Iron Age in South Asia”, organised by the Dept.of Archaeology, University of Kerala, on 1st to 4th March 2021

## Publications

### (a)Published in India:

Thakuria, T. and Bathari U. 2021: Stone Jars of Assam: Recent Discoveries, *Man and Environment* XLV(2): 76-86.

Doneti, S. 2021: Trade and Barter System in Brahmaputra Valley with special reference to The Jonbeel Mela, Dogo Rangsang, 11(2):144-148.

Doneti, S. 2021: Adi-Andhra Movement in Colonial Andhra, *Bhava Veena*, 18 (11): 2456-4702

Doneti, S. 2021: History and Architecture of Chandragiri Fort, *Bhava Veena*, 19:2 129-135

Doneti, S. 2022: The Growth of phama entrepreneurship during the post-liberalisation period in Hyderabad, *Bhava Veena*, 19 (20):78-83

**Edited Books/Volumes.**

Doneti, S, Rao, S. S. and Samuel, A. 2022.  
Position of Dalits Past and Present,  
Desh Vikash Publication: Visakhapatnam

**(b) Published Abroad:**

Thakuria, T., Bathari, Sokpal, N. 2022. An  
Archaeological survey of the Assam stone  
jar sites, Asian Archaeology 5: 41-50

**(c). Popular Articles (News Paper and Magazines)**

Thakuria, T. 2022. Longdisang: A booklet on  
Stone jars of Assam, Dept. Of Culture,  
DHAC

**SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022**

Details of Faculties	Name		1	Dr. Tilok Thakuria	Dr. Dnoeti Sivaji
	Date of Joining		2	02/07/2012	05/07/2012
	Field of specialisation		3	Archaeology	History
(A) Teaching Experience (in Years)	UG		4		
	PG, including PhD		5	9 years	9 years
(B) Research activities	Basic Research		6		
	Applied Research		7		
	Action Research		8		
	Project Submitted		9		
	Ongoing Project		10		
	Research Paper in UGC care list journals	Group I	11	1	3
		Group II	12	1	
	Books /Books chapters Published	Books	13		
		Book Chapters	14		
	Popular Articles (News Paper/ Magazines)		15	1	
	Seminar / Conference/ Symposia organized	National	16		
		International	17		
	Seminar / Conference/ Symposia attended	National	18	3	2
		International	19		
	Conference Proceedings		20		



	Consultancy		21		
(C) Patent	Applied		22		
	Published		23		
	Granted		24		
(D) E-Content	MOOC/SWAYAM/ E-content developed		25		
(E) Any Other	Teaching /Extension /outreach activities		26		
	Responsibilities other than teaching		27		
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28		
	Collaborations	National	29		
		International	30		

## DEPARTMENT OF HISTORY

Head : Prof. Cecile A. Mawlong

Telephone : 2723019

E-mail : cmawlong@nehu.ac.in

### Faculty Profile:

Designation	Name and Qualification	Specialization
<b>Professor</b>	1 Dr. F.A. Qadri, M.Phil & Ph.D. [AMU]	Medieval Indian History & Northeast India.
	2. Dr. C.A. Mawlong, PGDA [Institute of Archaeology, New Delhi & Ph.D., NEHU]	Archaeology & Prehistory of Northeast India
	3. Dr. T. Gurung Nag, M.Phil. & Ph.D. [NEHU]	Modern Indian History & Northeast India
	4. Dr. Amrendra Kumar Thakur, M.A. & Ph.D. [BU, Muzaffarpur]	Medieval Indian History & Northeast India.
	5. Dr. V.R. Rengsi, M.Phil. & Ph.D.[NEHU]	History of Sciences & Non-Indian History
	6. Dr. S.N. Lamare, M.Phil. & Ph.D.[NEHU]	Modern Indian History & Modern Northeast India.
	7. Dr. A. Passah, M.Phil. & Ph.D. [NEHU]	History of South East Asia & Modern Northeast India
	8. Dr. M.S.N. Rahman, M. A. & Ph.D. [Calcutta University]	Medieval Indian History
	9. Dr. Aparna Mathur, M.A. & Ph.D. [M.J.P.Rohilkhand University]	Ancient Indian History, Culture & Archaeology.
<b>Assistant Professor</b>	1. Dr. B. Dutta, M.A. & Ph.D. [NEHU]	Modern Indian History

**Thrust Areas of Research:** The Department's thrust area is Northeast India.

### Brief Statement of Academic Activities and achievements

During the period under report the faculty members of the Department were involved in several academic programmes like attending /organising seminars, field and study tours, conducting Refresher Course for College/University teachers, and holding dialogues with colleagues engaged in undergraduate teaching within the region. The Department collaborated with ICSSR-NERC in organising online lecture on the theme "Eminent Social Scientists Series" from July 2021.Regular cleaning drives undertaken at the front entrance of the Department.

### Students' Profile

**Enrolment Capacity: M.A. - 53 Ph.D. - 07**

### Enrolment of students from different States of India and Abroad

#### M.A

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam				01						01				02
Arunachal			01										01	
Meghalaya			04	27									04	27
Manipur			03	06									03	06
Mizoram			01	04									01	04
Nagaland				05										05
Sub Total			09	43						01			09	44
Total			09	43						01			09	44

**Ph.D.**

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	01	01		01									01	02
Arunachal		01												01
Meghalaya			01										01	
Nagaland			01	01									01	01
Sub Total	01	02	02	02									03	04
International														

**Degrees Awarded****Degree: M.A.****Degrees Awarded to students from different States of India and Abroad**

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	03	01		01						02			03	04
Arunachal				01										01
Meghalaya			06	18									06	18
Manipur			02	05									02	05
Mizoram				04										04
Nagaland	01		02	05									03	05
Tripura				01										01
Sub Total	04	01	10	36						02			14	38
International														
Total	04	01	10	36						02			14	38

PH.D.	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam		01												01
Arunachal														
Meghalaya				01										01
Manipur														
Mizoram														
Nagaland														
Tripura														
Sub Total		01		01										02
International														
Total		01		01										02

**Students Awarded Ph.D. Degree**

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Jt Supervisor
Ms. Ibameai Hepsa Nongbri	Gender Relations in Early India c.200 B.C.- A.D.600	Prof. Aparna Mathur
Ms. Satarupa Saha	Trade and Markets in Goalpara Region (1765-1912)	Prof. Tejimala Gurung Nag

**Students selected for Higher Studies:**

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
Mr. Imkongkumzuk Jamir	Ph.D.	NEHU	India
Ms. Pili Rigam	Ph.D.	NEHU	India
Mr. Asish Sarma	Ph.D.	NEHU	India
Ms. Orenvungi L. Ngullie	Ph.D.	NEHU	India
Ms. Arpita Saikia	Ph.D.	Jamia Millia Islamia	India
Ms. Rajshree Pegu	Ph.D.	Delhi University	India
Mr. A. Banshan Syiem Kharkongor	Ph.D.	Madras University	India

## Research Fellowship

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others
	35				

### Attended

#### Courses Conducted:

##### Postgraduate

**Semester I:** Historical Methods-I; Prehistoric to Ancient Societies; Modern Indian Society; British Expansion and Imperial Policy in India; Economy and Society in Medieval India; Economy and Society in Ancient India; Technology in the Making of Early China; The Rise of Islam and the Early Caliphate; Social Movement in USA

**Semester II:** Historical Methods-II; Feudalism; Colonialism, Imperialism and Economic Change in India; Ancient Indian Polity and Society; Polity and Society in Medieval India; History of the Greco Roman Civilization; The Umayyad and Abbasid Empires; Colonialism in South East Asia; (Open Course): Society, Technology and History: Prehistoric Age to Industrial Revolution

**Semester III:** Capitalism and Imperialism - I; Religion and Society in Ancient India; Religion and Society in Medieval India; Indian Nationalism; History of Ideas in Modern India; Political Ideas and Institutions During the Sultanate Period; Ancient Indian Art and Architecture; (Open Courses) Social Forces and Social Mobilization; Introduction to Gender History

**Semester IV:** Capitalism and Imperialism – II; Social and State Formations; Perspective in the History of North East India; Archaeology Methods and Approaches; Colonialism Communalism and Secularism; Political History of the Delhi Sultanate; The Rise of South Indian Civilization; Political History of the Mughal Empire; Contemporary India.

##### MPhil/PhD Courses:

Research Methodology, History and Theory, Critical Reading of History (Seminar Paper)

##### Seminars/Conferences/Workshops/Symposia/Extension Programmes (National/International):

##### Organized

Department of History collaborated with ICSSR-NERC in organizing on live lectures as part of its Eminent Social Scientists Series, Prof. David R. Siyemlieh spoke on the occasion, 2<sup>nd</sup> July 2022.

Dr. Cecile A. Mawlong: Delivered two online lectures on the 22<sup>nd</sup> and 23<sup>rd</sup> September, 2021, on the topics- Ethnoarchaeology and Ethnohistory, organised by Kristu Jayanti College, a NAAC accredited autonomous college, Bengaluru.

Dr. Cecile A. Mawlong: Resource person for Refresher Course, UGC-HRDC-Mizoram University 31<sup>st</sup> August- 13<sup>th</sup> September 2021.

Dr. Cecile A. Mawlong: Resource person for UGC-HRDC-NEHU Refresher Course in Tribal Studies 1<sup>st</sup> - 16<sup>th</sup> November, 2021.

Dr. Cecile A. Mawlong: Moderated in a lecture series on Eminent Social Scientists jointly organised by ICSSR-NERC and the Department of History, NEHU on 2<sup>nd</sup> July, 2021.

Dr. Cecile A. Mawlong: Moderated a webinar on the theme National Education Policy 2020: Towards an Equitable and Inclusive Society, jointly organised by ICSSR-NERC and NEHU, Tura Campus on 2<sup>nd</sup> October, 2021.

Dr. Cecile A. Mawlong: Chaired a technical session at the Online Capacity Building and Personality Development Programme for UG and PG Female Students, sponsored by the National Commission for Women, New Delhi, jointly organised by the School of Humanities and the Internal Complaints Committee on the 17<sup>th</sup> November, 2021.

Dr. Cecile A. Mawlong: Chaired a technical session at a webinar on Gender and Society in Contemporary India: Issues and Prospects, sponsored by ICSSR- NERC, organised by the Department of Sociology, Sankardev College, Shillong on 10<sup>th</sup> December, 2021

Dr. Cecile A. Mawlong: Resource person at a Webinar on the theme “Unsung Heroes of Meghalaya” organised by the Press Information Bureau, GOI, Shillong, on 28<sup>th</sup> August, 2021.

Dr. Amrendra Kumar Thakur: Delivered Keynote Address in an Indian Council of Historical Research sponsored seminar on “Historiography of Freedom Struggle: North East India Context” organised by Karmashree Hiteswar Saikia College, 17-18 February 2022.

Dr. S.N. Lamare: As a Guest Speaker on *The Jaintias and the Lesser Known War of 1774 Against the English*, on 24<sup>th</sup> February, organised

by the Government of India Ministry of Information & Broadcasting Regional Outreach Bureau, Meghalaya and Tripura region, Shillong, in collaboration with Dean Students' Welfare, NEHU and Research Scholars Forum, NEHU, as part of Azadi Ka Amrit Mahotsav & Covid Appropriate Behaviour, 24-25 February, 2022 at Multiuse-Convention Hall, NEHU, Shillong, Meghalaya.

Dr. Amena N. Passah: 21st December 2021,, "The INA and National Integration," in National Seminar, 'Role of INA in National Integration', organised by Anthropological Survey of India, NERC, Shillong.

Dr. Amena N. Passah: (paper presentation) 2021, 21st October, "Meghalaya's 50 Years Journey: A Panoramic View," in Webinar on 'A Retrospection into Meghalaya's 50 Years Journey of Statehood,' organised by the Centre for Historical Research, Synod College, in collaboration with the Department of Arts and Culture, Government of Meghalaya, 21st-22nd October, 2021.

Dr. Amena N. Passah: (paper presentation) 2021, 26th August, "Khasi Jaintia: Some Aspects of History and Culture" in Webinar, organised by MBP Govt. P.G. College, Aashiyana, Lucknow.

Dr. Amena N. Passah: 2022, 17<sup>th</sup> June, Delivered the Inaugural Address in blended mode, in Two day National Seminar, organised by Department of History, Furkating College, Golaghat, Assam.

Dr. Amena N. Passah: 2022, 24th February, Resource Person, "Tirot Sing, the Unsung Hero of Khasi Hills," in Azadi Amrit Mahotsav, organised by ROB, Ministry of Information and Broadcasting, Government of India, in collaboration with NEHU, Multi-Convention Hall, Shillong.

Dr. Amena N. Passah: 2022, 17th February, Resource Person, "Unsung Heroes of KhasiJaintia Hills," in Azadi Amrit Mahotsav, organised by ROB, Ministry of Information and Broadcasting, Government of India, DBT School, Shillong.

Dr. Amena N. Passah: 2022, 31st January, Delivered the Online Dr.Himangsu Sarmah Memorial Lecture Series, Lecture VI, on "Oral Traditions and History: Negotiating the Past," organised by Department of History, Morigaon College, Assam.

Dr. Amena N. Passah: 2022, 14th,January, Keynote Address, in two day National Seminar on "Political, Economic and Social Development of Northeast India Since 1947 with Special Reference to the State of Meghalaya" organised

by Tura Christian College in collaboration with State Bank of India (SBI), Tura at Tura Christian School, Tura, Meghalaya.

Dr. Amena N. Passah: 2021, 9<sup>th</sup> December, Chaired a technical Session in Online National Webinar on 'Gender and Society in Contemporary India: Issues and Prospects,' organised by Department of Sociology, Sankerdev College, Shillong.

Dr. Amena N. Passah: 2021, 27<sup>th</sup> November, Resource Person, Refresher Course, organised by Department of Khasi, NEHU, Shillong.

Dr. Amena N. Passah: 2021, 19<sup>th</sup> October, Delivered the Fifth Lecture Series, "The Khasi-Jaintias: A panoramic View," in the Webinar Lecture Series on 'Highlanders of North East India, organised by Department of History, St. John College, Dimapur.

Dr. M. S. N. Rahman: 'Sufism as a Syncretic Force in Medieval India', in a national seminar on sufism & interfaith dialogue to promote global peace and social harmony, organized by Persian Department, Gauhati University, on 14-15<sup>th</sup> February, 2022.

Dr. M. S. N. Rahman: 'Maulana Azad's Views on Nationalism: Hindu-Muslim Questions and Concept of Pakistan', Public Lecture, Nehru Memorial Museum and Library, New Delhi, 11<sup>th</sup> January, 2022.

Dr. M. S. N. Rahman: 'Pluralism and Globalization in the Light of Sufism' in an international Webinar on Globalization, Democracy and Nationalism: Past, Present and Future of India, organized by the Department of History, Sripat Singh College in collaboration with the Department of History, Kalyani University from 7<sup>th</sup> to 8<sup>th</sup> October, 2021.

Dr. M. S. N. Rahman: 'Madhyayugio Bharate Sufibader Bibhinna Dik', invited lecture, Mankar College, Burdwan, West Bengal, 4<sup>th</sup> August, 2021.

Dr. M. S. N. Rahman: 'Contribution of Abdul Karim as a historian', in an International Webinar on Professor Abdul Karim: A Versatile Scholar (commemorating his 14th Death Anniversary) organized by Chittagong Independent University, Bangladesh, held on July 24, 2021.

Dr. M. S. N. Rahman: 'Importance of Syed Ahmadul Huq as reflected in Syed Ahmadul Haq Rachanabali (Vol.III)' in an International Webinar on "Relevance of Rumi's Teachings in Promoting Inter-Religious Harmony: Contribution of Banglar Rumi Syed Ahmadul Huq" held on July 17, 2021.

Dr. M. S. N. Rahman: 'Madhyajugae Banglar Samaj O Sanskritite Atmikaner Yatiya' (Invited

Lecture) Sangbit, Jagannath University, Dhaka, Bangladesh, 20<sup>th</sup> June, 2021.

Dr. B. Dutta: Guest Speaker at the Online Symposium on the Topic – Partition and Northeast India at Devi Prasad Goenka Management College of Media Studies, Mumbai on 21<sup>st</sup> August, 2021.

Dr. B. Dutta: Resource Person at National Webinar organized by Department of History, kandra Radha Kanta Kundu Mahavidyalaya on 'Partition of India in the East' and the title of the Lecture was 'Partition and Northeast India: Stories beyond the Steriotypes' dated 22<sup>nd</sup> August 2021.

## **Publications**

### ***Published in India***

Qadri, F. A. (2022), Maqalat-e-Fozail Ahmad Qadri. Special Issue of *IDRAK*.

Lamare, S.N. (2022), Oral narratives and texts on the Jaintias: taxonomy, origin and migration, *Northeast Researches, XIII*, (2022): 8-19.

Dutta, B. (2021). Partition's Long Shadow: post-Partition Migration and Citizenship Conundrum in Postcolonial Assam, *Journal of Migration Affairs*, Vol.IV(1) 2021:20-35.

Dutta, B. (2021). Partition and the early history of the refugee vs immigrant discourse for Assam, *The NEHU Journal*, Vol.XIX (2) 2021:1-12.

Dutta, B. (2021). Muslims Against Pakistan: The Jamiat-ul-Ulama-i-Hind against Partition in Colonial Assam, *Partition Studies Quarterly*, 2021:1 Issue 4.

## **Books.**

Mawlong, Cecile A. (2022). *Interrogating the Past: Reading Gender and the Megalithic Tradition in Khasi-Jaintia Society*. DVS Publishers, Guwahati, ISBN: 978-93-85839-46-7.

Dutta, B., Dutta, S. (2022). *Flowing Boundaries: Riverine Borders, Trans-Boundary Lives and Contradictions from North-East India*. Asian Confluence, Shillong, ISBN:978-93-93172-02-0.

## **Book Chapters:**

Qadri, F. A. (2022), Tesawwuf-e-Islami Ka Isrtaqa, (Evolution of Islamic Sufism): Forward to Syed Sibtain Raza Gilani's, Tazkirah-e-Makhdam-ul-Kul: A History of Qadri Sufi Order in South Asia, Zawiyah Publishers, Lahore, Chapter 2, pp.14-24.

Mawlong, Cecile A., (2022) Communities in Transition: Contemporary Issues on Sustainability among Indigenous People of Northeast India. In *Transitional Aspects of Indigenous People : North East India*. D. Chakraborty and R.D. Nayak

(Eds.). EBH Publishers, Guwahati, Chapter 1, pp 1-18.

Gurung Nag, Tejimala (2021). Nepali/Gorkha Settlers in Northeast India: Colonial Encounters and Post-colonial Dilemmas. In *Linking India and Eastern Neighbours: Development in the Northeast and Borderlands*. H. Srikanth and Munmun Majumdar (Eds.). Sage India Pvt. Ltd., New Delhi, Chapter 12, pp.187-202.

Thakur, Amrendra Kumar (2021). Poorva-aupniveshik poorvottar Bharat mein adivasi samaj evam prodyogiki. In *Adivasi Itihas aur Sanskriti*. Anuradha Singh(Ed.). Vani Prakashan, New Delhi, Chapter 4, pp. 73-99.

Thakur, Amrendra Kumar (2021). Trade in pre-colonial Arunachal Pradesh and Tibet". In *Linking India and Eastern Neighbours: Development in the Northeast and Borderland*. H. Srikanth and Munmun Majumdar (Eds.).Sage India Pvt. Ltd., New Delhi, 2021, Chapter 8, pp. 125-137.

Thakur, Amrendra Kumar (2022). 'Buranji' between literature and history: a critical study of the configuration. In *Contextualizing Buranji, Language and Identity of Assam*. Rameswar Kurmi (Ed.). Nagaon, 2022, Chapter 2, pp.25-53.

Rahman, M. S. N. (2022). Hindu Participation in the Imperial Administration: A Study of Medieval Bengal (A.D.1305-1757). In *Oitihashik Abdul Karim Jiban O Karma*. A.K.M.Shahnawaz (Ed.), Itihas Academy, Dhaka, ISBN: 978-984-35-2109-5, February, 2022, Chapter 7, pp.73-84.

Rahman, M. S. N. (2021). Universalism in Islamic Traditions. In *Truth, Vol.II*, Imam Bhuyan (Ed.) Society for Better Tomorrow, Ken Publication, Barpeta Road (Assam), pp.111-126.

Rahman, M. S. N. (2021). Banglai Islamer Abhuday. In *Marmarita Itihas, Adhyapak Ranjit Sen-er Sangbardhana Grantha*. Anup Polley (Ed.), Baiwala Prakashan, Kolkata, Chapter 10, pp.321-26.

Mathur, Aparna (2021). Tantra and Buddhism: An Inquiry into Early Assam. In *Northeast India: Readings in Cultural Life*. Lanukumla Ao (Ed.). Research India Press, New Delhi, Chapter 2, pp. 9-28.

## **Proceedings of Seminar/Conferences.**

Rahman, M. S. N. (2022). Madhyayugae Banglai Dharmo O Sanskriti Samonnay. (Presidential Address, Medieval India Section) *Itihas Anusandhan*. Paschim Banga Itihas Samsad, Kolkata, pp.24-51.

## **Popular Articles (News Paper and Magazines)**

Rahman, M. S. N. (2021). Manabatabad O Maromibader samannay sadhanay Syed Ahmadul Haq' a book review on *Syed Ahmadul Haq Rachanabali, Titiyo Khando*, edited by Syed Rezaul Karim, Liyakat Ali Chaudhury, Md. Abdul Majid, Saiful Islam Khan and Mahedi Hasan, August, 2019, published in a Bengali daily newspaper *Pratham Alo*, Dhaka Bangladesh, on August 9, 2021.

#### Other Activities

Dr. S.N. Lamare: Attended a two day National Seminar on "Interrogating the Inter-State Border Disputes in Contemporary North-East India",

organised by the Department of History and Political Science, Sankardev College, Shillong, and Moderated the Technical Session –III on 26<sup>th</sup> February 2022.

#### Honours/Awards/Recognition/Membership/Fellowship

Dr. Cecile A. Mawlong appointed as a member of the Ethics Committee on 23<sup>rd</sup> July, 2021, in the capacity of community expert with Inclen Trust International (HQ New Delhi), in connection with a Health Research Capacity Building project at their Demographic Surveillance Site - Somaarth Mawphlang .

### SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	Name		1	Prof. F. A. Qadri	Prof. C. A. Mawlong	Prof. T. G. Nag
	Date of Joining		2	6.9.1993	7-6-1989	17.08.1994
	Field of specialisation		3	Medieval India and Medieval Northeast India	Archaeology & Prehistory of Northeast India	Modern India /Northeast India
(A) Teaching Experience (in Years)	UG		4			4
	PG, including PhD		5	34	33	28
(B) Research activities	Basic Research		6		Megalithic Tradition, Gender and Material Culture with special reference to Khasi-Jaintia Society	Migration, Military, Christianity and Gender History
	Applied Research		7			
	Action Research		8			
	Project Submitted		9			
	Ongoing Project		10			
	Research Paper in UGC care list journals	Group I	11	1		
		Group II	12			
	Books /Books chapters Published	Books	13		1	
		Book Chapters	14	1	1	1
	Popular Articles (News Paper/ Magazines)		15			
	Seminar / Conference/ Symposia organized	National	16			
		International	17			
	Seminar / Conference/ Symposia attended	National	18		4	
		International	19			
	Conference Proceedings		20			
	Consultancy		21			
	Applied		22			

(C) Patent	Published		23			
	Granted		24			
(D) E-Content	MOOC/SWAYAM/ E-content developed		25			
(E) Any Other	Teaching /Extension /outreach activities		26		2 Online Lectures to NAAC Accredited College in Bangaluru	
	Responsibilities other than teaching		27		Headship	
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28		Member Ethics Committee Inclen Trust International	
	Collaborations	National	29			
		International	30			

Details of Faculties	Name		1	Prof. A. K. Thakur	Prof. V. R. Rengsi
	Date of Joining		2	27.5.2005	6.6.1989
	Field of specialisation		3	Pre-Colonial and Colonial Eastern and Northeastern India	Non-Indian History
(A) Teaching Experience (in Years)	UG		4	19	2
	PG, including PhD		5	17	33
(B) Research activities	Basic Research		6		
	Applied Research		7		
	Action Research		8		
	Project Submitted		9		
	Ongoing Project		10		
	Research Paper in UGC care list journals	Group I	11		
		Group II	12		
	Books /Books chapters Published	Books	13		
		Book Chapters	14	3	
	Popular Articles (News Paper/ Magazines)		15		
	Seminar / Conference/ Symposia organized	National	16		
		International	17		
	Seminar / Conference/ Symposia attended	National	18	1	
		International	19		
	Conference Proceedings		20		
	Consultancy		21		
(C) Patent	Applied		22		
	Published		23		



	Granted		24		
(D) E-Content	MOOC/SWAYAM/ E-content developed		25		
(E) Any Other	Teaching /Extension /outreach activities		26		
	Responsibilities other than teaching		27		
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28		
	Collaborations	National	29		
		International	30		

Details of Faculties	Name		1	Prof. A. Mathur	Dr. B. Dutta
	Date of Joining		2	10-02-2010	1.5.2013
	Field of specialisation		3	Ancient History	Modern India
(A) Teaching Experience (in Years)	UG		4		5
	PG, including PhD		5	22	15
(B) Research activities	Basic Research		6		Modern
	Applied Research		7		Partition of India/ Citizenship Issues
	Action Research		8		
	Project Submitted		9		
	Ongoing Project		10		1
	Research Paper in UGC care list journals	Group I	11		
		Group II	12		
	Books /Books chapters Published	Books	13		1
		Book Chapters	14	1	3
	Popular Articles (News Paper/ Magazines)		15		1
	Seminar / Conference/ Symposia organized	National	16		
		International	17		
	Seminar / Conference/ Symposia attended	National	18		2
		International	19		
	Conference Proceedings		20		
	Consultancy		21		
(C) Patent	Applied		22		
	Published		23		
	Granted		24		
(D) E-Content	MOOC/SWAYAM/ E- content developed		25		
(E) Any Other	Teaching /Extension /outreach activities		26		
	Responsibilities other than teaching		27		
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28		

	Collaborations	National	29		
		International	30		

Details of Faculties	Name		1	Prof. S. N. Lamare	Prof. A. N. Passah	Prof. M. S. N. Rahman
	Date of Joining		2	27.7.2006	7.12.95	30.10.2003
	Field of specialisation		3	Society and Culture of Modern India and Northeast India	Mod. India, Social and Cultural History, Gender History, S.E.Asia, Oral Narratives, Medical History	Medieval Indian History
(A) Teaching Experience (in Years)	UG		4	10	11	2
	PG, including PhD		5	12	27	24
(B) Research activities	Basic Research		6	Resistance to British Rule in Northeast India		Social and Cultural History
	Applied Research		7			
	Action Research		8			
	Project Submitted		9			
	Ongoing Project		10			
	Research Paper in UGC care list journals	Group I	11			
		Group II	12			1
	Books /Books chapters Published	Books	13			
		Book Chapters	14			3
	Popular Articles (News Paper/ Magazines)		15			2
	Seminar / Conference/ Symposia organized	National	16			
		International	17			
	Seminar / Conference/ Symposia attended	National	18			4
		International	19			3
	Conference Proceedings		20			1
	Consultancy		21			
(C) Patent	Applied		22			
	Published		23			7
	Granted		24			
(D) E-Content	MOOC/SWAYAM/ E-content developed		25			
(E) Any Other	Teaching /Extension /outreach activities		26			
	Responsibilities other than teaching		27	As Student Counsellor in the Department		
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28			
	Collaborations	National	29			
		International	30			1

## DEPARTMENT OF LAW

Head : Prof. (Dr.) Chintamani Rout  
 Telephone : 9436336103/0364-2723801  
 E-mail : hodlaw@nehu.ac.in/drchintamanirout@gmail.com

### Faculty Profile: 07

Designation	Name and Qualification	Specialization
<b>Professor</b>	Dr. J. J. Mozika LL.M. Ph. D. (Law) (NBU)	Constitutional Law, Administrative Law, Jurisprudence, Judicial Process and Women & Criminal Law.
	Dr.Chintamani Rout M.A. (Political Science) LL.M. Ph. D. (Law) Utkal University, VaniVihar, Bhubaneswar	Constitutional Law and Commercial Law
<b>Associate Professor</b>	Dr. R. K. Mishra LL. M. Ph. D. (Law) BHU	Intellectual Property Rights & Criminal Law
	Dr. A.K. Singh LL.M (BHU) Ph.D. (Law)	Criminal Law, Human Rights & Private International Law
	Dr. Naveen Kumar LL. M. (JamiaMiliaIslamia) Ph. D. (Law)	Public Health Law, Corporate Laws, Human Rights, Constitutional Law, Environmental Laws and Cyber Crimes
<b>Assistant Professor</b>	Dr.RanjitSil LL.M Ph.D (Law) University of Burdwan	Public Law
	Mr.Shishir Tiwari LL.M (BHU) M.Phil in International Law (JNU)	International Law, Environmental Law, International Humanitarian Law, International Migration Law and Information Technology Law

### Thrust Areas of Research

The Department of Law is focusing the new areas on research including the traditional subjects. It is interested in Constitutional Law, Family Law, Corporate Laws, Industrial Law, Criminal Law, Environmental Law, Patent Law and Cyber crimes.

### Brief Statement of Academic Activities and achievements:

#### Students' Profile

**Enrolment Capacity: B.A. LL.B (Hons) – 60,LLM Course-10 PhD – Variable**

#### BALL.B (Hons.) COURSE

#### Enrolment of students from different States of India and Abroad

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya			18	41	1								19	41
Assam		3				1								4
Arunachal Pradesh			1	2									1	2
Manipur				1										1
Tripura			1										1	
Uttar Pradesh									1				1	
Sub Total													22	48
Total													60	

#### LLM COURSE

#### Enrolment of students from different States of India and Abroad

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya			4	8									4	8

Assam										1				1
Nagaland				1										1
Sub Total													4	10
International														
Total													14	

## PH.D COURSE

### Enrolment of students from different States of India and Abroad

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya				1										1
Assam		2		1	1								1	3
Nagaland				1										1
Sub Total													1	5
Total													6	

### Degrees Awarded

#### Degree: B.A.LL.B (Hons)

### Degrees Awarded to students from different States of India and Abroad

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya			24	31									24	31
Assam		2												2
Nagaland			1										1	
Sub Total													25	33
Total													58	

### Degree: LL.M

### Degrees Awarded to students from different States of India and Abroad

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya			3	7									3	7
Assam														
Nagaland														
Sub Total													3	7
Total													10	

### Placement of Students

Name of the Student(s)	Name of the Programme	Post Held	Place of Work
All the students passed out in 2021 July with B.A. LL.B (Hons) Degree joined as advocates in the different courts of the country and practicing	Practicing as Lawyers	Advocates	Different Courts in the country starting from Subordinate Courts to the Supreme Court of India.

### Students selected for Higher Studies:

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
Risuklin Wanniang Simidiam Lamin Lariphylla Nongsie Silky Mary D. Sangma Mesan Dkhar Pascal Lyngdoh Ricaheylin Lyngdoh Nongrum Fenic Lewis Dkhar Charitylang Lyngdoh Mawphlang Comingstar Kharsyntiew Rosemary Kikon Rosabella Manner	LL.M. Programme	Department of Law, NEHU, Shillong	India

### Courses Conducted:

#### Five Year Integrated B.A.LL.B (Hons) Course)

*Semester I:* English I, Political Science I, Sociology I, Micro Economics, Law of Torts

*Semester II:* English II, Political Science II, Sociology II, Macro Economics, Law of Contract

*Semester III:* English III, Political Science III, Political Science IV, Sociology III, Special Contract 264

*Semester IV:* Indian Economy, Political Science V, Political Science VI, Family Law I, Law of Crimes I (Indian Penal Code)

*Semester V:* Constitutional Law I, Jurisprudence, Law of Crimes II (Cr.P.C), Family Law II, Property Law

*Semester VI:* Administrative Law, Constitutional Law II, Human Rights Law and Practice, Labour Law I, Public International Law

*Semester VII:* Company Law, Labour Law II, Honours I Copyright, Interpretation of Statutes & Principles of Legislation, Drafting, Pleading & Conveyance

*Semester VIII:* Civil Procedure Code & Limitation Act, Law of Evidence, Honours II Patent Law, International Environmental Law, Professional Ethics and Professional Accounting System

*Semester IX:* Honours III Women & Criminal Law, Honours IV Trademark & Design, Honours V Health Law, Information Technology Law, Alternate Dispute Resolution

*Semester X:* Honours VI Forensic Science, Honours VII Private International Law, Honours VIII Offences against Child & Juvenile offences, Legislative Drafting, Banking Law, Moot Court, Exercise and Internship

#### Two Year LL.M. programme

##### *Semester I*

Compulsory: Indian Constitutional Law  
Specializations: One group comprising three courses to be offered at any given time to be decided by the Department.

Constitutional Law: Constitutionalism and Constitutional Development in India and England, Comparative Study of Federalism, Civil and Political Rights: Comparative Study of Selected Constitutions Jurisprudence: Theories of Law, Theories of Justice, Theories of Rights Law of Crimes: Criminology and Penology, Criminal Law in India, Cyber Crimes

##### *Semester II*

Compulsory: Legal Education and Research Methodology Specializations: One course to be offered at any given time from one group to be decided by the Department. Human Rights: International Law of Human Rights 265 Corporate Law: Business Organization Alternate Dispute Resolution System: Domestic and International Commercial Arbitration Open Courses: Any two courses to be offered during second semester. Copy Right: National and International Perspective, Trade Marks, Design and Geographical Indications, International Environmental Law, Natural Resource and the Law in India, Development and Regulation of International Trade, Legal Regulation of Economic Enterprises

##### *Semester III*

Compulsory: Law and Social Transformation in India Specializations: Two courses to be offered from the group selected during second semester. Human Rights: Human Rights and the Refugees, Human Rights in India Corporate Law: Business Management (Company Management & Administration), Law Relating to Multi-National Corporation Alternative Dispute Resolution: Enforcement of Foreign Award and Conciliation in India, Mediation, LokAdalats and Consumer Forums etc. Open courses: Any one course to be offered during the third semester: Patents and Protection of Plant Varieties and Farmers' Rights, Pollution Control Laws in India, Legal Regulation of International Trade.

Semester IV

Judicial Process, Dissertation, General Proficiency, Viva voce.

### **Ph.D. Courses**

Legal Research Methodology, Judicial Process and Comparative Constitutional Law

**Seminars/Conferences/Workshops/Symposia/ Extension Programmes (National/International):**

### ***Attended***

#### **Dr. J J Mozika**

Chaired a session in the Two Days' International Virtual Conference on Emerging Environmental Issues and Challenges organized by Shillong Law College NSS Unit, Meghalaya in collaboration with Phuket Rajabhat University, Phuket, Thailand on 11-12 February, 2022

#### **Dr. Chintamani Rout**

1. Attended and Presented a paper, "Celebrating India at 75: Post-Independence Journey of Indian Judiciary" on National Seminar organized by synod College, shilling in Collaboratiob with the department of Arts and Culture, Government of Meghalaya on 'Celebrating India at 75' on 27<sup>th</sup> & 28<sup>th</sup> May, 2021 in Synod College, Shillong.
2. Attended one Yoga Programme through Google Meet conducted by Meghalaya State Judicial Academy, Shillong on 6<sup>th</sup> June, 2021
3. Attended a National Webinar on "Ethics and Criminal Justice in India" organized by Vikash Law School, Sambalpur on 17<sup>th</sup> June, 2021
4. Attended one Webinar on "National Education Policy 2020" organized by the Internal Quality Assurance Cell (IQAC), North-eastern hill University, Shillong on 19th June, 2021

### ***Organised***

1. Organised the Moot Court Competition in the Department of Law with Collaboration of State Legal Services Authority Meghalaya on the occasion of Pan India Awareness and Outreach Programme as part of the Azadi Ka Amrit Mahotsav on 13/11/2021
2. The Department celebrated the 72<sup>nd</sup> Constitutional Day on 26<sup>th</sup> November, 2021 inviting Prof. R. Venkat Rao, former Vice-Chancellor, National Law School Bangalore, and Prof. Bhabani Panda, the Director, KIIT Law School Bhubaneswar as the resource persons on this occasion
3. The Department organised the observation of Human Rights Day on 10<sup>th</sup> December, 2021 and Prof. S. P. Rathor, Director of Gujarat University, Ahmadabad was the Key-note speaker on this occasion.
4. The Department organised the celebration of Child Right's Day 20<sup>th</sup> November, 2021 and Prof. K C. Raval, Professor, Gujarat University, Ahmadabad was the Key-note speaker on this occasion.

5. Attended the International Conference, "Asia,s Role in Changing Legal and Social Order Post Covid-19" organized by Kathmandu School of Law, Nepal on 9<sup>th</sup> July, 2021
6. Participated in One Day National Level Panel Discussion on Implementation of National Education Policy (NEP) 2020: Innovative Approaches and Challenges, organised by NEP Implementation Committee and NEHUTA on 14<sup>th</sup> August,2021
7. Attended and participated one Online lecture, "Academic leadership: A Growing Imperative" organised byICSSR-NREC in collaboration with Indian Society for Training and Development on 27<sup>th</sup> August, 2021
8. Attended A Felicitation Programme by Bar Council of India, for Hon'ble Chief Justice of India, Justice N.V. Ramana and the topic was "The Legal & Judicial System in India " organised by the Bar Council of India on 4<sup>th</sup> September,2021
9. Attended Two Day National Conference continuing Professional Development of Teachers in the Digital World Dept. of Education, NEHU, Shillong, 6<sup>th</sup> & 7<sup>th</sup> September,2021
10. Attended One Day National Level Panel Discussion on National Education Policy (NEP) 2020 organised by North-Eastern Hill University Teachers Association (NEHUTA) in

collaboration with Department of Education, NEHU, Shillong, Meghalaya on 14<sup>th</sup> September, 2021

11. Attended One Day National Webinar and discussion on "NEP 2020: A Paradigm Shift for Education" Jointly organised by Dept. of Pol. Science and public Administration, & Dept. of Sociology, Sri Venkateswar University College of Arts, Tirupati, and Department of Education, NEHU, Shillong on 26<sup>th</sup> September, 2021
12. Attended the lecture on Yoga for "Physical and Mental Health" organised by University Level Yoga Committee on 2<sup>nd</sup> October, 2021
13. Attended and Presented a paper (Online) entitled "State of Meghalaya: The importance of Sixth Schedule under the Indian Constitution" in the webinar on a subject 'A Retrospection into Meghalaya's 50 Years Journey of Statehood' organised by Centre for Historical Research, Synod College in collaboration with the Dept. of Arts & Culture, Govt. of Meghalaya on 21<sup>st</sup> & 22<sup>nd</sup> October, 2021
14. Attended Programme for the Camp sitting/ Public open hearing of the National Human Rights Commission (NHRC) at State Convention Centre, Shillong, National Human Rights Commission (NHRC) 14<sup>th</sup> December, 2021
15. Presented a Paper (Online) ,"Impact of Pandemic in Legal Education: teaching & Research in Law" in the International Conference on the Topic, 'Law and Legal Education during and Post-Pandemic' organised by Bangladesh Institute of Law and International Affairs (BILIA), Dhaka, Bangladesh from 13-16 January, 2022
16. Attended one Awareness cum Training Programme on NAAC Assessment and Accreditation of Legal Education institute for North-Eastern Region IQAC National Law University and Judicial Academy (NLUJA), Assam in collaboration with National Assessment Accreditation NAAC, Bangalore, 21<sup>st</sup> January, 2022.

#### Dr. R K Mishra

- 1) **Standardisation and patent ambush:** issues and challenges. *Third IP & innovative researchers of Asia (IPIRA) conference*, held online, March 24-27, 2021.

#### Dr. A. K. Singh

1. Participated and presented paper in International Conference on Multidisciplinary Socio-Economic and Cultural Studies organized by Shillong Law College in collaboration with Cape Comorin Trust, India on 01<sup>st</sup>-03<sup>rd</sup> July, 2021. The title of the

paper is; justice for Disabled :An Analysis in National and International Perspective

2. Participated in the one day International Workshop on "**Communication Competencies for Online Reflective Teaching and Learning: Global Perspective**" organized by Institute of Education and Behavioral Science, Ambo University, Ambo, Ethiopia in Collaboration with North-Eastern Hill University (NEHU), Shillong, Meghalaya, India on 10<sup>th</sup> July 2021.
3. Participated and presented paper as resource person in 27<sup>th</sup> International Conference of International Academy of Physical Science (CONIAPS XXVII) on '**Advances in Food Science and Technology**' on **26-28 October, 2021**, organized by North Eastern Hill University, Tura Campus in Association with Swadesh South Asian Network. The Title of the paper is "Food Adulteration and the Law: A Socio Legal Analysis".
4. Participated and presented paper in the two days National Seminar on **Bhartiya Janjati Sahitya, Chintana evan Srijan** organized by Poorvangan in collaboration with ICSSR on 26-27 March 2022. The title of the paper is **Tribal Language Culture and the Constitution of India: An Analysis**.

#### Dr. Naveen Kumar

1. Delivered lecture on the topic of 'Right to Information Act & CPGRAM; Responding to Parliamentary Question' on dated 20/04/2021 from (10:00 to 11:15 hrs) and (15:30 to 16:45 hrs) 5<sup>th</sup> Batch- Induction Training Course for Inspectors of CBIC at National Academy of Customs, Indirect Taxes & Narcotics (NACIN) Zonal Campus, Shillong.
2. Delivered lecture on the topic of 'Technology as enabler- Leveraging Technology, Cyber Crime and Innovation' on dated 21/05/2021 from (14:00 to 15:15 hrs) to 5<sup>th</sup> Batch- Induction Training Course for Inspectors of CBIC at National Academy of Customs, Indirect Taxes & Narcotics (NACIN) Zonal Campus, Shillong.
3. Delivered lecture on the topic of 'E Governance- Use of Technology, Transparency, -Process RE-Engineering and Reducing Discretion' on dated 21/05/2021 from (11:30 to 12:45 hrs) to 5<sup>th</sup> Batch- Induction Training Course for Inspectors of CBIC at National Academy of Customs, Indirect Taxes & Narcotics (NACIN) Zonal Campus, Shillong.
4. Presented a Webinar on the topic of 'Constitution Day of India (Ideas, Achievement & Resolve) under the Constitution of India' as a part of Azadi Ka Amrit Mahotsav (AKAM) on dated 26/11/2021 from 11:30 to 12:45 at National

Academy of Customs, Indirect Taxes& Narcotics (NACIN) Zonal Campus, Shillong.

5. Delivered lecture on the topic of ‘Salient features of Prevention of Corruption Act, 1988’ on dated 14/01/2022 from 11:00 to 13:30 hrs (two sessions) at National Academy of Customs, Indirect Taxes& Narcotics (NACIN) Zonal Campus, Shillong.
6. Delivered lecture on the topic “Salient features of Prevention of Corruption Act, 1988” on dated 15/02/2022 from 14:00-16: 45hrs to 6<sup>th</sup> Batch of Induction Training for newly recruited/promoted Inspectors of CBIC at National Academy of Customs, Indirect Taxes& Narcotics (NACIN) Zonal Campus, Shillong.
7. Delivered lecture on the topic “Lecture cum Case Study based Discussions by Faculty on Technology as an Enabler leveraging technology, Cybercrime, Innovation” from 10:00-11:15hrs (1<sup>st</sup> Session) and “Lecture cum Case Study based Discussion by Faculty on E-Governance, Use of Technology, Transparency, Process Re-engineering Reducing Discretion” from 11:30-12:45 hrs dated 18/02/2022 to 6<sup>th</sup> Batch of Induction Training for newly recruited/promoted Inspectors of CBIC at National Academy of Customs, Indirect Taxes& Narcotics (NACIN) Zonal Campus, Shillong.

#### **Shishir Tiwari**

1. Chaired a Session in the Two Days Virtual International Conference on “Emerging Environmental Issues and Challenges” organized by Shillong Law College in Collaboration with Phuket Rajabhat University, Phuket, Thailand on 11<sup>th</sup> and 12<sup>th</sup> February, 2022
2. Participated as a Judge of Moot Court Competition organized by MABIJS 5<sup>TH</sup> Intra College Moot Court Competition, 2022
3. Participated in the Refresher Course in Fundamentals of Cyber Security & Cyber Laws (Multidisciplinary) conducted from

#### **Publication**

##### ***Published in India:***

Mozika, J.J., “Integrating the Right to be Forgotten in the Indian Legal Framework in the Light of Experiences from the European Union” *Indian Journal of Law and Justice*, Vol. 12, No.1, March, 2021, pp. 39-60 (ISSN – 0976-3570) [CARE Listed Journal]

Rout Chintamani, Keyho Muluvesalu, Approaches for prison reforms in India. PP – 1-11 International Journal of Political Science, Law and International Relations (IJPSLIR) Volume-2, Issue-1, ISSN (online) 2278- 8840; ISSN (Print)

2278- 8832; Impact Factor (JCC)-2020: 5.0038; ICV (2016)- 60.9; Volume 11 (1), June, 2021

Rout Chintamani, Choudhoury Kaustav, Right to Health as Human Right for the Elderly Persons in India. PP – 872-882 International Journal of Law, Management and Humanities (IJLMH) Peer-reviewed and referred journal, Volume-4, Issue-1, ISSN (online) 2581- 5369; Impact Factor:4.859 2021

Rout Chintamani, Choudhoury Kaustav, Redefining the role of Medical Personnel in Right to Health as Human rights. PP – 1599-1602 International Journal of Innovation, Sciences and Research (IJISR) Peer-reviewed and referred journal, Volume-10, Issue-02, ISSN (online) 2319- 9369; Impact Factor: 7.392 2021

Rout Chintamani, Susngi Thywill, Judiciary and Electoral Reforms pp. 56-61 UGC Approved Care Listed Journal, Vol.11, Issue 41, ISSN 2229-3620; 2021

Rout Chintamani, Constitution of Sedition Law: An Analysis pp. 63-67 Bi-Ennial Souvenir of All Assam lawyers Association, Nyayjyoti, Issue March, 2022

Mishra, Ravi Kant (2021-22).Role of IPR’s towards environmental protection. *Shodhsamhita*,8(11): 181-188.

Mishra, Ravi Kant (2021-22).Protection of intellectual property rights in outer space activities: a study.*Journal of education:Rabindrabharti University*,24(12): 21-26.

Mishra, Ravi Kant (2021).The interplay between competition law and IPR: a study.*NIU International Journal of Human Rights*, 8 (26): 184-189.

Mishra, Ravi Kant (2021).Artificial intelligence colliding patent law: a study based upon WIPO’s draft issues paper.*Anvesak*, 51(6):178-187.

Mishra, Ravi Kant (2021).Protection of intellectual property in agriculture in India: an overview. *Anvesak*, 51 (2) (XXX): 163-169.

Mishra, Ravi Kant (2021).Constitutional adjudication and supreme court of India. *Journal of Fundamental & Comparative Research*,7(12)(I): 44-52.

Mishra, Ravi Kant (2021).Social welfare State and Covid-19: an analysis, *NIU International Journal of Human Rights*, 8 (24):136-143.

Singh Arun Kumar (2021) Linguistic minorities and legal safeguards: An analysis with special reference to India “*NIU International Journal of Human Rights*, Vol.8:175-185 ISSN: 23940298

Singh Arun Kumar (2021) Justice for disabled, social inclusion and the human values: An



analysis in national and international perspective, *Cape Comorin (An International Multidisciplinary Double Blind Peer Reviewed Research Journal)* Vol III(II), 29-35, ISSN 2582-1962

Singh Arun Kumar (2021) A socio legal study of community policing in India with special reference to the state of Meghalaya, *Indian Journal of Law and Justice* Vol.12: (No.1) 174-186, ISSN-0976:3570

Singh Arun Kumar, Aggarwal Pooja, Sixth schedule of the Constitution of India and its operation: An analysis, *The Legal Analyst*, Vol.11:(No.1&2)) 60-68, ISSN:2231-5595

Sil, Ranjit., Mawlong, Daiahunlin. (2021). Urbanization and development: a legal study of the right to adequate housing in Meghalaya. Harvest., (Volume I Issue IV October 2021) E-ISSN: 2582-9866

#### Edited Books/Volumes.

Sil, Ranjit., Mandal, Shyamal., editors. (2021). *The Impact of Covid-19 in Indian Society*. INSC International Publishers (IIP), Karnataka, India, ISBN:978-1-68576-185-1

#### Book Chapters.

Celebrating India @ 75 Post Independence Journey of Indian Judiciary" Chapter-16, PP 159-161, (Book) 'Celebrating India @ 75 edited by David Kharchandy & K.L. Buam, Published by Winshield Press, New Delhi, ISBN:978-98-82120-29-2 (HB) First Publication in the year 2021

**Mishra, Ravi Kant (2021). Traditional Ecological Knowledge and Biological Diversity Act, 2002: A Critical Analysis. In *An Anthology on Contemporary Environmental Issues*. Dr. Dhrubajyoti Das (et. All) (Eds.). Aequitas Victoria Foundation, Guwahati, Chapter 1, pp. 1-8.**

Singh Arun Kumar, (2021) Bio- medical-waste management and the environment: A socio legal study in 'Environment and Unsustainable of Human Life' (Vol. III), Dr M.Z.A. Khan (etal) (eds) VL Media Solutions, New Delhi, 2021, 49-58, ISBN: 978-93-91308-46-

Singh Arun Kumar, (2022) Solidwaste management, environment and the law: An analysis in socio legal perspective in *Environmental Issues and Viable Participation Through Litrary Perspective*" Dr Rajan Lal (et al) (eds) "Authors Press, New Delhi, 162-171, ISBN 978-93-91314-29-3

Singh Arun Kumar (2022) The national education policy 2020: An analysis with special reference to higher education in India, in *Higher Education: Issues and Challenges*, Dr Krishan Kant (et al) (eds) Sanjay Prakashan, New Delhi, 07-22, ISBN: 975-93-92509-37-7

Kumar Naveen and Sharma Bijoy (February, 2022), Educating Women about the Offence of Cyber Stalking and its Victimization in India: An Appraisal, *Education India Journal: A Quarterly Refereed Journal on Dialogues and Education*, Volume 11, Issue 1, pp. 2278-2435.

Kumar Naveen (2022). Human Rights and Good Governance: An Interface with Indian Judiciary. In *Globalisation Governance and Human Rights South Asian Experiences*. Anisur Rahman and Niharika Tiwari (Eds.). Concept Publications, New Delhi, Chapter 7, pp. 90-108.

Sil, Ranjit., (2021). Covid 19 and plight of migrant workers in India. In *COVID-19 and Its Impact in India*. Md. Alamgir Khan (Editor). Chandidas Mahavidyalaya, Khujutipara, Birbhum, West Bengal, ISBN: 978-81-952787-4-9, Section D, p.113

Sil, Ranjit., (2021). Covid-19 and the world of work: International legal perspectives and policy recommendation for India. In *The Impact of Covid-19 in Indian Society*. Ranjit Sil and Shyamal Mandal (Eds). INSC International Publishers (IIP), Karnataka, India, ISBN: 978-1-68576-185-1, pp. 163-172

Sil, Ranjit., Yusuf, Rameez. (2021). Role of the municipalities, panchayats and local governance during Covid19 pandemic. In *The Impact of Covid-19 in Indian Society*. Ranjit Sil and Shyamal Mandal (Eds). INSC International Publishers (IIP), Karnataka, India, ISBN: 978-1-68576-185-1, pp. 154-162

## Research Projects:

Title of Project (Total outlay in Lakhs)	Current Status (New /on- going/ complete d)	Name (PI/Co-PI)	Multi/Si ngle Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Efficacy of the Domestic Violence Act, 2005: A Study in East Khasi Hills District, Meghalaya (Rs. 12.21 lakhs)	New	Prof. J.J. Mozika (PI)/ Dr. Deigracia Nongkynrih (Co-PI)/Dr. Binayak Dutta (Co-PI)	Single (2021-2022)	National Commission for Women, New Delhi	6.10 lakhs

8.

### Honours/Awards/Recognition/Membership/ Fellowship

#### Dr. J J Mozika

(a) Members of the Editorial Boards of national/international journals;

1. On the national Advisory Board of Indian Journal of Law and Justice (ISSN: 0976-3570) A UGC-CARE Listed Scopus Indexed Journal
2. Associate Editor, Indian Human Rights Law Review
3. Member, Editorial Board, International Journal of Jurisprudence and Philosophy of Law

(c) Members of governmental bodies outside NEHU at the state or central level;

Nominated as Chairperson/Presiding Officer of the Internal Complaints Committee for the Office of the Controller of Communication Accounts, NE-I Circle, Department of Telecommunications, Ministry of Communications, GOI

#### Dr. Chintamani Rout

1. Member Board of under Graduate Studies in Law, Mizoram University, Mizoram.
2. Member Board of Post-Graduate Studies in Law, Rajiv Gandhi University, Arunachal Pradesh.
3. Member Building Committee, Shillong Law College, shilling.

#### Dr. H K Mishra

- 1) Nodal Officer, Pro Bono Associate Club, Dept. of Law, NEHU under the *Nyaya Bhandhu Scheme*, Ministry of Law and Justice, Govt. of India.

#### Shishir Tiwari

1. Chaired a Session in the Two Days Virtual International Conference on “Emerging Environmental Issues and Challenges” organized by Shillong Law College in Collaboration with Phuket Rajabhat University, Phuket, Thailand on 11<sup>th</sup> and 12<sup>th</sup> February, 2022
2. Participated as a Judge of Moot Court Competition organized by MABIJS 5<sup>TH</sup> Intra College Moot Court Competition, 2022
3. Participated in the Refresher Course in Fundamentals of Cyber Security & Cyber Laws (Multidisciplinary) conducted from

Memberships/Fellowships/Visiting Fellows of statutory bodies of recognized educational institutions **outside NEHU**].

#### Dr. J J Mozika

1. Visiting Faculty, Indian Institute of Legal Studies, Dagapur, Matigara
2. Member, CCS (UG), Gauhati University
3. Member of the Board of Studies (Law), Assam University, Silchar, India
4. Member of the Screening Cum Evaluation Committee, Law Department, Tezpur University, Assam, India
5. Member of Association of Law Teachers, UK
6. Individual member of the Australasian Law Teachers Association (ALAA)
7. Life Member of the Indian Law Institute, New Delhi

### 8. Other Activities

#### Dr. J J Mozika

Editors/Reviewers for journals of national/international repute;

Reviewer for Indian Journal of Law and Justice, a CARE Listed Journal

Lectures delivered at Refresher Courses/Orientation Programs/Workshops, etc.

1. Delivered a lecture as resource person on "Prevention of Sexual Harassment at the Workplace" on 9 February, 2022 in the 7th Faculty Induction Programme for College and University Teachers organized by UGC-HRDC, NEHU, Shillong from 17th January - 15th February, 2022
2. Delivered a lecture as resource person on "Prevention of Sexual Harassment for Women at the Workplace" on 3rd December, 2021 in the Short-Term Course for Academic Administrators organized by UGC-HRDC, NEHU, Shillong from 1st - 7th December, 2021
3. Delivered a lecture as resource person on "Prevention of Sexual Harassment at the Workplace" on 6th September, 2021 in the 5th Faculty Induction Programme for College and University Teachers organized by UGC-HRDC, NEHU, Shillong from 17th August - 16th September, 2021

#### **Dr. Chintamani Rout**

1. Invited as a Guest of Honour in 2<sup>nd</sup> Foundation day of the Acqutias Victoria Foundation on 15 /08 /2022 Guwahati, Assam.
2. Acted as a judge for essay writing competition organized by Indian Tourism, Shillong on 7<sup>th</sup> International Yoga Day, 21 June, 2021

#### **Dr. H. K. Mishra**

- 1) Reviewer for the *Indian Journal of Law and Justice*, Dept. of Law, University of North Bengal, Siliguri.

#### **Dr. A. K. Singh**

Delivered Lecture on 25-10-2021 on a five day Training of investigation on women Safety. The title of the topics is Legal provision of law, Latest Amendments and Importance of judicial Pronouncements at Police Training School, Umran Meghalaya.

Delivered lecture as a resource person on 9<sup>nd</sup> November, 2021 on the Law of Contract for the 13<sup>th</sup> week of the 3(three) months training course to the newly appointed Judge, District Council Court, Jowai& Presiding officers/Magistrate First Class of the Subordinate District Court, Khasi Hills/Jaintia Hills Autonomous District Council Court, Shillong/Jowai.

Delivered lecture as a resource person on 22<sup>nd</sup> November, 2021 on the Contract Act-Part II and Specific Relief Act for the 13<sup>th</sup> week of the

3(three) months training course to the newly appointed Judge, District Council Court, Jowai& Presiding officers/Magistrate First Class of the Subordinate District Court, Khasi Hills/Jaintia Hills Autonomous District Council Court, Shillong/Jowai.

#### **Dr. Naveen Kumar**

1. Appointed as a Conciliator for the National Lok Adalat held on 17.04.2021 organised by District Legal Services Authority, Shillong.
2. Appointed as a Conciliator for the National Lok Adalat held on 10.07.2021 organised by District Legal Services Authority, Shillong.
3. Appointed as a Conciliator for the National Lok Adalat held on 30.10.2021 organised by District Legal Services Authority, Shillong.
4. Appointed as a Conciliator for the National Lok Adalat held 11.12.2021 organised by District Legal Services Authority, Shillong.
5. Judged the India Round of the PROF. N. R.MADHAVA MENON Asian Jural Conclave which is organized by Lloyd Law College, Greater Noida in association with Menon Institute of Legal Advocacy Training (MILAT) & Society of Indian Law Firms (SILF) on 27<sup>th</sup> November, 2021.

#### **Dr. Ranjeet Sil**

1. Chaired a Session in the Two Days Virtual International Conference on "Emerging Environmental Issues and Challenges" organized by Shillong Law College in Collaboration with Phuket Rajabhat University, Phuket, Thailand on 11<sup>th</sup> and 12<sup>th</sup> February, 2022
2. Participated as a Judge of Moot Court Competition organized by MABIJS 5<sup>TH</sup> Intra College Moot Court Competition, 2022
3. Participated in the Refresher Course in Fundamentals of Cyber Security & Cyber Laws (Multidisciplinary) conducted from

#### **Shishir Tiwari**

1. Reviewer of the *Environmental Policy and Law*, Journal published by the IOS Press, The Netherlands.
2. Reviewer of the *National Law University Assam Law Review (NLUALR)*, Journal published by the National Law University and Judicial Academy, Assam.
3. Reviewer of the *E-Journal of Academic Innovation and Research in Intellectual Property Assets (E-JAIRIPA)*, Journal published by the Centre For Innovation, Research and Facilitation In Intellectual Property For Humanity And Development,

Chanakya National Law University, Patna.

4. Panellist in the SECOND Two Day Teachers' Workshop on Syllabus Making and Research Methods in Migration and Forced Migration Studies, organised by the Calcutta Research Group in collaboration with IWM, Vienna on 23-24 February 2022, Kolkata, India.
5. Delivered a talk (online) on "Sardar Vallabh Bhai Patel: His Life and Achievements", to observe 'Rashtriya Ekta Divas' converging with Ajadi Ka Amrit Mahotsav activities, organized by the North Eastern Space Application Centre,

Department of Space, Government of India, Umiam, Meghalaya, 28<sup>th</sup> October 2021.

6. Acted as Jury Member for the 26th Annual Stetson International Environmental Moot Court Competition, organised by the Jindal Global Law School from 11<sup>th</sup> to 13<sup>th</sup> February 2022.
7. Acted as Jury Member for the 5th Edition of the Intellectual Property Law Moot Court Competition, jointly organised by IIT Madras & Surana and Surana International Attorneys, Chennai from 13<sup>th</sup> to 16<sup>th</sup> January 2022.

### SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	Name		1	Prof. Jyoti Jajodia Mozika	Prof. Chintamani Rout	Dr. Ravi Kant Mishra
	Date of Joining		2	02.05.2005	15/01/2007	December 20, 2005
	Field of specialisation		3	Constitutional and Administrative Law, Jurisprudence and Judicial Process, Women & Criminal Law	Constitutional Law & Commercial Law	IPR, TK & Criminal Law
(A) Teaching Experience (in Years)	UG		4	23 +	29 Years	19
	PG, including PhD		5	8+	10 Years	8
(B) Research activities	Basic Research		6	Yes	Constitutional Law	No
	Applied Research		7	Yes	Constitutional Law	No
	Action Research		8		Action research	No
	Project Submitted		9	No	No	No
	Ongoing Project		10	1	No	No
	Research Paper in UGC care list journals	Group I	11		Three	7
		Group II	12	1	Two	No
	Books /Books chapters Published	Books	13	No	No	No
		Book Chapters	14	NO	One	1
	Popular Articles (News Paper/ Magazines)		15	NO	No	No
	Seminar / Conference/ Symposia organized	National	16	NO	No	No
		International	17	NO	No	No
	Seminar / Conference/ Symposia attended	National	18		Ten	10
		International	19	1	One	No
	Conference Proceedings		20	NO	No	No
	Consultancy		21	NO	No	No

(C) Patent	Applied		22	NO	No	No
	Published		23	NO	No	No
	Granted		24	NO	No	
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	NO	No	
(E) Any Other	Teaching /Extension /outreach activities		26		Yes	2
	Responsibilities other than teaching		27		Yes	1
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	Stated above	No	1
	Collaborations	National	29	Constitutional and Administrative Law, Jurisprudence and Judicial Process, Women & Criminal Law	No	
		International	30	23 +	No	

Details of Faculties	Name		1	Dr A. K. Singh	Dr.Naveen Kumar
	Date of Joining		2	02-01-2006	12.01.2006
	Field of specialisation		3	Criminal Law, Human Rights, Property Law , Private International Law	Public Health Law, Corporate Laws, Human Rights, Constitutional Law, Environmental Laws and Cyber Crimes
(A) Teaching Experience (in Years)	UG		4	11	18 +
	PG, including PhD		5	08	8+
(B) Research activities	Basic Research		6	No	Yes
	Applied Research		7	No	Yes
	Action Research		8	No	No
	Project Submitted		9	No	1
	Ongoing Project		10	No	No
	Research Paper in UGC care list journals	Group I	11	Group I	No
		Group II	12	Group II Yes 02	1
	Books /Books chapters Published	Books	13	Books No	NO
		Book Chapters	14	Book Chapters 03	1
	Popular Articles (News Paper/ Magazines)		15	No	NO
	Seminar / Conference/ Symposia organized	National	16	National	NO
		International	17	International	NO
	Seminar / Conference/ Symposia attended	National	18	National 01	7
		International	19	International 03	NO

	Conference Proceedings		20	No	NO
	Consultancy		21	No	NO
(C) Patent	Applied		22	No	NO
	Published		23	No	NO
	Granted		24	No	NO
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	No	NO
(E) Any Other	Teaching /Extension /outreach activities		26	Yes	
	Responsibilities other than teaching		27	Yes	
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	Stated above
	Collaborations	National	29	National No	
		International	30	International No	

Details of Faculties	Name		1	Dr. RanjitSil	SHISHIR TIWARI
	Date of Joining		2	9/02/2010	09/02/2010
	Field of specialisation		3	Public Law	International law; Environmental Law
(A) Teaching Experi ence (in Years)	UG		4	18 Years	12
	PG, including PhD		5	8 Years	08
(B) Research activities	Basic Research		6		
	Applied Research		7		
	Action Research		8		
	Project Submitted		9		
	Ongoing Project		10		
	Research Paper in UGC care list journals	Group I	11		
		Group II	12		
	Books /Books chapters Published	Books	13	01	
		Book Chapters	14	03	
	Popular Articles (News Paper/ Magazines)		15		
	Seminar / Conference/ Symposia organized	National	16		
		International	17		
	Seminar / Conference/ Symposia attended	National	18		02
		International	19	01	
	Conference Proceedings		20		
	Consultancy		21		
(C) Patent	Applied		22		
	Published		23		
	Granted		24		
(D) EContent	MOOC/SWAYAM/ E-content developed		25		
(E) Any Other	Teaching /Extension /outreach activities		26		YES
	Responsibilities other than teaching		27		YES
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28		YES
	Collaborations	National	29		
		International	30		

## DEPARTMENT OF POLITICAL SCIENCE

**Head** : Prof. T. T. Haokip  
**Telephone** : Office 3035, Mobile 9436163164  
**E-mail** : hodpolsc@nehu.ac.in

### Faculty Profile:

Designation	Name and Qualification	Specialization
<b>Professor</b>	Dr. K. Debbarma, MPhil & PhD (NEHU)	Human Rights, Migration Politics in North East India, Development Administration.
	Dr. H. Srikanth, MPhil & PhD (University of Hyderabad)	Political Theory, Political Economy, Social Movements
	Dr.T. T. Haokip, MPhil & PhD (NEHU)	Foreign Policy, Public Administration, International Law & International Organisation, State Politics
	Dr.Susmita Sen Gupta, MPhil & PhD (NEHU)	Indian Politics, Indian Political Economy, Politics of North-East India
	Dr.Munmun Majumdar, MPhil & PhD (JNU)	South East Asian Studies, International Politics
<b>Associate Professor</b>	Dr.Biswajit K. Mohapatra, MPhil & PhD (JNU)	Politics & International Relations
<b>Assistant Professor</b>	Dr.Suparna Bhattacharjee, MPhil & PhD (JNU)	International Politics, East Asian Studies

### Thrust Areas of Research

Political Processes and Economic Changes in North-East India

### Brief Statement of Academic Activities and achievements:

Following the university's decision to start offline classes, the Department restores classroom teaching during this academic year. A total of 57 students were admitted to MA program in 2021. Apart from teaching MA students, the faculty also guides the PhD scholars and facilitates the submission and award of PhD degrees.

Currently, 44 research scholars are engaged in the PhD programmes of the Department. Apart from guiding research, the faculty has participated in different webinars, symposia and online workshops and published one book (International) and a few research articles. The Department has to engage guest faculty to administer the courses as there are only seven regular faculty members.

### Students' Profile

**Enrolment Capacity: M.A = 57, PhD = Depending on the availability of supervisors.**

### Enrolment of students from different States of India

MA	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
State(name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam				1					2	3			2	4
Arunachal pradesh			2	1									2	1
Manipur		1	1	3									1	4
Meghalaya	1	2	21	54						1	1		23	57
Mizoram			2	3									2	3
Nagaland			2	9									2	9
Tripura											1		1	
International														
Total													111	

PHD	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
ARUNACHAL PRADESH				1										1
ASSAM	1	5	3	1	1		1	1					6	7
MANIPUR			5	3									5	3
MEGHALAYA		1	8	2									8	3
NAGALAND			2	7									2	7
SIKKIM				1										1
WEST BENGAL		1												1
International														
Total													44	

## Degrees Awarded

### Degree: M.A. & Ph.D.

#### Degrees Awarded to students from different States of India

MA	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
ASSAM	1	1											1	1
ARUNACHAL PRADESH			1										1	
MANIPUR	1		2	5									3	5
MEGHALAYA		1	19	15									19	16
NAGALAND			3	3									3	3
Sub Total														
International														
Total													52	

PHD	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
MEGHALAYA			2										2	
MIZORAM		1												1
Sub Total														
International														
Total													3	

#### Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Ms. P. C. Lalthansiami	Transborder Migration: A Study of Chin Migrants in Mizoram	Prof. R. K. Satpathy
Mr. Sengat Agitchak Marak	Extremism in Garo Hills: A Study of A'Chik National Volunteers Council and Garo National Liberation Army	Prof. T. T. Haokip
Mr. V. D. Sangahiwt Rymbai	India-China Relations: It's Significance for Asian Economic Integration and Regional Security	Dr. B. K. Mohapatra

#### Research Fellowship

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	ICSSR



## **Courses Conducted**

### ***Postgraduate***

Semester I: Liberal Traditions in Western Political Theory  
Theories of International Politics  
Issues and Governance in Public Administration  
Indian Political System  
State Politics in India I

Semester II: Critical Traditions in Western Political Theory  
Problems of International Politics  
State Politics in India II  
East Asian Political systems  
International Law and International Organization

Semester III: Political Ideas in Indian Tradition  
Research Methodology I  
Globalization  
Human Rights  
Issues in Environmental Politics

Semester-IV: Development Administration  
Comparative Politics  
Research Methodology  
Political Sociology  
Indian Political Economy

***PhD Courses:*** Research Methodology  
Seminar Paper on Frontier of Knowledge in the relevant field. Advance Studies in International Politics & Environmental Politics.

### **Seminars/Conferences/Workshops/Symposia/ Extension Programmes (National/International):**

#### ***Symposia***

1. The Department of Political Science organized in collaboration with the Political Science Discussion Forum on "Peace and Development in North-East India: The AFSPA Factor" on 10th December 2021
2. The Department of Political Science organized in collaboration with the
3. Political Science Discussion Forum on "Understanding Russia-Ukraine Crisis: Implications for India", on March 14, 2022

#### ***Attended***

K. Debbarma, Attended and presented a paper on "Migration and Rights of Refugees", in the Two-Day Webinar on *Human Rights: A Multi-Pronged Response* held on 28 and 29 September

2021 organized by John Robert Theological College, Shillong

H. Srikanth, Chaired the session in the symposium organized by the Department on "Peace and Development in the Northeast: AFSPA Factor", on December 10, 2021.

H. Srikanth, Delivered a talk in the symposium organized by the Department on "Understanding Russia-Ukraine Crisis: Implications for India", on March 14, 2022.

Biswajit K Mohapatra : Contemporary India Canada Relations: Rebooting the Trade and Economic Relations' in the Int Seminar on Contemporary Dynamics of India Canada Relations at the Centre for Canadian Studies, Himachal Pradesh University, Shimla , March 2022 on 28th.

Biswajit K Mohapatra : CPEC and India's Neighbourhood- A Strategic Dilemma or A Way Forward and Chairing a session on "CPEC and South Asia ' in International Conference on China's Belt Road Initiatives: Regional and Global Implications, organized by Institute for Contemporary Chinese Studies (ICCS) In Association with School of International Relations and Politics, Mahatma Gandhi University, Kottayam, Kerala, India, on 2021 NOVEMBER 06, 2021.

Biswajit K Mohapatra : 'China's Rise as a Military Power: Policy Implications for the Indo-Pacific Region' at the 6th-INTERNATIONAL CONFERENCE ON VIETNAMESE STUDIES, ICVNS2021, being organized by Vietnam Academy of Social Science & Vietnam National University, Hanoi, Vietnam, on October 28 & 29th, 2021.

Biswajit K Mohapatra : United Nations and Global Security Challenges, on the occasion of United Nations Day, at Fazl Ali College, Nagaland, on October 23rd, 2021.

Biswajit K Mohapatra : 'India China Rivalry in South and South East Asia and the Emerging Contours of Post CoVID Regional Order', TWO-DAY NATIONAL CONFERENCE ON CHINA AND SOUTH ASIA & SOUTHEAST ASIA: IMPLICATIONS FOR INDIA, Guru Nanak Dev University( GNDU), Amritsar, August 28<sup>th</sup>, 2021.

Biswajit K Mohapatra : Gender Equality in South Asia, Global Conference on Localizing Sustainable Development Goals (SDGs), Theme: SDG-5 (Gender Equality)'organized by Global Forum For Sustainable Rural Development on June 26, 2021.

Suparna Bhattacharjee: A One Day National Webinar on New Education Policy 2020 on the Theme "NEP 2020: Opportunities & Challenges" organised by HRDC on 8th October, 2021.

### **International Seminar**

H. Srikanth: Presented a paper titled, 'Conceptualizing the Communities in Northeast India', in International Seminar on Safeguarding Tribal Identities: Concept and Implications', Synod College, Shillong, September 9-10, 2021

Biswajit K Mohapatra: 'China's Rise as a Military Power: Policy Implications for the Indo-Pacific Region' at the 6th-INTERNATIONAL CONFERENCE ON VIETNAMESE STUDIES, ICVNS2021, October 28 & 29th, 2021 being organized by Vietnam Academy of Social Science & Vietnam National University, Hanoi, Vietnam

### **Publications**

#### **Published in India:**

Debbarma, K. (2021). 'Migration and Rights of Refugees', *Indian Theological Journal*, 15 (1&2), June-December

Majumdar, Munmun, (2021). "Beijing Raising the Ante in the Natunas: The Next Flash Point in the South China Sea" *India Quarterly A journal of International affairs*. 77(3): 462-478

Majumdar, Munmun, (2021). "Myanmar and BRI Connect" *Journal of Kolkata Society For Asian studies An International Bilingual Journal of Social Science*, 7(1) : 129-145.

Bhattacharjee, S. (2022). Plagiarism-An Academic Theft? Understanding Plagiarism and Academic Integrity: assessing the issues and Challenges of Combating The Academic dishonesty. *The Heritage.*, XIII( 1):7-14

#### **(viii) Edited Books/Volumes.**

Srikanth, H. and Majumdar, Munmun. editors. (2021) *Linking India and Eastern Neighbours: Development in the Northeast and Borderlands*, Sage International, Los Angels, 978-93-91370-72-5

#### **(ix) Book Chapters.**

Srikanth, H. (2021) Who in Northeast India are Indigenous?, in *Indigeneity, Citizenship, and the State: Perspectives from India's Northeast*. Kikhi, Kedilezo et.al.(Eds.) Aakar Books., Chapter 2, pp. 46-61

Srikanth, H. and Majumdar, M. (2021) Introduction,' in *Linking India and Eastern Neighbours: Development in the Northeast and Borderlands*. Srikanth H and Majumdar M (eds), Sage International, Chapter 1, pp. xv-xxxix

Haokip, T. T. and Srikanth, H. (2021) 'Drug Trafficking in and through Myanmar and Manipur', in *Linking India and Eastern Neighbours: Development in the Northeast and Borderlands*. Srikanth H and Majumdar M. (eds),, Sage International, Chapter 15, pp. 233-243

Haokip, T. T. and Srikanth, H. (2021) 'Understanding the Kukis Opposition to Fencing of the Indo-Myanmar Border', in *Linking India and Eastern Neighbours: Development in the Northeast and Borderlands*. Srikanth H and Majumdar M. (eds), Sage International,, Chapter 16, pp. 244-261.

"The Northeast and Myanmar: India-Myanmar Engagement in the Modi Years", Srikanth,H Majumdar, Munmun. (eds), *Linking India and Eastern Neighbours Development in the Northeast and Borderlands*, Sage, 2021, pp.110-124.

Mohapatra, B. K. (2021) India-Vietnam Relations vis-à-vis China's Threat over South China Sea. In *India-Vietnam in the Indo-Pacific: China Factor*. G.Jayachandra Reddy (Ed.), ISBN: 978-93-91063-26-9, Narendra Publishing House, New Delhi , pp. 75-81

Mohapatra, B. K. (2021) Politics of Citizenship and the Indian Polity: The Citizenship Amendment Act, In *Citizenship, Illegal Immigration and Politics*, Muhindro (Ed.), ISBN: 978-93-91374-69-3, Adhyayan Books, New Delhi, pp. 484-498

Mohapatra, B. K. (2021) India-Vietnam Relations vis-à-vis China's Threat over South China Sea. In *India-Vietnam in the Indo-Pacific: China Factor*. G. Jayachandra Reddy (Ed.), ISBN: 978-93-91063-26-9, Narendra Publishing House, New Delhi, pp. 75-81

Mohapatra, B. K. (2022) India-Myanmar Relations: Contours and Challenges, In *Changing Dimensions of India's Foreign Policy*. Saroj Kumar Verma (Ed.), ISBN:978-93-92338-02-1, Victorious Publishers (India), Delhi, pp.175-188

Bhattacharjee, S. (2021) Tripura-Bangladesh Border Lands : Socio-economic significance of Border Haats. In *Linking India and Eastern Neighbours: Development in the Northeast and Borderlands*. Srikanth H and Majumdar M (eds), Sage International, Chapter 10, pp 151-165.

#### **(x)Proceedings of Seminar/Conferences.**

##### **(d) Published Abroad:**

##### **(v)Book Chapters.**

Sen Gupta, Susmita. (2022). Equity and ethnic politics in north-east India. In *Comprehending Equity: Contextualizing India's North-East*. K.

Kikhi and D.R. Gautam (Eds). Routledge, New York, South Asia edition, Chapter 5, pp.56-68

**(vi) Proceedings of Seminar/Conferences.**

Mohapatra, B. K. (2021), China's Rise as a Military Power Policy implication for the Indo Pacific Region. In Conference Proceedings of the 6th-INTERNATIONAL CONFERENCE ON VIETNAMESE STUDIES, ICVNS2021, 28-29 October 2021, Vietnam Academy of Social Science & Vietnam National University, Hanoi, Vietnam, 2021

**(c). Popular Articles (News Paper and Magazines)**

Srikanth H. (2021) "Border Disputes and Violence: Thinking beyond the Binaries", India forum, August 6, <https://www.theindiaforum.in/letters/border-disputes-and-violence-north-east-thinking-beyond-binaries>

Srikanth H. (2022) "Don't Pla with Naga Pride", The Indian Forum, January 7, <https://www.theindiaforum.in/letters/do-not-play-naga-pride>

Srikanth H. (2021) "NEP 2020 and Higher Education in the Northeast", The Shillong Times, September 18.

Srikanth H. (202). "Teacher's Day Reflections", The Shillong Times, September 9.

Srikanth H. (2021) "Is Monetization anothername of Privatization?", The Shillong Times, September 9.

Sen Gupta, Susmita (2022). Draupadi Murmu's candidature is a reflection of BJP's 'sab kasath sab kavikas'. *The Economic Times*, June 24.

Majumdar, Munmun.(2021) "An Enduring Friendship India and Southeast Asia Relations" The ASEAN, August-September, pp. 60-61.

**Funds Received during the current Year**

**(I) Bulk Grant to Department/Centre/Section etc. other than EMR grant**

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	1,60,000/- Department Allocation under Recurring Head of Account 1,40,000/- Capital Grant-in-Aid

**(J)EMR Research Projects to individual faculty members**

Title of Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of Investigator (PI/Co-PI)	Multi/Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Politics of Nationalities in North-East India (INR 1, 00,000)	Ongoing Book Project	Prof. Susmita Sen Gupta		UGC -SAP	NIL

**Other Activities**

**K. Debbarma**

1. Chair a Technical Session on One Day National Webinar on New Education Policy

2. 2020: Opportunities and Challenges, on 8<sup>th</sup> October 2021 organized by UGC-Human Resource Development Centre, NEHU, Shillong.

3. Delivered a Special Lecture on Equality – Reducing Inequalities, advancing human rights on the occasion of International Human Rights Day on 10<sup>th</sup> December 2021 at 10:00 am organized by Lady Keane College, Shillong.

4. Resource Person (Panelist) for Panel Discussion Cum Interactive Session on Peace and Development in North east India: AFSPA Factor on 10<sup>th</sup> December 2021 at 1:30 pm

organized by Political Science Research Scholars' Forum (PSRSF), NEHU, Shillong.

5. Panelist for Panel Discussion Cum Interactive Session on Understanding Russia-Ukraine Crisis: Implications for India, on 14<sup>th</sup> March 2022 at 1:30 pm organized by Political Science Research Scholars' Forum (PSRSF), NEHU, Shillong.

**T.T. Haokip**

1. Invited Talks: Contributions of Ambedkar to Indian Constitution at North Eastern Space Application Centre on 14<sup>th</sup> April 2021.

2. Panelist on "Peace and Development in North-East India: The AFSPA Factor" organised by the Political Science Discussion Forum at the Department of Political Science, NEHU on 10<sup>th</sup> December 2021.

## Susmita Sengupta

1. Member of the Editorial Board of ICSSR-NERC Journal, *Man and Society*

Biswajit K Mohapatra : Lectures delivered at Refresher Courses:

1. Artificial Intelligence and Democracy: A Game Changer for India?" on 13th January 2022 to the participants in the Two-Week Online Refresher Course in Current Studies, 12th - 24th January 2022 at UGC-HRDC, Guru Nanak Dev University, Amritsar, Punjab.
2. Globalization, Rise of New Media and National Security on 12th January 2022 in the Two-Week Online Refresher Course in Current Studies, 12th - 24th January 2022 at UGC-HRDC, Guru Nanak Dev University, Amritsar, Punjab.
3. Human Rights Education in India and the NorthEast ', at UGC sponsored 7th Faculty Induction Programme, organized by UGC HRDC, Dr.HarisinghGour University, (A Central University), Sagar, Madhya Pradesh, on 28th December 2021
4. Multiculturalism, Democratic Governance and Empowerment: Sharing India and Canada's Experiences, November 15<sup>th</sup>, 2021, 11.30AM-1.00PM in the "33rd ORIENTATION/FACULTY INDUCTION PROGRAMME", organized by UGC-HRDC, Mizoram University, Aizawl, Mizoram
5. "Gandhi Ji and Satyagraha" Departmental Lecture Series 2021, organized by Dept of Politics and International Relations, School of Humanities and Social Science, Central University of Jharkhand, Ranchi, November 2<sup>nd</sup> 2021
6. Multilateralism and the Emerging World Order, October 21st, 2021, 10.00AM-11.30AM in the Refresher Course in Political Science, organized by UGC-HRDC, Guru Nanak Dev University, Amritsar, Punjab
7. Ethnic Conflicts and Peace Accords in India's North East: Political Dynamics and Perspectives, October 21st, 2021, 12.00Noon-1.30PM in the Refresher Course in Political Science, organized by UGC-HRDC, Guru Nanak Dev University, Amritsar, Punjab
8. Ethnic Conflicts and Evolving Rights based Model for Conflict Resolution, 15 days Online

Workshop (FDP): Research Methodology Across Disciplines: Rethinking Ethnicity, Gender, and History During the Pandemic Time, organized by Dept of English, Bodoland University, August 26th, 2021

9. Ethnic Conflicts in North East India, 15 days Online Workshop (FDP): Research Methodology Across Disciplines: Rethinking Ethnicity, Gender, and History During the Pandemic Time, organized by Dept of English, Bodoland University, August 25th, 2021

10. Rewriting History, 15 days Online Workshop (FDP): Research Methodology Across Disciplines: Rethinking Ethnicity, Gender, and History During the Pandemic Time, organized by Dept of English, Bodoland University, August 24th, 2021

11. Rethinking Gender, 15 days Online Workshop (FDP): Research Methodology Across Disciplines: Rethinking Ethnicity, Gender, and History During the Pandemic Time, organized by Dept of English, Bodoland University, August 23rd, 2021

12. Rethinking Ethnicity, 15 days Online Workshop (FDP): Research Methodology Across Disciplines: Rethinking Ethnicity, Gender, and History During the Pandemic Time, organized by Dept of English, Bodoland University, August 20th, 2021

13. "The Centenary of Chinese Communist Party and China's Rise" at the Webinar on July 13<sup>th</sup>, 2021 organized by the Dept of Political Science & Public Administration, Annamalai University, Annamalai Nagar, Chidambaram, Tamil Nadu, India

14. Pandemic, Politics and The Emerging World Order, in the 'One Day Colloquium on Covid-19 Academics', on May 26th, 2021-Asia & Oceanic SRC, International Association for Political Science Students (IAPSS), Netherlands

## Suparna Bhattacharjee

1. Delivered a lecturer on Panel discussion on 'Russia-Ukraine Crisis : Implication for India' organised by the Political Science Discussion Forum (PSDF) and Political Science Research Discussion Forum (PSRSDf) on 14/03/2022 and the title of the lecture was "Russia-Ukraine Crisis : Three Dimension"

## SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	Name		1	K. Debbarma	H. Srikanth	T.T.Haokip
	Date of Joining		2	16.07.1990	07.05.2002	18.12.1996

	Field of specialisation		3	Human Rights, Migration Politics in North East India, Development Administration	Political Theory, Political Economy	Foreign Policy, Public Admn, International Law & Intl. Orga-nisation, State Politics
(A) Teaching Experience (in Years)	UG		4	1 year & 6 months		
	PG, including PhD		5	32 yrs	25 yrs	26 yrs
(B) Research activities	Basic Research		6		1	
	Applied Research		7			
	Action Research		8		2	
	Project Submitted		9			
	Ongoing Project		10			
	Research Paper in UGC care list journals	Group I	11			
		Group II	12	1		
	Books /Books chapters Published	Books	13		1	
		Book Chapters	14			2
	Popular Articles (News Paper/ Magazines)		15			
	Seminar / Conference/ Symposia organized	National	16			
		International	17			
	Seminar / Conference/ Symposia attended	National	18			
		International	19		1	
	Conference Proceedings		20			
	Consultancy		21			
(C) Patent	Applied		22			
	Published		23			
	Granted		24			
(D) E-Content	MOOC/SWAYAM/ E-content developed		25		Uploaded 10 youtube lectures	
(E) Any Other	Teaching /Extension /outreach activities		26			
	Responsibilities other than teaching		27	Dean School of Social Sciences		
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28			
	Collaborations	National	29			
		International	30			

Details of Faculties	Name		1	Susmita Sengupta	Munmun Majumdar
	Date of Joining		2	04.07. 1994	13.06. 2007
	Field of specialisation		3	Indian Politics, Indian Political Economy, Politics of North-East	South-East Asian studies and International Politics

				India	
(A) Teaching Experience (in Years)	UG		4	3 yrs	20 yrs
	PG, including PhD		5	28 yrs	15 yrs
(B) Research activities	Basic Research		6		
	Applied Research		7		
	Action Research		8		
	Project Submitted		9		
	Ongoing Project		10	1	
	Research Paper in UGC care list journals	Group I	11		3 scopus indexed and 3 UGC care listed
		Group II	12		
	Books /Books chapters Published	Books	13		
		Book Chapters	14	1	
	Popular Articles (News Paper/ Magazines)		15	1	
	Seminar / Conference/ Symposia organized	National	16		
		International	17		
	Seminar / Conference/ Symposia attended	National	18		
		International	19		
	Conference Proceedings		20		
	Consultancy		21		
(C) Patent	Applied		22		
	Published		23		
	Granted		24		
(D) E-Content	MOOC/SWAYAM/ E- content developed		25		
(E) Any Other	Teaching /Extension /outreach activities		26		
	Responsibilities other than teaching		27		
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	1	
	Collaborations	National	29		
		International	30		

Details of Faculties	Name		1	Biswajit K. Mohapatra	Suparna Bhattacharjee
	Date of Joining		2	16.01. 1997	30.01. 2006
	Field of specialisation		3	Politics & Int.Relations	International Politics
(A) Teaching Experience (in Years)	UG		4		
	PG, including PhD		5	25	23 yrs
(B)	Basic Research		6	20	
	Applied Research		7		
	Action Research		8		
	Project Submitted		9		
	Ongoing Project		10		SAP project
	Research Paper in UGC care list journals	Group I	11		1
		Group II	12		
	Books /Books chapters Published	Books	13		
		Book Chapters	14		
	Popular Articles (News		15		

Research activities	Paper/ Magazines)				
	Seminar / Conference/ Symposia organized	National	16		
		International	17		
	Seminar / Conference/ Symposia attended	National	18		
		International	19	1	
	Conference Proceedings		20	1	
(C) Patent	Consultancy		21		
	Applied		22		No
	Published		23	4 book chapters	
(D) E-Content	Granted		24		
	MOOC/SWAYAM/ E-content developed		25	One on India's Antartica Policy	No
(E) Any Other	Teaching /Extension /outreach activities		26		Yes
	Responsibilities other than teaching		27		Research guidance, Evaluation, Member of College Inspection teams, Supervision of SAP library, Members of various departmental Committees
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28		
	Collaborations	National	29		
		International	30		

## DEPARTMENT OF SOCIOLOGY

**Head** : Prof. D.V. Kumar  
**Telephone** : 03642723040  
**E-mail** : hodsoc@nehu.ac.in

### Faculty Profile:

Designation	Name and Qualification	Specialization
Professor	Dr. D. V. Kumar, M. Phil., Ph.D. (JNU)	Modernization, Ethnicity and Social Change
	Dr. B. Panda. M.Phil. (University of Hyderabad), Ph. D. (IIT/ Kanpur)	Sociology of Third Sector, Sociology of Development, Migration
	Dr. Rekha M. Shangpliang, M. Phil., Ph.D. (NEHU)	Sociology of Environment, Sociology of Gender
Assistant Professor	Md Yusuf Khan, M.A. (AMU), M. Phil (DU)	Ethnicity, Urban Sociology, Migration

**Thrust Areas of Research:** Social Change is the main thrust area of the Department. It is concentrating in understanding the changes taking place in the societies of the region.

**Brief Statement of Academic Activities and achievements:** The faculty of the Department has been actively carrying out various academic activities. Apart from teaching, the faculty members have published their research work in form of book and research papers. They have also contributed articles in the newspaper and e-magazine on issues of contemporary relevance. They have presented their research papers in seminars and conferences. The Department has taken initiatives to plant saplings of various kinds in the vicinity of the Department.

### Students' Profile

**Enrolment Capacity: M.A. 53 PhD – Variable**

#### Enrolment of students from different States of India and Abroad

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	2			1					1				2	2
Manipur			3	7			1						3	8
Meghalaya	1	1	2	26									3	27
Mizoram			1	3									1	3
Nagaland				1										1
Tripura				2										2
Sub Total													9	43
International	1													
Total													53	

### Degrees Awarded

**Degree: M.A.**

#### Degrees Awarded to students from different States of India and Abroad

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
MA														
Arunachal Pradesh				3										3
Assam		2												2
Manipur				5										5
Meghalaya			2	32									2	32
Mizoram				2										2
Nagaland			1	3									1	3



Sub Total														
International														
Total													50	

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
PH.D.				1										
Meghalaya				1										
Total													1	

### Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Ms. Davina Diengdoh Ropmay	“A Sociological Study of Marriage Among the Khasis of Meghalaya	Prof. Rekha M. Shangpliang

### Research Fellowship

CSIR- UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others
1	2	-	-	-	-

#### Courses Conducted: *Postgraduate*

**Semester-I:** Sociological Theories – I, Methodology of Social Research – I, Sociology of Family and Kinship, Indian Society – I, Indian Society – II

**Semester-II:** Sociological Theories – I, Methodology of Social Research – II, Sociology of Religion, Indian Society – III, Open Course – (Ethnic Relations)

**Semester-III:** Economy and Society, Political Sociology, Sociology of Development, Open Course – (Sociology of Gender), Open Course – (Urban Sociology)

**Semester-IV:** Social Change, Sociology of Environment, Tribal Movements in India, Sociology of Organisations, Sociology of Development- II

#### **Ph.D. Courses**

Designing Sociological Research, Sociological Concepts, Advanced Sociological Theory

#### **Seminars/Conferences/Workshops/Symposia/ Extension Programmes (National/International):**

##### **Organized**

Organized a National Webinar on *Migration and Development in India* on 24<sup>th</sup> -25<sup>th</sup> November, 2021. Convener - Md. Yusuf Khan

Organized a *cleaning drive cum tree plantation programme* at the *Law Adong* (Protected Forest) located near the Department on the 22<sup>nd</sup> of February 2022 to commemorate the death anniversary of former colleague (L) Prof. A.K

Nongkynrih. Convener – Prof. R. M. Shangpliang

##### **Attended**

Prof. D. V. Kumar

Presented a paper “Interrogating the challenges of a University”, paper presented in an international Conference on *Higher Education in India: Opportunities and, Challenges and Solutions* organised by the Department of Sociology, Kakatiya University and P. V. Narasimha Rao Knowledge Centre, Kakatiya University, Warrangal on March 20 and 21, 2022.

Presented a paper “NEP: A critical Interrogation” on 14<sup>th</sup> September, 2021 in a one-day national level panel discussion on *National Educational Policy 2020* which was jointly organized by the North-Eastern Hill University Teachers’ Association (NEHUTA) and the Department of Education, NEHU, Shillong

Prof. B. Panda

Presented a paper “Theoretical Frameworks and Perspectives on Migration” at National Webinar on Migration and Development in India on 24.11.2021 organized by Department of Sociology, NEHU, Shillong during 24<sup>th</sup> -25<sup>th</sup> November, 2021.

Prof. R. M. Shangpliang

Presented a paper “Covid 19 through a gendered lens” in an International E-Conference on the theme *Changing Narratives in the Learning Curves Peri-Pandemic* organized by St. Joseph’s

College, Jakhama, Nagaland during 10<sup>th</sup>- 11<sup>th</sup> September, 2021.

Presented a paper “Meghalaya and the Covid-19 crisis” at a webinar on the theme ‘*A Retrospection into Meghalaya’s 50 years journey of Statehood*’ organized by the Centre for Historical Research Synod College (CHRSC) in collaboration with the Department of Arts and Culture, Government of Meghalaya on the 21<sup>st</sup> of October, 2021.

Presented a paper “Globalization in India through a gendered lens” at a national webinar on the theme ‘*Celebrating India at 75*’ organized by Synod College in collaboration with the Department of Arts and Culture, Government of Meghalaya on the 27<sup>th</sup> of May, 2021.

Presented a paper “Migration through a gendered lens” at a National Seminar “Migration and Development in India” organized by the Department of Sociology, NEHU during 24<sup>th</sup> - 25<sup>th</sup> November 2021.

Md. Yusuf Khan

Presented a paper “Pangal migrants and informal sector in Imphal” in the National Webinar on *Migration and Development in India* held on 24<sup>th</sup> November, 2021 organized by the Department of Sociology, NEHU, Shillong during 24<sup>th</sup>-25<sup>th</sup> November, 2021.

## **Publications**

### ***Published in India:***

Edilbert, O. S. and Panda, B. (2021) Contributions of Voluntary Organisations to the Domain of Development in Meghalaya: An Empirical Explorations. *The Eastern Anthropologist*, Vol. 74 (4): 471-483.

Khan, Md. Yusuf. (2021). Plight of Pangal migrants in informal sector in Imphal. *International Journal of Research in Social Sciences*, ISSN: 2249-2496, Vol.11 (12): 70-79.

## **ii. Edited Books/Volumes.**

### **(xi) Book Chapters.**

Shangpliang, Rekha. (2021). Forest and Tribal Life with special reference to the Khasis. In. *The Cultural Heritage of Meghalaya*. Queenbala Marak and Sarit K Chaudhuri. (Eds.) Manohar Publishers, New Delhi. Chapter 28, pp. 537-554.

### **Published Abroad:**

Kumar, D. V. (Ed.) (2021). *The Idea of a University: Possibilities and Contestations*. Routledge: London ISBN: 978-0-367-54288 -7.

Kumar, D. V. (2021). The Challenges that a University confronts in India. In *The Idea of a University: Possibilities and Contestations*. D. V. Kumar (Ed.) Routledge: London, Chapter 5 (86-94).

### **(c). Popular Articles (News Paper and Magazines)**

Kumar D.V. (2021). *Present global ranking of universities problematic*, The Shillong Times, 12<sup>th</sup> June.

Shangpliang, R. M. (2021). *Environment Vs Development: The debate rages on*, East India Story (e-magazine) 17<sup>th</sup> July.

## **Funds Received during the current Year**

### **(K) Bulk Grant to Department/Centre/Section etc. other than EMR grant**

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	1.4
02	UGC (SAP, CAS, Seminar etc.)	
03	DST (FIST, PURSE, Seminar etc.)	
04	NEC (program name)	
05	Others	

## **Other Activities**

### **Prof. B. Panda**

Delivered a lecture on ‘Research Design’ on 17.9.2021 at Online 5days National Workshop on “**Research Methodology in Social Science**” organized by Ramthakur College, Agartala, Tripura from 14<sup>th</sup> to 18<sup>th</sup> September 2021.

Chaired two technical sessions (technical session II and technical session V) at National Webinar on *Migration and Development in India* on

24.11.2021 and 15.11.2021 organized by Department of Sociology, NEHU, Shillong.

Delivered a lecture in the Department of Sociology, University of Science and Technology, Meghalaya in the Induction Programme on 8<sup>th</sup> of December, 2021.

Life membership in North-East India Sociological Association.

**Prof. R.M.Shangpliang**

Delivered a lecture on *Ka pnehjong ka longkur-longkha U Khasi* at the Refresher Course organized by HRDC (NEHU) at the Department of Khasi, NEHU on 20<sup>th</sup> November, 2021.

Delivered a lecture on *Ki kynthei bad ka mariang* at the Refresher Course organized by HRDC (NEHU) at the Department of Khasi, NEHU on 27<sup>th</sup> November, 2021.

Delivered a lecture on “Eco-Feminism-Revisiting Feminist Ideology” at the inaugural session of National Webinar on ‘Gender and Society in contemporary India – Issues and Prospects’ organized by Department of Sociology, Sankardev College, Shillong on the 9<sup>th</sup> and 10<sup>th</sup> December, 2021

Delivered an online lecture on "Eco-Feminism: Revisiting the Feminist Ideology" at Department of Sociology, St. Mary's College, on World Environment Day, 5th June 2021.

Delivered a lecture on “Forest and Tribal Life with special reference to the Khasis” at Department of Sociology St. Edmund’s College on the 30<sup>th</sup> of September 2021.

Delivered a lecture on “Matrilineal Kinship System in North East India-with reference to the Khasi” on 16<sup>th</sup> September 2021, at Don Bosco College, Nagaland.

Delivered a lecture on “Gender Inequality” at Shillong College, on 26<sup>th</sup> March 2022.

Chaired a session in a four days online Capacity Building and Personality Development Program (PDP) for UG and PG female students of Meghalaya organized by School of Humanities, NEHU, Shillong, sponsored by National Commission for Women (NCW), New Delhi on 22<sup>nd</sup> November, 2021.

Was invited as a judge at the English Lori competition organized by the Research Scholars Forum (RSF) NEHU on 23<sup>rd</sup> February, 2022

Was invited as a judge at the online Poetry competition “Unsung Heroes of the North East” organized by NEHU under the *Azadi Ka Amrit Mahotsav* on the 24<sup>th</sup> of January, 2021.

Was invited as a judge at the Mock tel competition 47<sup>th</sup> Annual Cultural Competition organized by the Ramakrishna Mission, Shillong on the 28<sup>th</sup> of July 2021

**SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022**

Details of Faculties	Name		1	D. V. Kumar	B. Panda
	Date of Joining		2	15th February, 1990	30th April, 2002
	Field of specialisation		3	Modernization, Ethnicity and Social Change	Sociology of Third Sector, Sociology of Development, Migration
(A) Teaching Experience (in Years)	UG		4	11	
	PG, including PhD		5	16	20
(B) Research activities	Basic Research		6	Yes	Yes
	Applied Research		7	Yes	Yes
	Action Research		8		
	Project Submitted		9		
	Ongoing Project		10		
	Research Paper in UGC care list journals	Group I	11		
		Group II	12		1
	Books /Books chapters Published	Books	13	1	
		Book Chapters	14	1	
	Popular Articles (News Paper/ Magazines)		15	1	
	Seminar / Conference/ Symposia organized	National	16		
		International	17		
	Seminar / Conference/ Symposia attended	National	18	1	1
		International	19	1	

	Conference Proceedings		20		
	Consultancy		21		
(C) Patent	Applied		22		
	Published		23		
	Granted		24		
(D) E-Content	MOOC/SWAYAM/ E-content developed		25		
(E) Any Other	Teaching /Extension /outreach activities		26		
	Responsibilities other than teaching		27	Yes	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28		1
	Collaborations	National	29		
		International	30		

Details of Faculties	Name		1	Rekha M. Shangpliang	Md. Yusuf Khan
	Date of Joining		2	2nd June 2003	2nd July 2012
	Field of specialisation		3	Gender, Environment, Family and Kinship	Urban Sociology, Ethnicity
(A) Teaching Experience (in Years)	UG		4	8	
	PG, including PhD		5	14	10
(B) Research activities	Basic Research		6	Yes	Yes
	Applied Research		7	Yes	Yes
	Action Research		8		
	Project Submitted		9		
	Ongoing Project		10		
	Research Paper in UGC care list journals	Group I	11		
		Group II	12		
	Books /Books chapters Published	Books	13		
		Book Chapters	14	1	
	Popular Articles (News Paper/ Magazines)		15	1	
	Seminar / Conference/ Symposia organized	National	16		1
		International	17		
	Seminar / Conference/ Symposia attended	National	18	1	
		International	19		
(C) Patent	Conference Proceedings		20		
	Consultancy		21		
	Applied		22		
	Published		23		
	Granted		24		

(D) E-Content	MOOC/SWAYAM / E-content developed		25		
(E) Any Other	Teaching /Extension /outreach activities		26		
	Responsibilities other than teaching		27	Yes	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28		
	Collaborations	National	29	National	
		International	30	International	

## VIII

### SCHOOL OF TECHNOLOGY

**Dean** : Prof. Lairenlakpam Joyprakash Singh  
**Telephone** : (0364) 2723602  
**E-mail** : deanst@nehu.ac.in

#### 1. Vision and Mission of the School:

##### Vision

To be a leader among educational institutions by building a tradition of innovation, problem-solving and interdisciplinary collaboration to meet the changing needs of society.

##### Mission

We believe that education should be both broad and useful, enabling students to participate in “the humane culture of the community” and to discover and apply knowledge for the benefit of society. Emphasis on “learning by doing”, and on the value of useful knowledge, shall be at the heart of the School’s educational mission.

The mission of the School is to advance knowledge and educate students in science, technology and other areas of scholarship that will best serve the nation and the world in the 21<sup>st</sup> century.

The School shall be committed to generating, disseminating and preserving knowledge, and to working with others to bring this knowledge to bear on the world’s great challenges. It shall be dedicated to providing its students with an education that combines rigorous academic study and the excitement of discovery with the support and intellectual stimulation of a diverse campus community. Developing in each member of the School the ability and passion for working wisely, creatively and effectively for the betterment of humankind is expected.

#### 2. Name of the Departments/Centres under the School:

Sl. No.	Name of the Department/Centre
1	Architecture
2	Biomedical Engineering
3	Basic Sciences and Social Sciences
4	Computer Application
5	Electronics and Communication Engineering
6	Energy Engineering
7	Information Technology
8	Nanotechnology

#### 3. Salient Data of the School

Total No. of Students awarded Ph.D. Degree	11
Total No. of Research Publications	109
National	7
International	102
Total No. of Books, Book Chapters, and Proceedings	77
National	6
International	71
Total No. of Research Projects (Fund Received in Lakhs)	11 (Rs. 117.32 Lakhs)
Completed	3 (Rs. 53.82 Lakhs)
Ongoing	8 (Rs. 63.5 Lakhs)
Total No. of Consultancy Projects (Fund Received in Lakhs)	2 (Rs. 9.008 Lakhs)
National	2 (Rs. 9.008 Lakhs)
Total No. of Students Placed/Selected for Higher Studies	21

#### 4. Total No. of Patents: 32

Patent(s) Filed	Patent(s) Published	Patent(s) Granted	
National	National	National	International
4	6	16	6

## 5. Major Achievements/Highlights during the period (such as International Funding/Collaborations, International/National Awards):

- a. Dr. A. Sinha received the Best Paper award in Technical Session-9 of the 2021 International Conference on Computational Performance Evaluation (ComPE), organized by the Department of Biomedical Engineering, NEHU, Shillong, from 1st to 3rd December 2021.
- b. Dr. J. Dutta received
  - i. A India Top Cited Paper Award 2021, Institute of Physics, UK.
  - ii. Selected Associate of Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune, India, from August 1, 2021, till July 31, 2024.
  - iii. Received International grant (jointly with Laur Järv, Institute of Physics, University of Tartu, Estonia) Erasmus+ (EuRopean Community Action Scheme for the Mobility of University Students) grant 2020 (until 31.07.2023)
- c. Dr. Samrat Paul has
  - i. National collaborations with
    - a) Prof. S. K. Samdarshi, Centre of Energy Engineering, Central University of Jharkhand, Ranchi, AREA OF COLLABORATION *Characterization of Photoactive Nanoparticles for Photocatalytic Activity*
    - b) Prof. B. Ghosh, School of Energy Studies, Jadavpur University, WB, AREA OF COLLABORATION *Characterization of Perovskite Materials for Solar Cell Application*
    - c) Prof. R. Kataki, Department of Energy, Tezpur University, Assam, AREA OF COLLABORATION *Production of Biofuels from Locally available Pinewood*
    - d) Dr. R. G. Nair, Department of Physics, NIT Silchar, Assam, AREA OF COLLABORATION *Characterization of Perovskite Materials for Solar Cell Application*
  - ii. International collaborations with
    - a) Prof. Alberto Tagliaferro, Applied Science and Technology, University of Politecnico di Torino, Torino, Italy, AREA OF COLLABORATION: *Effect of Mixed Phase Titania on Active Layer of DSSC*
    - b) Dr. Praveen Jagdale, Applied Science and Technology, University of Politecnico di Torino, Torino, Italy, AREA OF COLLABORATION: *Effect of Mixed Phase Titania on Active Layer of DSSC*
- d. Dr. A. K. Maji has
  - i. Been elated to Senior Member of IEEE, USA
  - ii. Been selected as a member of the Project Review and Steering Group (PRSG) for the project on “Design and deployment of IoT based hydroponics system for Agri-research in North East Region”, Ministry of Electronics and Information Technology (MeitY), Govt. of India vide OM No. 26(3)/2019-ESDA dated 13<sup>th</sup> August 2021
  - iii. International collaborations with
    - a) Michal Jasiński of Wroclaw University of Science and Technology, Poland and published a few research papers.

## 6. Future Plans

School proposed to amend OA 2 *on the establishment of Departments* for the inclusion of Electrical Engineering, a core engineering branch other than Civil and Mechanical engineering streams; all yet to be established for strengthening the teaching of existing engineering branches as well as core engineering studies under phase – II of the School DPR.

## DEPARTMENT OF ARCHITECTURE

Head: Mr. Banbhalang Swer

Telephone: 0364-2724103/8794741771

E-mail: banbha13@gmail.com/bswer@nehu.ac.in

### Faculty Profile:

Designation	Name and Qualification	Specialization
Assistant Professor	Ar. Banbhalang Swer, M. Arch. (SPA, Delhi) PG Diploma in Urban Planning and Development, IGNOU	Urban Design Urban Planning
	Ar. Ibynta Bakmen Tiewsoh, Master in Design (IIT Bombay)	Product Design
	Ar. Rameez Raja Gazi, Master in Landscape Architecture (SPA, Delhi)	Landscape Design

### Thrust Areas of Research

Architecture, Urban Planning & Urban Design

### Brief Statement of Academic Activities and achievements:

The Department of Architecture during the Academic year 2021-2022 has focused mainly on the B. Arch. Programme and activities like workshop, academic collaboration with renowned institutions in conducting joint studio exercise and webinars. The faculty members participated in online SWAYAM courses, refresher courses, conferences and webinars.

### Students' Profile

**Enrolment Capacity: B. Arch.: 30**

### Enrolment of students from different States of India and Abroad

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	4	8	2										6	8
Jharkhand			1										1	
Meghalaya		2	4	8									4	10
West Bengal					1								1	
Sub Total	4	10	7	8	1								12	18
Total	14		15		1								30	

### Degrees Awarded

**Degree: B. Arch.**

### Degree Awarded to students from different States of India and Abroad (2016 Batch)

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	3	8		2									3	10
Meghalaya		1	5	6									5	7
Nagaland			1										1	
Sub Total	3	9	6	8									9	17
Total	12		14										26	

### Students selected for Higher Studies:

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
Hemanga Pratim Bordoloi	MBA-CPM (Construction and project management)	RICS school of built environment, Amity University, NOIDA, UP	INDIA
Jubin Kashyap	M.Arch.- Urban Design	University School of Architecture and Planning, GGSIPU, N. Delhi	INDIA

### Publications



**(e) Published in India:**

**Banbhalang Swer**

(1) Swer, B, Mipun, B. S. (2022). Identifying suitable site for urban development using multi criteria decision making model {analytic hierarchy process (ahp)}: case of Shillong and its agglomeration area, stochastic modeling & applications, *Special Issue on Recent Research on Management, Applied Sciences and Technology*, 26 (3), 671 (ISSN: 0972-3641 UGC CARE APPROVED JOURNAL).

**(ii) Book Chapter**

**Banbhalang Swer**

Swer, B., Ranee, R. D., (2021). Understanding and analyzing the existing status of river systems in Greater Shillong Planning Area (GSPA): Its impact and future implications on the environment. *Understanding Water Crisis*, Lakshmi Publishers & distributors New Delhi, India, Chapter 9, pp. 107-116. ISBN: 978-93-82120-41-4 (H.B.)

**Ibynta B. Tiewsoh**

Tiewsoh, I.B. (2021). Design and Innovation in Independent India. In *Celebrating India at 75*. D. A. Kharchandy and L.L. Buam (Eds.). Winshield Press, New Delhi. Chapter 20, pp. 189 – 196.

**R.R. Gazi**

Gazi, R.R. (2021). Water Budgeting and Management for Sustainable Landscape. In *Understanding Water Crisis*. D.A. Kharchandy and K. Nongrum (Eds.). Lakshmi Publishers & Distributors, New Delhi, Chapter 12, pp. 317-331. ISBN: 978-93-82120-41-4 (H.B.).

**IPR Items:**

**(d) Consultancy:**

Title of Consultancy Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of the Consultant	Multi/ Single Institute (Tenure)	Funding Agency	Fund received by NEHU (in Lakhs)
Designing of Farmers Training Centre cum Hostel, District training Officer, Upper Shillong, East-Khasi Hills District. Meghalaya. (Project Cost: 750 Lakh, Fees: 12 Lakh)	On-going	Mr. B Swer	Single Institute (48 months from February 2019 to March 2023)	Government of Meghalaya	to be released in the next financial year

**Funds Received during the current Year**

**(L) Bulk Grant to the Department other than the EMR grant**

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	2.0
02	UGC	7.0

**Honours/Awards/Recognition/Membership/Fellowship**

**Ibynta B. Tiewsoh**

1. Appointed as Co-convenor and Life Member of the Indian National Trust for Art and Cultural Heritage (INTACH Meghalaya Chapter)
2. Expert member, Tribal Research Institute, Government of Meghalaya.
3. Life Member, International Council on Monuments and Sites (ICOMOS)
4. Treasurer and Executive Member, Meghalaya Architects Forum (MAF)
5. Registered Architect with the Council of Architecture

**Other Activities**

**Ibynta B. Tiewsoh**

1. Invited to deliver two talks via online mode to the students at the School of Engineering and Design, Technical University Munich (TUM) on the topics ‘Shillong City Morphology’ and ‘Traditional Khasi Architecture’ on the 27th of October 2021.

#### SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	Name		1	Banbhalang Swer	Ibynta Bakmen Tiewsoh	Rameez Raja Gazi
	Date of Joining		2	05.04.2013	08.04.2013	10.04.2013
	Field of specialisation		3	Urban Design and Planning	Product Design	Landscape Architecture
(A) Teaching Experience (in Years)	UG		4	9	9	9
	PG, including PhD		5	N.A.	No	No
(B) Research activities	Basic Research		6	N.A.	No	No
	Applied Research		7	N.A.	No	No
	Action Research		8	N.A.	No	No
	Project Submitted		9	N.A.	No	No
	Ongoing Project		10	N.A.	No	No
	Research Paper in UGC care list journals	Group I	11	1	Nil	Nil
		Group II	12	Nil	Nil	Nil
	Books /Books chapters Published	Books	13	Nil	Nil	Nil
		Book Chapters	14	1	1	1
	Popular Articles (News Paper/ Magazines)		15	Nil	Nil	Nil
	Seminar / Conference/ Symposia organized	National	16	Nil	Nil	Nil
		International	17	Nil	Nil	Nil
	Seminar / Conference/ Symposia attended	National	18	Nil	Nil	Nil
		International	19	Nil	Nil	Nil
	Conference Proceedings		20	Nil	Nil	Nil
	Consultancy		21	1no	No	No
(C) Patent	Applied		22	N.A.	Nil	Nil
	Published		23	N.A.	Nil	Nil
	Granted		24	N.A.	Nil	Nil
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	N.A.	Nil	Nil
(E) Any Other	Teaching /Extension /outreach activities		26	N.A.	Nil	Nil
	Responsibilities other than teaching		27	Teacher In-charge of the Dept. of Architecture	Assistant Registrar In-Charge of Examination Department, NEHU	Nil
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	Nil	Yes	Nil
	Collaborations	National	29	Nil	Nil	Nil
		International	30	Nil	Yes	Nil

## DEPARTMENT OF BASIC SCIENCES & SOCIAL SCIENCES

**Head** : Prof. M. M. Singh  
**Telephone** : 0364-2723641/42 (o) / 9436307663 (Mob.)  
**E-mail** : [hodbss@nehu.ac.in](mailto:hodbss@nehu.ac.in)

### Faculty profile: 13

Designation	Name and Qualification	Specialization
Professor	1. Dr. M.M. Singh; M.Sc. (Bh.U), Ph.D. (PU)	Mathematics (Number Theory, Algebraic Number Theory, Graph Theory, Cryptography, Numerical Analysis, Discrete Mathematics)
Associate Professor	1. Dr. A. Sinha; M.Sc. (LU), Ph.D. (NEHU)	Chemistry (Surfactant-Solute Interaction in Aqueous Phase)
	2. Dr. Phrangstone Khongji; M.Sc. & Ph.D. (NEHU)	Statistics (Sample Survey, Stochastic Processes Demography)
	3. Dr. Krishna Upadhaya; M.Sc. & Ph.D. (NEHU)	Botany (Plant Ecology)
	4. Dr. Hiranjit Choudhury; M.Sc. & Ph.D. (NEHU)	Botany (Plant Biotechnology)
	5. Dr. (Mrs.) Jyoti Narayan; M.Phil. & Ph.D. (KU)	Chemistry (Nanoscience and Nanotechnology)
	6. Dr. Jibitesh Dutta; M.Sc. & Ph.D. (NEHU)	Applied Mathematics( Dynamical Systems, Modified Gravity, Cosmological Perturbation theory, Applications of graph theory)
Assistant Professor	1. Dr. Sainkupar M.N. Mawiong; M.Phil. & Ph.D. (NEHU)	Mathematics (Topology, Dynamical Systems and Graph Theory)
	2. Dr. Regenel S. Kharwanlang; M.Sc. & Ph.D. (NEHU)	Physics (Condensed matter Physics, Statistical physics)
	3. Dr. R. S. Singh; M.Sc. (Jadavpur University), Ph.D. (CSIR-Indian Institute of Chemical Technology)	Chemistry (Organic synthesis, Organic materials)
	4. Dr. M. Mahato; M.Sc. (Burdwan University), Ph.D. (Calcutta University)	Physics (Experimental Nanophysics/Material Science)
	5. Dr. Munshi Ram; M.Com. (VBSPU), Ph.D. (BHU)	Commerce- HRM (Human Resource Management)
	6. Smt. Evapynhun Giri; M.A. & M.Phil. (NEHU)	English

### Thrust Areas of Research:

The thrust areas of research of the Department of Basic Sciences & Social Sciences are the fields of Basic & Applied Mathematics, Basic & Applied Physics, Atmospheric Sciences, Chemical Sciences, Nanoscience and Nanotechnology, Basic Environmental Sciences, Biotechnology, Commerce, Basic & Applied Economics, Applied Statistics, and Communicative English, with emphasis on interdisciplinary and multidisciplinary studies.

### Brief Statement of Academic Activities

The Department of BSSS is not offering any course of study as such. However, the teachers of the Department are teaching the core courses of Basic Sciences, Humanities and Social Sciences which appear in the B. Tech curricula of ECE, IT, BME and ENE of the School of Technology.

In addition, the members of the Faculty are engaged in the research activity in their respective areas of interest as well as in the interdisciplinary and multidisciplinary areas.

**Students' Profile:****Enrolment Capacity:** Ph.D: (Variable)**Enrolment of students from different States of India and Abroad: Ph.D.\***

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Sub Total	0	1	0	0	0	0	0	0	0	0	0	0	0	1
International	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1		0		0		0		0		0		1	

\* the admission shown is in the Dept. of Basic Sciences and Social Sciences while the rest are done in the parent subject Departments of the University

**Courses conducted during the year:****B.Tech. course**

The core courses pertaining to Sciences, Humanities and Commerce, Economics are taught for the B. Tech. departments/disciplines of Electronics & Communication Engineering, Information Technology, Bio-medical Engineering, and Energy Engineering, in the School of Technology. The details of the courses conducted are as below:

*Semester I & II*

Professional Communication Skills, Digital English Language Laboratory, Engineering Mathematics I, Engineering Physics, Engineering Physics Laboratory, Engineering Mechanics, Basic Electrical Engineering, Basic Electrical Laboratory, Electronics Laboratory, Elements of Environmental Sciences, Engineering Mathematics II, Engineering Chemistry, Engineering Chemistry Laboratory, Computer Systems and Programming, Computer Programming Laboratory, Basic Electronics, Basic Electronics Laboratory and Engineering Graphics for ECE, IT BME and ENE.

*Semester III*

Engineering Economics and Financial Accounting (for IT).

*Semester IV*

Statistics and Random Processes, for ECE, IT and BME.

*Semester VI*

Engineering Economics and Accountancy (for IT), Industrial Management and Entrepreneurship (for ENE)

*Semester VII*

Fundamentals of Biotechnology (for ECE), Business Management (for ECE), Industrial Economics and management (for BME)

**PG: M.Sc. Courses**

The faculties of the Department also imparted instructions pertaining to the papers of the PG courses in the Departments of Environmental Studies, Biotechnology & Bio-informatics, Mathematics & Statistics.

**Ph.D. Courses**

Ph.D. courses in the post graduate departments of Biotechnology & Bioinformatics, Environmental Studies, Physics, Mathematics and Statistics.

**Seminars/ Conferences/ Symposia/ Extension Programmes****(National/ International):***Attended*

**Dr. M. M. Singh** presented a paper on

1. 'Domination number of Von Neumann regular graphs of rings' presented in the two day *International Conference on Recent Trends in Modern Mathematics (RTMM-2021)* organized by the PG & Research Department of Mathematics, St. John's College, Palayamkottai, on 23<sup>rd</sup> & 24<sup>th</sup> of September, 2021.

2. Delivered an invited lecture titled 'The Origin and Evolution of Calculus' in the Webinar on "Popularising Mathematics" at the Department of Mathematics, St. Mary's College, Shillong held on 29<sup>th</sup> November, 2021.

3. Delivered an invited lecture on 'Group of Signed Quadratic Residues & its Applications to Cryptography' in *International Conference on Nonlinear Applied Analysis & Optimizations* organized by Department of Mathematical Sciences, IIT(BHU), Varanasi, during 21<sup>st</sup> -23<sup>rd</sup> December, 2021.

**Dr. A. Sinha** presented papers on

1. Science & technology innovations: contribution to societal development. *Aseem Sinha. In the Webinar on Science Technology Innovation Institutions at State Level*, organized

by State Council of Science Technology and Environment, Meghalaya, Shillong on 29<sup>th</sup> September, 2021.

2. Virtual teaching-learning in science & technology: Challenge and preparedness *Aseem Sinha. In the 2-Day International Conference on Continuous Professional Development of Teachers in Digital World*, organized by Department of Education, NEHU, Shillong and Department of Philosophy, Moran College, Moranhat (Assam) on 7<sup>th</sup> September, 2021.

3. Designing of a large scale automated composite book sanitizer machine. *Aseem Sinha. In the 2021 International Conference on Computational Performance Evaluation (ComPE)*, organized by Department of Biomedical Engineering, NEHU, Shillong, on 1<sup>st</sup> - 3<sup>rd</sup> December, 2021.

#### **Dr. P. Khongji**

Delivered an invited lecture on “Recent advancements in Mathematics and Statistics”, Organised by the departments of Mathematics and Statistics, Sankardev College, Shillong on 6<sup>th</sup> Nov, 2021.

#### **Dr. H. Choudhury**

1. Presented a research paper entitled “Development of an effective sterilization procedure for exposed seeds from the dehiscent capsule using centrifugation method and successful asymbiotic seed germination in *Phaius tankervilleae* (Banks ex L’Herit) Bl.” on 8<sup>th</sup> April 2022 in the International Conference on Novel Approaches in Life Sciences jointly organized by the Botany Department and IQAC, Guru Nanak Khalsa College of Arts, Science & Commerce (Autonomous), Matunga, Mumbai, and sponsored by RUSA held during 8-9<sup>th</sup> April, 2022.

2. Presented a research paper entitled “Orchid diversity in community managed subtropical forests in Khasi Hills of Meghalaya, Northeast India” on 9<sup>th</sup> April 2022 in the International Conference on Novel Approaches in Life Sciences jointly organized by the Botany Department and IQAC, Guru Nanak Khalsa College of Arts, Science & Commerce (Autonomous), Matunga, Mumbai, and sponsored by RUSA held during 8-9<sup>th</sup> April, 2022.

#### **Dr. J. Dutta**

1. Delivered an invited talk on “Dynamical System in Cosmology” in the “*Lecture Series on Differential Geometry, General Relativity and Cosmology*” organised by Department of

Mathematics and Statistics, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur and during sponsored by Centre of Excellence Govt. of U.P during 14-26<sup>th</sup> March, 2022.

2. Presented a paper entitled “A Study on the cosmological background dynamics and structure formation in symmetric teleparallel gravity” at the *International Conference on Cosmology & Gravity (CosmoGrav22)* during March 23 – 24, 2022 hosted by IUCAA Center for Astronomy Research & Development (ICARD) and Gurukul Kangri (Deemed to be University), Haridwar, Uttarakhand, India.

3. Presented a paper entitled “Innovative Perspectives in Teaching and Learning Process using Virtual Manipulatives” at the *4th International Conference on “Innovative and Scientific Teaching and Learning in Higher Education”* jointly organized by the IQAC, NEHU, Shillong, and the ISTD, Shillong Chapter on 28<sup>th</sup> February, 2022.

4. Presented a paper entitled “Singularity analysis and growth of matter perturbations of  $f(Q)$  gravity-based cosmological model” *International Webinar on Foundations for Contemporary Mathematical Research* organised by Department of Mathematics, Manipur University, Imphal during 8-10<sup>th</sup> November, 2021 organized by Department of Mathematics, Manipur University, Canchipur, Imphal, Manipur, India.

5. Presented a paper entitled “Analytical Cosmological Solutions and Growth Index of Matter Perturbations in Symmetric Teleparallel Gravity” at *87th Annual Conference the Indian Mathematical Society, An International meet*, organised by Department of Applied Sciences, JNEC, MGM University, Aurangabad during 4-7<sup>th</sup> December, 2021.

6. Presented a paper entitled “Analysis of an  $f(Q)$  gravity based cosmological model” at the *27th International Conference of the International Academy of Physical Sciences (CONIAPS XXVII) on “Mathematical Analysis and Its Applications”* jointly organized by Department of Mathematics, Central University of Kerala, and International Academy of Physical Sciences, Prayagraj during 26-28<sup>th</sup> October, 2021.

7. Presented a paper entitled “Painleve singularity analysis of cosmological solutions and growth index of matter perturbations in the  $f(Q)$  gravity” at the *27th International Conference of International Academy of Physical Sciences On Advances in Relativity and Cosmology (PARC-2021)*, organized by the Department of Mathematics, Birla Institute of Technology and Science- Pilani, Hyderabad

Campus, Hyderabad during 26-28th October, 2022

### **Publications:**

#### **Published in India:**

- (1) Nongbsap, W., **Singh, M.M.** (2021) A Cryptographic Application of the M-Injectivity of  $M_n(Z_p)$  Over Itself. *International Journal of Recent Technology and Engineering*, 10(4): 7-14.
- (2) Kharbuki, A., **Singh, M.M.** (2021) Hurwitz complex continued fraction expansion of some complex quadratic irrationals, *The Mathematics Student*, 90 (3-4): 61–72.
- (3) Kurbah, D., **Khongji, P.** (2021). An Improved Estimator of the Population Mean under Double Sampling using Median. *International Journal of Ecological Economics & Statistics*, 42 (1): 78 – 93, 2021.
- (4) Dhungel, K., **Narayan, J.** (2021). Green synthesis of silver nanoparticles using leaf extract of *Pinus khasiana*: antibacterial and antioxidant efficiency. *Int. J. Recent Sci. Res.*, 12(11): 43438- 43444.
- (5) **Mawiong, S.M.** (2021). Some Results and Examples on the Relation of Leray Equivalent and (Strong) Shift Equivalent. *Science and Technology Journal*, 9(2): 85-90.
- (6) **Ram, M., Jha, K.** (2021). Impact of machine learning on labour Market in developing countries. *PIMT Journal of Research*, 13 (4): 151-155.

#### **(ii) Books.**

- (1) **Upadhaya, K., Chaudhury, K.L., Roy, D.K. Mir A.H., Singh, P.P.** (2021). *Flowering plants of Meghalaya: A pictorial Guide, Part I*. Meghalaya Biodiversity Board, Government of Meghalaya. ISBN: 978-93-5473-580-6.

#### **(xii) Proceedings of Seminar/Conferences.**

- (1) **Narayan, J.** (2022). “Research & Industrial Conclave 2022”, IIT Guwahati held during January 20-23, 2022. The title of the paper – Green synthesis of IIIA-IVA metallic nanoparticles – their significance and efficacy in the application of wastewater treatment. RIC 2022 Souvenir Book P No: 276.

#### **(f) Published Abroad:**

#### **(vii) Research Papers**

- (1) Boro, L., **Singh, M. M.,** Goswami J. (2022) Unit Graph of the Ring  $Z_m \times Z_n$  *Lobachevskii Journal of Mathematics*, 43(02): 345-352.

- (2) Borah, R., Bhattacharjee, A., Rao, S.R., Kumar, V., Sharma, P., **Upadhaya, K., Choudhury, H.** (2021). Genetic diversity and population structure assessment using molecular markers and SPAR approach in *Illicium griffithii*, a medicinally important endangered species of Northeast India. *Journal of Genetic Engineering and Biotechnology*, 19:118. <https://doi.org/10.1186/s43141-021-00211-5>.
- (3) Barbhuyan, H.S.A., Mir, A.H., Chaudhury, G., Sarma, K., **Upadhaya, K.** (2021). Changes in species composition and litter dynamics along a fragment size gradient in subtropical broadleaved forests of Meghalaya, northeast India. *Applied Ecology and Environmental Research*, 19(4):2941-2962.
- (4) Borah, R., Khumanthem, B., **Choudhury, H., Upadhaya, K.** (2021). Dormancy, viability and germination of *Magnolia lanuginosa* (Wall.) Figlar & Noot. seeds: A threatened tree species of Northeast India. *Acta Ecologica Sinica*, <https://doi.org/10.1016/j.chnaes.2021.09.007>.
- (5) Baruah, J. M., **Narayan, J.,** Kalita, S., Kandimalla, R. (2022). Green chemistry mediated facile synthesis of surface passivated ZnSe QDs and their cytotoxicity evaluation. *Journal of Materials Today: Proceedings*, 51: 2389-2394.
- (6) Khyllep, W., **Dutta, J.,** Basilakos, S., Saridakis, E. N. (2022). Background evolution and growth of structures in interacting dark energy scenarios through dynamical system analysis. *Physical Review D*, 105: 043511: <https://doi.org/10.1103/PhysRevD.105.043511>.
- (7) Paliathanasis, A., Leon, G., Khyllep, W., **Dutta, J.,** Pan, S. (2021). Interacting quintessence in light of Generalized Uncertainty Principle: Cosmological perturbations and dynamics. *European Physical Journal C*, 81: 607: <https://doi.org/10.1140/epjc/s10052-021-09362-8>.
- (8) Khyllep, W., **Dutta, J.** (2021). Cosmological dynamics and bifurcation analysis of the general non-minimally coupled scalar field models. *European Physical Journal C*, 81: 774. <https://doi.org/10.1140/epjc/s10052-021-09559-x>.
- (9) Khyllep, W., Paliathanasis, A., **Dutta, J.** (2021). Cosmological solutions and growth index of matter perturbations in  $f(Q)$  gravity. *Physical Review D*, 103: 103521. <https://doi.org/10.1103/PhysRevD.103.103521>.
- (10) Phanjoubam, C., **Mawiong, S.M.** (2021). On Sombor Index and Some Topological Indices. *Iranian Journal of Mathematical Chemistry*. 12(4): 209-215.

(11) Singh, W.P., Bhandari, S., **Singh, R.S.** (2021). Organogelators derived from the bisphenol A scaffold. *New Journal of Chemistry*, 45: 15655–15666.

(12) Bhandari, S., Nath, A., Singh, L.R., Gogoi, M., **Mahato, M.** (2022). Sensing of Alphacypermethrin Pesticide Using Modified Electrode of Chitosan-Silver Nanowire Nanocomposite Langmuir Blodgett Film. *International Journal of Environmental Analytical Chemistry*, 1-21. <https://doi.org/10.1080/03067319.2022.2052865>.

(13) Senapati, S., Shah, A., Patra, P.K., **Mahato, M.** (2022). Measurement of elastic modulus of CNT composites: a nondestructive study *Fullerenes, Nanotubes and Carbon Nanostructures*, 3(2): 290-296. <https://doi.org/10.1080/1536383X.2021.1936506>.

(14) Nath, A., Shah, A., Singh, L.R., **Mahato, M.** (2021). Waste Plastic Derived NiO-MWCNT Composite as Visible Light Photocatalyst for Degradation of Methylene Blue Dye. *Nanotechnology for Environmental Engineering*, 6(3): 1-14. <https://doi.org/10.1007/s41204-021-00163-8>.

#### (i) Book Chapters.

(1) Shah, A., Saha, G., **Mahato, M.** (2022). Parameters Involved in CNT Growth: A Review. In *Tailored Functional Materials*, Editor: K. Mukherjee, R.K. Layek and D. De (Eds.). Select Proceedings of MMETFP-2021. Springer, Singapore.

#### (ii) Proceedings of Seminar/Conferences.

(1) Majhi, V., **Sinha, A.**, Paul, S., Baruah, A.K. (2021). Designing of a large scale automated composite book sanitizer machine. In *Proceedings of the 2021 International Conference on Computational Performance Evaluation (ComPE)*. IEEE. Shillong. pp. 702-

709. doi: 10.1109/ComPE53109.2021.9752459 (978-1-6654-3656-4/21).

(2) Nath, A., **Mahato, M.** (2022). Polystyrene-NiO-CNT Composite Ball and Film for Photocatalytic Degradation of Methylene Blue. In *Materials Today Proceedings*. 57: 321-327. <https://doi.org/10.1016/j.matpr.2022.03.305>.

(3) Das, H.K., Shah, A., Singh L.R., **Mahato, M.** (2021). Waste Derived Low Cost PbO-Carbon Nanocomposite and its Energy Storage Application. In *Material Today Proceedings*. 47: 1072-1077. <https://doi.org/10.1016/j.matpr.2021.06.434>.

(4) Samuel, J., Shah, A., Kumar, D., Singh, L.R., **Mahato, M.** (2011). Preparation, Characterization and Some Electrochemical Study of Waste Derived Iron Oxide-Carbon Nanocomposite. In *Material Today Proceedings*. 47:1048-1053. <https://doi.org/10.1016/j.matpr.2021.06.239>.

#### IPR Items:

##### (a) Patents:

##### (i) National

##### (A) Published

(1) Vinayak Majhi, Sudip Paul, **Aseem Sinha.** (FER reply 2021). “Cost-effective and non-contact digital thermometer”. Application No. 20231015705. FER Reply filed in July 2021.

(2) Goutam Saha, **Aseem Sinha**, Vinayak Majhi, Sudip Paul, Wanbankar Khongbuh, Winnerson Kharsunai, Debjyoti Das, Turoibha Nartuiang, Rimpal Paul. (FER reply 2022). “Automated vehicle accident and theft prevention device”. Application No. 201931019856. FER reply filed in March 2022.

(3) **Mrityunjoy Mahato**, Manashjit Gogoi, Aungat Shah, Santu Mandal (2021) The Pyrolysis Reactor Apparatus and the Process of MWCNT/H<sub>2</sub> Production using Plastic Waste. India Patent TEMP/E-1/20464/2021-KOL, April 21, 2021.

#### Funds Received during the current Year

##### (M) Bulk Grant to Department/Centre/Section etc. other than EMR grant

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	11.80

##### (N) EMR Research Projects to individual faculty members:

<b>Title of Project (Total outlay in Lakhs)</b>	<b>Current Status (New /on- going/ completed)</b>	<b>Name of Investigator (PI/Co-PI)</b>	<b>Multi/ Single Institute (Tenure)</b>	<b>Funding Agency</b>	<b>Fund received by NEHU in the year under report (in Lakhs)</b>
MLT plantation on propagation of new dwarf cultivars of Neem with early maturity and higher limonoid yield (INR 3.0 L)	Ongoing	Dr. Krishna Upadhaya (PI)	Single Institute (for 1 year effective from 4.6.2021)	CSIR- National Botanical Research Institute, Lucknow	3.0
Challenging General Relativity At The Largest Scales: A Systematic Investigation Of Cosmological Perturbations In Modified Gravity. (INR 22.37 L)	Ongoing	Dr. Jibitesh Dutta (PI)	Single Institute (18.03.2019-19.09.2022)	Science and Engineering Research Board (SERB), Department of Science and Technology, New Delhi	3.0
Some Problem in Computational Algebraic Topology with a special emphasis on Conley Index Theory (INR 6.6 L)	On-going	Dr. Sainkumar Mn Mawiong (PI)	Single Institute (13.6.2018-12.6. 2021)	DST- SERB Government of India. New Delhi	1.40

## Academic Collaborations

### (i) National

<b>Name of faculty</b>	<b>Name of the collaborator</b>	<b>Collaborating Institution</b>	<b>Title of the project/work</b>
Dr. M. M Singh	Dr. Jituparna Goswami, Assistant Professor	Department of Mathematics, Gauhati University, Guwahati	A Study of Some Graph Structures Associated with Rings and Semiring
	Dr. Pinkimani Goswami, Assistant Professor	Department of Mathematics, University of Science & Technology Meghalaya	A Study of Applications of Number Theory in Cryptography
Dr. K. Upadhaya	Dr. Dibyendu Adhikari, Principal Scientist	CSIR-National Botanical Research Institute, Lucknow	Ecological niche modelling
	Prof. Renee Borges	Centre for Ecological Sciences, Indian Institute of Science, Bangalore	The ecology and genetics of Ficus elastica in relation to the living root bridges of Meghalaya
	Prof. S.K. Barik	CSIR-National Botanical Research Institute Lucknow	Ecological niche modelling' and Ecosystem services
Dr. H. Choudhury	Dr. Vineet Kumar	Scientist-F, Chemistry Division, Forest Research Institute, Dehradun	Phytochemical examination, molecular characterization and propagation of Illicium



			griffithii Hook. f. & Thoms.: a medicinally important RET plant of Northeast India
Dr. J. Narayan	Dr M. A. Hassan	National Institute of Technology Jamshedpur, Mechanical Engineering Department	Thermal conductivity of nanofluids
	Dr J. M Baruah	Department of Chemistry, North Lakhimpur College, Assam	Semiconducting nanoparticles with bio-compatibility
	Dr. S Paul	Department of Energy Engineering, NEHU	Semiconducting nanoparticles with solar cell compatibility/ photocatalysis.
Dr. J. Dutta	Supriya Pan	Department Of Mathematics, Presidency University, 86/1 College Street, Kolkata 700073	Dynamical systems in Cosmology
	S. Dutta	Department Of Mathematics, NEHU, Shillong.	Graph Theory and applications
Dr. S .K. Mn Mawiong	Dr. A.M. Buhphang	Dept. of Mathematics, NEHU, Shillong	Topological Graph Theory
	Mr. P. Chinglensana	do -	do -
	Dr L. Robindro Singh	Department of Nanotechnology, NEHU	Waste derived Nanocomposite for energy storage and Sensor application
	Dr Devkumar Mahato	NIT, Patna	Low cost, earth abundant Perovskite material preparation
	Dr Amartya Kumar Pal	Department of Chemistry, NEHU	Efficient catalyst development
	Dr Basudev Pradhan	Central University of Jharkhand	Nanodcomposite Photosupercapacitor application

**(ii) International**

Name of faculty	Name of the collaborator	Collaborating Institution	Title of the Project
Dr. J. Dutta	Spyros Basilakos	National Observatory of Athens, Lofos Nymfon, 11852 Athens, Greece And Academy of Athens, Research Center for Astronomy and Applied Mathematics, Soranou Efesiou 4, 11527, Athens, Greece	Unified dynamical Sysytem analysis of cosmological models at the background and perturbation levels. And Cosmological Perturbation Theory

	Emmanuel N. Saridakis	National Observatory of Athens, Lofos Nymfon, 11852 Athens	Dynamical systems in Cosmology
	Laur Järv,	Laboratory of theoretical physics Institute of Physics University of Tartu Estonia	Metric Affine Geometry and Modified Gravity
	Andronikos Paliathanasis	Institute of Systems Science, Durban University of Technology, Durban 4000, South Africa	Painleve Analysis
	Genly Leon,	Department Of Mathematics, Universidad Católica del Norte: Antofagasta, Antofagasta, Chile	Dynamical systems in Cosmology
Dr. M. Mahato	Dr. Ramakanta Layek	LUT University, Finland	Biocomposite thermal sink application

#### **Honours/Awards/Recognition/Membership/Fellowship**

Dr. M. M. Singh is a Member of the Governing Body of Synod College, Shillong

#### **Dr. A. Sinha**

(i) Received best Paper award in Technical Session-9 of the 2021 International Conference on Computational Performance Evaluation (ComPE), organized by Department of Biomedical Engineering, NEHU, Shillong, on 1<sup>st</sup> to 3<sup>rd</sup> December, 2021.

(ii) Secured A<sup>+</sup> Grade in One Week Online National FDP on Assessment and Evaluation in Higher Education, organized by GADTLC, University of Delhi under PMMMNMTT of MoE, New Delhi, from 14<sup>th</sup> to 20<sup>th</sup> July, 2021.

#### **Dr. K. Upadhyaya is:**

(i) Member of Expert Committee of Meghalaya Biodiversity Board, Government of Meghalaya

(ii) Expert Member, Monitoring Committee of Eco-sensitive Zone Nongkhylllem Wild Life Sanctuary, Govt. of Meghalaya,

(iii) Expert Member, Monitoring Committee of Eco-sensitive Zone Narphu Wild Life Sanctuary, Govt. of Meghalaya.

#### **Dr. J. Dutta**

(i) Received India Top Cited Paper Award 2021 in Astronomy & Astrophysics, given by Institute of Physics, UK.

(ii) Selected for Visiting Associateship at IUCAA for a period of three years with effect from 1st August 2021.

(iii) Received International grant (jointly with Laur Järv, Institute of Physics, University of Tartu, Estonia) Erasmus+ (European Community Action Scheme for the Mobility of University Students) grant 2020 (until 31.07.2023)

#### **Other Activities**

#### **Dr. M. M. Singh**

(1) Delivered an invited lecture titled ‘The Origin and Evolution of Calculus’ in the Webinar on “Popularising Mathematics” at the Department of Mathematics, St. Mary’s College, Shillong held on 29<sup>th</sup> November, 2021.

(2) Delivered an invited lecture on ‘Group of Signed Quadratic Residues & its Applications to Cryptography’ in International Conference on Nonlinear Applied Analysis & Optimizations organized by Department of Mathematical Sciences, IIT (BHU), Varanasi, during 21<sup>st</sup> -23<sup>rd</sup> December, 2021.

(3) Reviewer for (i) Mathematical Review (MR), American Mathematical Society (AMS), USA, (ii) IEEE Access, USA and (iii) Mathematical Methods in Applied Sciences, Wiley, USA

(4) Life Member of- (i) ISCA, Kolkata (ii) The Indian Mathematical Society, Delhi (iii) Cryptology Research Society of India, Kolkata

(iv) IIPA, New Delhi (v) Assam Academy of Mathematics, Guwahati

(5) Has been a Guest faculty in the Department of Mathematics, NEHU, Shillong, for the academic year 2021-22.

#### **Dr. A. Sinha**

(1) Member of the Advisory Panel of Star St. Edmund's College, Shillong

(2) Judge at the event of Toycathon 2021 organised in June 2021, by MoE, MIB, Ministry of MSME, Ministry of Textiles, Ministry of Commerce & Industry and Ministry of Women and Child Development, Government of India.

(3) Life Member of- (i) ISCA, Kolkata and (ii) Indian Society of Surface Science and Technology (ISSST), Kolkata.

#### **Dr. P. Khongji**

(1) Has been a *Guest Faculty* for MA/MS in the Department of Statistics, NEHU, Shillong, for the academic year 2021-22.

#### **Dr. K. Upadhaya**

(1) Chaired a session during the National Seminar "Emerging Trends in Plant Sciences" held at North-Eastern Hill University, Shillong on March 29-30, 2022, organised by Department of Botany, North-Eastern Hill University and CSIR-National Botanical Research Institute Lucknow.

(2) Has been a *Guest Faculty* for in the Department of Environmental Studies, NEHU, Shillong, for the academic year 2021-22.

#### **Dr. H. Choudhury**

(1) Delivered an invited lecture on the topic "DNA Sequencing and Microarray: An Overview" on 25<sup>th</sup> August 2021, organized by the UGC-Human Resource Development Centre, North-Eastern Hill University, Shillong in the Refresher Course conducted by the Department of Biotechnology and Bioinformatic, North-Eastern Hill University, Shillong during 23<sup>rd</sup> August to 6<sup>th</sup> September, 2021.

(2) Reviewer of (i) South African Journal of Botany, Elsevier, South Africa, and (ii) Vegetos, Springer, India.

(3) Has been a *Guest Faculty* in the Department of Biotechnology and Bioinformatics, North-Eastern Hill University, Shillong for the courses of (a) M. Sc. and (b) Ph. D. Coursework for the academic year 2021-22.

(4) Life member of ISCA,

(5) Member of Asian Council of Science Editors (Dubai, UAE)

#### **Dr. Jyoti Narayan**

(1) Reviewer of (i) Journal of Applied Physics A, Springer, German, Berlin Heidelberg, (ii) Journal of Material Science: Materials in Electronics, Springer, German, Berlin Heidelberg, and (iii) Journal of crystal growth, Science Direct, Elsevier, London, United Kingdom

Dr. J. Dutta

(1) Delivered an invited lecture on career guidance to students of 9<sup>th</sup> to 12<sup>th</sup> standards on 29<sup>th</sup> April 2022 at P N Choudhury Higher Secondary School, Rilbong, Shillong.

(2) Reviewer of (i) Classical and Quantum Gravity, Institute of Physics Publishing, U. K, (ii) General Relativity and Gravitation, Springer Nature, Switzerland, (iii) The European Physical Journal C, Springer Nature, Switzerland, (iv) The European Physical Journal Plus, Springer Nature, Switzerland, (v) Modern Physics Letters A, World Scientific, Singapore, (vi) International Journal of Theoretical Physics, Springer Nature, Switzerland, (vii) Canadian Journal of Physics, Canadian Science Publishing, North America, (viii) Astrophysics and Space Science, Springer Nature, Switzerland, and (ix) Physica Scripta, Institute of Physics Publishing, U. K

(3) Life members of (i) The Indian Association of General Relativity and Gravitation, (ii) Indian Mathematical Society, and (iii) Mathematics Teachers' Association (India).

(4) Has been a Guest faculty in the Department of Mathematics, NEHU, Shillong, for the academic year 2021-22.

#### **Dr. Sainkupar Mn. Mawiong**

(1)

#### **Dr. R. S. Singh**

(1) Reviewer for (i) Applied Sciences, MDPI, Switzerland, (ii) Gels, MDPI, Switzerland, and (iii) RSC Advances, Royal Society of Chemistry, United Kingdom

#### **Dr. M. Mahato**

(1) Invited Lecture on "Optical and Electron Microscope for Material Applications" in one week Training Programme on Instrumentation

and Application of ICP-OES, GF-AAS and Electron Microscopy” at SAIF, NEHU, Shillong, 28<sup>th</sup> April-4<sup>th</sup> May, 2022.

(2)Invited Lecture on “Plastic and Biomedical Waste Management” on 25/02/2022 (90 min) at Refresher Course in Biomedical, UGC-HRDC, NEHU, Shillong, 16<sup>th</sup> Feb-1<sup>st</sup> Mar, 2022.

### SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	1	Name		Prof. M.M. Singh	Dr. Aseem Sinha	Dr. P. Khongji
	2	Date of Joining		23.09.1991	27.01.1994	22.12.2006
	3	Field of specialisation		Matheamatics (No. Theory, Algebraic No. Theory, Graph Theory, Cryptography, Numerical Analysis, Discrete Maths.)	Physical Chemistry (Surfactant-solute interaction in aqueous phase)	Statistics
(A) Teaching Experience (in Years)	4	UG		31	27	16
	5	PG, including PhD		11	No	6
(B) Research activities	6	Basic Research		Yes	Yes	yes
	7	Applied Research		Yes	No	yes
	8	Action Research		No	No	No
	9	Project Submitted		No	0	Yes
	10	Ongoing Project		0	0	No
	11	Research	Group I	2	0	NO
	12	Paper in UGC care list journals	Group II	1	0	Yes (one)
	13	Books /Books	Books	0	0	No
	14	chapters Published	Book Chapters	0	0	No
	15	Popular Articles (News Paper/ Magazines)		0	0	No
	16	Seminar /	National	0	0	No
	17	Conference/ Symposia organized	International	0	0	No
	18	Seminar /	National	1	1	No
	19	Conference/ Symposia attended	International	2	2	No
	20	Conference Proceedings		0	International: 1	No
	21	Consultancy		0	0	Yes Data analysis

(C) Patent	22	Applied		0	0	No
	23	Published		0	2 (FER replied)	No
	24	Granted		0	0	No
(D) E- Content	25	MOOC/SWA YAM/ E- content developed		0	0	Yes
(E) Any Other	26	Teaching /Extension /outreach activities		yes	2	No
	27	Responsibiliti es other than teaching		Yes , Head	1	Yes NEHU Alumni Association
	28	Awards/ Honours/ Recognition/ Membership/ Fellowship		yes	Awards: 2 Membership: 2	0
	29	Collaboration s	National	2	0	0
	30		Internationa l	0	0	0

Details of Faculties	1	Name		Dr. Krishna Upadhaya	Dr. Hiranjit Choudhury	Dr. Jyoti Narayan
	2	Date of Joining		20.12.2006	20.12.2006	22.12.2006
	3	Field of specialisation		Ecology	Botany (Plant Biotechnology)	Chemistry (nanoscience and nanotech-nology)
(A) Teaching Experience (in Years)	4	UG		16	21	16
	5	PG, including PhD		11	10	9
(B) Research activities	6	Basic Research		Yes	Yes	Yes
	7	Applied Research		No	No	Yes
	8	Action Research		No	No	Yes
	9	Project Submitted		Yes (1)	Yes (1)	Nil
	10	Ongoing Project		1	0	Nil
	11	Research Paper in UGC care list journals	Group I	0	0	1
	12		Group II	3	Yes (2)	1
	13	Books /Books chapters Published	Books	1	0	No
	14		Book Chapters	0	0	No
	15	Popular Articles (News Paper/		No	0	No

		Magazines)				
	16	Seminar / Conference/ Symposia organized	National	No	0	No
	17		International	No	0	No
	18	Seminar / Conference/ Symposia attended	National	No	0	3
	19		International	No	Yes (1)	No
	20	Conference Proceedings		No	0	1
	21	Consultancy		No	0	No
(C) Patent	22	Applied		No	0	No
	23	Published		No	0	No
	24	Granted		No	0	No
(D) E-Content	25	MOOC/SWAY AM/ E-content developed		No	0	No
(E) Any Other	26	Teaching /Extension /outreach activities		Yes	No	No
	27	Responsibilities other than teaching		Yes	Yes	Yes
	28	Awards/ Honours/ Recognition/ Membership/ Fellowship		Yes	Membership (2)	-
	29	Collaborations	National	No	Yes (1)	Yes
	30		International	No	No	No

Details of Faculties	1	Name		Dr. Jibitesh Dutta	Dr. Sainkumar Mn. Mawiong	Dr. R. S. Kharwanlang
	2	Date of Joining		22.04.2009	20.12.2006	22.12.2006
	3	Field of specialisation		Applied Mathematics( Dynamical Systems, Modified Gravity, Cosmological Perturbation theory, Applications of graph theory)	Mathematics (Topology, Dynamical Systems, Graph Theory)	Condensed matter physics, Statistical physics
(A) Teaching Experience (in Years)	4	UG		21	17	16
	5	PG, including PhD		17	4	4
	6	Basic Research		No	Yes	Yes

(B) Research activities	7	Applied Research		Yes	No	No
	8	Action Research		No	No	No
	9	Project Submitted		No	0	No
	10	Ongoing Project		Yes	1	No
	11	Research	Group I	No	1	No
	12	Paper in UGC care list journals	Group II	4	1	No
	13	Books /Books	Books	No	0	No
	14	chapters Published	Book Chapters	No	0	No
	15	Popular Articles (News Paper/ Magazines)		No	0	No
	16	Seminar /	National	No	0	No
	17	Conference/ Symposia organized	International	No	0	No
	18	Seminar /	National	4	2	02
	19	Conference/ Symposia attended	International	9	2	No
	20	Conference Proceedings		No	0	No
	21	Consultancy		No	0	No
(C) Patent	22	Applied		No	0	No
	23	Published		No	0	No
	24	Granted		No	0	No
(D) E-Content	25	MOOC/SWAY AM/ E-content developed		No	0	No
(E) Any Other	26	Teaching /Extension /outreach activities		Yes	Yes	No
	27	Responsibilities other than teaching		Yes	Yes	No
	28	Awards/ Honours/ Recognition/ Membership/ Fellowship		6	0	No
	29	Collaborations	National	2	0	No
	30		International	5	0	No

Details of Faculties	1	Name		Dr. Rajkumar Sunil Singh	Dr. Mrityunjoy Mahato
	2	Date of Joining		05.07.2012	09.07.2012
	3	Field of specialisation		Organic Chemistry	Nanophysics

(A) Teaching Experi- ence (in Years)	4	UG		10	9
	5	PG, including PhD		8	2
(B) Research activities	6	Basic Research		Yes	
	7	Applied Research		No	Yes
	8	Action Research		No	Yes
	9	Project Submitted		No	01
	10	Ongoing Project		No	00
	11	Research Paper	Group I	No	00
	12	in UGC care list journals	Group II	1	03
	13	Books /Books	Books	No	00
	14	chapters Published	Book Chapters	No	01
	15	Popular Articles (News Paper/ Magazines)		No	00
	16	Seminar / Conference/	National	No	00
	17	Symposia organized	International	No	00
	18	Seminar / Conference/	National	No	00
	19	Symposia attended	International	No	00
	20	Conference Proceedings		No	03
	21	Consultancy		No	No
(C) Patent	22	Applied		No	01
	23	Published		No	00
	24	Granted		No	00
(D) E- Content	25	MOOC/SWAYAM/ E- content developed		No	No
(E) Any Other	26	Teaching /Extension /outreach activities		Yes	Yes
	27	Responsibilities other than teaching		Yes	Yes
	28	Awards/ Honours/ Recognition/ Membership/ Fellowship		No	No
	29	Collaborations	National	No	05
	30		International	No	01

Details of Faculties	1	Name		Dr. Munshi Ram	Ms. Evapynhun Giri
	2	Date of Joining		05.07.2012	21.03.2007
	3	Field of specialisation		Commerce (HRM)	English Language Education
(A) Teaching Experience (in Years)	4	UG		10	15
	5	PG, including PhD		No	No
	6	Basic Research		Yes	No
	7	Applied Research		No	No
	8	Action Research		No	No



(B) Research activities	9	Project Submitted		No	No
	10	Ongoing Project		No	No
	11	Research Paper in UGC care list journals	Group I	1	No
	12		Group II	No	No
	13	Books /Books chapters Published	Books	No	No
	14		Book Chapters	No	No
	15	Popular Articles (News Paper/ Magazines)		No	No
	16	Seminar / Conference/ Symposia organized	National	No	No
	17		International	No	No
	18	Seminar / Conference/ Symposia attended	National	No	No
	19		International	No	No
	20	Conference Proceedings		No	No
	21	Consultancy		No	No
(C) Patent	22	Applied		No	No
	23	Published		No	No
	24	Granted		No	No
(D) E-Content	25	MOOC/SWAYAM/ E-content developed		No	No
(E) Any Other	26	Teaching /Extension /outreach activities		No	No
	27	Responsibilities other than teaching		No	No
	28	Awards/ Honours/ Recognition/ Membership/ Fellowship		No	No
	29	Collaborations	National	No	No
	30		International	No	No

## DEPARTMENT OF BIOMEDICAL ENGINEERING

**Head :** Dr. Sudip Paul  
**Telephone :** 0364-2723855 (H), 0364-2723852 (O)  
**E-mail :** [hodbme@nehu.ac.in](mailto:hodbme@nehu.ac.in)  
**Faculty Profile:**

Designation	Name and Qualification	Specialization
<b>Associate Professor</b>	Dr. Dinesh Bhatia M.E. (Mumbai University), Ph.D. (MNNIT, Allahabad)	Innovative Healthcare Devices, Biomechanics and Rehabilitation Engineering, Medical informatics and Telemedicine, Signal and Image Processing, Marketing and International Business, Sustainable development.
<b>Assistant Professor</b>	Dr. Nitin Sahai M.Tech. (MNNIT, Allahabad), Ph.D. (nehu)	Biomechanics & Rehabilitation Engineering, Tissue Engineering, Biomaterials, Computer Aided Tissue Engineering, 3D Printing
	Dr. Sudip Paul M.Tech. (IT, BHU), Ph.D. (IIT-BHU, Varanasi)	Electrophysiology; Biomedical Instrumentation; Machine Learning and ANN; Biomedical Signal Processing; Rehabilitation System; Neural mechanism and motor neural; Cognitive disorders
	Dr. Manashjit Gogoi MTech (TU), Ph.D. (IIT, Bombay)	Bionanotechnology, Biosensors, Drug delivery Microfluidics and Tissue Engineering.
	Mr. Gajendra Kumar Mourya M.Tech. (IIT, BHU Varanasi), Ph.D. (nehu)	Medical Image Processing, Biomedical Instrumentation, Biomedical Signal Processing, Machine Learning and Deep Learning
	Mr. Shyamal Mandal M.Tech. (IIT, Kharagpur)	Medical Imaging, Biosensor, Biomaterials, Nano-materials

### Thrust Areas of Research

Biomedical devices and signal processing, Electrophysiology and medical Instrumentation, Medical Informatics and Telemedicine, Biomedical Instrumentation, Biomedical Signal Processing, Artificial organ and Rehabilitation Engineering, Medical Image analysis and processing, Medical Image Processing, Medical Imaging System, Biomedical Instrumentation, Biomaterials, Medical Imaging, Nanotechnology, Biomechanics and Rehabilitation Engineering, Bio-nanotechnology, Nano medicine and Cancer drug delivery, Tissue Engineering, Biomaterials, Biomechanics, Computer Aided Tissue Engineering.

### Brief Statement of Academic Activities and achievements:

The Department of Biomedical Engineering (BME) was established in the year 2012, under the

School of Technology, NEHU, Shillong funded by MHRD, Government of India, with the specific purpose to promote studies in new emerging areas of medical sciences employing advancements in technology for the benefit of masses. The Department of the University intends to provide education to young minds for the achievement of better health care solutions with emphasis on learning new techniques, develop innovative ideas through learning, skill development, Research and Development (R&D) and Industry-Institution interaction in the field. The Department is one of the few institutes in the North Eastern region offering U.G. and Ph.D. programs in Biomedical Engineering. The Department aims to focus on strengthening R&D activities for development of products and services which can be transferred to the society for the benefit of mankind. The students are being prepared to face the emerging challenges in the field of Biomedical Engineering by faculty members having rich expertise, diversity and experience in this field.

### Students' Profile

**Enrolment Capacity:** B.Tech. (Vertical / Lateral / EWS) Vertical= 27, LEET\*= 32

\*LEET: Lateral Entry Entrance Test

**Enrolment of students from different States of India and Abroad**

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh			1					1					1	1
Assam	10	8	4	4	1	3				1			15	16
Meghalaya			3	6									3	6
Rajasthan		1												1
West Bengal	3	3			2								5	3
Tripura		1				1								2
Uttar Pradesh					1								1	
Bihar					2								2	
Nagaland				1										1
Telangana			1										1	
Sub Total	13	13	9	11	6	4		1		1			28	30
International		1												1
Total	27		20		10		1		1				59	

**Degrees Awarded :****Degrees Awarded to students from different States of India and Abroad****Awarded B. Tech. Degree (Batch 2017)**

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	2				1		1						4	
Meghalaya	1		5	4									6	4
Tripura		1												1
Sub Total	3	1	5	4	1		1						10	5
Total	4		9		1		1						15	

**Ph.D.**

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Madhya Pradesh					1								1	
Uttar Pradesh	1												1	
Sub Total	1				1								2	
Total	1				1								2	

**Awarded Ph.D. Degree**

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Mr. Nitin Sahai	Development of Chitosan based Porous Tissue Scaffolds for Regeneration of Cartilage Through Computer Aided Tissue Engineering	Dr. Manashjit Gogoi
Mr. Gajendra Kumar Mourya	Towards Volumetric Liver Segmentation from Abdominal CT Scans: A tool for effective diagnosis and treatment planning	Dr. Dinesh Bhatia (Supervisor) Dr. Manashjit Gogoi (Joint Supervisor)
Mr. Sateesh A. Reddy	Development of touch screen based indigenous powered wheelchair with navigation system	Dr. Sudip Paul (Supervisor) Dr. Dinesh Bhatia (Joint Supervisor)

**Placement of Students**

Name of the Student(s)	Name of the Programme	Post Held	Place of Work
Pankaj Das	B. Tech.	Application Specialist	InnAccel Technologies Pvt Ltd. #4, 5th Floor, Aanand Towers, Raja Rammohan Roy Road, Near Richmond Circle,

			Sampangiramanagar,Bangalore - 560025, India.
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### Students selected for Higher Studies:

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
Rima Kalita	M.Tech. (Biomedical Engineering)	NIT Rourkela, Odisha	India

### Research Fellowship

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others
-	2	-	-	-	-

### Courses Conducted:

#### *Undergraduate: B.Tech.*

Semester I: Engineering Mathematics-I, Engineering Chemistry, Engineering Mechanics, Engineering Physics, Introduction to Biomedical Engineering, Engineering Chemistry Laboratory, Engineering Physics Laboratory.

Semester II: Engineering Mathematics – II, Computer Systems and Programming, Elements of Environmental Sciences, Basic Electrical Engineering, Professional Communication Skill, Computer Programming Laboratory, Basic Electrical Engineering Laboratory

Semester III: Bioelectronics, Biomaterials, Human Anatomy and Physiology, Medical Microbiology and Biochemistry, Bioelectronics Laboratory, Human Anatomy and Physiology Laboratory, Medical Microbiology and Biochemistry Laboratory.

Semester-IV: Statistics and Random Processes, Biomedical Instrumentation-I, Tissue Engineering and Artificial Organs, Biomedical Signals and Systems, Biomedical Instrumentation Laboratory –I, Biomedical Signals and Systems Laboratory, General Proficiency– I.

Semester-V: Bio-Transport Process, Microprocessor and Microcontroller, Biomedical Signal Processing, Biomedical Instrumentation-II, Microprocessor and Microcontroller Laboratory, Biomedical Signal Processing Laboratory, Biomedical Instrumentation-II Laboratory.

Semester VI: Biomechanics and Rehabilitation Engineering, Medical Imaging and Image

Processing, Elective I: Nano medicine, Hospital Management, Virtual Instrumentation, Professional Ethics and IPR, Biomechanics and Rehabilitation Engineering Laboratory, Medical Image Processing Laboratory, General Proficiency –II

Semester VII: Medical Informatics and Telemedicine, Biological Control System, Elective-II\* (Open Elective): Artificial Intelligence in Biomedical Engineering, Laser and fibre optics, Fundamentals of Bio-MEMS, Industrial Economics and Entrepreneurship, Biological Control System Laboratory, Minor Project

Semester VIII: Major Project\*, Seminar, General Proficiency – III

#### *Ph.D.*

Research Methodology, Advance in Biomedical Instrumentation and Elective I (Advance Biomaterial / Advance Biomechanics & Robotics / Advances in Nanomedicine)

#### **Seminars/Conferences/Workshops/Symposia/Extension Programmes (National/International):**

##### *Organized*

##### **Dr. Dinesh Bhatia:**

1. Organized *IBRO-APRC 2021 Asia-Pacific Neuroscience School* on Modern interventional tools to improve Cognitive behavior in children with neurodevelopmental disorders from 25<sup>th</sup> October-1<sup>st</sup> November, 2021. (\$7800 sponsored by IBRO, France).

2. Organized *International Seminar on Economic and Social Impact of Medical Devices on the Healthcare Sector in the Country* jointly organized by the Department of Biomedical Engineering, NEHU, Shillong and Design Innovation Centre, NEHU sponsored by ICSSR NERC and DIC, NEHU from 28<sup>th</sup> to 30<sup>th</sup> April, 2022. (Rs. 1.20 lakhs sponsored).

##### **Dr. Sudip Paul:**

1. Organized *International Conference on Computational Performance Evaluation (ComPE-2021)*, BME Deptt, NEHU, Shillong. 1<sup>st</sup> to 3<sup>rd</sup> December 2021.

2. Organized *IBRO-APRC Short Term Course on Depression, Anxiety, Mental Stress, and its*

*Remedies in Light of COVID-19*, 14<sup>th</sup> to 16<sup>th</sup> December 2021.

3. Organized *IBRO Global Engagement Workshop 2021 on Neurodegenerative Diseases*, 1<sup>st</sup> to 5<sup>th</sup> October 2021.

4. Organized *UGC HRDC Refresher Course in Biomedical* at NEHU, Shillong. 16<sup>th</sup> February 2022 to 1<sup>st</sup> March 2022.

#### **Dr. Gajendra Kumar Mourya:**

1. Organized one Day Workshop on “*Systematic Review and Meta-Analysis*” under the Azadi ka Amrit Mahotsav at the Department of Biomedical Engineering, SoT, NEHU, Shillong on 22-10-2021.

2. Organized *Seminar on “Physiotherapy Equipments and its Clinical Importance”* at Department of Biomedical Engineering, SoT, NEHU, Shillong on 1<sup>st</sup> Nov 2021.

3. Organized *Workshop on “Recent Advancements in Biomedical Imaging and Image Processing”* under the Azadi ka Amrit Mahotsav program at the Department of Biomedical Engineering, SoT, NEHU, Shillong from 8<sup>th</sup> to 9<sup>th</sup> Nov 2021.

#### **Attended**

#### **Dr. Sudip Paul:**

1. Delivered the talk on: The intervention of early signs of neurodegenerative, “*XXXIX Annual Meeting Of Indian Academy Of Neurosciences*” at NEHU Shillong, dated 15-12-2021

2. Delivered the talk on: How to write a good paper: an open discussion at “*IBRO-APRC Short Term Course On Depression, Anxiety, Mental Stress, And Its Remedies in Light of Covid-19*” at NEHU Shillong dated 15-12-2021.

3. Delivered the talk on: The intervention of early signs of neurodegenerative diseases “*IBRO - APRC Associate School Of Neuroscience On Advances In Neurodegenerative Disorder And Therapeutics*” at NEHU Shillong dated 29-11-2021

4. Delivered the talk on: Publication Ethics “*IBRO 5 Day Global Engagement Workshop On Neurodegenerative Disease*” at NEHU Shillong dated 02-10-2021

5. Delivered the talk on: Cranial Motor disorders detection systems, “*AICTE ATAL On Application Of Computers In Biology*”, at Galgotias University dated 10-06-2021

6. Delivered the talk on: Parkinson's disease detection systems, “*AICTE ATAL On Application Of Computers In Biology*”, at Galgotias University dated 08-06-2021

7. Delivered the talk on: How to write a good Project Proposal, *DIC at NEHU, Shillong, India* dated 20.02.2021

8. Delivered the talk on: Application of IOT in Healthcare during *Tech World Congress, EFY Group* dated 23.01.2021.

#### **Dr. Gajendra Kumar Mourya**

1. Delivered a talk on, Title of the talk: *Introduction to Biomedical Signal Recording and Processing* in DIC course on “Biomedical product and design and development” at NEHU, Shillong, Dated 26-03-2022.

2. Delivered a talk on, “*Neurogenerative diseases*” during Five days global engagement workshop ,1st-5th , Oct, 2021, at NEHU, Shillong.

3. Delivered a talk on, Title of the talk: *AI and its Application in Radiology*, during DIC course on “Biomedical product and design and development” at NEHU, Shillong, Dated 09-10-2021.

4. Delivered a talk on, Title of the talk: *Biomedical Safety and Security*, during DIC course on “Biomedical product and design and development” at NEHU, Shillong, Dated 04-09-2021.

#### **Mr. Shyamal Mandal:**

1. Delivered lecture on “Medical waste management” in the two days *Virtual International Conference On “Emerging Environmental Issue And Challenges”* Jointly organized by Shillong Law Collage and Phuket Rajabhat University, Thailand, (Feb, 11-12,2022).

2. Delivered lecture on “Impact of Covid-19 on mental health of children, Adolescents and Old edge People. In the 3 days *IBRO-APRC Short-Term Course On Depression Anxiety, Mental Stress And Its Remedies In Light Of Covid-19*. Jointly organized by International Brain Research Organization (IBRO) and Department of Biomedical Engineering. (December 12-15,2021).

3. Delivered lecture on “Nanoparticle and Nanostructure based Non-Invasive Biosensor” in the *5 Days Global Engagement Workshop On Neurodegenerative Disease*” Organized by International Brain Research Organization (IBRO) and Department of Biomedical Engineering. (October 1-5, 2021).

#### **Publications**

##### ***Published in India:***

#### **Dr. Dinesh Bhatia:**

1. Shaw D, Singh D, Kaur M., Ahlawat U, Bhatia D., 2021, Effect of performance level on

the longitudinal electromyographic activity of vastus medialis and vastus lateralis muscles after induced extreme fatigue with a workload of 30, *BLDE University Journal of Health Sciences*, 6(1), pp.49-55.

### (iii) Edited Books/Volumes

#### Dr. Sudip Paul

1. Paul, S., Majhi, V., editors (2021). *Abstract book of IBRO Global Engagement Workshop 2021 on Neurodegenerative Diseases*, Self-Published (Raja Rammohun Roy National Agency for ISBN), ISBN 9789355268655.

2. Paul, S., Verma, J. K., editors (2021). *International Conference on Computational Performance Evaluation (ComPE) Proceedings*, Shillong, India, 2021, ISBN: 9781665436564.

#### Mr. Shyamal Mandal:

1. Mandal, S., Sil, R., editors (2022). *Impact of Covid-19 in Indian Society*. INSC International Publisher, Karnataka, ISBN NO: 978-1-68576-185-1.

### (v) Proceedings of Seminar/Conferences.

#### Dr. Gajendra Kumar Mourya

1. G. K. Mourya, D. Bhatia, M. Gogoi, and A. Handique, Apr. 2021 "CT Guided Diagnosis: Cascaded U-Net for 3D Segmentation of Liver and Tumor," *IOP Conf. Ser. Mater. Sci. Eng.*, vol. 1128, no. 1, p. 012049, doi: 10.1088/1757-899X/1128/1/012049.

2. G. K. Mourya, D. Bhatia, M. Gogoi, and A. Handique, Apr. 2021 "CT Guided Liver Tumor Biopsy Framework," *IOP Conf. Ser. Mater. Sci. Eng.*, vol. 1128, no. 1, p. 012048, doi: 10.1088/1757-899X/1128/1/012048.

### Published Abroad:

#### Dr. Dinesh Bhatia:

1. Bhatia, P., Chaudhary, A., Kaur, B.A., Marwah, M.P.S., Swamy, H.M., Bhatia, D., (2021). Assessment of Level of knowledge regarding menstruation, menstrual hygiene and various myths and taboos faced by the Adolescent Girls of Khera Khurumpur a small village in India, *European Journal of Molecular and Clinical Medicine*, 8(3), pp. 1400-1416.

2. Gupta, M., Bhatia, D., (2021). Study the Cognitive Changes in Cerebral Palsy Children Employing Repetitive Transcranial Magnetic Stimulation and Neurofeedback Training, Lecture Notes in Networks and Systems- Proceedings of the *International Conference on Computing and Communication Systems*, 170(1), pp. 431-439.

3. Mourya, G.K., Bhatia, D., Gogoi, M., Handique, A., (2021). CT Guided Liver Tumor Biopsy Framework. *IOP Conf. Series: Materials Science and Engineering*, 1128 (012048), pp. 1-6.

4. Mourya, G.K., Bhatia, D., Gogoi, M., Handique, A., (2021). CT Guided Diagnosis: Cascaded U-Net for 3D segmentation of liver and tumor. *IOP Conf. Series: Materials Science and Engineering*, 1128 (102049), pp. 1-5.

5. Agarwal, K.M., Sharma, P., Bhatia, D., Mishra, A., (2021). Concept Design of the Physical Structure for ICU Ventilators for COVID-19 Pandemic. *Sensors International*, 100092(1), pp. 1-10.

6. Agarwal, K.M., Singhal, A., Kapoor, A., Bhatia, D., (2021). Simulated Analysis of Ti-6Al-4V processed through Equal Channel Angular Pressing for Biomedical applications. *Materials Science for Energy Technologies*, 4(1), 290-295.

7. Tyagi, A., Prasad, A.K., Bhatia, D., (2021). "Effects of excessive use of mobile phone technology in India on human health during COVID-19 lockdown". *Technology in Society*, 67 (101762), pp. 1-7.

8. Biswas, S., Sen, D., Bhatia, D., Phukan, P., and Mukherjee, M., (2021). "Chest X-Ray image and pathological data based artificial intelligence enabled dual diagnostic method for multi-stage classification of COVID-19 patients". *AIMS Biophysics*, 8(4): 346-371.

9. Biswas, S., Sen, D., Bhatia, D., and Mukherjee, M., (2021). "COVID: A Hardware Accelerated Soft Computing Enabled Intelligent Value Chain Based Diagnostic Automation for nCOVID19 Estimation and Identification". *International Journal of Statistics in Medical Research*, 10, 146-160.

10. Agarwal, K.M., Shubham, P., Bhatia, D., Sharma, P., Vaid, H., Vajpeyi, R., (2022). Analyzing the Impact of Print Parameters on Dimensional Variation of ABS specimens printed using Fused Deposition Modelling (FDM). *Sensors International*, 3 (100149), pp. 1-9.

11. Biswas, S., Adhikari, S., Chawla, R., Maiti, N., Bhatia, D., Pranjali, P., Moumita, M., (2022). Artificial intelligence enabled non-invasive T-ray imaging technique for early detection of coronavirus infected patients. *Informatics in Medicine Unlocked*, 32 (101025), pp.1-8.

12. Sharma, P., Vaid, H., Vajpeyi, R., Shubham, P., Agarwal, K.M., Bhatia, D., (2022) Predicting the dimensional variation of geometries produced through FDM 3D printing employing supervised machine learning. *Sensors International*, 1(100194), pp. 1-12.

13. Roy, G., Bhatia, D., Bhaumik, S., (2022). Measurement, prediction and validation of human gait torque for lower limb assistive devices.

*Journal of Mechanics in Medicine and Biology*, 10(1142), pp. 1-8.

#### **Dr. Nitin Sahai:**

1. Rohini, S., Prusty, K.K., Sahai, N., Tewari, R.P., and Kumar, B., (2022). An FPGA-based design for power efficient low delay rate adaptive pacemaker using accelerometer and heart rate sensor, *Journal of Medical Engineering & Technology*, 46:1, 16-24, DOI: 10.1080/03091902.2021.1967490.

2. Rohini, S., Sahai, N., Tewari, R.P., and Kumar, B., (2021). Comparative analysis of piezo electric and accelerometer sensor for the design of rate adaptive pacemaker, *Measurement: Sensors*, Volume 16, 100053, ISSN 2665-9174, <https://doi.org/10.1016/j.measen.2021.100053>. Elsevier.

3. Sahai, N., Saxena, K.K., Gupta, N., Garg, S., Bora, U., Baishya, U.J., and Borah, V., (2021). Designing & simulation of a lightweight hip implant stem: an FEM based approach, *Advances in Materials and Processing Technologies*, DOI:10.1080/2374068X.2021.1934646

4. Sahai, N., Gogoi, M., & Ahmad, N., (2021). Mathematical Modeling and Simulations for Developing Nanoparticle-Based Cancer Drug Delivery Systems: A Review. *Curr Pathobiol Rep* 9, 1–8 <https://doi.org/10.1007/s40139-020-00219-5>

#### **Dr. Sudip Paul:**

1. Suri, J.S., Paul, S., Maindarkar, M.A., Puvvula, A., Saxena, S., Saba, L., Turk, M., Laird, J.R., Khanna, N.N., Viskovic, K., Singh, I.M., Kalra, M., Krishnan, P.R., Johri, A., Paraskevas, K.I., (2022). Cardiovascular/Stroke Risk Stratification in Parkinson's Disease Patients Using Atherosclerosis Pathway and Artificial Intelligence Paradigm: A Systematic Review. *Metabolites*, 12 (312) <https://doi.org/10.3390/metabo12040312>

2. Suri, J.S., Bhagawati, M., Paul, S., Protogerou, A.D., Sfikakis, P.P., Kitas, G.D., Khanna, N.N., Ruzsa, Z., Sharma, A.M., Saxena, S., Faa, G., Laird, J.R., Johri, A.M., Kalra, M.K., Paraskevas, K.I., Saba, L., (2022). A Powerful Paradigm for Cardiovascular Risk Stratification Using Multiclass, Multi-Label, and Ensemble-Based Machine Learning Paradigms: A Narrative Review. *Diagnostics*, 12 (722). <https://doi.org/10.3390/diagnostics12030722>

3. Suri, J.S., Bhagawati, M., Paul, S., Protogerou, A., Sfikakis, P.P., Kitas, G.D., Khanna, N.N., Ruzsa, Z., Sharma, A.M., Saxena, S., Faa, G., Paraskevas, K.I., Laird, J.R., Johri, A.M., Saba,

L., Kalra, M., (2022). Understanding the bias in machine learning systems for cardiovascular disease risk assessment: The first of its kind review. *Comput Biol Med.* 142(105204). <https://doi.org/10.1016/j.compbimed.2021.105204>.

4. Paul, S., Maindarkar, M., Saxena, S., Saba, L., Turk, M., Kalra, M., Krishnan, P.R., Suri, J.S., (2022). Bias Investigation in Artificial Intelligence Systems for Early Detection of Parkinson's Disease: A Narrative Review. *Diagnostics*, 12(166). <https://doi.org/10.3390/diagnostics12010166>

5. Reddy S., Paul S., Reddy, B. V., (2021). A Review on Wheelchair and Add-in Devices Design for Disabled. *International Journal of Biomedical Engineering and Technology (IJBT)*, accepted for publication.

6. Avutu, S. R., Paul, S., (2021). Design and Optimization of Direct Drive Motor Alloy Wheel for Manual Wheelchair. *International Journal of System Dynamics Applications (IJSDA)*, 10(4), 1-13. <http://doi.org/10.4018/IJSDA.20211001.oa10>

7. Mourya, G. K., Paul, S., Handique, A., Baid, U., Dutande, P., Talbar, S. N., (2021). Modified U-Net for Fully Automatic Liver Segmentation from Abdominal CT-Image. *International Journal of Biomedical Engineering and Technology (IJBT)*, accepted for publication.

Dr. Manashjit Gogoi:

1. Gogoi, M., (2021). Magnetic Nanostructures for Cancer Theranostic Applications, *Curr. Pathobiol. Rep.* 9: 71–78

2. Sahai, N., Gogoi, M. & Ahmad, N. Mathematical Modeling and Simulations for Developing Nanoparticle-Based Cancer Drug Delivery Systems: A Review. *Curr Pathobiol Rep* 9, 1–8 (2021). <https://doi.org/10.1007/s40139-020-00219-5>

3. Bhandari, S., Nath, A., Singh, L. R., Gogoi, M., Pradhan, B., Mahato, M., (2021). Sensing of Alphacypermethrin Pesticide Using Modified Electrode of Chitosan-Silver Nanowire Nanocomposite Langmuir Blodgett Film. *Int. J. Environm. Anal. Chem.* DOI: <https://doi.org/10.1080/03067319.2022.2052865>

#### **(viii) Books**

**Dr. Dinesh Bhatia:**

1. Bhatia, D. (2021). *Modern Technological Intervention Advancements for the Physically Challenged and Disabled Population*, Cambridge

Scholars Publishing, U.K. ISBN: 978-1-5275-7508-0.

2. Bhatia, D. (2022). *The Role of 3D Printing for the Growth and Progress of Medical Healthcare Technology*, Cambridge Scholars Publishing, U.K. ISBN: 1-5275-8236-1.

#### **Dr. Sudip Paul:**

1. Paul, S., Saikia, A., Majhi, V., Pandey, V.K. (2022). *Introduction to Biomedical Instrumentation and Its Applications*, Elsevier Science, Academic Press, ISBN 9780128216743, <https://doi.org/10.1016/B978-0-12-821674-3.12001-7>.

#### **(iii) Edited Books/Volumes.**

#### **Dr. Sudip Paul:**

1. Jain, S., Paul, S., editors. (2021). *Assistive Technology Intervention in Healthcare*. CRC Press. ISBN: 9781003207856.

2. Verma, J., and Paul, S., editors (2022). *Advances in Augmented Reality and Virtual Reality*. Springer, Singapore, ISBN: 978-981-16-7219-4.

3. Paul, S., & Jain, S., editors (2021). *Special Issue: Sensor-based Wireless Biomedical Systems for Health Technologies*. Measurement: Sensors ISSN: 2665-9174, 17(100058).

4. Saxena, S., Paul, S., editors. (2021). *Deep Learning Applications in Medical Imaging*. IGI Global. ISBN: 9781799850717 <https://doi.org/10.4018/978-1-7998-5071-7>

5. Manocha, A., Jain, S., Singh, M., Paul, S., editors. (2021). *Computational Intelligence in Healthcare*. Springer Nature, Singapore, ISBN 978-3-030-68722-9, <https://doi.org/10.1007/978-3-030-68723-6>

#### **(iv) Book Chapters.**

#### **Dr. Dinesh Bhatia:**

1. Bhatia, D., (2021). Smart Interfaces for Development of Comprehensive Health Monitoring Systems. In *Cognitive Computing Systems Applications and Technological Advancements*. Vishal Jain, Akash Tayal, Jaspreet Singh, Arun Solanki (Eds). Apple Academic Press, Chapter 7, pp.193-217.

2. Arivubrakan, P., Kanagachidambaresan, G.R., Bhatia, D. (2021). A review of energy efficient routing algorithm for wireless body area networks using machine learning. In *Advances in Medical Physics and Healthcare Engineering, Advances in Medical Physics and Healthcare Engineering Lecture Notes in Bioengineering*. Mukherjee M., Mandal J., Bhattacharyya S., Huck C., Biswas S. (Eds.) Springer, Singapore, Chapter 51, pp. 545-554.

3. Biswas, S., Prasad, A.K., Sen, D., Bhatia, D., Mukherjee, M., (2021). Comparative study on predictive mathematical models for risk assessment of nCOVID-19 pandemic in India. In *Advances in Medical Physics and Healthcare Engineering, Advances in Medical Physics and Healthcare Engineering Lecture Notes in Bioengineering*. Mukherjee M., Mandal J., Bhattacharyya S., Huck C., Biswas S. (Eds.) Springer, Singapore, Chapter 39, pp. 393-404.

4. Das, H.R., Bhatia, D., Patowary, A., Mishra, A., (2021). Multi-purpose robotic sensing device for healthcare services. In *Enabling Healthcare 4.0 for Pandemics*, Abhinav Juneja, Vikram Bali, Sapna Juneja, Vishal Jain, Prashant Tyagi. (Eds). Scrivener, Wiley (accepted) ISBN 9781119769088. Chapter 12, pp. 237 - 251.

#### **Dr. Sudip Paul:**

1. Avutu, S. R., Paul, S. (2021). Artificial intelligence algorithms for healthcare and neuro-rehabilitation engineering. In *Pervasive Healthcare*. Mohammad Shahid Husain, Muhamad Hariz Bin Muhamad Adnan, Mohammad Zunnun Khan, Saurabh Shukla, Fahad U Khan (Eds) Springer, Cham. [http://dx.doi.org/10.1007/978-3-030-77746-3\\_8](http://dx.doi.org/10.1007/978-3-030-77746-3_8), Chapter 8, pp. 103-118.

#### **Dr. Manashjit Gogoi:**

1. Das, B., Chabukdhara, M., Patra, S., Gogoi, M. (2021). Current knowledge on toxicity of nanomaterials. In *Nanotoxicology: Toxicity Evaluation of Nanomedicine Applications*, H. K. Daima, S. L. Kothari, S. K. Bhargava (Eds.) CRC press, 2021, DOI: 10.1201/9780429299742-14, Chapter 14, pp. 331-367

#### **(g) Proceedings of Seminar/Conferences.**

#### **Dr. Dinesh Bhatia:**

1. Gupta, M., Bhatia, D., Anand, B. (2021). Cognitive enhancement in neurodevelopmental delayed children employing repetitive transcranial magnetic stimulation. *IBRO-APRC Associate School of Neuroscience, University of Karachi, Pakistan*.

2. Biswas, S., Sen, D., Bhatia, D., Mukherjee, M. (2021). In-Silico Analysis of Alzheimer's Disease-Affected Brain Tissues Using a Novel Terahertz Thermography Technique. In the *Society for Neurochemistry India (SNCI) Satellite meeting held in collaboration with the APRC Associate School of the International Brain Research Organization (IBRO), Paris, France* organized by the Department of Biomedical



Engineering and Department of Education, North Eastern Hill University (NEHU), Shillong, Meghalaya, India.

3. Bhatia, D. (2021). Professional Development in Digital World in the *Two-Day International Conference on "Continuing Professional Development of Teachers in the Digital World"* organized by the Department of Education, North-Eastern Hill University (NEHU), Shillong, Meghalaya, India, in collaboration with the Department of Philosophy, Moran College, Moranhat, Charaideo Dist. Assam, India.

4. Bhatia, D. (2021). Digital capabilities for Healthcare in the *Two-Day International Conference on "Online Teacher Effectiveness and Digital Capabilities: Keys for Quality Education and Research"* organized by the Faculty of Humanities and Social Sciences, Chiang Mai Rajabhat University, Chiang Mai, Thailand in collaboration with the Department of Philosophy and IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India; and the Department of Education and IQAC, North-Eastern Hill University (NEHU), Shillong, Meghalaya, India

5. Bhatia, D. Wearable technological innovations in Neurosurgery. *Progress in Clinical Neurosciences*, Vol. 34, pp. 87-92 Thieme Publishers, ISBN: 978-93-90553-94-5.

6. Adhikari, S., Chakraborty, D., Bhatia, D., Phukan, P., and Mukherjee M. (2022) Terahertz Hyperthermia Technique for the Treatment of Hepatocellular Carcinoma: A Phantom Study. *International Cancer Congress Kolkata*.

7. Mourya, G.K., Bhatia, D., Gogoi, M., Talbar, S.N., Baid, U., Dudante, P. (2022). Modified ResNet for Volumetric Segmentation of Liver and Its Tumor from 3D CT" Lecture Notes in *Electrical Engineering book series (LNEE) volume 836*, pp. 295-302.

#### **Dr. Sudip Paul:**

1. Majhi, V., Paul, S., Saha, G. (2022). Impact of Surgical History on Parkinson's Disease Progression. In *IEEE Delhi Section Conference (DELCON)*, DOI: <https://doi.org/10.1109/DELCON54057.2022.9753658>, pp. 1-5.

2. Jain S., Paul, S. (2022). Determination of Risk Prediction using Random Forest Technique for Breast Cancer. In *IEEE Delhi Section Conference (DELCON)*, DOI: [10.1109/DELCON54057.2022.9752841](https://doi.org/10.1109/DELCON54057.2022.9752841), pp. 1-4.

3. Majhi, V., Sinha, A., Paul, S., Baruah, A.K. (2021). Designing of a Large Scale Automated Composite Book Sanitizer Machine. In

*International Conference on Computational Performance Evaluation (ComPE)*, DOI: [10.1109/ComPE53109.2021.9752459](https://doi.org/10.1109/ComPE53109.2021.9752459), pp. 702-709.

4. Parasar, K., Bhutia, N.C., Saikia, A., Jaiswal, S., Paul, S. (2021). Energy of the wavelet components in EEG signal during cognitive task. In *International Conference on Computational Performance Evaluation (ComPE)*, <https://doi.org/10.1109/ComPE53109.2021.9751943>, pp. 988-991.

5. Chakraborty, S., De, N., Marak, D., Borah, M., Paul, S., Majhi, V. (2021). 21 Voice Controlled Robotic Car Using Mobile Application. In *206th International Conference on Signal Processing, Computing and Control (ISPCC)*, DOI: [10.1109/ISPCC53510.2021.9609396](https://doi.org/10.1109/ISPCC53510.2021.9609396), pp. 1-5.

6. Bhagawati, M., Paul, S. (2021). Machine Learning for Major Depressive Disorder: An Overview. In *9th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO)*, DOI: [10.1109/ICRITO51393.2021.9596323](https://doi.org/10.1109/ICRITO51393.2021.9596323), pp. 1-4.

#### **Dr. Manshjit Gogoi:**

1. Mourya, G.K., Bhatia, D., Gogoi, M., Handique, A. (2021) CT Guided Diagnosis: Cascaded U-Net for 3D Segmentation of Liver and Tumor. In *IOP Conf. Ser. Mater. Sci. Eng.*, doi: [10.1088/1757-899X/1128/1/012049](https://doi.org/10.1088/1757-899X/1128/1/012049), vol. 1128, no. 1, Apr. 2021, p. 012049.

2. Mourya, G.K., Bhatia, D., Gogoi, M., Handique, A., "CT Guided Liver Tumor Biopsy Framework," *IOP Conf. Ser. Mater. Sci. Eng.*, vol. 1128, no. 1, p. 012048, Apr. 2021, doi: [10.1088/1757-899X/1128/1/012048](https://doi.org/10.1088/1757-899X/1128/1/012048).

#### **Mr. Shyamal Mandal:**

1. Mandal, S., Binong, J. (2021). Synthesis and Characterization of Uniform Size Gold Nanoparticles for Colorimetric Detection of pregnancy from Urine. In *2<sup>nd</sup> International Conference on Frontiers in Computing and Systems COMSYS 2021*, Shillong, Springer ISBN9789811901058, pp. 419-424.

#### **(c). Popular Articles (News Paper and Magazines)**

##### **Dr. Dinesh Bhatia:**

1. 2021. "Pandemic Severe on Low-skilled Workers: Study" in The Shillong Times Sunday Edition on 4<sup>th</sup> July, 2021.

2. Impactful Research Repository of World Health Organization highlights work on "COVID

19 employing AI and IoT enabled computing” in 2021-22

**IPR Items:**

**(a) Patents:**

**(ii) National**

**(B) Published**

**Dr. Dinesh Bhatia:**

<b>Name(s) of the Inventor(s)</b>	<b>Title</b>	<b>Date of Publication</b>	<b>Patent No.</b>
1. Dr. Aditya Kumar Gupta, Mr. M. Vijayaragavan, Dr. V. Krishnakumar, Mrs. Rubika walia, Dr. Dinesh Bhatia, Dr. N. Janaki, Dr. T. R. Premila, Ms. A. Wisemin Lins, Mrs. REKHA. J, Ms. Samridhi Mittal	Abnormal Vehicle Speed Detection Using AI	23rd July, 2021	202111028619
2. Dr. Dinesh Bhatia, Mr. J. Ramesh M. Vijayaragavan, G. G. Muthukumar Dr. T. Vinoth Kumar, Mr. S. Narsimulu, Mr. JC Achutha, Dr. Vijay Ramkisan Lakwal, Dr. Trupti Bhausaheb Namekar, Dr. Dinesh Sheshrao Kharate	Lithium-ION Battery Ageing Management For Electric Vehicle	20th August, 2021	202131034180
3. Dr. S. Prabhu, Dr. Dinesh Bhatia, Dr. M. Sudhakaran, M. Vijayaragavan, Dr. V. Elizabeth Jesi, Prof. Dharamvir, A. Sahana, Dr. K. Tharaka Rami Reddy, Dr. Gaurav Srivastava, Dr. T. Vinoth Kumar	AI Based Energy Sustainability in Smart Cities.	6th August, 2021	202141034791 A
4. Mr. Zatin Gupta, Dr. Dinesh Bhatia, Mr. R. Raghu Raman, Mr. Mahendra Pratap Swain, Dr. Arun Kumar Gupta, Dr. Anish Kumar, Dr. Rakesh Chandmal Sharma, Varun Bhadoriya, Niharika Jain Tanisha	Adaptive 4D-printed system for highly versatile multi-disciplinary applications	10th September, 2021	202111039495 A
5. Dr. Siva Shankar Ramasamy Dr. K. Chokkanathan Ms. Sai Sudha Gadde Dr. Mohammed Saiim Khan Ms. Natasha Sharma, Dr. Dinesh Bhatia, Mrs. Lincy N L, Mrs. Neenu Kuriakose Mr. M. Vijayaragavan	Blockchain enabled Intelligent IoT Architecture with AI	24th September, 2021	202141038370 A
6. Dr. Jabez J, Dr. S. P. Abirami Dr. A. Priyadharshini, Ms. Natasha Sharma, Dr. Dinesh Bhatia, Dr. M. Venmathi, Dr. P. Anbarasan, Dr. M. Vijayaragavan	Smart AI-Powered Medical Platform with virtual nursing Assistants	29th October, 2021	202141047796
7. Dr. Dinesh Bhatia, Ms. Natasha Sharma, Dr. C. S. Sundar Ganesh, Ms. S. Priya Ms. Swati Srivastava	Forecasting Emergency Surgical volumes in Hospitals using Hybrid Machine Learning	10th December, 2021	202131050401 A

	Models.		
8. Dr. P. Chitra, Dr. Dinesh Bhatia, Dr. M. Vijayaragavan, Ms. Natasha Sharma	Ecommerce Sales Forecasting Using Machine Learning and Deep Learning	10th December, 2021	202141053798 A
9. Dr. Dinesh Bhatia, Mr. Zatin Gupta, Ms. Pooja Vajpayee, Ms. Natasha Sharma, Mr. Prabhat Kumar Patnaik, Dr. Natashaa Kaul, Dr. Ajay Kumar Sahu, Dr. V. Padmavathi, Ms. Surbhi Vijh, Mr. P. Naveen	IOT System Based on Blockchain Technology Produces a Superior Level of Safety in Communication	10th December, 2021	202131054332 A
10. Dr. Kedri Janardhana, Dr. D Mohan Reddy, Dr. Dinesh Bhatia, Dr. Rahul Dubey	Electric Unicycle Scooter	10th September, 2021	202111039495 A

**Dr. Manashjit Gogoi:**

Name(s) of the Inventor(s)	Title	Date of Publication	Patent No.
1. Dr. Mrityunjoy Mahato, Dr. Manashjit Gogoi, Mr. Aunggat Shah, Mr. Santu Mandal	The pyrolysis reactor apparatus and the process of MWCNT/H <sub>2</sub> production using plastic waste	21st April, 2021	202131018430

**(C) Granted**

**Dr. Dinesh Bhatia:**

Name(s) of the Inventor(s)	Title	Date of Grant	Patent / Copyright No.
Dr. Pankaj Dadheech, Dr. V. Krishnakumar, Dr. P. Anbarasan, Dr. Dinesh Bhatia	AI-Enabled Real-Time Sensing And Decision Making For IOT Systems	23rd September, 2021	22291 Indian Copyright registered
Meena Gupta, Dinesh Bhatia	Combination of cognitive exercises and 5 Hz frequency of repetitive transcranial magnetic stimulation (r-TMS) improve the cognition in cerebral palsy children.	31st January, 2022	L-111354/2022 Indian Copyright registered
Dr. Kedri Janardhana, Dr. D Mohan Reddy, Dr. Dinesh Bhatia, Dr. Rahul Dubey	Electric Unicycle Scooter	10th September, 2021	346239001

**Dr. Sudip Paul:**

Name(s) of the Inventor(s)	Title	Date of Grant	Patent No.
Sudip Paul, Masaraf Hussain, Vinayak Majhi, Angana Saikia	Tremor Identification Device for Parkinson's Disease	8th April 2021	364299

**(iii) International**

**(A) Granted**

**Dr. Dinesh Bhatia:**

Name(s) of the Inventor(s)	Title	Date of Grant	Patent No.
A.V. L. N Sujith, Narmada Alaparthi, A. Gautami Latha, B. Narendra Kumar, Dinesh Bhatia, Joseph A.,	Autism Disorder Prediction Using Deep Learning Approach	2nd July, 2021	2021103835 Australian Patent

Kumaresan Renjit Linda, Bhavani J., Arokia Durga, Kakirala J., Nirmal Jothi			
Moumita Mukherjee, Debajit Sen, Swarnava Biswas, Moumita Dey, Dinesh Bhatia, Pranjal Phukan	An AI Based Screening Method For a Detection and Automated Isolation of a Covid-19 Positive Patient	13th April, 2021	2021104487 Australian Patent
Dr. Dinesh Bhatia, Dr. Ahmad Nazir, Dr. Ahamed Shaik Khaleel	Brain-Computer Interface cutting edge Technology using AI for future communication	7th September, 2021	1185885 Canadian Patent
Dr. Dinesh Bhatia, Dr. Archana Chaudhary, Ms. Sai Sudha Gadde	A system based on AI and ML for robotics simulation and automation with method thereof	27th September, 2021	1186724 Canadian Patent

**Dr. Sudip Paul:** *checking done*

Name(s) of the Inventor(s)	Title	Date of Grant	Patent No.
Vinayak Majhi, Aseem Sinha, Sudip Paul, Richman Kharwanniang, Ashit K. Baruah, F. R Sumer, J. P. Nongbri, B. J. D. Wahlang	A Method And an Automatic Device For Disinfecting Books Using Heat And Ultraviolet Rays.	6th January 2021	2020103336 Australian Patent

#### Funds Received during the current Year

##### (O) Bulk Grant to Department/Centre/Section etc. other than EMR grant

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	Rs. 4,60,000/-

##### (P) EMR Research Projects to individual faculty members:

Title of Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of Investigator (PI/Co-PI)	Multi/Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
DEVELOPMENT OF COST EFFECTIVE WEB AND MOBILE APPLICATION FOR DETECTION OF PARKINSON'S DISEASE (61.42 L)	ongoing	Dr. Sudip Paul (PI) Dr. Dinesh Bhatia (Co-PI)	Multi Institute (JAN 2019-SEP 2022)	IMPRINT -2, Science and Engineering Research Board, Govt. of India	15 L
DEVELOPMENT OF GAIT TRAINING TOOLS AND MOBILITY AIDS FOR PARKINSON'S PATIENTS (71.12 L)	ongoing	Dr. Sudip Paul (PI) Dr. Gajendra Kumar Mourya (Co-PI)	Multi Institute (JAN 2021-JAN 2024)	DBT's Twinning Programme for NER, Department of Biotechnology (DBT), Govt. of	27.54L

QUANTUM DOT BASED BIOSENSOR FOR EARLY DETECTION OF PROSTATE CANCER USING MULTIPLE BIOMARKERS IN BIOLOGICAL SAMPLES  (57 L)	ongoing	PI: Dr. Manashjit Gogoi, Dr. Abhijeet Balwantrao Joshi;  Co-PI: Dr. Mrityunjoy Mahato, Dr. Prashant Kodgire, Dr. Arup Jyoti Baruah, Dr. Chandan Kumar Nath)	Multi Institute (Mar2019-Mar 2023)	India Department of Biotechnology, Government of India.	Nil
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### Academic Collaborations

#### (i). National

Dr. Dinesh Bhatia:

Sl. No	Name of collaborator(s)	Institution	Title of project/ academic activity
1	Dr. H.R. Das	Royal Global University, Guwahati, Assam	Innovation, Incubation, IPR and Design
2	Prof. Prakash Babu	University of Hyderabad	Society for Neurochemistry India, Hyderabad, elected Executive Committee member and ongoing academic and research activities.
3	Prof. Moumita Mukherjee	Adamas University, Kolkata	Terahertz Imaging for Diagnosis of human health.

Dr. Manashjit Gogoi:

Sl. No	Name of collaborator(s)	Institution	Title of project/ academic activity
1	Dr. Rajpal Singh Kashyap and Dr. Aliabbas Husian	CIMS-Nagpur	Screening of human Brucellosis in Northeast region using point of care immunological and molecular tools
2	Dr. Abhijeet Balwantrao Joshi and Dr. Prashant Kodgire	IIT-Indore	Quantum Dot Based Biosensor for Early Detection of Prostate Cancer Using multiple biomarkers in Biological samples
3	Dr. Arup Jyoti Baruah	NEIGRIHMS, Shillong	Quantum Dot Based Biosensor for Early Detection of Prostate Cancer Using multiple biomarkers in Biological samples
4	Prof. Sanjukta Patra	IIT Guwahati	Working on a project for detection of TB

#### (ii) International

Dr. Dinesh Bhatia: *Checking done*

Sl. No	Name of collaborator(s)	Institution	Title of project/ academic activity
1	Wan-Chen Tsai	International Medical Centre National Cheng Kung University Hospital (NCKUH), Taiwan	3D Printing and design for innovative healthcare devices.
2	Dr. Rebecca Hadid	International Brain Research	Neuro developmental Disorders

	and Dr. Cheah Pike See.	Organization (IBRO), France	and Brain research
3	Dr. Sanjeev Nara	University of Geissen, Germany	Healthcare Imaging modalities.

## Honours/Awards/Recognition/Membership/Fellowship

### a) Members of the Editorial Boards of national/international journals;

Dr. Dinesh Bhatia:

1. Editorial Board Member, International Journal of Advances in Applied Sciences ISSN 20252-8814, Yogyakarta, Indonesia from November 2020 till November 2022.
2. Editorial Board Member and Reviewer in International Journal of Statistics in Medical Research, USA ISSN 1929-6029 since 30<sup>th</sup> July, 2021.
3. Editorial Board Member and Reviewer in International Journal of Statistics in Medical Research, USA ISSN 1929-6029 since 30<sup>th</sup> July, 2021.
4. Editorial Board Member, International Journal of Advances in Applied Sciences ISSN

5. 20252-8814, Yogyakarta, Indonesia from November 2020 till November 2022.

Dr. Sudip Paul:

1. IEEE Best Track paper Award 2021 (ComPE-2021). IEEE Best Track paper Award 2021 (ComPE- 2021). Majhi, V., Sinha, A., Paul, S., Baruah, A.K. (2021). Designing of a Large Scale Automated Composite Book Sanitizer Machine. *International Conference on Computational Performance Evaluation (ComPE)*. pp. 702-709, DOI: 10.1109/ComPE53109.2021.9752459.

### Recipients of individual awards at the state or central level

Mr. Shyamal Mandal:

1. Young Researcher Award 2022 by InSc Institute of Scholar. 2022

### c) Outreach activities

**Dr. Dinesh Bhatia:**

1. Certificate of Appreciation for outstanding support and contribution as Reviewer for IEEE Asia-Pacific Conference on Applied Electromagnetics (APACE2021), Malaysia from 20<sup>th</sup> to 22<sup>nd</sup> December, 2021.
2. Certificate of Appreciation by International Conference on Computer Science, Information

Technology and Electrical Engineering (ICOMITEE), Banyuwangi, Indonesia from 27<sup>th</sup> to 28<sup>th</sup> October, 2021.

### d) Memberships/Fellowships/Visiting Fellows of statutory bodies of recognized educational institutions outside NEHU

Dr. Sudip Paul:

1. IEEE SENIOR MEMBER (since 20.02.2021)

Dr. Manashjit Gogoi:

- 1) Chartered Engineer and Life member of Institution of Engineers, India (M-1561671)
- 2) Life member of Indian Science Congress Association (L24046)
- 3) Life Member of Society of Biomedical Engineering India (LM-1038)
- 4) Life Member of Biomaterials and Artificial Organs (LM-640)
- 5) Life Member of Indian Society for Training & Development (G-1191/2020)
- 6) Life Member of IIT-Bombay Alumni Association (140007)

### Mr. Shyamal Mandal:

1. Life member Society for Neuro Chemistry
2. Life member Indian Science Congress
3. Life Member Biomedical Engineering Society of India(BESI)
4. Professional Member of InSc International Publisher Young Researcher Award 2022 by InSc Institute of Scholar. 2022

### Other Activities

#### (a) Invited Talk

**Dr. Dinesh Bhatia: Checking done**

1. Delivered invited talk on Simulation Analysis of Ti-6Al-4V processed through Equal Channel Angular Pressing using Ansys Software for Biomedical applications in *International Conference On Progressive Research In Industrial & Mechanical Engineering, PRIME 2021*, NIT, Patna from 5<sup>th</sup> to 7<sup>th</sup> August, 2021.
2. Delivered invited talk on Cognitive enhancement in neurodevelopmental delayed children employing repetitive transcranial magnetic stimulation in *IBRO-APRC Associate School Of Neuroscience*, University of Karachi, Pakistan from 26<sup>th</sup> to 31<sup>st</sup> July, 2021 Delivered invited talk on “*In-Silico Analysis Of Alzheimer's Disease-Affected Brain Tissues Using A Novel Terahertz Thermography Technique*” in the Society for Neurochemistry India (SNCI)

Satellite meeting held in collaboration with the APRC Associate School of the International Brain Research Organization (IBRO), Paris, France organized by the Department of Biomedical Engineering and Department of Education, North Eastern Hill University (NEHU), Shillong, Meghalaya, India from 30<sup>th</sup> October to 1<sup>st</sup> November, 2021. Delivered invited talk on Professional Development in Digital World in the *Two-Day International Conference On Continuing Professional Development Of Teachers In The Digital World* organized by the Department of Education, North-Eastern Hill University (NEHU), Shillong, Meghalaya, India, in collaboration with the Department of Philosophy, Moran College, Moranhat, Charaideo Dist. Assam, India during 6<sup>th</sup> -7<sup>th</sup> September 2021. Delivered invited talk on Digital capabilities for Healthcare in the *Two-Day International Conference on Online Teacher Effectiveness And Digital Capabilities: Keys For Quality Education And Research* organized by the Faculty of Humanities and Social Sciences, Chiang Mai Rajabhat University, Chiang Mai, Thailand in collaboration with the Department of Philosophy and IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India; and the Department of Education and IQAC, North-Eastern Hill University (NEHU), Shillong, Meghalaya, India during 5<sup>th</sup>-6<sup>th</sup> October 2021. Delivered invited talk on Terahertz Hyperthermia Technique For The Treatment Of Hepatocellular Carcinoma: A Phantom Study in *International Cancer Congress 2022*, Kolkata from 12<sup>th</sup> to 13<sup>th</sup> February, 2022.

3. Delivered invited talk on “Blockchain Technology for Healthcare” in *online Faculty development programme (FDP) “Precision Healthcare Technology”* organized by the Department of Biomedical Engineering, SSNCE from 28<sup>th</sup> June to 2<sup>nd</sup> July, 2021.

4. Delivered invited talk on “Wearable Technological Innovations in Healthcare” during the Annual Conference of the Neurological Society of India (NSI), from 10<sup>th</sup> - 12<sup>th</sup> December 2021. Delivered invited talk on “Blockchain and IoT for Healthcare” during *AICTE Sponsored STTP on "Advanced Technology to bridge the gap between medical science and engineering for the benefit of mankind* from 26<sup>th</sup> -31<sup>st</sup> July, 2021 and 23<sup>rd</sup> to 28<sup>th</sup> August, 2021. Delivered invited talk on “Applications of Block chain and IoT in Health care” during the Online Faculty Development Programme (FDP) on *Machine learning for Internet of Things(IoT), Natural Language Processing & Computer Vision* organized by

Jaypee Institute of Information Technology, Noida, Uttar Pradesh from 16<sup>th</sup> to 21<sup>st</sup> August, 2021.

5. Delivered invited talk on “Role of Cognitive Neuroscience and Risk Prevention Strategies pre and post pandemic” during the *35<sup>th</sup> Annual Conference of Society for Neurochemistry, India (SNCI) and International Conference on “Neurodegeneration and Cognition-Recent Advances in Neurological Diseases”* organized by the University of Hyderabad, Hyderabad from 2<sup>nd</sup> to 4<sup>th</sup> December, 2021.

Dr. Manashjit Gogoi:

1. Invited talk on Nanomedicine for cancer theranostic application in *QIP & AICTE Sponsored Short-Term Course on Emerging Techniques and Applications in Biosciences and Bioengineering Research* organized by IIT Indore during 21<sup>st</sup> -26<sup>th</sup> March 2022.

2. Invited talk on Magnetic nanoparticles for theranostic applications of Neurodegenerative diseases in *Global Engagement Workshop on Neurodegenerative Diseases* organized by International Brain Research Organization at NEHU, Shillong during 1<sup>st</sup> -5<sup>th</sup> October 2021.

#### **(b) Editors/Reviewers for Journals of national/international repute**

**Dr. Dinesh Bhatia:**

1. Reviewer for IBRO Reports, Elsevier.

2. Reviewer for AIMS Bioengineering (ISSN 2375-1495) Journal, Springfield, USA.

3. Reviewer for International Journal of Biomedical and Clinical Engineering (IJBCE), IGI Global, USA. Reviewer for IPMU Journal of Energy Harvesting and Storage ISSN: 2722-3221, Indonesia.

4. Reviewer for article for the book entitled “Recent advancements in recycling materials” published by River Publishers. Reviewer of Measurement, the Journal of the International Measurement Confederation, Elsevier since August, 2021.

5. Reviewer of the Expert Systems with Applications, Elsevier Journal.

6. Reviewer of Int. J. of Medical Engineering and Informatics, Inderscience Publishers since December 2021.

7. Reviewer for International Journal of Statistics in Medical Research, Lifescience Global, Canada.

8. Reviewer for Biomedical Signal Processing and Control, Elsevier.

**Dr. Sudip Paul:**

1. Guest Editor (2022). *Advancement in Biomaterials & Smart Materials for Healthcare*, Tech Science Press, ISSN: 1546-2218.

Dr. Manashjit Gogoi:

- 1) Reviewer of Cellulose (Springer)
- 2) Reviewer of Bio Nanoscience (Springer)
- 3) Reviewer of Nanoscience and Nanoengineering Journal (Horizon Research Publishing, USA)
- 4) Reviewer of Universal Journal of Medical Science (Horizon Research Publishing, USA)
- 5) Materials Today Proceeding
- 6) Reviewer of IEEE Biomedical Research Journal

**Mr. Shyamal Mandal:**

1. Reviewer of INSC International Journal, India

**(c) Outreach activities**

**Dr. Dinesh Bhatia:**

1. Member, National Education Policy, 2022 Implementation, NEHU, Shillong since 16<sup>th</sup> February, 2022.
2. Member Board of Studies in BME Osmania University, Hyderabad, June, 2022.

**(d) Panellists, judges, moderators, etc. of events held at recognized academic institutions within or outside the University and its affiliated institutions**

**Dr. Dinesh Bhatia:** *Checking done*

1. Invited Evaluator for NRDC- TDVC Program for the Year 2021-22 by National Research Development Corporation (NRDC), GoI, New Delhi since February, 2022.
2. Primary Evaluator, for Toyathon 2021 by AICTE, New Delhi on 15<sup>th</sup> December, 2021.
3. Invited Evaluator/Domain Expert for NRDC- TDVC Program for the Year 2022-23 by National Research Development Corporation (NRDC), GoI, New Delhi.
4. Panel Expert for Discussion on Draft policy on Circular economy in EEE India organized by The North East Development Foundation (NED) and the Council for Social and Digital Development (CSDD) on 15<sup>th</sup> June, 2021.
5. External Advisors, Institution Innovation Council (IIC), under aegis of Ministry of Education (MoE), Royal Global University, Guwahati, Assam for 2021-2022.

**Dr. Manashjit Gogoi:**

1. Member of Expert Committee in Biomedical Engineering for evaluating project proposals for National Research Development Corporation (NRDC), GoI, New Delhi

2. Member of Expert Committee for evaluating DST - INSPIRE-MANAK project proposals of school students.

**Mr. Shyamal Mandal:**

1. Syllabus Moderator “Diploma In medical Laboratory Technology (DMLT)”, West Bengal State Council of Technical and Vocational Education.

**(e) Lectures delivered at Refresher Courses/ Orientation Programs/ Workshops, etc.**

**Dr. Dinesh Bhatia:**

1. Delivered Lecture for the AICTE Sponsored One Week Short Term Training Program on “Advanced Technology to bridge the Gap between Medical Science and Engineering for the Benefit of Mankind” organized by JIS College of Engineering, West Bengal from 26<sup>th</sup> to 31<sup>st</sup> July, 2021.
2. Delivered Lecture for the One Day International Workshop on Open Educational Resources (OER) and Massive Open Online Courses (MOOC) for Reflective Learning 2<sup>nd</sup> August 2021 organized by the Department of Philosophy, Moran College, Moranhat, Assam, India and State College of Teacher Education (SCTE), Kohima, Nagaland, India in collaboration with School of Education, North-Eastern Hill University (NEHU), Shillong, Meghalaya, India
3. Delivered Lecture during One-Day International Workshop on “Youth Empowerment for Better Society” organized by Centre for Extension Studies, Sri Venkateswara University (SVU), Tirupati, Andhra Pradesh, India in Collaboration with School of Education, North-Eastern Hill University (NEHU), Shillong, Meghalaya, India on 12<sup>th</sup> August 2021.
4. Delivered Lecture for the One-Day International Workshop on “Innovative Ways to Enhance Physical Health and Mental Health in the COVID-19 Pandemic”, organized by Sports Department, NEHU, Shillong and Campus Placement and Counselling Cell, NEHU, Tura In Collaboration with Department of Education, NEHU, Shillong, Meghalaya, India on 29<sup>th</sup> August 2021. Delivered Lecture for the 21 day International Workshop cum FDP on Innovative Techniques for Professional Development of Teachers in Higher Education organized by the Department of Education, NEHU, Shillong in collaboration with Department of Philosophy, Moran College, Assam from 1<sup>st</sup> to 21<sup>st</sup> September, 2021.
5. Delivered Lecture for Symposium on “BASIC INSIGHTS OF NEUROSCIENCE



AGAINST NEUROLOGICAL STRESS” jointly organized by the SNCL, Chennai Chapter, Department of Biochemistry, University of Madras, Guindy Campus, Chennai and Department of Biochemistry, Ethiraj college for women, Egmore, Chennai on 22<sup>nd</sup> and 23<sup>rd</sup> November, 2021.

6. Delivered Lecture at the “2<sup>nd</sup> Doctoral Thesis International Conference on Social Sciences, Humanities, and Multidisciplinary Research” organized by the IQAC, NEHU, Shillong, Meghalaya, India, in collaboration with the Department of Philosophy, Moran College, Moranhat, Charaideo Dist, Assam, India, and Department of Philosophy, SVU Computer Centre, Sri Venkateswara University, Tirupati, Andhra Pradesh, India on 26<sup>th</sup> February 2022.

#### **Dr. Manashjit Gogoi:**

1. Delivered Lecture, “3D Printed Microfluidic devices for Biomedical Applications” Refresher course in Biomedical Engineering held at UGC-Human Resource Development Centre, NEHU, Shillong during February 16<sup>th</sup> - March 1<sup>st</sup>, 2022

2. Delivered Lecture, “Multifunctional magnetic nanomaterials for cancer theranostic applications” Refresher course in Biomedical Engineering held at UGC- Human Resource Development Centre, NEHU, Shillong during February 16<sup>th</sup> to March 1<sup>st</sup>, 2022

3. Delivered Lecture, “Paper based Biosensors for detection of cancer” Refresher course in Biomedical Engineering held at UGC- Human Resource Development Centre, NEHU, Shillong during February 16<sup>th</sup> to March 1<sup>st</sup>, 2022

4. Delivered Lecture, “Multifunctional magnetic nanomaterials for cancer theranostic applications” Refresher course in Materials Science and Nanotechnology held at UGC-Human Resource Development Centre, NEHU, Shillong during September 24<sup>th</sup> to October 8<sup>th</sup>, 2021.

5. Delivered Lecture, “Nanomedicine for cancer drug delivery” Refresher course in Materials Science and Nanotechnology held at UGC-Human Resource Development Centre, NEHU, Shillong during September 24<sup>th</sup> to October 8<sup>th</sup>, 2021.

Details of Faculties	Name		1	Dr. Dinesh Bhatia	Dr Nitin Sahai	Dr. Sudip Paul
	Date of Joining		2	01.08.2013	27.06.2012	26.06.2012
	Field of specialisation		3	Biomedical Engineering	Biomechanics & Rehabilitation Engineering, Tissue Engineering, Biomaterials, Computer Aided Tissue Engineering, 3D Printing	Electrophysiology; Biomedical Instrumentation; Machine Learning and ANN; Biomedical Signal Processing; Rehabilitation System; Neural mechanism and motor neural; Cognitive disorders
(A) Teaching Experience (in Years)	UG		4	19	10	10
	PG, including PhD		5	10	2	7
	Basic Research		6	Yes	Yes	Yes
	Applied Research		7	Yes	Yes	No
	Action Research		8	Yes	Yes	No
	Project Submitted		9	0	0	0

(B) Research activities	Ongoing Project		1 0	1	0	2
	Research Paper in UGC care list journals	Group I	1 1	6	0	0
		Group II	1 2	7	4	7
	Books /Books chapters Published	Books	1 3	2	0	1
		Book Chapters	1 4	4	0	1
	Popular Articles (News Paper/ Magazines)		1 5	1	0	0
	Seminar / Conference/ Symposia organized	National	1 6	0	0	1
		International	1 7	2	0	3
	Seminar / Conference/ Symposia attended	National	1 8	0	0	7
		International	1 9	0	0	1
	Conference Proceedings		2 0	0	0	6
	Consultancy		2 1	0	0	0
(C) Patent	Applied		2 2	0	0	0
	Published		2 3	9	0	0
	Granted		2 4	4	0	2
(D) E-Content	MOOC/SWAYAM / E-content developed		2 5	0	0	0
(E) Any Other	Teaching /Extension /outreach activities		2 6	Yes	Yes	Yes
	Responsibilities other than teaching		2 7	Yes	Yes	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		2 8	Yes	No	Yes
	Collaborations	National	2 9	3	0	No
		International	3 0	3	0	No

Details of Faculties	Name		1	Dr. Manashjit Gogoi	Mr. G K Mourya	Mr. Shyamal Mandal
	Date of Joining		2	30.07.2012	26.04.2013	29.04.2013
	Field of specialisation		3	Nano-medicine	Medical Image Processing, Biomedical Instrumentation, Biomedical Signal Processing, Machine Learning and Deep Learning	Medical Imaging, Biosensor, Biomaterials, Nano-materials.
(A) Teaching Experience (in Years)	UG		4	9	9	9
	PG, including PhD		5	Yes	6 months	00
(B) Research activities	Basic Research		6	No	Yes	No
	Applied Research		7	Yes	No	Yes
	Action Research		8	Yes	No	Yes
	Project Submitted		9	0	0	0
	Ongoing Project		10	1	1	0
	Research Paper in UGC care list journals	Group I	11	0	0	0
		Group II	12	3	0	0
	Books /Books chapters Published	Books	13	1	0	0
		Book Chapters	14	1	0	0
	Popular Articles (News Paper/ Magazines)		15	0	0	0
	Seminar / Conference/ Symposia organized	National	16	0	3	0
		International	17	0	0	0
	Seminar / Conference/ Symposia attended	National	18	0	3	0
		International	19	0	1	3
	Conference Proceedings		20	2	2	1
	Consultancy		21	0	0	0
(C) Patent	Applied		22	0	0	0
	Published		23	1	0	0
	Granted		24	0	0	0
(D) E-Content	MOOC/SWAYAM/ E-content		25	0	0	0

	developed					
(E) Any Other	Teaching /Extension /outreach activities		26	Yes	No	No
	Responsibilities other than teaching		27	Yes	Yes	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	Yes	No	Yes
	Collaborations	National	29	4	No	No
		International	30	0	No	No

## DEPARTMENT OF COMPUTER APPLICATION

Head : Dr. Anindya Halder  
 Telephone No : 7980918985 (M)  
 E-mail: anindya.halder@nehu.ac.in/hodca@nehu.ac.in  
 Faculty Profile : 3

Designation	Name and Qualification	Specialization
Assistant Professor	Dr. Anindya Halder, MCA (Kalyani Univ.), Ph.D. (Jadavpur Univ.)	Machine Learning, Soft Computing.
	Dr. Ansuman Kumar, M.Tech-IT (Tezpur Univ.), Ph.D. (NEHU).	Bioinformatics, Machine Learning, Pattern Recognition, Theory of Computation and Computer Networks
	Dr. Rubul Kumar Bania, M.Tech-IT (Tezpur Univ.), Ph.D. (NEHU).	Artificial Intelligence, Machine learning, Sentiment Analysis.

**Thrust Areas of Research:** Machine learning, Bio-informatics, Bio Medical Image analysis, Sentiment Analysis.

### Brief Statement of Academic Activities and achievements:

The Department of Computer Applications was established in the year of 2012 under the School of Technology. The Department offers Master's programme of Computer Applications (MCA) since 2013 and the Ph.D. programme in Computer Applications from 2016. The core part of the MCA curriculum embodies theoretical and practical knowledge basic to the industry/academic/research with special reference to emerging technologies relevant to the field of computer applications. In view of 2020 guideline of the AICTE, the 3 years MCA programme is revised to two years duration from 2020-21 academic years and accordingly the MCA syllabus is also revised in September, 2020.

### Students' Profile

**Enrolment Capacity: MCA: 25 and Ph.D.: Variable**

### Enrolment of students from different States of India and Abroad

STATE(Name)	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	4	2											4	2
Meghalaya	1	-	6	12									7	12
Sub Total	5	2	6	12									11	14
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	7		18		0		0		0		0		25	

### Degrees Awarded Degree:

**M.C.A. (2018 Batch)**

### DEGREES AWARDED TO STUDENTS FROM DIFFERENT STATES OF INDIA AND ABROAD

STATE(Name)	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh			2										2	
Assam	5		1										6	
Manipur				1										1
Meghalaya	2		3	4									5	4
Nagaland				1										1
Uttar Pradesh	1												1	
Sub Total	8		6	6									14	6
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	8		12		0		0		0		0		20	

## Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Rubul Kumar Bania	Detection and Classification of Breast Lesions from Mammogram Images	Dr. Anindya Halder (Supervisor)

## Placement of Students

Name of the Student(s)	Name of the Programme	Post Held	Place of Work
Bikram Rongpi	MCA	System Administrator	Alegra Labs Gmbh, Guwahati
Ajay Prajapati	MCA	Software Engineer	ZaloniInc, Guwahati
Debasish Barman	MCA	Software Engineer	One Traker Pvt Ltd, Guwahati
Suraj Ali	MCA	Software Engineer	Assam Technologies Pvt Ltd, Guwahati
ThomsPura	MCA	Associate Media Coordinator	National Skill Development Corporation, Delhi
Abhik Paul	MCA	Software Engineer	ZaloniInc, Guwahati

## Research Fellowship

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others
NIL	1	NIL	NIL	NIL	N/A

## Courses Conducted

### Postgraduate: Master of Computer Application

#### Semester I

Digital Logic Design, Programming and Problem Solving through C (Theory and Practical), Organisational Behaviour, Discrete Mathematics, Computer Organization and Architecture.

#### Semester II

Theory of Computation, Data Structures Using C/C++ (Theory and Practical), Object Oriented Programming and Design using C++ (Theory and Practical), Computer Graphics (Theory and Practical), Accounting Financial Management.

#### Semester III

Database Management System-I, Data Communication and Networks-I, Operating System (Theory and Practical), Design and Analysis of Algorithms, GUI Programming Using VB.NET (Theory and Practical).

#### Semester IV

Software Engineering; Data Communication and Networks-II and Network Programming using Linux (Theory and Practical), Oracle (Theory and Practical), Database Management System-II, Internet Technology and Applications (Theory and Practical), Artificial Intelligence.

#### Semester V

Compiler Design (Theory and Practical), Programming through Java (Theory and

Practical), System Programming (Theory and Practical), Data Mining, Minor Project.

### Semester VI

Major Project.

**PhD Courses:** Soft Computing, Research Methodology, Design and analysis of Algorithm.

**Seminars/Conferences/Workshops/Symposia/Extension Programmes**  
(National/International):

### Organized

1. Organized Two weeks National level Online Workshop on “Art of Computer Programming”, Date 14<sup>th</sup>-25<sup>th</sup> March, 2022. Co-coordinator: Dr. Rubul Kumar Bania, Venue: Dept. of Computer Application, NEHU, Tura campus.
2. Organized Two days National level Webinar on “Cyber Crime, Security and Awareness” Date 8<sup>th</sup>-9<sup>th</sup> March, 2022. Co-coordinator: Dr. Rubul Kumar Bania, Venue: Dept. of Computer Application, NEHU, Tura campus.

### Publications

#### Published Abroad:

(1) **R. K. Bania**, (2022), R-GEFS: Condorcet Rank Aggregation with Graph Theoretic Ensemble Feature Selection Algorithm for Classification, International Journal of Pattern Recognition and Artificial Intelligence, World Scientific, DOI: 10.1142/S021800142250032X, Indexing: Web of Science (SCI), Scopus. IF: 1.27.

(2) A. Kumar, A., **Halder, A.** (2022). Greedy fuzzy vaguely quantified rough approach for cancer relevant gene selection from gene expression data. ", *Soft Computing (Springer)*, Impact factor: 3.732, <https://doi.org/10.1007/s00500-022-07312-4>.

(3) Kumar, A., **Halder, A.** (2022). Extreme learning machine for cancer classification from miRNA gene expression data. *International Journal of Biosciences*, 20(5), pp. 169-175, 2022.

(4) Kumar, A., **Halder, A.** (2022). Semi-supervised ordered weighted average fuzzy-

rough nearest neighbour classifier for cancer pattern classification from gene expression data. *International Journal of Biosciences*, Vol. 20, No. 5, p. 45-52.

### (iii) Edited Books/Volumes.

Dasgupta, S., Bhattacharya, S., Khan, A., **Halder, A.**, Saha, G., Pal, R.K. (2021) Disease-Relevant Gene Selection Using Mean Shift Clustering, *Advanced Computing and Systems for Security: Lecture Notes in Networks and Systems (LNNS)*, Springer, ISSN 2367-3370/2367-3389, Vol. 14 pp 151–163, doi DOI: 10.1007/978-981-16-4294-4\_13.

### Funds Received during the current Year

#### (Q) Bulk Grant to Department/Centre/Section etc. other than EMR grant

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
1	NEHU	9.0

### Academic Collaborations

#### National:

(1) Dr. Anindya Halder guided M.Tech (CSE) dissertation thesis titled “ A LSTM autoencoder based deep network for detecting ECG anomaly” of Ms. Moumita Roy of Dept. of CSE, University of Kalayni, Kalyani, Nadia, West Bengal as joint-supervisor in 2022.

#### Other Activities:

Dr. Anindya Halder

(i) Delivered online invited lectures in *Scientific Writing Course* sponsored by Rashtriya Uchchatar Shiksha Abhiyan (RUSA), Govt. of India organized by Dept. of CSE, University of Kalayni, Nadia, West Bengal during 24.12.2021, 26.12.2021, 08.01.2022, 19.02.2022 on the topic “*Maths in LaTeX*”.

(ii) Delivered lecture in Two Weeks National Online Workshop on “Art of Computer Programming” during 14<sup>th</sup> -25<sup>th</sup> March, 2022 organized by Dept. of Computer Application, NEHU, Tura Campus.

(iii) Delivered invited lecture titled “Coding” in “Festival of Science & Technology-Vigyan Sarvatra Pujyate” on 24/02/2022 organized by Meghalaya Science Society, Tura during February 22-28, 2022.

(iv) Acted as reviewers in Information Sciences (Elsevier), Innovations in systems and Software Engineering (Springer), Multimedia Tools and Applications (Springer).

#### Dr. Ansuman Kumar

(i) Reviewer of Journal of Computer Science and Software Development (JCSSD) and International Conference on Data Electronics and Computing (ICDEC-2022).

Dr. Rubul Kumar Bania

(i) Acted as reviewer for: a) Arabian journal of Science and Engineering (Springer), b) Information Sciences (Elsevier), c) SN Computer Science (Springer), d) Connection Science (Taylor & Francis).

(ii) Delivered lecture in Two Weeks National Online Workshop on “Art of Computer Programming” during 14<sup>th</sup> -25<sup>th</sup> March, 2022 organized by Dept. of Computer Application, NEHU, Tura Campus.

### SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	Name		1	Dr. Ansuman Kumar	Dr. Anindya Halder	Dr. Rubul Kumar Bania
	Date of Joining		2	3/07/2012	30/07/2012	16/05/2013
	Field of specialisation		3	Bioinformatics,	Bioinformatics, Machine	Machine learning,

				Machine learning	learning, Medical Image analysis	Artificial Intelligence
(A) Teaching Experience (in Years)	UG		4	-	-	-
	PG, including PhD		5	9	9	9
(B) Research activities	Basic Research		6	Yes	Yes	Yes
	Applied Research		7	Yes	Yes	Yes
	Action Research		8	NIL	NIL	NIL
	Project Submitted		9	NIL	NIL	NIL
	Ongoing Project		10	NIL	NIL	NIL
	Research Paper in UGC care list journals	Group I	11	NIL	NIL	NIL
		Group II	12	3	3	1
	Books /Books chapters Published	Books	13	NIL	NIL	NIL
		Book Chapters	14	NIL	1	NIL
	Popular Articles (News Paper/ Magazines)		15	NIL	NIL	NIL
	Seminar / Conference/ Symposia organized	National	16	YES	YES	YES
		International	17	NIL	NIL	NIL
	Seminar / Conference/ Symposia attended	National	18	NIL	NIL	NIL
		International	19	1	NIL	3
	Conference Proceedings		20	NIL	NIL	NIL
	Consultancy		21			
(C) Patent	Applied		22	NIL	NIL	NIL
	Published		23	NIL	NIL	NIL
	Granted		24			
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	NIL	NIL	NIL
(E) Any Other	Teaching /Extension /outreach activities		26	YES	YES	YES
	Responsibilities other than teaching		27	YES	YES	YES
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	YES	YES	YES
	Collaborations	National	29	NIL	YES	NIL
		International	30	NIL	NIL	NIL



## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Head : Dr. Rupaban Subadar  
 Telephone : 0364-272-3661/8837209524  
 E-mail : hodece@nehu.ac.in  
 Faculty Profile : 11

Designation	Name and Qualification	Specialization
<b>Professor</b>	Dr. Lairenlakpam Joyprakash Singh, M. Tech. (Tezpur University), Ph.D. (Jadavpur University)	Signal Processing and its applications
	Dr. Subhash C. Arya, B. Tech. (G.G.S.Indra Prastha University, Delhi), Ph.D. (IIT ISM, Dhanbad)	Silicon Photonics, PIC and Optical Communication Systems
	Dr. Rupaban Subadar, M. Tech. (Tezpur University), Ph.D. (IIT, GHY)	Theory of wireless communication
<b>Associate Professor</b>	Dr. Sushanta Kabir Dutta, M. Tech (MAHE, Manipal), Ph.D. (NEHU)	Speech Signal Processing, Machine Learning for Speech Processing
<b>Assistant Professor</b>	Dr. Juwesh Binong, M. Sc. (Sikkim Manipal University), Ph.D. (Tezpur University)	AI and Machine Learning
	Dr. Rajkishur Mudoi, M. Tech (Tezpur University), Ph.D. (NEHU)	Wireless Communication, VLSI Design.
	Miss. Fidalizia Pyrtuh, B. Tech. (SJCE), M. Tech. (IIIT, Allahabad)	Signal & Speech Processing
	Dr. Jaydeep Swarnakar, M. Tech. (Jadavpur University), Ph.D. (NEHU)	Fractional order system, Control system.
	Mr. Asif Ahmed, B. Tech. (Kalyani University), M. Tech. (NIT, Durgapur)	Mixed Signal CAD tool Development
	Dr. Pankaj Sarkar, M.Tech. (Burdwan University), Ph.D. (Jadavpur University)	Microwave Passive and Active circuits design
	Dr. Nipanka Bora, M. Tech. (Tezpur University), Ph.D. (NEHU).	Nano Scaled Device Modelling, VLSI Design

### Thrust Areas of Research:

Signal Processing: Speech, Language and Speaker Recognition, Digital Image Processing, Quantized Semiconductor Structures, Microwave passive and active circuit design, Design of reconfigurable circuits, Telecommunication Engineering, Silicon Photonics, Photonic Integrated Circuits, Optical Fibre Communication and Opto-Electronics Devices, Theory of Wireless communication, MIMO, Mixed Signal CAD tool, Nano Scaled Device Modelling and VLSI Design, Qualitative Reasoning and Context Awareness

### Brief Statement of Academic Activities and achievements:

The Department is currently running three programmes, namely B. Tech, M. Tech and Ph. D. in ECE Engineering. As for B. Tech Electronics and Communication Engineering, the Department has enrolment capacity of 30 students by vertical entry and 3 students by lateral entry and 8 students under EWS

category. 18 students can get admission in the M. Tech. programme. A total of 41 and 18 seats are available in B. Tech and M. Tech degrees, respectively, in Electronics and Communication Engineering. The Ph.D. enrolment capacity usually varies according to the vacancy under individual faculty members. Total 8 candidates took admission in Ph.D. in the mentioned duration. Faculty and students have published papers in 06 international journals, 08 book chapters, 01 international conference paper.

### Students' Profile

**Enrolment Capacity: B.Tech. – 30/3**

**(Vertical/Lateral), M. Tech. – 18, Ph.D. - Variable**

### Enrolment of students from different States of India and Abroad (B. Tech.)

STATE(Name)	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya			1										1	0
Assam	4	1	5	1				1					9	3
Bihar	2	1					1	1					3	2
West Bengal					1								1	0
Uttar Pradesh	1				1								2	0
Telangana			1										1	0
Andhra Pradesh					2		1						3	0
Maharashtra							1						1	0
Sub Total	7	2	7	1	4		3	2					21	5
International	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	9		8		4		5		0		0		26	

### Enrolment of students from different States of India and Abroad (M. Tech.)

STATE(Name)	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya			3	1									3	1
Assam						1	1						1	1
Bihar					1								1	0
Orissa		1											0	1
Sub Total		1	3	1	1	1	1						5	3
International	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1		4		2		1		0		0		8	

### Enrolment of students from different States of India and Abroad (Ph.D.)

STATE(Name)	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya				2									0	2
Assam		2				1							0	3
West Bengal					1								1	0
Manipur		1											0	1
Uttar Pradesh	1												1	0
Sub Total	1	3		2	1	1							2	6
Total	4		2		2		0		0		0		8	

### Degrees Awarded

#### Degree Awarded to students from different States of India and Abroad (B.Tech., 2017 Batch)

STATE(Name)	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	1		14	5	1								16	5
Assam	10	1	11	3	3	1							24	5
Bihar	1												1	0
West Bengal	2												2	0
Sub Total	14	1	25	8	4	1							43	10
Total	15		33		5		0		0		0		53	

#### Degree Awarded to students from different States of India and Abroad (M. Tech. 2019 Batch)

STATE(Name)	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya			5	1									5	1
Assam	2					2							2	2

Sub Total	2		5	1		2						7	3
International	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	2		6		2		0		0		0	10	

### Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya			1										1	0
Assam					1	1							1	1
Sub Total			1		1	1							2	1
International	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0		1		2		0		0		0		3	

### Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Mr. Himanshu Ranjan Das	Design of Directional Coupler based Silicon Optical Modulator	Dr.Subhash C. Arya (Supervisor)
Ms. Balbindar Kaur	Modeling and Designing of Space Division Multiplexing based Multicore Erbium Doped Fiber Amplifier	Dr.Subhash C. Arya (Supervisor)
Mr. Bronson Syiem	Speech representation of Khasi dialect and its Application	Prof. L. Joyprakash Singh (Supervisor)

### Placement of Students

Name of the Student(s)	Name of the Programme	Post Held	Place of Work
Neha Tiwari	B. Tech.	Software Engineer	Capgemini Technology Services India Limited, Bangalore

### Students selected for Higher Studies:

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
Anubrata Sarkar	M.Tech	NIT-Durgapur	India
Neha Tiwari	M.Tech	NIT-Warangal	India
Champak Doley	MBA	IIM-Sirmaur	India
Habanaibok Suting	M.Tech	NEHU-Shillong	India
Deboshree Daulagupu	M.Tech	NEHU-Shillong	India
Dahunlang Phawa	M.Tech	NEHU-Shillong	India

### Research Fellowship

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Other s
-	05	01	-	-	-

### Courses Conducted:

**Undergraduate:** B. Tech. (Electronics and Communication Engineering)

#### Semester I

Engineering Mathematics -I, Engineering Physics-I, Elements of Environmental Science, Professional Communication Skills, Basic Electrical Engineering, Digital English Language Lab., Engineering Graphics.

#### Semester II

Engineering Mathematics- II, Engineering Physics -II, Engineering Chemistry, Basic Electronics, Engineering Physics Laboratory, Engineering Chemistry Laboratory, Basic Electronics & Electrical Lab.

#### Semester III

Computer Programming, Electronic Devices and Circuits, Signals and Systems, Electrical Network Theory, Computer Programming Laboratory, Electronic Devices Laboratory, Circuit Simulation Laboratory.

#### ***Semester IV***

Instrumentation and Measurement, Digital Electronics, Electromagnetic Theory, Analog Communication, Instrumentation and Measurement Laboratory, Digital Electronics Laboratory, Analog Communication Laboratory.

#### ***Semester V***

Statistics and Random Process, Microprocessor, Digital Communication, Linear IC Systems, Microprocessor Laboratory, Digital Communication Laboratory, Linear IC Systems Laboratory.

#### ***Semester VI***

Digital Signal Processing, Microcontroller and Embedded Systems, Microwave Engineering, Elective - I: Core: Optical Fibre Communication (EO), Digital Control Systems (EO), Antenna and RADAR Engineering (EO), Data Communication (EO), Nano Electronics (EO), Digital System Design using VHDL (EO), Digital Signal Processing Laboratory, Microcontroller and Embedded Systems Laboratory, Microwave Engineering Laboratory.

#### ***Semester VII***

Elective - II: Business Management (HU), IPR and Professional Ethics (HU), Business Survey and Research (HU), Fundamental of Mobile Communication, Control Systems, VLSI Systems, Elective-III Opt: Fundamentals of Biotechnology (EO) Advanced Digital Signal Processing (EO), Digital Image Processing (EO), Fundamentals of Speech Processing (EO), Advanced Communication Theory (EO), Optical Networks (EO), Smart Systems (EO), Social Robotics (EO), VLSI Systems Laboratory.

#### ***Semester VIII***

PCB Laboratory and Electronics Workshop, Major Project.

**Postgraduate:** M.Tech. (Electronics and Communication Engineering)

#### ***Semester I***

Mathematical and Statistical Techniques; Advanced Communication Engineering; Elective I (Speech Processing; Advanced Wireless Communication; Microwave Theory and Techniques; VLSI Devices and Modelling; Light wave Communication System); Elective II (Spoken Language Identification Techniques, Speaker Recognition, Machine Learning, Advanced Fibre Optic Communication, Communication Network) RF and Communication Lab.

#### ***Semester II***

Mobile Communication; Advanced Digital Signal Processing; Open Course I (Analog IC Design, Advanced Embedded Systems, High Speed Digital Design, Advanced Control Engineering, Antenna Theory and Design); Open Course II(Advanced Image Processing, Computational Electromagnetics, Optical Communication Networks, Processor Architectures for VLSI, Digital IC Design); Advanced Digital Signal Proc. Lab.

#### ***Semester III***

Dissertation - Part I

#### ***Semester IV***

Dissertation - Part II

#### ***PhD Courses***

Course work Research Methodology; Mathematical Methods; Speech Processing; Advanced Wireless Communication; Microwave Theory and Techniques; VLSI Devices and Modelling, Light wave Communication System; Spoken Language Identification Techniques; Speaker Recognition; Machine Learning; Advanced Fibre Optic Communication; Mobile Communication; Analog IC Design; Advanced Embedded Systems; High Speed Digital Design; Advanced Control Engineering; Antenna Theory and Design; Advanced Image Processing; Computational Electromagnetics; Communication Networks; Processor Architectures for VLSI; Digital IC Design.

#### **Seminar/Conference/Symposium/Extension Programme etc.**

##### ***Organized***

(1)The Department has organized the 2nd international conference titled “International Conference on Frontiers in Computing and Systems (COMSYS-2021)” in associated with IEEE Computer Chapter, Kolkata Section, and the COMSYS steering committee, Kolkata, during 29th September to 1st October, 2021.

##### ***Attended***

(1) Dr.Rajkishur Mudoi presented a paper, “Outage Probability of Multi-hop Communication System with MRC at Relays and Destination Over Correlated Nakagami- $m$  Fading Channel” in the 2nd International Conference on Frontiers in Computing and Systems, Organized by Department of Electronics and Communication Engineering and Information Technology during 29<sup>th</sup> September-1<sup>st</sup> October, 2021.

(2) Dr. Nipanka Bora presented (oral) the paper “Performance analysis of 3-D parallel gated junctionless-field effect nanowire transistor”, in

the International Conference on Intelligent Computing Techniques for Smart Energy Systems, September 1-3, 2021, Manipal University, Jaipur, India.

(3) Ms. Fidalizia Pyrtuh presented a paper, “A comparative study on effect of temporal phase for speaker verification” in the 2<sup>nd</sup> International Conference on Frontiers in Computing and Systems, jointly organized by Department of Electronics and Communication Engineering and Department of Information Technology, NEHU, during 29<sup>th</sup> September-1<sup>st</sup> October, 2021.

## Publications

### Published Abroad:

1. Syiem, B., **Dutta, S. K.**, Binong, J., & Singh, L. J. (2021). Comparison of Khasi speech representations with different spectral features and hidden Markov states. *Journal of Electronic Science and Technology*, 19(2), 100079.(Scopus Indexed)

2. **Mudoi, R.**, & Rongphar, R. (2021). Performance analysis of TAS/MRC-based MIMO system over  $K$  fading channels. *International Journal of Systems, Control and Communications*, 12(4): 279-290. (Scopus)

3. Swarnakar, J. (2022). Implementation of discrete-time fractional-order derivative controller for a class of double integrating system. *International Journal of Automation and Control*, 16(2): 183-204. (Scopus Indexed)

4. Chakraborty, R., **Sarkar, P.**, & Ghatak, R. (2021). A quint mode fractal architecture based resonator and its efficacy in the design of multiband bandpass filters. *International Journal of RF and Microwave Computer-Aided Engineering*, 31 (11): 1-11. (SCIE)

5. Kumari, P., **Sarkar, P.**, & Ghatak, R. (2021). A Pythagorean tree fractal shape stub-loaded resonator as a UWB bandpass filter with wide stopband. *International Journal of Microwave and Wireless Technologies*, 13(5):442-446. (SCIE)

6. Bora, N., (2022). An Approach for Drain Current Modelling Including Quantum Mechanical Effects for a DMDG Junction less Field Effect Nanowire Transistor. *Silicon* 14, 4945–4954, Springer-Nature. (Scopus/SCIE with IF 2.941).

### (i) Book Chapters.

(1) Gogoi, D., Nishant, N., & **Dutta, S. K.** (2021). Automated Detection of Road Potholes Under Shadowed Condition Using Machine Learning. In *Proceedings of the International*

*Conference on Computing and Communication Systems* (pp. 269-276). Springer, Singapore.

(2) Hazowary, P., **Dutta, S. K.**, & Subadar, R. (2022). A Comparison of Image Compression Techniques Over Wireless Fading Channel. In *Contemporary Issues in Communication, Cloud and Big Data Analytics* (pp. 241-249). Springer, Singapore.

(3) **Mudoi, R.**, & Saikia, H. (2021). Outage Probability of Multi-hop Communication System with MRC at Relays and Destination Over Correlated Nakagami- $m$  Fading Channel. *Lecture Notes in Networks and Systems*, 404 (pp. 383-390). Springer, Singapore.

(4) Saikia, H., & **Mudoi, R.** (2021). Outage Probability Analysis of Dual-Hop Transmission Links with Decode-and-Forward Relaying over Fisher-Snedecor F Fading Channels. *Lecture Notes in Networks and Systems*, 404 (pp. 391-397). Springer, Singapore.

(5) Rahman, M.A., & **Sarkar, P.** (2021). Varactor-Loaded Tunable SIW Filter with Wide Upper Stop-band Characteristic. *Proceedings of the International Conference on Computing and Communication Systems. Lecture Notes in Networks and Systems*, (pp. 515-522). Springer, Singapore.

(6) Das, S., & **Sarkar, P.** (2021). A Compact Dual-Band Reconfigurable Filtering Antenna Using PIN Diode. *Proceedings of the International Conference on Computing and Communication Systems. Lecture Notes in Networks and Systems*, (pp. 505-514) Springer, Singapore.

(7) **Bora, N.**, Sureka, A., Deka, C., & Mipun, S. (2022). Performance analysis of 3-D parallel gated junction-less field effect nanowire transistor. In *Intelligent Computing Techniques for Smart Energy Systems. Lecture Notes in Electrical Engineering*, vol 862. (pp. 289–295) Springer, Singapore

(8) Patangia, P.M., Barman, N., **Subadar, R.** (2021). Symbol Error Rate of L-MRC Receiver in Correlated Non-homogeneous Non-line of Sight Environment. *Proceedings of the International Conference on Computing and Communication Systems. Lecture Notes in Networks and Systems*, vol 170. Springer, Singapore. [https://doi.org/10.1007/978-981-33-4084-8\\_53](https://doi.org/10.1007/978-981-33-4084-8_53)

### (ii) Proceedings of Seminar/Conferences.

(1) Bandyonadhyay, A., **Sarkar, P.**, & Ghatak, R. (2021). Independently Switchable Dualband High Selective Band Pass Filter. *Proceedings in 2nd International Conference on Range*

## Funds Received during the current Year

### (A) Bulk Grant to Department/Centre/Section etc. other than EMR grant

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	Plan: 7.0 Non-plan: 1.6

### Honours/Awards/Recognition/Membership/Fellowship

1. Rupaban Subadar is nominated as a member of Board of Studies, Electronics and Communication Engineering, Tripura University, Agartala
2. Dr. Subhash C. Arya was **awarded with excellent work** on the designed circuit “Driver Circuit of MZI Modulator for PICs” in Cloud based Analog IC Design Hackathon, during 15th February-1st March 2022 organized by IIT Hyderabad, VLSI System design.
3. Dr. Subhash C. Arya was declared Winner of the Amazon Voucher for Wiley Webinar Tuesdays conducted during 17 August to 7th September 2021, organized by Research Marketing APAC , Wiley

### Other Activities

- 1) Dr. L J Singh delivered a lecture, “Google workspace for education”, on July 8, 2022, as a resource person in the two-week all India Faculty Development Programme (AIFDP2E21) on Emerging Trends in Online Education organized by Trinity College for Women (Arts and Science), Namakkal, Tamil Nadu, and Edugroom India Foundation, Kochi, Kerala in collaboration with UGC-HRDC Bhagat Phool Singh Mahila Viswa vidyalaya, Sonipat, Haryana during July 1-14, 2021.
- (2) Dr. L J Singh delivered a lecture, “LaTeX 2e - A Document Preparation Software for Teachers”, on September 29, 2021, as a resource person in an interdisciplinary Refresher Course on Science and Technology organized by UGC-HRDC, Mizoram University, Aizawl during September 28, 2021 and October 11, 2021.
- (3) Dr. L J Singh delivered a lecture, “End-to-End model for Khasi speech recognition system”, on February 15, 2022, as a resource person in the five days online Faculty Development Programme organized by National Institute of Technology, Imphal, Manipur, sponsored by AICTE, New Delhi, during February 14 - 18, 2022.
- (4) Dr. L J Singh delivered a lecture, “Automatic phoneme classification of standard Khasi dialect”, on February 24, 2022, as a resource person in the 5 day online Workshop on Automatic Speech Recognition organized by the Department of ECE and CSE, National Institute of Technology, Jote,

Arunachal Pradesh, sponsored by DST, New Delhi, during February 21 - 25, 2022.

- (5) Dr S. K. Dutta delivered two invited talks, viz., “Overview of Medical Image Processing” and “Application of Deep Learning in Medical Image Processing” in The Refresher Course, on “Biomedical”, held in NEHU (by UGC-HRDC), organized by Department of Biomedical Engineering from 16<sup>th</sup> Feb to 1<sup>st</sup> March, 2022
- (6) Dr S. K. Dutta performed as Session Coordinator in two (02) sessions in the International Conference titled “COMSYS 2021” held in NEHU from 29<sup>th</sup> September to 1<sup>st</sup> October, 2021, jointly organized by the Departments of ECE and IT, NEHU.
- (7) Dr S. K. Dutta served as Reviewer of “Interspeech 2021” organized by International Speech Communication Association (ISCA) between 30<sup>th</sup> Aug to 3<sup>rd</sup> Sept, 2021
- (8) Dr. S. C. Arya performed as registration chair in the International Conference titled “COMSYS 2021” held in NEHU from 29<sup>th</sup> September to 1<sup>st</sup> October, 2021, jointly organized by the Departments of ECE and IT, NEHU.
- (9) Dr. S. C. Arya delivered a Keynote talk on , “Communication Competencies for Online Reflective Teaching and Learning” in the One Day International Workshop on Communication Competencies for Online Reflective Teaching and Learning: Golab Perspective on 10th July, 2021 organized by Ambo University, Ethiopia and NEHU, Shillong
- (10). Dr. S. C. Arya delivered an invited talk on, “Silicon Photonic: A pervasive area of research for continuing Professional development of teachers in the Digital World”, in Two Day International Conference on Continuing Professional Development of teachers in Digital World. during 6-7 September 2021 organized by Department of Education, NEHU and Department of Philosophy, Moran College, Assam.
- (11) Dr. Rupaban Subadar performed as Session Coordinator in the International Conference titled “COMSYS 2021” held in NEHU from 29<sup>th</sup> September to 1<sup>st</sup> October, 2021, jointly organized by the Departments of ECE and IT, NEHU.

(12) Dr. Rupaban Subadar performed as Program Chair in the International Conference titled “COMSYS 2021” held in NEHU from 29<sup>th</sup> September to 1<sup>st</sup> October, 2021, jointly organized by the Departments of ECE and IT, NEHU.

(13) Dr. R Mudoi served as panel expert for evaluating the poster presentation/ paper presentation/research work demonstration for the 3rd Research Conclave at NIT Meghalaya during 28th February-1st March 2022.

(14) Dr. R Mudoi reviewed a manuscript titled “Dynamic Load Balancing for Congestion Avoidance using Adaptive Neuro-Fuzzy Inference System in Mobile Communication Network” for the *International Journal of Electrical and Computer Engineering Systems* (Scopus) during 21st April-28th April, 2021.

(15) Dr.Pankaj Sarkar reviewed a research paper for the journal IEEE Transactions on Microwave Theory and Techniques.

(16) Dr.Pankaj Sarkar reviewed a research paper for the Journal, IET Microwaves, Antennas and Propagation.

(17) Dr.Nipanka Bora reviewed 2 research papers for the Journal, named Silicon. (SCIE)

(18) Dr.Nipanka Bora reviewed 3 research papers for the Journal of Nanoelectronics and Optoelectronics. (SCIE)

(19) Dr. Nipanka Bora performed as Industrial Chair in the International Conference titled “COMSYS 2021” held in NEHU from 29<sup>th</sup> September to 1<sup>st</sup> October, 2021, jointly organized by the Departments of ECE and IT, NEHU.

(20) Dr. Jaydeep Swarnakar performed as Session Coordinator in the International Conference titled “COMSYS 2021” held in NEHU from 29<sup>th</sup> September to 1<sup>st</sup> October, 2021, jointly organized by the Departments of ECE and IT, NEHU.

(21) Dr.Jaydeep Swarnakar performed as Accommodation Chair in the International Conference titled “COMSYS 2021” held in NEHU from 29<sup>th</sup> September to 1<sup>st</sup> October, 2021, jointly organized by the Departments of ECE and IT, NEHU.

#### SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	Name		1	Prof. L.J. Singh	Prof. R. Subadar	Prof. S.C. Arya
	Date of Joining		2	20-07-2006	21-6-2013	02-03-2010
	Field of specialisation		3	Signal Processing and its applications	Theory of wireless communication	Silicon Photonics, Optical Communication
(A) Teaching Experience (in Years)	UG		4	22	24	15
	PG, including PhD		5	16	20	13
(B) Research activities	Basic Research		6	No	No	Yes
	Applied Research		7	Yes	Yes	Yes
	Action Research		8	No	No	No
	Project Submitted		9	1	0	0
	Ongoing Project		10	0	0	0
	Research Paper in UGC care list journals	Group I	11	0	0	0
		Group II	12	1	0	0
	Books /Books chapters Published	Books	13	0	0	0
		Book Chapters	14	0	1	0
	Popular Articles (News Paper/ Magazines)		15	0	0	0
	Seminar / Conference/ Symposia organized	National	16	0	0	0
		International	17	0	1	0
	Seminar /	National	18	0	0	0

	Conference/ Symposia attended	International	19	0	0	0
	Conference Proceedings		20	0	0	0
	Consultancy		21	0	0	0
(C) Patent	Applied		22	0	0	0
	Published		23	0	0	0
	Granted		24	0	0	0
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	0	0	0
(E) Any Other	Teaching /Extension /outreach activities		26	4	0	0
	Responsibilities other than teaching		27	Dean, Head (CC)	Head(ECE) Warden Hostel No 21, I/C CDD from 10th Oct 2021	SOT-AICTE Coordinator, Member- BTech Central Admission Committee
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	0	1	2
	Collaborations	National	29	1	0	0
		International	30	0	0	0

Details of Faculties	Name	1	Dr. S.K. Dutta	Dr. J. Binong	Dr. R. Mudoi
	Date of Joining	2	02-02-2007	07-07-2006	24.07.2006
	Field of specialisation	3	Speech Signal Processing, Machine Learning for Speech Processing	AI, Machine Learning	Wireless Communicati ons, Microprocess ors and Microcontroll ers
(A) Teaching Experience (in Years)	UG	4	22	15	20 yrs
	PG, including PhD	5	13	5	6 yrs (PG) 2 yrs (Ph. D.)
(B) Research activities	Basic Research	6	yes	No	No
	Applied Research	7	yes	yes	Yes
	Action Research	8	No	No	No
	Project Submitted	9	1	0	No
	Ongoing Project	10	0	0	No
	Research Paper in UGC care list journals	11	0	0	No
		12	1	1	01
	Books /Books chapters Published	13	0	0	No
		14	2	0	02
	Popular Articles (News Paper/ Magazines)	15	0	0	No
	Seminar /	16	0	0	No



	Conference/ Symposia organized	17	0	0	No
	Seminar / Conference/ Symposia attended	18	0	0	No
		19	1	0	01
	Conference Proceedings	20	2	0	No
	Consultancy	21	0	0	No
(C) Patent	Applied	22	0	0	No
	Published	23	0	0	No
	Granted	24	0	0	No
(D) E-Content	MOOC/SWAYAM/ E-content developed	25	0	0	No
(E) Any Other	Teaching /Extension /outreach activities	26	2	0	No
	Responsibilities other than teaching	27	Member-BTech Central Admission Committee, Deptt representative for Compendium Committee, Member BOS, ECE and EE School board, SOT	Coordinator - PhD Admission Committee,	Coordinator, Department Library Committee, BOS member, Department of IT, Member, Ph.D. Admission Committee, Member, AICTE Committee, NEHU. Department SWAYAM Mentor.
	Awards/ Honours/ Recognition/ Membership/ Fellowship	28	0	0	Nil
	Collaborations	29	0	0	Nil
		30	0	0	Nil

Details of Faculties	Name		1	Dr. J. Swarnakar	Miss. F. Pyrtuh	Mr. A. Ahmed
	Date of Joining		2	15.02.2010	22.01.2010	05.07.2012
	Field of specialisation		3	Control System, Fractional Order System	Signal & Speech Processing	VLSI, CAD Tool Development.
(A) Teaching Experience (in Years)	UG		4	17 yr.	12	15
	PG, including PhD		5	6 yrs (PG), 2yr (Ph.D)	N.A	6 yrs (PG)
	Basic Research		6	No	No	No
	Applied Research		7	Yes	No	No
	Action Research		8	No	No	No
	Project Submitted		9	No	No	No
	Ongoing Project		10	No	No	No
	Research Paper in	Group I	11	No	No	No

(B) Research activities	UGC care list journals	Group II	12	01	No	No
	Books /Books chapters Published	Books	13	No	No	No
		Book Chapters	14	No	No	No
	Popular Articles (News Paper/ Magazines)		15	No	No	No
	Seminar / Conference/ Symposia organized	National	16	No	No	No
		International	17	No	No	No
	Seminar / Conference/ Symposia attended	National	18	No	No	No
		International	19	No	No	No
(C) Patent	Conference Proceedings		20	No	No	No
	Consultancy		21	No	No	No
	Applied		22	No	No	No
	Published		23	No	No	No
(D) E-Content	Granted		24	No	No	No
	MOOC/SWAYAM / E-content developed		25	No	No	3
(E) Any Other	Teaching /Extension /outreach activities		26	No	No	No
	Responsibilities other than teaching		27	Coordinator, B.Tech ECE Lateral Entry Admission committee Coordinator Time Table Committee for preparation of Class schedule, sessional and end semester exam schedule, duty chart preparation, seating arrangement preparation , BOS member, Dept. of ECE.	Coordinator, B.Tech Lateral Entry ECE Admission committee, Advisor to Departement Students' Forum.	Coordinator, M.Tech , BOS member, Department of BME, Member, Coordinator Time Table Committee for Preparation for Class, University Exam.
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	Nil	Nil	Nil
	Collaborations	National	29	Nil	Nil	Nil
		International	30	Nil	Nil	Nil

Details of Faculties	Name		1	Dr. P. Sarkar	Dr. N. Bora
	Date of Joining		2	11.07.2012	14.06.2013
	Field of specialisation		3	Microwave Engineering	Nano Scaled Device Modelling, VLSI Design
(A) Teaching Experience (in Years)	UG		4	12	12
	PG, including PhD		5	3	12 PhD 1 yr
(B) Research activities	Basic Research		6	No	No
	Applied Research		7	Yes	Yes
	Action Research		8	No	No
	Project Submitted		9	01	01
	Ongoing Project		10	No	No
	Research Paper in UGC care list journals	Group I	11	No	No
		Group II	12	02	01
	Books /Books chapters Published	Books	13	No	No
		Book Chapters	14	02	01
	Popular Articles (News Paper/ Magazines)		15	No	No
	Seminar / Conference/ Symposia organized	National	16	No	No
		International	17	No	No
	Seminar / Conference/ Symposia attended	National	18	No	No
		International	19	No	01
	Conference Proceedings		20	01	No
	Consultancy		21	No	No
(C) Patent	Applied		22	No	No
	Published		23	No	No
	Granted		24	No	No
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	No	No
(E) Any Other	Teaching /Extension /outreach activities		26	No	No
	Responsibilities other than teaching		27	Dept. Annual Report preparation, Dept. files processing for NIRF.	BOS member, Department of Nanotechnology, Faculty Coordinator of Career Counselling Cell, Coordinator, M. Tech Project, Member of M. Tech ECE Admission Committee
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	Nil	Nil
	Collaborations	National	29	Nil	Nil
		International	30	Nil	Nil

## DEPARTMENT OF ENERGY ENGINEERING

Head : Dr. Samrat Paul  
 Telephone : + 919485043421  
 E-mail : paulsamrat17@gmail.com, samrat@nehu.ac.in  
 Faculty Profile:

Designation	Name and Qualification	Specialization
<b>Assistant Professor</b>	Dr.Samrat Paul, M.Tech. &Ph.D. (Tezpur University)	Energy Material and Photovoltaics
	Mr.Manmit Saikia, M.Tech. (Tezpur University)	Energy Technology
	Mr.Sanat Das, M.Tech. (IIT Kanpur)	Propulsion and Advanced Energy Materials
	Mr. Samar Jyoti Hazarika, M.Tech. (Tezpur University)	Energy Accounting & Management, Renewable Energy Utilization, Power Plant Technology

### Thrust Areas of Research

Energy Materials, Photovoltaics and Bioenergy & Biofuels

**Brief Statement of Academic activities and achievements:** B.Tech. as well as Ph.D. programmes in Energy Engineering

### Students' Profile

**Enrolment Capacity: B.Tech. 42 (38 vertical + 4 Lateral); Ph.D. - Variable**

### Enrolment of students from different States of India and Abroad

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya			6	1									6	1
Assam	5	2	1		2		7						15	2
Nagaland			1										1	
Tripura			1										1	
Bihar	1												1	
Uttar Pradesh	1												1	
Madhya Pradesh					1								1	
Jharkhand					1								1	
Sub Total	7	2	9	1	4		7						27	3
Total	9		10		4		7		0		0		30	

### Degrees Awarded

**Degree: B. Tech. Degree Awarded to students from different States of India and Abroad (2017-21 Batch)**

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya			1										1	
Assam	1	3	1			1							2	4
Sub Total	1	3	2			1							3	4
International	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	4		2		1		0		0		0		7	

### Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name of Supervisor/Jt Supervisor
Mr. Rajib Saha	Studies on Perovskite Based Nanocomposites for Photovoltaic Applications	Dr. Samrat Paul (Supervisor)

## Research Fellowship

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others
-	-	01 (NFST)	-	-	-

### Courses Conducted: Courses Conducted:

#### B.Tech.

*Semester-I:* Engineering Mathematics-I, Engineering Physics-I, Elements of Environmental Science, Professional Communication Skills, Solid Mechanics, Digital English Language Laboratory, Engineering Drawing.

*Semester-II:* Engineering Mathematics –II, Engineering Physics-II, Engineering Chemistry, Basic Electronic Devices, Engineering Physics Laboratory, Engineering Chemistry Laboratory, Electronic Devices Laboratory.

*Semester III:* Basics of Renewable Energy Technology, Electrical Devices and Circuits, Fluid Mechanics, Engineering Thermodynamics, Energy Laboratory-I, Studio for Design.

*Semester-IV:* Heat and Mass Transfer, Nuclear Energy, Solar Thermal Technology, Biomass and Bio-fuel Technology, Energy Laboratory-II, Studio for Stimulation.

*Semester-V:* Photovoltaic Conversion Technology, Energy Accounting and Management, Fuel, Combustion and IC Engine, Nanotechnology and Energy Systems, Energy Laboratory-III, Studio for Product Development.

*Semester-VI:* Fuel Cell and Hydrogen Energy, Energy Economics and Planning, Elective-I, Elective-II, Energy Laboratory-IV, Minor Project.

*Semester- VII:* Chemical Energy Conversion and Storage Devices, Wind, Hydro and Ocean Technology, Elective –III, Energy Laboratory – V, Field Visit/ Industrial Training, Major Project-I.

*Semester –VIII:* Viva Voice, Major Project.

#### Ph.D.

Research Methodology, Energy Resources and Technology, Advanced Solar Photovoltaic Technology

#### Seminars/Conferences/Workshops/Symposia/ Extension Programmes (National/International):

### Organized

1. *International Webinar on Renewable Energy Devices and Applications*

Convener: Dr. Samrat Paul, from 10-11 December 2021, at Department of Energy Engineering, NEHU, Shillong

2. *Webinar on Design of Wind Turbine System Controller for Enhanced Performance.*

Convener: Mr. Sanat Das, on 25.02.2022, at Department of Energy Engineering, NEHU, Shillong

3. *Virtual Startup Bootcamp 2021 with iDEATION -Numaligarh Refinery Ltd (NRL).*

Convener: Mr. Samar Jyoti Hazarika, on 08.12.2021, at Department of Energy Engineering, NEHU, Shillong

### Publications

#### Published in India:

#### (iv) Book Chapters.01 (Mr. Samar Jyoti Hazarika)

1. Samar Jyoti Hazaika, TapanPegu, PriyanshuNath, PheniciaShobang ,CarollyneKhongphai “ Design Fabrication of Prototype Hot Water Cooling System” In *Understanding Water Crisis* [p. 333-349] ISBN 978-93-82120-41-4 (HB)

#### Published Abroad:

#### Dr. Samrat Paul

- i. PriyankoProtim Gohain, Rajib Saha, Mahua Gupta Choudhury, Samrat Paul(2021). Synthesis and characterization of iron oxide nanoparticles by microwave method. *International Journal of Research and Analytical Reviews*, 8 (2): 978-985.
- ii. Rajib Saha, Kunal Chakraborty, Mahua Gupta Choudhury, Samrat Paul(2021). Simulation study of mixed halide based methylammonium lead ( $\text{MaPbBr}_{3-n}\text{In}_n$ ;  $n=0, 1, 2$  and  $3$ ) based Perovskite solar cells using SCAPS - 1D device simulator. *International Journal of Research and Analytical Reviews*, 8 (4): 39-45.
- iii. Rajib Saha, Dhiraj Sonowal, JitulHazowary, Manas Jyoti Rabha, PriyankoProtim Gohain, Mahua Gupta Choudhury and Samrat Paul (2021). Synthesis and characterization of

- phenethylammoniumlead iodide/bromide based Perovskite for Solar cell application. *International Journal of Research and Analytical Reviews*, 8 (4): 46-52.
- iv. Kunal Chakraborty, Samrat Paul (2021). Study of recombination process of lead-free cesium titanium (IV) based single halide and mixed halide perovskite compounds absorbing layer. *Material Today: Proceedings*. 46 (11): 5194-5197.  
<https://doi.org/10.1016/j.matpr.2020.08.572>
  - v. Kunal Chakraborty, Samrat Paul (2021). Comparison of spectral responses of Cs<sub>2</sub>TiI<sub>6</sub>XBr<sub>x</sub> based Perovskite device with CdS and TiO<sub>2</sub> electron transport layer, *IOP Conf. Series: Materials Science and Engineering* 1080 (012007). <https://doi.org/10.1088/1757-899X/1080/1/012007>.
  - vi. Kunal Chakraborty, M G Choudhury, Samrat Paul (2021). Study of physical, optical, and electrical properties of cesium-titanium (IV)-based single halide Perovskite solar cell, *IEEE JOURNAL OF PHOTOVOLTAICS* . 11 (2): 386-390  
<https://doi.org/10.1109/JPHOTOV.2021.3050268>.
  - vii. Rajib Saha, Mahua Gupta Choudhury, Samrat Paul (2021). Research trends of mixed halide Perovskite nanomaterials in the field of photovoltaic applications. *PENSEE International Journal* 51 (3): 360-373.
  - viii. Rajib Saha, Roopam Bhattacharjee, R Ali, Subham, Kunal Chakraborty, Samrat Paul (2021). Design and implement of dual-axis solar tracker in comparison to fixed panel system, *Journal of nano- and Electronics Physics* 13 (3): 03007-4 [https://doi.org/10.21272/jnep.13\(3\).03007](https://doi.org/10.21272/jnep.13(3).03007).
  - ix. Kunal Chakraborty, Samrat Paul, Sudipta Das (2021). Impact of absorbing layer band gap and light illumination on the device performance of a single halide Cs<sub>2</sub>TiX<sub>6</sub> based PSC. *Journal of nano- and Electronics Physics* 13 (3): 03009-4 [https://doi.org/10.21272/jnep.13\(3\).03009](https://doi.org/10.21272/jnep.13(3).03009).
  - x. Priyanko Gohain, Rajib Saha, Rupam Katak, Mahua Gupta Choudhury and Samrat Paul (2021). Synthesis of mixed-phase barium titanium oxide (BaTiO<sub>3</sub>/Ba<sub>2</sub>TiO<sub>4</sub>) Perovskite catalyst for biofuel production. *Journal of nano- and Electronics Physics* 13 (3) : 03017-4. [https://doi.org/10.21272/jnep.13\(3\).03017](https://doi.org/10.21272/jnep.13(3).03017).
  - xi. Rajib Saha, Kunal Chakraborty, Samrat Paul (2021). Simulation study of formamidinium lead halide (FAPbX<sub>3</sub>; X=I and Br) based Perovskite solar cells using SCAPS-1D device simulator. *Journal of nano- and Electronics Physics* 13 (3): 03019-4  
[https://doi.org/10.21272/jnep.13\(3\).03019](https://doi.org/10.21272/jnep.13(3).03019).
  - xii. Sanat Das, Kunal Chakraborty, Mahua Gupta Choudhury, Samrat Paul (2021). Studies on thickness and internal quantum efficiency. *Journal of nano- and Electronics Physics* 13 (3): 03018-4 [https://doi.org/10.21272/jnep.13\(3\).03018](https://doi.org/10.21272/jnep.13(3).03018).
  - xiii. Kunal Chakraborty, M G Choudhury, Samrat Paul (2021). Life cycle assessment of a lead-free cesiumtitanium (IV) single and mixed halide Perovskite solar cell based 1 m<sup>2</sup> PV module, *IEEE Transactions on Device and Materials Reliability*, 21 (4): 465,  
<https://doi.org/10.1109/TDMR.2021.3106340>.
  - xiv. Thepfuso Meru, Samrat Paul, Mahua Gupta Choudhury (2021). Antibiotic susceptibility test of protease secreting bacteria isolated in the soil samples from Nagaland. *International Journal of All Research Education and Scientific Methods*, 10 (4): 766-771.
  - xv. Rajib Saha, Amrita Dinesh Singh, Pritirekha Boruah, Mahua Gupta Choudhury and Samrat Paul (2022). Synthesis of TiO<sub>2</sub>-CoZnFe<sub>2</sub>O<sub>4</sub> nanocomposite for photocatalytic application. *International Journal of Research and Analytical Reviews*. 9 (2): 604-612.
  - xvi. Rajib Saha, Phibarisha Sohtun, Samiran Bora, Sunshine Sari, Hriday Pratim Das, Mahua Gupta Choudhury, Samrat Paul (2022). Synthesis of silver doped zinc oxide nanoparticles core-shell nanoparticles using microwave assisted low temperature technique for DSSC application. *International Journal of Research and Analytical Reviews*. 9 (1): 626-632.
  - xvii. R. Saha, S. Narzary, M. Gupta Choudhury, S. Paul (2022). Microwave assisted low temperature synthesis of mixed halide-based methyl ammonium lead perovskite (MAPbI<sub>3-n</sub>Br<sub>n</sub>; n=0,1,2 and 3). *International Journal of Research and Analytical Reviews*. 9 (1) : 633-637.
  - xviii. Rajib Saha, Debarshi Das, Mondita Athparia, Kaustav Moni Goswami, Nayan Moni Baishya, Priyanko Protim Gohain, Mahua Gupta Choudhury and Samrat Paul (2022). Production of biodiesel from pine oil in presence of TiO<sub>2</sub>-ZnO based nanocatalyst using microwave assisted process. *International Journal of Research and Analytical Reviews*. 9 (2): 633-641

### Mr. Sanat Das

1. Sanat Das, Kunal Chakraborty, Mahua Gupta Choudhury, Samrat Paul (2021). Studies on thickness and internal quantum efficiency, *Journal of nano- and Electronics Physics* (Sumy, Ukraine) 13(3), 03018-4 (Impact Factor: 0.570; ISSN: 2306-4277) [https://doi.org/10.21272/jnep.13\(3\).03018](https://doi.org/10.21272/jnep.13(3).03018).
2. S. Das, M.G. Choudhury, S. Paul (2022). The hole transport layer material optimization for an efficient lead-free double Perovskite Cs<sub>2</sub>AgBiBr<sub>6</sub> based solar cell by numerical

simulation (Sumy, Ukraine) 14(3), 03012-4  
(Impact Factor: 0.570; ISSN: 2306-4277)  
[https://doi.org/10.21272/jnep.14\(3\).03012](https://doi.org/10.21272/jnep.14(3).03012)

**(v) Proceedings of Seminar/Conferences.**

**Mr. Samar Jyoti Hazarika**

1. Shymal Mandal, Samar Jyoti Hazarika, and Ranjit Sil. (2021). Device for Position Tracking

**IPR Items:**

**(a) Patents:**

**(iv) National**

**(D) Applied**

1. S Paul, M G Choudhury, R Saha; Solar compound parabolic photocatalytic reactor with nanocomposite catalyst for degradation of organic pollutants in water. Applied December 17, 2021. No PAA02855

**(d) Consultancy:**

Title of Consultancy Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of the Consultant	Multi/Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Consultancy and Energy Audit at Swahid Peoli Phukan College, Nanti, Sibsagar, Assam (INR 0.708 including GST of 18%)	Completed (March' 2022)	Samar Jyoti Hazarika	Single (One Month)	SPP College, Sibsagar, Assam	INR 0.12

**Funds Received during the current Year**

**(R) Bulk Grant to the Department other than EMR grant**

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	1.0 lakh

**Academic Collaborations**

**(i) National**

Dr. Samrat Paul

1. Prof.S.K.Samdarshi, Centre of Energy Engineering, Central University of Jharkhand, Ranchi, AREA OF COLLABORATION *Characterization of Photoactive Nanoparticles for Photocatalytic Activity*
2. Prof.B.Ghosh, School of Energy Studies, Jadavpur University, WB, AREA OF COLLABORATION *Characterization of Perovskite Materials for Solar Cell Application,*
3. Prof.R.Kataki, Department of Energy, Tezpur University, Assam, AREA OF COLLABORATION *Production of Biofuels from Locally available Pine- wood,*

System with GPS for Elderly person's health aspect to make them equally accessible in the development and monitoring process in the society. In *International Conference on Artificial Intelligence and Sustainable Engineering* (Springer), <https://doi.org/10.1007/978-981-16-8546-0>

4. Dr. R. G. Nair, Department of Physics, NIT Silchar, Assam, AREA OF COLLABORATION *Characterization of Perovskite Materials for Solar Cell Application,*

**(ii) International**

Dr. Samrat Paul

1. Prof. Alberto Tagliaferro, Applied Science and Technology, University of Politecnico di Torino, Torino, Italy, AREA OF COLLABORATION: *Effect of Mixed Phase Titania on Active Layer of DSSC,*
2. Dr Praveen Jagdale, Applied Science and Technology, University of Politecnico di Torino, Torino, Italy, AREA OF COLLABORATION: *Effect of Mixed Phase Titania on Active Layer of DSSC,*

**Honours/Awards/Recognition/Membership/Fellowship**

Dr. Samrat Paul

1. Life member of IET, IEEE, USA
2. Life member, ISCA, Kolkata India
3. member IEEE, USA
4. Life member SESI, New Delhi, India
5. Life member IFERP, New Delhi, India

Mr. Manmit Saikia

1. Annual Membership of *American Society of Mechanical Engineers (ASME)* for the year:2021-22

### Other Activities

Dr. Samrat Paul:

1. Invited lecture on “Advanced materials and its application in energy”, 09<sup>th</sup> July 2021, Alumni Talk, Tezpur University, Tezpur.
2. Invited lecture on “Perovskite nano-composites for Photovoltaic application International conference on Innovative Research in Renewable Energy Technologies IRRET 2022, 21<sup>st</sup> March 2022, IMPS college of Engineering, WB.
3. Expert panelist in Issues/challenges/opportunities in Energy research and project implementation in NE India-Studies of Studies, conducted by MDoNER, GoI, September 24, 2021.

### Reviewer of Journal

1. Dr Samrat Paul, acted as reviewer of “**Solar Energy**” journal published by Elsevier.
2. Dr Samrat Paul, acted as reviewer of “**International Journal of Renewable Energy and Development**” journal published by Center of Biomass and Renewable Energy (CBIOR) Diponegoro University Indonesia.
3. Dr Samrat Paul, acted as reviewer of “**Advanced Theory and Simulations**” journal published by Wiley

Mr. Manmit Saikia

1. Member of SAC committee 2021-22 for AICTE accreditation process in School of Technology, NEHU, Shillong.
  2. Completed evaluation work for translation as ‘Subject Expert’ in the of first year engineering SWAYAM courses
  - i) Engineering Drawing and Graphics
  - ii) Engineering Graphics
- in regional languages (Assamese) on 23/02/2022

Mr. Samar Jyoti Hazarika

1. Invited to conduct a workshop for DIC Add-on Course on the 12<sup>th</sup> June 2021 for the topic “International Management Systems (ISO 9001, EMS14001 and OHSAS 18001 standard) and implementation in new industries”.

### SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	Name		1	Mr. Sanat Das	Mr Samar Jyoti Hazarika
	Date of Joining		2	02.07.2012	25.04.2013
	Field of specialisation		3	Propulsion and Advanced Energy Materials	Energy Accounting & Management, Renewable Energy Utilization, Power Plant Technology
(A) Teaching Experience (in Years)	UG		4	20 years	8 years
	PG, including PhD		5	Nil	Nil
(B) Research activities	Basic Research		6	No	No
	Applied Research		7	Yes	No
	Action Research		8	No	No
	Project Submitted		9	0	0
	Ongoing Project		10	0	0
	Research Paper in UGC care list journals	Group I	11	0	0
		Group II	12	2	0
	Books /Books chapters Published	Books	13	0	0
		Book Chapters	14	0	1
	Popular Articles (News Paper/ Magazines)		15	0	0



	Seminar / Conference/ Symposia organized	National	16	0	1
		International	17	1	0
	Seminar / Conference/ Symposia attended	National	18	1	1
		International	19	0	0
	Conference Proceedings		20	0	1
	Consultancy		21	0	1
(C) Patent	Applied		22	0	0
	Published		23	0	0
	Granted		24	0	0
(D) E-Content	MOOC/SWAYAM/ E- content developed		25	0	0
(E) Any Other	Teaching /Extension /outreach activities		26	0	1
	Responsibilities other than teaching		27	0	0
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	0	0
	Collaborations	National	29	0	0
		International	30	0	0

Details of Faculties	Name		1	Mr. Sanat Das	Mr Samar Jyoti Hazarika
	Date of Joining		2	02.07.2012	25.04.2013
	Field of specialisation		3	Propulsion and Advanced Energy Materials	Energy Accounting & Management, Renewable Energy Utilization, Power Plant Technology
(A) Teaching Experience (in Years)	UG		4	20 years	8 years
	PG, including PhD		5	Nil	Nil
(B) Research activities	Basic Research		6	No	No
	Applied Research		7	Yes	No
	Action Research		8	No	No
	Project Submitted		9	0	0
	Ongoing Project		10	0	0
	Research Paper in UGC care list journals	Group I	11	0	0
		Group II	12	2	0
	Books /Books chapters Published	Books	13	0	0
		Book Chapters	14	0	1
	Popular Articles (News Paper/ Magazines)		15	0	0
	Seminar / Conference/ Symposia organized	National	16	0	1
		International	17	1	0
	Seminar / Conference/ Symposia attended	National	18	1	1
		International	19	0	0
	Conference Proceedings		20	0	1
	Consultancy		21	0	1
(C) Patent	Applied		22	0	0
	Published		23	0	0
	Granted		24	0	0

(D) E-Content	MOOC/SWAYAM/ E- content developed		25	0	0
(E) Any Other	Teaching /Extension /outreach activities		26	0	1
	Responsibilities other than teaching		27	0	0
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	0	0
	Collaborations	National	29	0	0
		International	30	0	0

## DEPARTMENT OF INFORMATION TECHNOLOGY

Head : Dr. Goutam Saha  
 Telephone : 0364-2723611(O)/ 9485125327 (Mob.)  
 E-mail : [hodit@nehu.ac.in](mailto:hodit@nehu.ac.in)  
 Faculty Profile : 9

Designation	Name and Qualification	Specialization
Professor	Dr.GoutamSaha, M.Tech. (Calcutta Univ.), Ph.D. (IIT, Kharagpur)	System Biology, Internet of Things, Bioinformatics, Bioprocess controller Development
	Dr.Md. IftexharHussain, M.Tech. (Tezpur Univ.), Ph.D. (Tezpur Univ.)	Wireless Networks, Internet of Things (IoT), Network Intelligence
	Dr.BubuBhuyan, M.Tech. (Tezpur University), Ph.D. (Jadavpur Univ.)	Cryptography, Information Security
	Dr.DebdatttaKandar, M.Tech. (Allahabad AIDU), Ph.D. (Jadavpur Univ.)	Wireless Mobile Communication, Soft Computing, Artificial Intelligence, RADAR
Associate Professor	Dr.Arnab Kumar Maji, M.Tech. (IIEST, Shibpur), Ph.D. (Assam Univ.)	Machine Learning, Natural Language Processing, Algorithm, Medical Image Processing, Computer Vision
Assistant Professor	Mrs.SangitaNeog, M.Tech. (Tezpur Univ.)	Information theoretic security, Artificial Intelligence
	Dr.Sufal Das, M. Tech. (Tezpur Univ.), Ph.D. (NEHU)	Big Data Analysis, Data Mining
	Dr.KhwairakpamAmitab, M.E. (Punjab Engg. College), Ph.D. (NEHU)	Image Processing, Applications of Machine Learning
	Dr.AmitabhaNath, M.Tech. (Tezpur Univ.), Ph.D. (NEHU)	Machine Learning, Remote sensing and GIS Technology

### Thrust Areas of Research

Internet of Things (IoT), Wireless Networking, Cryptography and Network Security, Artificial Intelligence, Machine Learning and its Applications, Image Processing, Big Data Analysis, System Biology and Bioinformatics, Natural Language Processing, Computer Vision, Information Security, Remote sensing and GIS Technology, Wireless Mobile Communication, Soft Computing, Artificial Intelligence, RADAR

### Brief Statement of Academic Activities and achievements:

The Department is offering the B.Tech. (IT), M.Tech. (IT) and Ph.D. programmes. During the year under report, 47 students completed their B.Tech.(IT) degree, 9 students got their

M.Tech.(IT) degree and 04 students got Ph.D. degree.

Four (4) students received the UGC-Non-Net Fellowship and one student received prestigious Inspire Fellowship. Faculty members of the Department contributed twenty papers published in international/national journals, and sixteen book chapters / conference papers in edited volumes and proceedings. One of the faculty members of this department acted as Joint coordinator for conducting International Faculty Development Programme on *Data Analytics and Machine Learning* during 21-25, March 2022 in collaboration with Mizoram University in Online mode. One of our faculty members acted as Organizing Chair to organize *2<sup>nd</sup> International Conference on Frontiers in Computing and Systems (COMSYS)-2021* during 29<sup>th</sup> September to 1<sup>st</sup> October 2021. Many of our faculty members have academic collaboration with faculty members from reputed universities of India and

abroad. Many joint papers were published in reputed Journals from this joint venture. One of the faculty members of this department acted as Project Reviewer and member of Steering Group (PRSG) for the project on “Design and deployment of IoT based hydroponics system for Agri-research in North East Region”, Ministry of Electronics and Information Technology (MeitY), Govt. of India. The departmental faculty members are very young and energetic. They are working in divergent domain like application of computer science in Environmental domain, Image

processing, Big Data Analysis, Cryptography (Blockchain and Chia), Internet of Things and its several applications. They acted as resource persons to many reputed universities in different workshops, Symposiums etc. This department has the potentiality of venturing into start up domain which generally will be of low cost through different academic projects. At least two patents have been published from this department. Last year many reputed Multinational Companies came here for conducting recruitment process.

### Students' Profile

#### Enrolment Capacity:

- **B. Tech** : 42 (Vertical-38, Lateral-4)
- **M.Tech** : 25 (Vertical-23, Sponsored-2)
- **Ph.D.** : Variable

#### Enrolment of students from different States of India and Abroad

##### • B. Tech:

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	0	1	2	1	1	0	0	0	1	0	0	0	4	2
Andhra Pradesh	0	0	0	0	1	0	0	0	0	0	0	0	1	0
Arunachal Pradesh	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Bihar	1	0	0	0	0	0	3	0	0	0	0	0	4	0
Gujarat	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Jharkhand	1	0	0	0	0	0	0	0	0	0	0	0	1	0
Maharashtra	0	0	0	0	1	0	0	0	0	0	0	0	1	0
Meghalaya	2	1	7	11	0	0	0	0	0	0	0	0	9	12
Tripura	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Uttar Pradesh	1	0	0	0	0	0	1	0	1	0	0	0	3	0
West Bengal	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Sub Total	5	3	9	14	3	0	4	0	2	1	0	0	23	18
Total	8		23		3		4		3		0		41	

##### • M. Tech:

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	0	1	1	0	1	1	0	0	0	0	0	0	2	2
Meghalaya	1	0	13	2	0	0	0	0	0	0	0	0	14	2
West Bengal	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Sub Total	1	2	14	2	1	1	0	0	0	0	0	0	16	5
Total	3		16		2		0		0		0		21	

##### • Ph.D.:

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	0	1	0	0	0	0	0	1	0	0	0	0	0	2

Madhya Pradesh	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Manipur	1	0	0	0	0	0	0	0	0	0	0	0	1	0
Meghalaya	0	0	4	0	0	0	0	0	0	0	0	0	4	0
Odisha	1	0	0	0	0	0	0	0	0	0	0	0	1	0
West Bengal	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Sub Total	1	1	0	0	0	0	0	2	0	0	0	0	6	4
International	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	2		0		0		2		0		0		10	

### Degrees Awarded

#### Degrees Awarded to students from different States of India and Abroad

##### • B. Tech. awarded (2017 Batch): 47 awarded

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	1	0	10	0	0	1	0	0	0	0	0	0	11	1
Assam	8	2	0	5	5	5	3	2	0	0	0	0	16	14
West Bengal	0	0	0	0	0	0	1	0	0	0	0	0	1	0
Jharkhand	1	0	0	0	0	0	0	0	0	0	0	0	1	0
Uttar Pradesh	1								0	0	0	0	1	0
Delhi	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Bihar	1	0	0	0	0	0	0	0	0	0	0	0	1	0
Sub Total	12	3	10	5	5	6	4	2	0	0	0	0	31	16
International	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	15		15		11		6		0		0		47	

##### • M. Tech. awarded (2019 Batch): 09 awarded

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	0	0	2	2	0	0	0	0	0	0	0	0	2	2
Assam	0	2	0	0	0	0	1	0	0	0	0	0	1	2
Odisha	1	0	0	0	0	0	0	0	0	0	0	0	1	0
Bihar	1	0	0	0	0	0	0	0	0	0	0	0	1	0
Sub Total	2	2	2	2	0	0	1	0	0	0	0	0	5	4
International	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	4		4		0		1		0		0		9	

##### Ph.D. awarded: 04 awarded

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Assam	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Tripura	0	0	0	0	0	0	1	0	0	0	0	0	1	0
Mizoram	0	0	0	0	1	0	0	0	0	0	0	0	1	0
Sub Total	0	1	0	1	1	0	1	0	0	0	0	0	2	2
International	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1		1		1		1		0		0		4	

#### Students Awarded Ph.D. Degree:

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
JuniorikaLyngdoh	Design and Analysis of Bio-inspired secure Techniques for self organizing networks	Dr. H.K. Kalita and Dr.Md. I. Hussain (Joint Supervisor)

Subhrajyoti Deb	Design and Analysis of Lightweight stream Ciphers	Dr.BubuBhuyan
Tanuja Das	Development of relevant machine learning algorithms for knowledge discovery from Big Data	Dr.GoutamSaha
Rohit Kumar Das	Design of Software Defined Network based Controller for Internet of Things	Prof.GoutamSaha and Dr.Arnab Kr. Maji (Joint Supervisor)

#### Placement of Students:

Name of the Student(s)	Name of the Programme	Post Held	Place of Work
1. KirtiJha	B.Tech.	Software Associate	Cognizant Gen C Rs.4.1 Lakh Per Annum approx. + Other Incentives as per Company norms
2.Shruti Borah	B.Tech.		
3.Kajal Singh	B.Tech.		
1.Kamindra K.Baitha	B.Tech.	Associate Manager	Cognizant GenC Rs. 4.1 Lakh Per Annum approx. + Other Incentives as per Company norms
2. Abdul Momin			

#### Research Fellowship

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others
0	4	0	-	1	0

Management Systems Laboratory; Object Oriented

Programming using C++ Laboratory

#### Courses Conducted:

**Undergraduate:** B.Tech.

##### *Semester I*

Engineering Mathematics-I; Engineering Chemistry ; Engineering Mechanics; Engineering Physics, Basic Electrical Engineering; Engineering Physics Laboratory; Engineering Graphics.

##### *Semester II*

Engineering Mathematics-II; Computer System and Programming; Elements of Environmental Science; Basic Electronics; Professional Communication Skills; Computer Programming Laboratory; Digital English Language Lab

##### *Semester III*

Digital Electronics; Data Structures and Algorithms; Discrete Mathematics; Computer Graphics and Multimedia; Data Communication; Data Structure Laboratory; Computer Graphics and Multimedia Lab.

##### *Semester IV*

Statistics and Random Processes; Relational Database Management Systems; Formal Language and Automata Theory; Object Oriented Programming & Methodology; Computer Organization and Architecture; Database

##### *Semester V*

Compiler Design; Operating System; Algorithm Analysis and Design; Computer Networks; Operating System Laboratory; Computer Networks Laboratory; Java Programming Laboratory.

##### *Semester VI*

Engineering Economics & Accountancy, Web Technology; Cryptography & Network Security; Web Technology Laboratory, Cryptography & Network Security Lab, Software System Lab, Elective I (Wireless Networks).

##### *Semester VII*

Software Engineering; Artificial Intelligence; Elective-II (Operation Research); Minor Project.

##### *Semester VIII*

Elective-III (Natural Language Processing), Elective-IV (Advanced Cryptography), Major Project; Grand Viva.

**Postgraduate:** M.Tech

##### *Semester I*

Mathematical Foundations of Information Science; Theory of Computer Science; Computer Architecture and Operating System; Advanced

Database System; Elective (Cryptography); Software System Laboratory.

### **Semester II**

Algorithms and Complexity; Advanced Computer Networks; Elective I (Data mining and Data warehousing); Elective II (Network Security); Elective III (Soft Computing); Seminar on Advanced Topics; Internet Technology Lab.

### **Semester III**

MTech Thesis; Elective IV (Soft Computing).

### **Semester IV**

MTech Thesis

### **Ph.D. Courses**

Research Methodology; Algorithm Analysis and Design, Network Security, Soft Computing, Data Mining & Data Warehousing; Seminars/Conferences/Workshops/Symposia/Extension Programmes (National/International):

### **Seminars/Conferences/Workshops/Symposia/Extension Programmes (National/International):**

#### **Organized**

1) International Faculty Development Programme on *Data Analytics and Machine Learning* during 21-25, March 2022 in collaboration with Mizoram University (Online). Coordinator: Prof. Jamal Hussain, Mizoram University, Joint Coordinator: Prof. Md. Iftekhar Hussain, NEHU

2) Dr. A.K. Maji organized “*2<sup>nd</sup> International Conference on Frontiers in Computing and Systems (COMSYS)-2021*” as Organizing Chair during 29<sup>th</sup> September to 1<sup>st</sup> October 2021.

#### **Attended**

1. Dr. A.K. Maji presented a paper entitled “Investigating part-of-speech tagging in Khasi using Naïve Bayes and support vector machine” in International Conference on Innovative Computing and Communication (ICICC-2022) at Shaheed Sukhdev College of Business Studies, University of Delhi during 19<sup>th</sup> Feb to 21<sup>st</sup> Feb 2022.

### **Publications**

#### **Published Abroad:**

(1) Hussain, M. I., Ahmed, N., Ahmed, M., Iqbal, Z., & Sarma, N. (2022). QoS Provisioning in Wireless Mesh Networks: A Survey. *Wireless Personal Communications*, 122(1): 157-195.

(2) Rahman, H., & Hussain, M. I. (2021). A lightweight dynamic ontology for Internet of Things using machine learning technique. *ICT Express*, 7(3): 355-360.

(3) Ahmed, N., De, D., Barbhuiya, F. A., & Hussain, M. I. (2021). MAC Protocols for IEEE 802.11 ah-based Internet of Things: A Survey. *IEEE Internet of Things Journal*, 9(2): 916-938.

(4) Ahmed, N., & Hussain, M. (2021). Scalable internet of things network design using multi-hop IEEE 802.11 ah. *Telecommunication Systems*, 78(4): 577-588.

(5) Hassan, S.M., Maji, A.K., Jasiński, M., Leonowicz, Z., Jasińska, E. (2021). Identification of Plant-Leaf Diseases Using CNN and Transfer-Learning Approach. *Electronics*. 10 (12) : <https://doi.org/10.3390/electronics10121388>.

(6) Warjri, S., Pakray, P., Lyngdoh, S.A., Maji, A.K. (2021). Part-of-speech (POS) tagging using conditional random field (CRF) model for Khasi corpora. *International Journal of Speech Technology*. 24: <https://doi.org/10.1007/s10772-021-09860-w>

(7) Hazarika, R.A., Abraham, A., Sur, S.N., Maji, A.K., Kandar, D. (2021). Different techniques for Alzheimer's disease classification using brain images: a study. *International Journal of Multimedia Information Retrieval*. 10: <https://doi.org/10.1007/s13735-021-00210-9>

(8) Jana, S., Dey, A., Maji, A.K., Pal, R.K. (2021). A novel hybrid genetic algorithm-based firefly mating algorithm for solving Sudoku. *Innovations in Systems and Software Engineering*. 17: <https://doi.org/10.1007/s11334-021-00397-4>

(9) Hazarika, R.A., Maji, A.K., Sur, S.N., Paul, B.S., Kandar, D. (2021). A Survey on Classification Algorithms of Brain Images in Alzheimer's Disease Based on Feature Extraction Techniques. *IEEE Access*. 9: <https://doi.org/10.1109/ACCESS.2021.3072559>.

(10) Hassan, S.M., Jasinski, M., Leonowicz, Z., Jasińska, E., Maji, A.K. (2021). Plant Disease Identification Using Shallow Convolutional Neural Network. *Agronomy*. 11(12): <https://doi.org/10.3390/agronomy11122388>.

(11) Hazarika, R.A., Abraham, A., Kandar, D., Maji, A.K. (2021). An Improved LeNet-Deep Neural Network Model for Alzheimer's Disease Classification Using Brain Magnetic Resonance Images. *IEEE Access*. 9: <https://doi.org/10.1109/ACCESS.2021.3131741>

(12) Hassan, S.M., Maji, A. K. (2022). Plant Disease Identification Using a Novel Convolutional Neural Network. *IEEE Access*. 10: <https://doi.org/10.1109/ACCESS.2022.3141371>.

Warjri, S., Pakray, P., Lyngdoh, S.A., Maji, A.K. (2022). Part-of-Speech (POS) Tagging Using Deep

Learning-Based Approaches on the Designed Khasi POS Corpus. *ACM Transactions on Asian and Low-Resource Language Information Processing*. 21(3): <https://doi.org/10.1145/3488381>.

Wahlang, I., Maji, A.K., Saha, G., Chakrabarti P., Jasinski, M., Leonowicz, Z., Jasinska, E. (2022). Brain Magnetic Resonance Imaging Classification Using Deep Learning Architectures with Gender and Age. *Sensors*. 22(5): <https://doi.org/10.3390/s22051766>.

Hazarika, R.A., Maji, A.K., Syiem, R., Sur, S., Kandar, D. (2022). Hippocampus Segmentation Using U-Net Convolutional Network from Brain Magnetic Resonance Imaging (MRI). *Journal of Digital Imaging*. 10(7): <https://doi.org/10.1007/s10278-022-00613-y>

Chowdhury, S., Datta, P., Pal, R. K., & Saha, G. (2021). An efficient multiple fault detection technique in digital microfluidic biochips. *IETE Journal of Research*, 67(6): 899-912. <https://doi.org/10.1080/03772063.2019.1571954>

Kumar, R., Nath, A. J., Nath, A., Sahu, N., & Pandey, R. (2022). Landsat-based multi-decadal spatio-temporal assessment of the vegetation greening and browning trend in the Eastern Indian Himalayan Region. *Remote Sensing Applications: Society and Environment*, 25, 100695. <https://doi.org/10.1016/j.rsase.2022.100695>

Ahirwal, J., Saha, P., Nath, A., Nath, A. J., Deb, S., & Sahoo, U. K. (2021). Forests litter dynamics and environmental patterns in the Indian Himalayan region. *Forest Ecology and Management*, 499, 119612. <https://doi.org/10.1016/j.foreco.2021.119612>

Hmingliana, L., Nath, A., Rao, C. B., Saha, G., Amitab, K., & Sailo, L. (2021). Computational Technique for Interlinking of Dam Sites. *Science and Technology Journal*. 9(2), 169-173

Deb, S., Pal, S., & Bhuyan, B. (2022). NMRMG: Nonlinear Multiple-Recursive Matrix Generator Design Approaches and Its Randomness Analysis. *Wireless Personal Communications*, 1-21. <https://doi.org/10.1007/s11277-022-09566-5>

Kumar, V. D., Kanagachidambaresan, G. R., Chyne, P., Kandar, D. (2021). Extended Communication Range for Autonomous Vehicles using Hybrid DSRC/WiMAX Technology. *International Journal of Wireless Personal Communications (Springer)*. 123, 2301-2316. <https://doi.org/10.1007/s11277-021-09242-0>

Passah, A., Sur, S.N., Paul, B.S., Kandar, D. (2022). SAR Image Classification: A Comprehensive Study and Analysis. *International*

*Journal of IEEE Access*. 10, 20385 – 20399. <https://doi.org/10.1109/ACCESS.2022.3151089>

Hazarika, R.A., Abraham, A., Sur, S.N., Maji, A.K., Kandar, D. (2021). An experimental analysis of different Deep Learning based Models for Alzheimer's Disease classification using Brain Magnetic Resonance Images. *International Journal of Journal of King Saud University-Computer and Information Sciences*. <https://doi.org/10.1016/j.jksuci.2021.09.003>

Lalchhanhima, R., Saha, G., Sur, S.N., Kandar, D. (2021). "Water Body Segmentation of Synthetic Aperture Radar Image using Deep Convolutional Neural Networks. *International Journal of Microprocessors and Microsystems*. <https://doi.org/10.1016/j.micpro.2021.104360>

Kumar, V. D., Nandi, S., Kandar, D. (2021). Smart inter-operable vehicular communication using hybrid IEEE 802.11p, IEEE 802.16d/e technology. *International Journal of Communication Systems (John Wiley & Sons Ltd)*. <https://doi.org/10.1002/dac.4847>

Kandar, D., Singh, A. K., Sur, S.N., Nandi, S. (2021). Performance Analysis of Lattice Reduction assisted Precoder for Multi-User Millimeter Wave MIMO System. *International Journal of Communication Systems (John Wiley & Sons Ltd)*. <https://doi.org/10.1002/dac.4853>

#### (ix) Books.

Maji, A.K., Saha, G., Das, S., Basu, S., Tavares, J.M.R.S. (2021). *Proceedings of the International Conference on Computing and Communication Systems: I3CS 2020*. Springer Nature, Singapore, ISBN: 978-981-33-4084-8.

#### (x) Book Chapters.

Thungon, L.C., Ravinandan, Hussain, M.I. (2021). Performance Evaluation of Zero Knowledge and HMAC-Based Authentication in Fog-Based Internet of Things. In *Proceedings of the International Conference on Computing and Communication Systems: Lecture Notes in Networks and Systems*. Maji, A.K., Saha, G., Das, S., Basu, S., Tavares, J.M.R.S. (Eds), vol. 170. Springer, Singapore. pp. 633-641.

Medhi, K., Mondal, A., Hussain, M.I. (2021). An Approach to Handle Heterogeneous Healthcare IoT Data Using Deep Convolutional Neural Network. In: *Emerging Technologies for Smart Cities. Lecture Notes in Electrical Engineering*, Bora, P.K., Nandi, S., Laskar, S. (Eds). vol. 765. Springer, Singapore. pp. 25-31.

Jana, S., Mallik, M., Maji, A.K., Pal, R.K. (2021). A Novel Search Tree-Based 3D Sudoku Solver. In *Proceedings of the International Conference on*



- Computing and Communication Systems. Maji, A.K., Saha, G., Das, S., Basu, S., Tavares, J.M.R.S. (Eds). Springer, Singapore, Chapter 68, pp. 709-718. [https://doi.org/10.1007/978-981-33-4084-8\\_68](https://doi.org/10.1007/978-981-33-4084-8_68)
- Warjri, S., Pakray, P., Lyngdoh, S., Maji, A.K. (2021). Adopting Conditional Random Field (CRF) for Khasi Part-of-Speech Tagging (KPOST). In *Proceedings of the International Conference on Computing and Communication Systems*. Maji, A.K., Saha, G., Das, S., Basu, S., Tavares, J.M.R.S. (Eds). Springer, Singapore, Chapter 8, pp. 75-86. [https://doi.org/10.1007/978-981-33-4084-8\\_8](https://doi.org/10.1007/978-981-33-4084-8_8)
- Wahlang, I., Saha, G., Maji, A.K. (2021). A Comparative Analysis on Denoising Techniques in Brain MRI and Cardiac Echo. In *Proceedings of the International Conference on Computing and Communication Systems*. Maji, A.K., Saha, G., Das, S., Basu, S., Tavares, J.M.R.S. (Eds). Springer, Singapore, Chapter 36, pp. 381-392. [https://doi.org/10.1007/978-981-33-4084-8\\_36](https://doi.org/10.1007/978-981-33-4084-8_36)
- Das, R.K., Pohrmen, F.H., Maji, A.K., Saha, G. (2021). FoSDN: A Software-Defined Edge Computation for Resource Constraint Network. In *Proceedings of the International Conference on Computing and Communication Systems*. Maji, A.K., Saha, G., Das, S., Basu, S., Tavares, J.M.R.S. (Eds). Springer, Singapore, Chapter 44, pp. 463-470. [https://doi.org/10.1007/978-981-33-4084-8\\_44](https://doi.org/10.1007/978-981-33-4084-8_44)
- Jana, S., Dey, A., Maji, A.K., Pal, R.K. (2022). Solving Sudoku Using Neighbourhood-Based Mutation Approach of Genetic Algorithm. In *Advanced Computing and Systems for Security*. Chaki, R., Chaki, N., Cortesi, A., Saeed, K. (Eds). Springer, Singapore, Chapter 11, pp. 153-167. [https://doi.org/10.1007/978-981-16-4287-6\\_11](https://doi.org/10.1007/978-981-16-4287-6_11)
- Hazarika, R.A., Kandar, D., Maji, A.K. (2022). A Novel Deep Neural Network Based Approach for Alzheimer's Disease Classification Using Brain Magnetic Resonance Imaging (MRI). In *Innovations in Bio-Inspired Computing and Applications (IBICA-2021)*. Abraham, A., Madureira, A. M., Kaklauskas, A., Muda, A.K., Kriksciuniene, D., Ferreira, J.C. (Eds.). Springer, Cham, Chapter 36, pp. 381-390. [https://doi.org/10.1007/978-3-030-96299-9\\_37](https://doi.org/10.1007/978-3-030-96299-9_37)
- Nath, A., Nath, A. J., Pandey, R., & Das, A. K. (2021). Modeling Soil Organic Carbon: Implications for Soil Organic Matter Management in the Indian Himalayan Region. In *Soil Organic Carbon and Feeding the Future*. CRC Press. pp. 205-218. <https://doi.org/10.1201/9781003243090-9>
- Wahlang, I., Saha, G., & Maji, A. K. (2021). A Comparative Analysis on Denoising Techniques in Brain MRI and Cardiac Echo. In *Lecture Notes in Networks and Systems book series (LNNS)*, vol. 170, pp. 381-391. [https://doi.org/10.1007/978-981-33-4084-8\\_36](https://doi.org/10.1007/978-981-33-4084-8_36)
- Das, R. K., Pohrmen, F. H., Maji, A. K., & Saha, G. (2021). FoSDN: A Software-Defined Edge Computation for Resource Constraint Network. In *Lecture Notes in Networks and Systems book series (LNNS)*, vol. 170, pp. 463-470. [https://doi.org/10.1007/978-981-33-4084-8\\_44](https://doi.org/10.1007/978-981-33-4084-8_44)
- Dasgupta, S., Bhattacharya, S., Khan, A., Halder, A., Saha, G., & Kumar Pal, R. (2021). Disease-Relevant Gene Selection Using Mean Shift Clustering. In *Lecture Notes in Networks and Systems book series (LNNS)*, vol. 242, pp. 151-163. [https://doi.org/10.1007/978-981-16-4294-4\\_10](https://doi.org/10.1007/978-981-16-4294-4_10)
- Chowdhury, S., Kabir, K. A., Dhal, D., Pal, R. K., & Saha, G. (2021). Multiple Fault Identification and Diagnosis in Cross-Referencing Digital Microfluidic Biochips. In *Lecture Notes in Networks and Systems book series (LNNS)*, vol. 242, pp. 165-178. [https://doi.org/10.1007/978-981-16-4294-4\\_11](https://doi.org/10.1007/978-981-16-4294-4_11)
- Kumar, B., Bhuyan, B. (2021). Game Theoretical Defense Mechanism Against Bandwidth Based DDoS Attacks. In *Proceedings of the International Conference on Computing and Communication Systems*. Lecture Notes in Networks and Systems, vol. 170. Springer, Singapore. [https://doi.org/10.1007/978-981-33-4084-8\\_58](https://doi.org/10.1007/978-981-33-4084-8_58)
- (xi) Proceedings of Seminar/Conferences.**
- Das, S. (2022). Sentiment Analysis and Emotion Detection from Khasi Text Data - A Survey. In 1st International Conference on Information and Communication Technology for Development (ICICTD 2022) July 29-30, Khulna University of Engineering & Technology (KUET), Bangladesh.

#### **Published Abroad:**

- 1) **Hussain, M. I.**, Ahmed, N., Ahmed, M., Iqbal, Z., & Sarma, N. (2022). QoS Provisioning in Wireless Mesh Networks: A Survey. *Wireless Personal Communications*, 122(1): 157-195.
- 2) Rahman, H., & **Hussain, M. I.** (2021). A light-weight dynamic ontology for Internet of Things using machine learning technique. *ICT Express*, 7(3): 355-360.
- 3) Ahmed, N., De, D., Barbhuiya, F. A., & **Hussain, M. I.** (2021). MAC Protocols for IEEE 802.11 ah-based Internet of Things: A Survey. *IEEE Internet of Things Journal*, 9(2): 916-938.
- 4) Ahmed, N., & **Hussain, M. I.** (2021). Scalable internet of things network design using multi-hop

- IEEE 802.11 ah. *Telecommunication Systems*, 78(4): 577-588.
- 5) Hassan, S.M., **Maji, A.K.**, Jasiński, M., Leonowicz, Z., Jasińska, E. (2021). Identification of Plant-Leaf Diseases Using CNN and Transfer-Learning Approach. *Electronics*. 10(12):<https://doi.org/10.3390/electronics10121388>.
- 6) Warjri, S., Pakray, P., Lyngdoh, S.A., **Maji, A.K.** (2021). Part-of-speech (POS) tagging using conditional random field (CRF) model for Khasi corpora. *International Journal of Speech Technology*.24:<https://doi.org/10.1007/s10772-021-09860-w>
- 7) Hazarika, R.A., Abraham, A., Sur, S.N., **Maji, A.K.,Kandar, D.** (2021). Different techniques for Alzheimer's disease classification using brain images: a study. *International Journal of Multimedia Information Retrieval*. 10:<https://doi.org/10.1007/s13735-021-00210-9>
- 8) Jana, S., Dey, A., **Maji, A.K.**, Pal, R.K. (2021). A novel hybrid genetic algorithm-based firefly mating algorithm for solving Sudoku. *Innovations in Systems and Software Engineering*. 17:<https://doi.org/10.1007/s11334-021-00397-4>
- 9) Hazarika, R.A., **Maji, A.K.**, Sur, S.N., Paul, B.S., **Kandar, D.** (2021). A Survey on Classification Algorithms of Brain Images in Alzheimer's Disease Based on Feature Extraction Techniques. *IEEE Access*. 9: <https://doi.org/10.1109/ACCESS.2021.3072559>.
- 10) Hassan, S.M., Jasinski, M., Leonowicz, Z., Jasińska, E., **Maji, A.K.** (2021). Plant Disease Identification Using Shallow Convolutional Neural Network. *Agronomy*. 11(12):<https://doi.org/10.3390/agronomy11122388>.
- 11) Hazarika, R.A., Abraham, A., **Kandar, D., Maji, A.K.** (2021). An Improved LeNet-Deep Neural Network Model for Alzheimer's Disease Classification Using Brain Magnetic Resonance Images.*IEEE Access*. 9: <https://doi.org/10.1109/ACCESS.2021.3131741>
- 12) Hassan, S.M., **Maji, A. K.** (2022). Plant Disease Identification Using a Novel Convolutional Neural Network. *IEEE Access*.10:<https://doi.org/10.1109/ACCESS.2022.3141371>.
- 13) Warjri, S.,Pakray, P., Lyngdoh, S.A., **Maji, A.K.** (2022). Part-of-Speech (POS) Tagging Using Deep Learning-Based Approaches on the Designed Khasi POS Corpus.*ACM Transactions on Asian and Low-Resource Language Information Processing*.21(3):<https://doi.org/10.1145/3488381>.
- 14) Wahlang, I., **Maji, A.K.,Saha, G.**, Chakrabarti P., Jasinski, M., Leonowicz, Z., Jasińska, E. (2022). Brain Magnetic Resonance Imaging Classification Using Deep Learning Architectures with Gender and Age. *Sensors*. 22(5):<https://doi.org/10.3390/s22051766>.
- 15) Hazarika, R.A., **Maji, A.K.**,Syiem, R., Sur, S., **Kandar, D.** (2022). Hippocampus Segmentation Using U-Net Convolutional Network from Brain Magnetic Resonance Imaging (MRI). *Journal of Digital Imaging*. 10(7):<https://doi.org/10.1007/s10278-022-00613-y>
- 16) Chowdhury, S., Datta, P., Pal, R. K., &**Saha, G.** (2021). An efficient multiple fault detection technique in digital microfluidic biochips. *IETE Journal of Research*, 67(6): 899-912.<https://doi.org/10.1080/03772063.2019.1571954>
- 17) Kumar, R., Nath, A. J., **Nath, A.**, Sahu, N., & Pandey, R. (2022). Landsat-based multi-decadal spatio-temporal assessment of the vegetation greening and browning trend in the Eastern Indian Himalayan Region. *Remote Sensing Applications: Society and Environment*, 25, 100695.<https://doi.org/10.1016/j.rsase.2022.100695>
- 18) Ahirwal, J., Saha, P., **Nath, A.**, Nath, A. J., Deb, S., &Sahoo, U. K. (2021). Forests litter dynamics and environmental patterns in the Indian Himalayan region. *Forest Ecology and Management*, 499, 119612. <https://doi.org/10.1016/j.foreco.2021.119612>
- 19) Hmingliana, L., **Nath, A.**, Rao, C. B., Saha, G.,**Amitab, K.**,&Sailo, L. (2021). Computational Technique for Interlinking of Dam Sites. *Science and Technology Journal*. 9(2), 169-173
- 20) Deb, S., Pal, S., &**Bhuyan, B.** (2022). NMRMG: Nonlinear Multiple-Recursive Matrix Generator Design Approaches and Its Randomness Analysis. *Wireless Personal Communications*, 1-21.<https://doi.org/10.1007/s11277-022-09566-5>
- 21) Kumar, V. D., Kanagachidambaresan, G. R., Chyne, P., **Kandar, D.** (2021). Extended Communication Range for Autonomous Vehicles using Hybrid DSRC/WiMAX Technology. *International Journal of Wireless Personal Communications(Springer)*. 123, 2301–2316. <https://doi.org/10.1007/s11277-021-09242-0>
- 22) Passah, A., Sur, S.N., Paul, B.S., **Kandar, D.** (2022). SAR Image Classification: A Comprehensive Study and Analysis. *International Journal of IEEE Access*. 10, 20385 – 20399. <https://doi.org/10.1109/ACCESS.2022.3151089>
- 23) Hazarika, R.A., Abraham, A., Sur, S.N., **Maji, A.K., Kandar, D.** (2021). An experimental analysis of different Deep Learning based Models

for Alzheimer's Disease classification using Brain Magnetic Resonance Images. *International Journal of Journal of King Saud University-Computer and Information Sciences*. <https://doi.org/10.1016/j.jksuci.2021.09.003>

24) Lalchhanhima, R., **Saha, G.**, Sur, S.N., **Kandar, D.** (2021). "Water Body Segmentation of Synthetic Aperture Radar Image using Deep Convolutional Neural Networks. *International Journal of Microprocessors and Microsystems*. <https://doi.org/10.1016/j.micpro.2021.104360>

25) Kumar, V. D., Nandi, S., **Kandar, D.** (2021). Smart inter-operable vehicular communication using hybrid IEEE 802.11p, IEEE 802.16d/e technology. *International Journal of Communication Systems (John Wiley & Sons Ltd)*. <https://doi.org/10.1002/dac.4847>

26) **Kandar, D.**, Singh, A. K., Sur, S.N., Nandi, S. (2021). Performance Analysis of Lattice Reduction assisted Precoder for Multi-User Millimeter Wave MIMO System. *International Journal of Communication Systems (John Wiley & Sons Ltd)*. <https://doi.org/10.1002/dac.4853>

#### (xii) Books.

1) **Maji, A.K., Saha, G.**, Das, S., Basu, S., Tavares, J.M.R.S. (2021). *Proceedings of the International Conference on Computing and Communication Systems: I3CS 2020*. Springer Nature, Singapore, ISBN: 978-981-33-4084-8.

#### (xiii) Book Chapters.

1) Thungon, L.C., Ravinandan, **Hussain, M.I.** (2021). Performance Evaluation of Zero Knowledge and HMAC-Based Authentication in Fog-Based Internet of Things. In *Proceedings of the International Conference on Computing and Communication Systems: Lecture Notes in Networks and Systems*. Maji, A.K., Saha, G., Das, S., Basu, S., Tavares, J.M.R.S. (Eds), vol. 170. Springer, Singapore. pp. 633-641.

2) Medhi, K., Mondal, A., **Hussain, M.I.** (2021). An Approach to Handle Heterogeneous Healthcare IoT Data Using Deep Convolutional Neural Network. In: *Emerging Technologies for Smart Cities. Lecture Notes in Electrical Engineering*, Bora, P.K., Nandi, S., Laskar, S. (Eds). vol. 765. Springer, Singapore. pp. 25-31.

3) Jana, S., Mallik, M., **Maji, A.K.**, Pal, R.K. (2021). A Novel Search Tree-Based 3D Sudoku Solver. In *Proceedings of the International Conference on Computing and Communication Systems*. Maji, A.K., Saha, G., Das, S., Basu, S., Tavares, J.M.R.S. (Eds). Springer, Singapore, Chapter 68, pp. 709-718. [https://doi.org/10.1007/978-981-33-4084-8\\_68](https://doi.org/10.1007/978-981-33-4084-8_68)

4) Warjri, S., Pakray, P., Lyngdoh, S., **Maji, A.K.** (2021). Adopting Conditional Random Field (CRF) for Khasi Part-of-Speech Tagging (KPOST). In *Proceedings of the International Conference on Computing and Communication Systems*. Maji, A.K., Saha, G., Das, S., Basu, S., Tavares, J.M.R.S. (Eds). Springer, Singapore, Chapter 8, pp. 75-86. [https://doi.org/10.1007/978-981-33-4084-8\\_8](https://doi.org/10.1007/978-981-33-4084-8_8)

5) Wahlang, I., Saha, G., **Maji, A.K.** (2021). A Comparative Analysis on Denoising Techniques in Brain MRI and Cardiac Echo. In *Proceedings of the International Conference on Computing and Communication Systems*. Maji, A.K., Saha, G., Das, S., Basu, S., Tavares, J.M.R.S. (Eds). Springer, Singapore, Chapter 36, pp. 381-392. [https://doi.org/10.1007/978-981-33-4084-8\\_36](https://doi.org/10.1007/978-981-33-4084-8_36)

6) Das, R.K., Pohrmen, F.H., **Maji, A.K., Saha, G.** (2021). FoSDN: A Software-Defined Edge Computation for Resource Constraint Network. In *Proceedings of the International Conference on Computing and Communication Systems*. Maji, A.K., Saha, G., Das, S., Basu, S., Tavares, J.M.R.S. (Eds). Springer, Singapore, Chapter 44, pp. 463-470. [https://doi.org/10.1007/978-981-33-4084-8\\_44](https://doi.org/10.1007/978-981-33-4084-8_44)

7) Jana, S., Dey, A., **Maji, A.K.**, Pal, R.K. (2022). Solving Sudoku Using Neighbourhood-Based Mutation Approach of Genetic Algorithm. In *Advanced Computing and Systems for Security*. Chaki, R., Chaki, N., Cortesi, A., Saeed, K. (Eds). Springer, Singapore, Chapter 11, pp. 153-167. [https://doi.org/10.1007/978-981-16-4287-6\\_11](https://doi.org/10.1007/978-981-16-4287-6_11)

8) Hazarika, R.A., **Kandar, D., Maji, A.K.** (2022). A Novel Deep Neural Network Based Approach for Alzheimer's Disease Classification Using Brain Magnetic Resonance Imaging (MRI). In *Innovations in Bio-Inspired Computing and Applications (IBICA-2021)*. Abraham, A., Madureira, A. M., Kaklauskas, A., Muda, A.K., Kriksciuniene, D., Ferreira, J.C. (Eds.). Springer, Cham, Chapter 36, pp. 381-390. [https://doi.org/10.1007/978-3-030-96299-9\\_37](https://doi.org/10.1007/978-3-030-96299-9_37)

9) **Nath, A.**, Nath, A. J., Pandey, R., & Das, A. K. (2021). Modeling Soil Organic Carbon: Implications for Soil Organic Matter Management in the Indian Himalayan Region. In *Soil Organic Carbon and Feeding the Future*. CRC Press. pp. 205-218. <https://doi.org/10.1201/9781003243090-9>

10) Wahlang, I., **Saha, G., & Maji, A. K.** (2021). A Comparative Analysis on Denoising Techniques in Brain MRI and Cardiac Echo. In *Lecture Notes in Networks and Systems book series (LNNS)*, vol. 170, pp. 381-391. [https://doi.org/10.1007/978-981-33-4084-8\\_36](https://doi.org/10.1007/978-981-33-4084-8_36)

11) Das, R. K., Pohrmen, F. H., **Maji, A. K., & Saha, G.** (2021). FoSDN: A Software-Defined

Edge Computation for Resource Constraint Network. In *Lecture Notes in Networks and Systems book series (LNNS)*, vol. 170, pp 463–470. [https://doi.org/10.1007/978-981-33-4084-8\\_44](https://doi.org/10.1007/978-981-33-4084-8_44)

12) Dasgupta, S., Bhattacharya, S., Khan, A., Halder, A., **Saha, G.**, & Kumar Pal, R. (2021). Disease-Relevant Gene Selection Using Mean Shift Clustering. In *Lecture Notes in Networks and Systems book series (LNNS)*, vol. 242, pp 151–163. [https://doi.org/10.1007/978-981-16-4294-4\\_10](https://doi.org/10.1007/978-981-16-4294-4_10)

13) Chowdhury, S., Kabir, K. A., Dhal, D., Pal, R. K., & **Saha, G.** (2021). Multiple Fault Identification and Diagnosis in Cross-Referencing Digital Microfluidic Biochips. In *Lecture Notes in Networks and Systems book series (LNNS)*, vol. 242, pp. 165–178. [https://doi.org/10.1007/978-981-16-4294-4\\_11](https://doi.org/10.1007/978-981-16-4294-4_11)

#### Funds Received during the current Year

##### (S) Bulk Grant to Department/Centre/Section etc. other than EMR grant

Sr. No.	Funding Agency	Amount (Rs. in Lakhs)
01	NEHU	Rs. 1.20 Lakhs as annual sanction (vide order no. FA/2-68/Budget/Allocation (Administrative)/2020-21/ dated 21 June 2021).
02	Others	(i) Rs. 7 Lakhs for EWS quota implementation. (vide order no. F.PL-20/EWS/2019/151 dated 22 July 2020) (ii) Capital Assets (Small Equipment/ Laboratories) for Academic departments for financial year 2020-2021 (vide order no. PL/No.31/Budget Allocation /2020-21/ 275 dated 23 June 2021)

##### (T) EMR Research Projects to individual faculty members:

Title of Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of Investigator (PI/Co-PI)	Multi/Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report in Lcs.
Net ecosystem production and carbon dynamics of forest ecosystems in North East India in relation to altitude and latitude gradient: Implications for carbon sink management (INR 28.31960 L)	On-going	Dr.Amitabha Nath (Co-PI)	Multi (Mizoram University, Assam University & Tripura University)  (January 2020- January2023 )	Department Of Science & Technology - DST	INR 4.30
Identification of part of speech POS tags for Khasi Language (INR 25.13720)	Completed	Arnab Kumar Maji (Mentor) Sunita Warjri (P.I.)	Single (November,2019- November, 2022)	Department of Science and Technology, KIRAN DIVISION, Govt. of India	INR 5.16

14) Kumar, B., **Bhuyan, B.** (2021). Game Theoretical Defense Mechanism Against Bandwidth Based DDoS Attacks. In *Proceedings of the International Conference on Computing and Communication Systems*. Lecture Notes in Networks and Systems, vol. 170. Springer, Singapore. [https://doi.org/10.1007/978-981-33-4084-8\\_58](https://doi.org/10.1007/978-981-33-4084-8_58)

#### (xiv) Proceedings of Seminar/Conferences.

1) **Das, S.** (2022). Sentiment Analysis and Emotion Detection from Khasi Text Data - A Survey. In *1st International Conference on Information and Communication Technology for Development (ICICTD 2022)* July 29-30, Khulna University of Engineering & Technology (KUET), Bangladesh

## Academic Collaborations

### (i). National

Sl. No.	Name of collaborator(s)	Collaborating Institution(s)	Title of project/Academic activity
1. Prof.G. Saha	Prof. Rajat Kumar Pal	Dept. of CSE, University of Calcutta	System Biology and Bioinformatics
2. Prof. Md. I. Hussain	Dr.Ferdous Ahmed Barbhuiya	Indian Institute of Information Technology, Guwahati, Assam	IEEE 802.11ah standard for IoT
3. Dr.AmitabhaNath	1. Prof. U. K. Sahoo	Dept. of Forestry, Mizoram University, Aizawl	Net ecosystem production and carbon dynamics of forest ecosystems in North East India in relation to altitude and latitude gradient: Implications for carbon sink management
	2. Dr. A. J. Nath	Dept. of Ecology and Environmental Science, Assam University, Silchar	
	3. Dr.Saurabh Deb	Dept. of Forestry & Biodiversity Tripura University, Agartala	

### (ii). International

Sl. No.	Name of collaborator(s)	Collaborating Institution(s)	Title of project/Academic activity
1. Dr. A. K. Maji	Dr. Michal Jasinski	Wroclaw University of Science and Technology, 50-370 Wroclaw, Poland	Classification of Certain Abnormalities in Echocardiography

### Honours/Awards/Recognition/Membership/Fellowship

(1). **Prof. I. Hussain** acted as a Member of Project Review and Steering Group (PRSG) for the project on “Design and deployment of IoT based hydroponics system for Agri-research in North East Region”, Ministry of Electronics and Information Technology (MeitY), Govt. of India vide OM No. 26(3)/2019-ESDA dated 13<sup>th</sup> August 2021.

### Other Activities

1) GoutamSaha, Rohit Kumar Das, Nurzaman Ahmed, **Arnab Kumar Maji**, submitted two patents which were successfully published. They are

i) AN IMPROVED SDN BASED IoT SYSTEM (Indian Patent Registration no.: 202131017791)

ii) MULTI-PURPOSE SWITCH ADAPTABLE FOR A SPECIFIC SDN BASED IoT ARCHITECTURE (Indian Patent Registration no.: 201931049931).

Prof. I. Hussain

i.acted as a reviewer of a Journal “Wireless Personal Communication”, Springer

ii.delivered a lecture and interacted with the students of Ajmal Super 40, Hojai, Assam on 6<sup>th</sup> Jan, 2022.

Dr. Arnab Kumar Maji

i.delivered an invited talk on “Overview of Deep Neural Network” at one week FDP on “Artificial Intelligence and Machine Learning” in ICFAI University, Tripura during 16/09/2021

ii.acted as a reviewer of the journal entitled Innovations in Systems and Software Engineering, Springer, Sadhana-Academy Proceedings in Engineering Sciences, Springer, Concurrency and Computation Practice and Experience, A Willey Journal.

# SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022

Details of Faculties	Name		1	Name1	Name2	Name3
				Dr. G. Saha	Dr. I. Hussian	Dr. D. Kandar
	Date of Joining		2	01/07/2013	28/03/2007	07/06/2013
	Field of specialisation		3	System Biology, Internet of Things, Bioinformatics, Bioprocess controller Development	Wireless Networks, Internet of Things (IoT), Network Intelligence	Wireless Mobile Communication, Soft Computing, Artificial Intelligence, RADAR
(A) Teaching Experience (in Years)	UG		4	34	21	15
	PG, including PhD		5	30	11	09
(B) Research activities	Basic Research		6	0	0	Wireless Communication
	Applied Research		7	7	4	Application of Machine Learning in Image Processing
	Action Research		8	0	0	0
	Project Submitted		9	0	4	0
	Ongoing Project		10	0	0	0
	Research Paper in UGC care list journals	Group I	11	3	0	0
		Group II	12	0	4	10
	Books /Books chapters Published	Books	13	1	0	0
		Book Chapters	14	4	2	1
	Popular Articles (News Paper/ Magazines)		15	0	0	0
	Seminar / Conference/ Symposia organized	National	16	0	0	0
		International	17	0	1	0
	Seminar / Conference/ Symposia attended	National	18	0	0	0
		International	19	0	0	0
	Conference Proceedings		20	0	1	0
	Consultancy		21	0	0	0
(C) Patent	Applied		22	0	0	0
	Published		23	2	0	0
	Granted		24	0	0	
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	0	0	0
(E) Any Other	Teaching /Extension /outreach activities		26	1	0	0
	Responsibilities other than teaching		27	2	0	0
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	0	1	0
	Collaborations	National	29	1	0	1
		International	30	0	0	1

Details of Faculties	Name		1	Name4	Name5	Mrs.SangitaNeog
				Dr. B. Bhuyan	Dr. A. K. Maji	04/01/2007
	Date of Joining		2	01/07/2009	28/07/2006	Security, AI
	Field of specialisation		3	Cryptography , Information Security	Machine Learning, Natural Language Processing, Algorithm, Medical Image Processing, Computer Vision	From 2000 onwards
(A) Teaching Experience (in Years)	UG		4	21	18	From 2015 onwards
	PG, including PhD		5	21	10	0
(B) Research activities	Basic Research		6	0	Algorithm of NP Complete Puzzles	Applied research
	Applied Research		7	1	Application of Machine Learning in Image Processing and Natural Language Processing	0
	Action Research		8	0	0	0
	Project Submitted		9	0	01	0
	Ongoing Project		10	0	0	0
	Research Paper in UGC care list journals	Group I	11	1	0	0
		Group II	12	0	11	0
	Books /Books chapters Published	Books	13	0	1	0
		Book Chapters	14	0	6	0
	Popular Articles (News Paper/ Magazines)		15	0	0	0
	Seminar / Conference/ Symposia organized	National	16	0	0	0
		International	17	0	1	0
	Seminar / Conference/ Symposia attended	National	18	0	1	0
		International	19	0	0	0
	Conference Proceedings		20	1	0	0
	Consultancy		21	0	0	0
(C) Patent	Applied		22	0	0	0
	Published		23	0	2	0
	Granted		24	0	0	0
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	0	0	0
(E) Any Other	Teaching /Extension /outreach activities		26	Yes	0	Departmental activities, exam related activities etc.
	Responsibilities other than teaching		27	Yes	0	0
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	0	1	0
	Collaborations	National	29	0	1	0
		International	30	0	1	

Details of Faculties	Name		1	Dr. Sufal Das	Dr. Khwairakpam Amitab	Dr. Amitabha Nath
	Date of Joining		2	05/02/2010	18/06/2012	4th July, 2012
	Field of specialisation		3	Data Mining	Image processing, machine learning	Information Technology
(A) Teaching Experience (in Years)	UG		4	13	11	11
	PG, including PhD		5	7	8	5
(B) Research activities	Basic Research		6	0	NIL	
	Applied Research		7	0	3	
	Action Research		8	0	NIL	
	Project Submitted		9	0	1	
	Ongoing Project		10	0	NIL	1
	Research Paper in UGC care list journals	Group I	11	0	1	3
		Group II	12	0	NIL	
	Books /Books chapters Published	Books	13	0	NIL	
		Book Chapters	14	0	NIL	1
	Popular Articles (News Paper/ Magazines)		15	0	NIL	
	Seminar / Conference/ Symposia organized	National	16	0	NIL	
		International	17	0	NIL	
	Seminar / Conference/ Symposia attended	National	18	0	NIL	
		International	19	0	NIL	
	Conference Proceedings		20	1	NIL	
	Consultancy		21	0	NIL	
(C) Patent	Applied		22	0	NIL	
	Published		23	0	NIL	
	Granted		24	0	NIL	
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	0	NIL	
(E) Any Other	Teaching /Extension /outreach activities		26	0	NIL	
	Responsibilities other than teaching		27	0	5	2
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	0	NIL	0
	Collaborations	National	29	0	1	3
		International	30	0	1	0



## DEPARTMENT OF NANOTECHNOLOGY

Head : Dr. L. Robindro Singh  
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 E-mail : [hodnano@nehu.ac.in](mailto:hodnano@nehu.ac.in)  
 Faculty Profile : 2

Designation	Name and Qualification	Specialization
Associate Professor	Dr. L. Robindro Singh, M.Sc. & Ph.D (Manipur University)	Nanophotonics, CNT, grapheme, sensor, LED, nanophosphor, TL dosimeter.
Assistant Professor	Dr. Davidson Pyngrope, M.Tech. (Sikkim Manipal), Ph.D. (NEHU)	Nanoelectronics, nanoparticles.

### Thrust Areas of Research

Nanomaterials for functional materials, nanotechnology for biological sensor, LED, nanomaterials for antimicrobial activities, supercapacitor, CNT for photonic applications, nanophosphor.

### Brief Statement of Academic Activities and achievements:

The Department took part in several international and national workshop/seminars/training programme undertook research projects and aimed in creating much needed for promoting nanotechnology applications. The Department contributed towards the configuring and applications nano-science in antimicrobial activities, wound healing, development of LEDs, rf capacitor, nanophosphors, sensors, etc. The Department received grants to support the research and other activities of the Department from different funding agencies, both national and international.

### Students' Profile

**Enrolment Capacity: M.Tech.:18; Ph.D. : Variable**

### Enrolment of students from different States of India and Abroad

Degree	STATE(Name)	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F
M.Tech.	Meghalaya			2	1									2	1
	Assam	1	2		1		1							1	4
	International	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	3		4		1		0		0		0		8	

### Degrees Awarded

**Degree: M.Tech. (2019 Batch)**

### Degree Awarded to students from different States of India and Abroad

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya			3	2									3	2
Assam		1			1								1	1
Arunachal Pradesh	1												1	0
Tripura		1											0	1
Total	3		5		1		0		0		0		9	

### Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Mr. Davidson Pyngrope	"Preparation and characterization of Lanthanide doped Y <sup>3+</sup> and Gd <sup>3+</sup> oxide Nanoparticles sensitized with Li and Bi for Luminescence enhancement "	Dr. L.R. Singh (Supervisor)
Mr. Amresh Ishwar Prasad	"Preparation, Characterization and Luminescence studies of Mesoporous	Dr. L.R. Singh (Supervisor)

	oxide loaded with $\text{A}_2\text{O}_3\text{:Ln}^{3+}$ (A=Y, La, Gd) Nanoparticles.”	
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### Students selected for Higher Studies:

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
Mr. Jenish Samuel	Ph.D.	IIT Gandhinagar	India
Md. Ashraf Ali	Ph.D.	Tezpur University	India
Md. Imran Huissain	Ph.D.	IIT Guwahati	India
Md. Arif Shergujri	Ph.D.	IIT Jammu	India
Mr Abijit Nath	Ph.D.	Univesity of Turin	Italy

### *Attended*

**Courses Conducted: (Both M.Tech. and Ph.D. programmes is similar to 2020-21 A.R.)**

#### **Postgraduate (M.Tech.)**

##### *Semester I*

Introduction Nanomaterials and Nanotechnology

Numerical Methods for Engineers

Quantum Mechanics for Nanostructured systems

Electives in Advance Nanostructured Materials, Lithography and Nanofabrication and Nanophotonics

Laboratory- Nanomaterials synthesis and characterization.

##### *Semester II:*

Micro and Nanoelectronics

Polymer and Nanocomposites

Environmental Nanotechnology and Nanobiotechnology

Carbon Nanostructures and Applications

Nanotechnology for Energy Devices

MEMS and NEMS

##### *Semester III:*

Project Phase I

##### *Semester-IV:*

Project Phase II

#### **Ph.D. Courses**

Research Methodology, Mathematical Methods and Simulation, Optical Properties of Nanostructured systems, Nano-medicine and drug delivery, Nanotechnology for Solar Photovoltaic

**Seminars/Conferences/Workshops/Symposia/Extension Programmes (National/International):**

#### **Organized**

Refresher course in Material Science and Nanotechnology from 24<sup>th</sup> Sept, 2021 to 8<sup>th</sup> October, 2021 under HRDC, NEHU, Shillong and course co-ordinator **Dr. L.Robindro Singh.**

1. Dr. L. Robindro Singh gave two invited lectures Titled: “**Mesoporous nanomaterials for imaging and drug delivery**” and “**Phosphor converted WLEDs as a new material**” in Recent Advances in Condensed Matter and Materials Science organized by Department of Physics and Chemistry Cooch Behar from 12<sup>th</sup> to 14<sup>th</sup> August, 2021.

### **Publications**

#### ***Published Abroad:***

1. Nath A., Rahul.R., Singh L.R., Sarkar M.B.,(2021) Enhanced Photodetection in Glancing Angle Deposited One-Dimensional  $\text{In}_2\text{O}_3$  Nanorod Array, *J. Nanoscience and Nanotechnology*,21: 1–8.

2. Nath A., Mahajan B. K., Singh L. R., Vishwas S., Nanda R. K., Sarkar M.B., (2021) Enhancing Detectivity of Indium-Oxide-Based Photodetectors via Vertical Nanostructuring Through Glancing Angle Deposition *Journal of Electronic Materials*, 50 pp 3722-3730.

3. Singh M.N., Singh L. R., Barua A.G., (2021) Effects of doping concentration on thermoluminescence parameters  $\text{CaAl}_2\text{O}_4\text{:Re}^{3+}$  ( $\text{Re}^{3+}=\text{Dy}^{3+}, \text{Sm}^{3+}, \text{T}^{3+}$ ) Prepared by combustion method, *Radiation Physics and Chemistry*, 188:109631-109643.

4. Nath A., Mahajan B. K., Mondal A., Singh L. R., Sarkar M. B., (2021) Synthesis and detailed characterizations of Ag nanoparticles coated  $\text{In}_2\text{O}_3$  nanostructured devices: An analytical and experimental approach, *Journal of Vacuum Science Technology*, B39: 052209-052222.

5. Samuel J., Shah A., Kumar D., Singh L. R., Mahato M., (2021) Preparation, characterization and some electrochemical study of waste derived iron Oxide-Carbon nanocomposite, *Material Today: Proceedings*,47,:1048-1053.

6. Nath A., Shah A., Singh L. R., Mahato M., (2021) Waste plastic- derived NiO-MWCNT composite as visible light photocatalyst for degradation of methylene blue dye, *Nanotechnology for Environmental Engineering*, 6: 70-85.

7. Gajurel S., Dam B., Bhushan M., Singh L. R., Pal A. K., (2021) CuO—NiO bimetallic nanoparticles supported on graphitic carbon nitride with enhanced catalytic performance for the synthesis of 1,2,3-triazoles, bis-1,2,3-triazoles, and tetrazoles in parts per million level, *Application Organometallic Chemistry*, 36 :1-16.

8. Nath A., Singh L. R., Sarkar M. B., (2022) Enhanced surface wettability of Ag:TiO<sub>2</sub> heterostructured assembly using double step glancing angle deposition technique, *Ceramic International*, 48:11392-11400.

**(U) EMR Research Projects to individual faculty members:**

<b>Title of Project (Total outlay in Lakhs)</b>	<b>Current Status (New /on-going/ completed)</b>	<b>Name of Investigator (PI/Co-PI)</b>	<b>Multi/Singl e Institute (Tenure)</b>	<b>Funding Agency</b>	<b>Fund received by NEHU in the year under report (in Lakh)</b>
Preparation of Procesable oxide Nanoparticles Doped with Lanthanide Ions and their Luminescence study(10.08)	ongoing	L.Robindro Singh	CSR, Indore  (Dec,2018-Dec.2022)	UGC-DAE, GoI, New Delhi	1.93
“Plant Encapsulated Nanosystem: An alternative to Antimicrobial growth promoter in Poultry health in North-Eastern India” (76.63)	Completed	L.Robindro Singh	ICAR, Barapani Shillong  (Nov. 2018 - Jan.2022)	DBT, GoI, New Delhi	0.00
Development of single phase phosphor to produce white light emission for applications in phosphor converted white LED (49.36)	Ongoing	L.Robindro Singh	CSR, Indore  3yrs duration  Starting 10th March, 2022	DST-SERB CRG, New Delhi	19.36

**Academic Collaborations**

**(i). National**

Dr. L. Robindro Singh

1. Dr. R. S. Ningthoujam, Chemistry Division, Nanoscience Section, BARC, Mumbai.

“Preparation and analysis of luminescence properties of nanomaterials”

2. Prof. S.D. Singh, Department of Physics, Manipur University, Canchipur, Imphal.

“Analysis of the thermoluminescence characteristics of sulphate based nanomaterials”

3. Dr.Munish Kumar, RPCD, AERB, BARC, Mumbai.

“Analysis and designing and prediction of linear dosimetric samples, under BRNS project”

4. Dr.Mohondas Singh, Department of Chemistry, Mizoram University.

“Preparation and analysis of ZnO nanomaterials doped with different dopants”

5. Dr.Tungenba Singh, Department of Botany, Mizoram University.

6. “Preparation and analysis nanomaterials study on cytotoxic, wound healing and the antimicrobial activities”

7. Dr.N.Suraj Singh, Department of Physics, PUC,MZU.

“Study and quantitative analysis of thin film solar cell nanomaterials”

**(ii). International**

1. Dr. Mona Saif, Faculty of Science, University of Cairo, Egypt for Indo-Egypt Project “Preparation of processable oxide nanoparticles doped with lanthanide ions and their luminescence study”.

**SUMMARY SHEET FOR THE ACADEMIC YEAR 1<sup>ST</sup> APRIL 2021 TO 31<sup>ST</sup> MARCH 2022**

Details of Faculties	Name		1	Dr. L. Robindro Singh	Dr. Davidson Pyngrope
	Date of Joining		2	06/07/2012	09/07/2012
	Field of specialisation		3	Nanophotonics, CNT, grapheme, sensor, LED, nanophosphor, TL dosimeter.	Nanoelectronics, nanoparticles
(A) Teaching Experience (in Years)	UG		4	5	0
	PG, including PhD		5	10	10
(B) Research activities	Basic Research		6	2	1
	Applied Research		7	1	0
	Action Research		8	0	0
	Project Submitted		9	2	1
	Ongoing Project		10	3	0
	Research Paper in UGC care list journals	Group I	11	8	0
		Group II	12		
	Seminar / Conference/ Symposia attended	National	13	0	1
		International	14	1	0
	Responsibilities other than teaching		15	Head of Department	PRO
	Collaborations	National	16	7	1
		International	17	2	0

## IX

### ADMINISTRATIVE DEPARTMENTS COLLEGE DEVELOPMENT COUNCIL

**Director :** Prof. H. Lamin  
**Telephone :** 0364-2721201/1202/1203 (O)  
**E-mail :** dircdc@nehu.ac.in, cdcnehu@gmail.com

The College Development Council is an intermediary between the University and the affiliated colleges under its jurisdiction. It is the principal Advisory Body to the Executive Council and the Academic Council of the University in all matters relating to affiliation. It is constituted every two years and has representatives comprising university officials, faculty members, principals and teachers of affiliated colleges, and a representative of the Government of Meghalaya. It plans for the integrated development of the affiliated colleges by extending help, guidance, and advice. Serving as an academic guide to the college system, it ensures the availability and use of facilities in the University departments to the teachers of affiliated colleges. It provides a forum for taking necessary steps on various aspects of education with a view to promoting coordination and improving the general educational standards in the affiliated colleges of the University.

In accordance with the Section 2(f) and 12(B) of the UGC Act, 1956, the Council is also a liaison between UGC/MHRD and affiliated colleges in carrying out all procedural formalities regarding proposals for obtaining funds under the different schemes for the overall development of the Colleges. The University has 79 (seventy-nine) affiliated colleges, of which 33 are permanently affiliated and 46 are provisionally affiliated.

#### **Some of the official transactions of the College Development Council are as follows:**

Processing of applications of affiliated colleges for grant of affiliation.

Constitution of Inspection Teams for inspecting the colleges.

Convening of Affiliation Committee.

Placing of recommendations of Affiliation Committee as agenda to Academic Council/ Executive Council for consideration and approval.

Appointing Subject Experts/Vice Chancellor's Nominees as members of Selection/Screening Committees for appointing/ placement of Assistant Professors in affiliated Colleges as per University / UGC norms.

Nominating NEHU representatives from among the Academicians, to represent the University on the Governing Bodies/ Advisory Committees of the affiliated colleges.

Circulation of information/ guidelines/ regulations of NEHU, UGC, MHRD and other agencies to affiliated colleges.

Forwarding of proposals submitted by the colleges to the UGC for funding purposes under its various schemes.

Legal matters of affiliated colleges.

General/Miscellaneous correspondences with Affiliated Colleges/State Government/University Academicians/University.

Administration/UGC, New Delhi, and Guwahati/MHRD, New Delhi.

#### **List of Colleges Visited by Various Inspection Teams during 2021-22 for Renewal of Provisional Affiliation of UG and PG Courses**

1. Khadsawphra College, Mairang, West Khasi Hills;
2. Nabon Women's Synod College, Shillong East Khasi Hills;
3. Mairang Presbyterian Science College, Eastern West Khasi Hills;
4. Ampati Degree College, Ampati, West Garo Hills;
5. Jaintia Eastern College, Khliehriat, East Jaintia Hills;
6. St. Anthony's College, Shillong, East Khasi Hills;
7. Synod College, Shillong, East Khasi Hills;
8. St. Francis 'D' Assisi College, Nongstoin, West Khasi Hills;
9. Union Christian College (UCC), Umiam Khwan, Ri-Bhoi District;
10. Nongrum College, Zekabari, West Garo Hills;
11. Nongstoin College, Nongstoin, West Khasi Hills;
12. Phukan M. College, Dalu, West Garo Hills;
13. Shillong College, Shillong, East Khasi Hills;
14. Raid Laban College, Shillong, East Khasi Hills;
15. Loyola College, Williamnagar, East Garo Hills;

16. Don Bosco College, Tura, West Garo Hills;
17. Durama College, Megonggre, Rongkhon, P.O. Chandmari, Tura, West Garo Hills;
18. Kiang Nangbah Government College, Jowai, West Jaintia Hills;
19. Lady Keane College, Shillong, East Khasi Hills;
20. NERIE (NCERT), Umiam, Ri-Bhoi District;
21. Bormanik College, 3<sup>rd</sup> Mile, Upper Shillong, East Khasi Hills;
22. Umshyrpi College, Shillong, East Khasi Hills;
23. College of Nursing NEIGRIHMS, Mawdiangdiang, Shillong, East Khasi Hills;
24. St. Anthony's College Extension Byndihati Campus, Byndihati, East Jaintia Hills;
25. Shillong Law College, Shillong, East Khasi Hills;
26. North Eastern Institute of Ayurveda & Homeopathy (NEIAH), Mawdiangdiang, Shillong, East Khasi Hills;
27. Nongtalang College, Nongtalang, West Jaintia Hills;
28. Thomas Jones Synod College, Jowai, West Jaintia Hills;
29. NEIGRIHMS MBBS, Mawdiangdiang, Shillong, East Khasi Hills

**List of Colleges Visited by Various Inspection Teams during 2021-22 for Permanent Affiliation of UG and PG Courses**

1. Don Bosco College of Teacher Education, Tura, West Garo Hills;
2. Sankardev College, Shillong, East Khasi Hills.
3. Mawsynram Border Area College, Mawsynram, East Khasi Hills;
4. St. Edmund's College, Shillong, East Khasi Hills

**List of Colleges Visited by Various Inspection Teams during 2021-22 for permission to start New college**

1. Christ College, Umeit, Nongsdier, Ri-Bhoi District;
2. St. Joseph's Academy of Nursing, Umtrew, Ri-Bhoi District;
3. Shillong Government College of Engineering, Mawlai Kynton Massar, Shillong, East Khasi Hills;
4. Ummulong Presbyterian College, Ummulong, West Jaintia Hills.

**List of Colleges Visited by Various Inspection Teams during 2020-21 for Provisional Affiliation of UG and PG Courses**

1. Mawsynram Border Area College, Mawsynram, East Khasi Hills;
2. Sankardev College, Shillong, East Khasi Hills;
3. Sohra Government College, Saitsohpen, Sohra, East Khasi Hills;
4. Shillong College, Shillong, East Khasi Hills;
5. Jaintia Eastern College, Khliehriat, East Jaintia Hills.

**List of Colleges Visited by Various Inspection Teams during 2021-22 for Provisional Affiliation to subject(s)/course(s) of study in a new College/Institution**

1. College of Nursing Dr. H. Gordon Robert Hospital, Shillong, East Khasi Hills;
2. St. Xavier's College, Umoid, Mawkyrwat, South West Khasi Hills;
3. Alpha College of Arts and Commerce, Nongpoh, Ri-Bhoi District;
4. Smit College, Smit, Nongmadan, Khyrim Syiemship, East Khasi Hills.

**List of Colleges Visited by Various Inspection Teams during 2021-22 for permission to start PG Department in an existing College/Institution**

1. NEIGRIHMS MBBS College, Mawdiangdiang, Shillong, East Khasi Hills;
2. Kiang Nangbah Government College, Jowai, West Jaintia Hills

## EXAMINATION DEPARTMENT

**Officer on Special Duty: Debasish Chowdhury**

**Telephone: 0364 2721211 / 1212**

**Email: [offcoe@nehu.ac.in](mailto:offcoe@nehu.ac.in)**

The Examination Department serves as one of the key nerve centres in any university setup. The routine activities of the Examination Department in any university include all exercises relating to conduct of various examinations, processing and timely declaration of results, processing of submitted research works for needful adjudication, arranging viva-voce, arranging travel and stay for the examiners and such other works that go on round the year without break. The Examination Department of North-Eastern Hill University, being no exception, also performs all such earmarked duties and more while trying hard to ensure that it delivers its mandated services as best as it can.

Accordingly, during the period under report (April 01, 2021 to March 31, 2022), the Examination Department of the North-Eastern Hill University had performed the following activities:

❖ Two end semester examinations (one even Semester examination during July 2021 and one odd semester examination during February 2022) have duly been conducted both at the academic departments of the university and at its affiliated colleges.

❖ It makes us happy to report that during the year, the department was successful in bringing out almost all the Post graduate final semester examination results within a period of about ten days counting from the day when the last of such an examinations was held in a PG department and, going by the past records this indeed was a never before performance on the part of the department.

❖ It also makes us happy that the Examination Department has, by and large, been successful in publishing all its Under Graduate end semester examination results within the stipulated time frame, in turn, facilitating aspiring students to join in Post Graduate Programmes of their choice for pursuing higher studies at this university itself or elsewhere in the country/abroad.

❖ Due to the then persistent pandemic scenario, the end semester examinations on both odd and even semesters have been held in blended mode having both online and offline features.

❖ In pursuance of the Government of India's "Digital India" initiative, the Department strived hard to further improvise its automation activities

in respect of examination related formalities. Accordingly, the online filing of Examination Application forms, Registration forms, downloading of hall tickets at the college/department end already introduced in the previous year have further been streamlined to facilitate hassle free services to the stake holders.

❖ Plans are also afoot to introduce in near future features such as digitally certified and downloadable marks sheets and other documents such as migration certificates, provisional certificates and transcripts as per requirement of the students at their end to save waiting time (Normally one to two weeks) by ensuring instant delivery of the requested documents post digital verification to save the time as also expenses incurred on travelling.

❖ Services of the University Management System (UMS) which is the University's exclusive ERP system automation solution was effectively deployed to ensure that processing of results of all university departments are handled smoothly and uploading of IA marks/ end semester examination marks of concerned students by the respective faculty in charge are carried out in an error free and speedy manner thereby facilitating timely declaration of results. By incorporating in the examination module of the software features such as the above, the processing and computation time of the end semester results have successfully been minimised to further bring down the timeline for publication of end semester Post Graduate results of the various academic departments of the University.

❖ The examination department is closely working along with the Computer Centre to ensure that the students of the University at all levels can avail the benefit of using the Digi-Locker facility introduced by the Union Government that would enable them to download/share their academic credentials online whenever they need to do so.

❖ Examinations of various academic programmes that lead to professional degree in relevant field and are offered at the University campus itself and at its affiliated institutes have duly been conducted and their results brought out in time. Examinations of various Engineering, Medical and Medico related professional programmes offered at institutes such as the Regional Institute of Science

& Technology (RIST); the North Eastern Institute of Ayurveda & Homeopathy (NEIAH); the North East Indira Gandhi Institute of Medical and Health Sciences (NEIGRIMHS); the Woodland Nursing Institute and the various Engineering programmes run at the campus under the School of Technology were duly conducted and their results published expeditiously.

- ❖ The Payment-Receipt activities of the department have now been fully integrated in the Public Finance Management System (PFMS) and, accordingly, cashless transactions towards payment of TA bills/examination remuneration bills to the concerned teachers are now being accepted as the standard practice. Clearing of the various purchase/printing bills etc., too are now strictly done in online mode through PFMS.

- ❖ Examination Fee payable by the students is also being collected online via SBI Collect. Affiliated colleges are also using the SBI Collect portal for payment of their dues to the University.

- ❖ As part of research activities and in adherence to the UGC guidelines in such matter, the University departments, in coordination with the Examination Department routinely conduct course work examinations for scholars enrolled in the Ph. D programmes at various academic departments. We feel happy to report that the results of these Course Work examinations too have duly been brought out within the time frame stipulated for such activities.

- ❖ Scores of requests are received at the department on a regular basis from external agencies for verification and authentication of certificates/documents issued by the University. Such authentications being the norm now in matters relating to higher education/ employment of concerned candidates, the Department has taken all feasible measures to ensure that such requests are responded to and disposed of as expeditiously as feasible. Scores of requests are also received from students requesting for Academic Transcripts which have also been attended with round the year giving due priority.

- ❖ Queries of various hues under the provisions of the RTI Act from individuals or various government or non-government agencies as the case may have been received and responded with as promptly as feasible.

- ❖ Preparing various data sheets such as aggregate batch-wise passing status in various examinations, status of gender-wise, caste-wise representation of different groups of students etc., are part of the regular workload of the Examination Department that keeps it busy throughout the year. Such

records in respect of the University are routinely asked for by authorities such as the UGC, the Ministry of Education, Government of India and other such government or statutory bodies. Efforts have been made by the Department to keep the records ready and updated for their onward submission to the concerned authorities as and when the same is being asked for.

- ❖ Preparation, sorting and sending of examination related materials to concerned parties keeps the examination department engaged round the year. It grants us some satisfaction that, by and large, the department was able to stick to the relevant schedules for each such job.

- ❖ Proactive measures were taken by the Examination Department to streamline the academic calendar that got somewhat disarranged due to pandemic while maintaining an alert eye on the unfolding Covid-19 situations. Plans were drawn up in strict adherence to Standard Operating Procedure's (SOP's) issued by the Government from time to time to ensure a return to the regular academic schedule of the University at the earliest feasible.

- ❖ An open door policy, to the extent feasible, have been pursued by the department keeping in view the then unfolding Covid-19 scenario for all its stakeholders to enable sorting out of various issues that arose from time to time. In its bid to achieve the desired objective with least trouble to the concerned stakeholder, several meetings have been organized with various stakeholders that included the students, the teachers and the Principals of various colleges and institutes to discuss and decide on issues of relevance.

- ❖ A comprehensive status report duly updated and detailing the work structure, strengths, weaknesses, opportunities and threats faced by the Examination Department was drawn up and presented to the Vice-Chancellor for his kind appraisal and needful guidance on issues of relevance raised therein.

Like every other year, the year under review too was a very busy one for the Examination Department. The business of the different was felt more acutely in view of the fact that at the beginning the SOP in force restricted participation of the regular workforce in full. It, however, makes all of us in the Department somewhat happy that, the odds notwithstanding, most of the calls it is supposed to take have been attended to in a reasonable manner. There is no denying that there remains ample scope for further



improvement and streamlining of both intra and inter connected activities routinely undertaken at the department. It is being sincerely hoped that in the coming years, the department would, with due

support, cooperation and needful guidance from all who matter in its functioning, be able to scale newer heights and be able to set examples for others to emulate.

## FINANCE DEPARTMENT

**Finance Officer**

: Shri. L.M. K. Lyngrah

**Telephone**

: 0364 2721021(O)

**E-mail**

: fo@nehu.ac.in

CONSOLIDATED RECEIPTS AND PAYMENTS ACCOUNT FOR THE PERIOD ENDED 31-03-2022					
					Amount in Rupees
RECEIPTS	CURRENT YEAR 2021-22	PREVIOUS YEAR 2020-21	PAYMENTS	CURRENT YEAR 2021-22	PREVIOUS YEAR 2020-21
I. Opening Balances			I. Expenses		
a) Cash balances	53208	35780	a) Establishment Expenses	762856726	1808829721
b) Bank balances			b) Academic Expenses	105855143	84436690
i) In current accounts	96233330	19069629	c) Administrative Expenses	38389317	75658823
ii) In Deposit accounts (deduct bank balance closed/transferred herein as Receipts & Income)			d) Transportation Expenses	8349783	11452263
iii) Savings accounts	2028448985	1314843534	e) Repairs and Maintenance Expenses	28161294	76772850
			f) Prior period expenses	8237055	6495558
			g) Salary Payable	812878811	
			h) Other Expenses (Code 1000)	106564	
II. Grants Received			II. Payments against Earmarked/Endowment Funds	15171236	14624914
a) From Govt. of India	2028207961	3152847483			
b) From State Government					
c) From other sources					
III. (a) Academic Receipts	266918728	95792797	III. Payments against Sponsored Project/Schemes	64456456	72030980
(b) Establishment Receipts	3745460				
(c) Administrative Receipts	9303				
(d) Transportation Receipts	8000				
(e) Repair and	21000				

Maintenance Receipts					
IV. Receipts against Earmarked, Endowment Funds	42449146	36502589	IV. Payments against Sponsored Fellowships/ Scholarships	9438485	7072786
V. Receipt against Sponsored Projects/Schemes	87427603	60280760	V. Investments made		
			a) Out of Earmarked/Endowment funds	0	174730000
			b) Out of Own Funds		293560000
			c) Out of Corpus Fund	0	30000000
VI. Receipts against sponsored Fellowships and Scholarships	7861212	4563536	VI. Term Deposits with Scheduled Banks		
VII. Income on Investments from			VII. Expenditure on Fixed Assets and Capital Work in Progress		
a)Earmarked/Endowment funds		23391947	a) Fixed Assets		90792830
b)Main account investments		72602	b)Capital Works in Progress		49761393
			c)Statutory remittances and release of security and caution deposits		354896527
VIII. Interest received on			VIII. Other Payments including Statutory Payments	47981981	18294837
a)Bank deposits	429370				
b)Loans & Advances					
c)Savings Bank accounts	19543103	20303474			
d)Corpus, Earmarked & Endowment Funds Account		5985236			
					Amount in Rupees
RECEIPTS	CURRENT YEAR 2021-22	PREVIOUS YEAR 2020-21	PAYMENTS	CURRENT YEAR 2021-22	PREVIOUS YEAR 2020-21
IX. Investment encashed		442353709	IX. Refund of grants	1759934	1060186

X. Term Deposits with Scheduled Banks encashed			X. Deposits & Advances/Interest bearing advances	333234245	38899198
XI. Other income(including Prior Period Income)	3548362	18385346	XI. Other Payments (Interest on Savings Account Refunded to UGC and Design Innovation Centre)		238596
			a) Payment to Creditos	36281330	
			b) Other current liabilities	387857157	
			b) Interest(code-900)	16436	
XII. Deposits and Advances/Interest bearing advances	53678854	11218141	XII. Adjustments in Capital Account of Tura Campus		146279
XIII. Statutory dues including Security, Caution, Earnest Deposits etc	20004774	71938471	XIII. Adjustments in Corpus Account	33	
XIV. Any other Receipts/Loan recovery	48689113		XIV. Receipts yet to be Identified	266000	
			XV. Cheques to be Reissued	1108275	
XV. Miscellaneous in Corpus Account (Including Institutional Charges & Affiliation Fees)	37634	2937014	XVI. Closing balances		
			a)Cash in Hand	18385	53208
			b)Bank balances		
			i) In Current Accounts	1939767410	96233330
			ii) In Savings Accounts	112800000	2028448985
XVI. Receipts yet to be Identified	1553058	8779505			
XVII. Cheques to be Reissued	1783836	421439			
XII. Adjustments in Capital Account of Tura Campus		44766960			

XIX. Income Tax Refund						
XX. Extra Remittance by Tura Campus						
XXI. Remittance to Corpus Fund	4340015					
Total	4714992054	5334489952		Total	4714992054	5334489952

## PLANNING CELL

**Assistant Registrar (In-Charge): Dr. Devendra K. Biswal**

**Telephone: 0364-2721060**

**E-mail: [devendra@nehu.ac.in](mailto:devendra@nehu.ac.in)**

The North-Eastern Hill University, NEHU, established the Planning Department in 1978 with the objective of designing and implementing the vision plan for expansion and development of the University in different fields. It was later renamed as Planning Cell when the XII five year plan was discontinued. Accordingly, its functions and operations have changed to annual planning.

Though it has been changed to annual planning, it is the cell that deals with the plan proposals for the different Schools, Departments, Centers etc, and finalize the same on recommendations made by the Planning Committee of the University.

### **Report for the Year 2021-2022:**

(i) The Plan Proposal during the year 2019-2020 is finalized under Economically Weaker Sections (EWSs) Scheme. Total amount proposed to UGC is Rs. 100.00 crores, out of which Rs. 7.07 crores was released as 1<sup>st</sup> installment under Salary and Recurring Head of Account (EWS Salary- Rs. 4.51 crores and EWS Recurring Rs. 2.56 crores).

(ii) Ministry of Education, Department of Higher Education, New Delhi has sanctioned Rs. 88.33 crores for infrastructure development projects of NEHU for implementation of Economically Weaker Section.

(iii) The Planning Cell also established the following ambitious offices/projects as detailed below:

- Office of International Affairs (OIA) to look after all international academic relations with partnering Governments, Institutions, and other relevant bodies. As an initial work, a university wide Indo-US collaboration under an AICTE scheme is being worked out.
- An IPR Cell with a quest to bridge the gap between academic activities and ever-dynamic requirement of the University and industry is also established.
- Dr. Ambedkar Centre of Excellence (DACE) for training SC students for UPSC Civil services exam duly endorsed and nominated by the Govt of Meghalaya is established in the University. Request for ST students to avail the facility under DACE scheme is under consideration by the Ministry for Social Justice and Empowerment, Govt. of India
- Establishment of “Centre for Creativity and Internationalization of Higher Education (CCIHE)”. This Centre houses skill-based developmental activities like Activation of Incubation and Bio-Nest Cells, Design Innovation Centre, IPR Cell, OIA, MOOCs Lecture recording Studio and Smart/Digital Classrooms, National Testing Agency fully computerised Exam centre (seating capacity 350 including one at TURA Campus (100)).
- Establishment of Research and Development Cell in the University.

# X

## BIOINFORMATICS CENTRE

**Coordinator** : **Dr. Devendra K. Biswal**  
**Co-Coordinator:** **Prof. S. R. Joshi**  
**Telephone** : **+91 0364 272 1241 / 1242**  
**Website** : **<http://bicnehu.ac.in>**  
**E-mail** : **[bicnehu@gmail.com](mailto:bicnehu@gmail.com), [devendra@nehu.ac.in](mailto:devendra@nehu.ac.in)**

### Thrust Areas

Biodiversity Informatics (Parasitology, Biosystematics & Orchid Biology), Evolutionary Genomics & Bioinformatics.

### Brief Statement of Academic Activities and Achievements

The Bioinformatics Centre (BIC) at NEHU got recently renewed with an extension for 5 years as per new directives from DBT, Govt of India. Earlier it was set up and funded by Department of Biotechnology (DBT), Ministry of Science & Technology under the Biotechnology Information System Network (BTIS) programme in the year 1999 with a view to cater to the needs of the scientific community in the far-flung north-eastern region of the country. This is the only existing DBT-BTISNet Centre focusing on Biodiversity Informatics in North-east India and it serves as an information base in various aspects of Biodiversity related to computational biology. Some of the important areas of research are molecular characterization and genome diversity in plants and helminth parasites of medico veterinary importance with a focus on foodborne trematodiasis. Extensive work on evolutionary bioinformatics and phylogenomics of foodborne trematodiasis specific to the region, next generation sequencing and analysis of selected trematodes, orchids and carnivorous plants has also been established. Earlier achievements/findings/leads from these above-mentioned projects formed the basis/pillars of the model network project **“Biodiversity Informatics: North-east India Bio-Bank of Codes Network (NIBBCoNet): Bioinformatics Centre @NEHU, Shillong”** w.e.f March 02, 2021.

### Salient features

- The Centre offers DBT e-Library Consortium (DeLCON) facility comprising of a total of 917 selective Journals and a Database (SCOPUS) for the University as one of the 18 nodal Centres in the North-Eastern Region.
- **Information node of BTISNet:** The Centre is part of the National Bioinformation Network and functions as an information base in various areas of Biosciences and Biodiversity for the entire north-east ever since its inception.
- **Training & Skill Development:** Students pursuing post-graduation in any branch of biosciences are trained in Bioinformatics for a period of 3-6 months towards their dissertation work as a partial fulfillment of their M.Sc. degree.
- **Research & Database development:** Molecular characterization, functional and comparative genomics, proteomics, metabolomics, and evolutionary bioinformatics of pathogenic worm infections and Orchid Biodiversity of NER.
- **Bioinformatics Training Programmes:** have always been integral parts of the Centre's activity, for which connoisseurs in the field are always invited to act as resource persons.

### Seminars/Conferences / Workshops / Symposia / Extension Programmes

#### Attended

#### Dr. D.K. Biswal

Delivered invited lectures in (i) "Basic of Bioinformatics Tools and Techniques for M.Sc. Students" on August 13, 2021, Manipur University, Canchipur, Imphal (ii) Plenary Talk in the International Brain Research Organization (IBRO) APRC ASSOCIATE SCHOOL 2021 “Modern Interventional tools to improve cognitive behavior in children with neurodevelopmental disorders” in collaboration with Society

for Neurochemistry India (SNCI) organized by the Department of Biomedical Engineering and Department of Education, North Eastern Hill University (NEHU), Shillong, Meghalaya, India from 25th October- 30th October, 2021.

## Publications

### Research Papers

#### *Published Abroad*

Das K C, Konhar R, Biswal DK (2021) *Fasciola gigantica* vaccine construct: an in silico approach towards identification and design of a multi-epitope subunit vaccine using calcium binding EF-hand proteins. **BMC Immunology**

### Research Projects

#### *Ongoing*

Title of Project	PI/Co-PI	Funding Agency	Amount (Rs. in lakhs)
Understanding the biosystematics and biodiversity of few selected carnivorous plants in Meghalaya: A next generation genomics and proteomics approach	Devendra K. Biswal (PI) Dr. Debasis Dash, Shantanu Sengupta (Co-PI), Prof. S.R. Rao (Co-PI)	DBT, GOI	117.00
Biodiversity Informatics: North-east India Bio-Bank of Codes Network (NIBBCoNet):	Devendra K. Biswal (PI) Sr Joshi (Co-PI)	DBT, GOI	164.00

**Completed: NIL**

### Academic Collaborations

**Programme Coordinator:** Dr. Devendra Kumar Biswal

**Co-PI:** Prof. S.R. Joshi

**Collaborators:** Dr. Debasis Dash, CSIR-IGIB, New Delhi; Dr. Shantanu Sengupta, CSIR-IGIB, New Delhi; Prof. S.R. Rao, NEHU, Shillong; Prof. S. Sundar, IIT Delhi.

### Honours/Awards/Recognitions

#### **Dr. D. K. Biswal**

- Member of the DBT Expert Committee for Women Scientist Bio-CARE Scheme.
- DBT elibrary Consortium-Nodal Officer for NEHU
- Member, International Society for Computational Biology (ISCB)

### Infrastructure facilities

#### *Computer & Communication facility*

**LAN connectivity:** Servers: 3 nos., PCs: 20 nos.; Workstations: 3 nos., Printers: 3 nos., Scanner: 1 no., UPS: 5 nos.; LCD Projector: 2 nos.

**Scientific Software packages:** Accelrys Gene 2.5 (Sequence Analysis Work Bench), Matlab 7.0, Winspirsver 4.1 for Biotechnological Abstracts, Reference Manager, CLC Genomics workbench, PAUP, DNASTAR, BLAST2GO

**Databases & other information resources:** Derwent Biotechnological Abstracts (July 1987 - March 2006), Reference Update Deluxe Edition (July 2002 - June 2004), Parasitology Database (obtained through MOE&F), Application Softwares from Microsoft, RHEL, SQL, Adobe and Apple etc.

**Facility procured under DIT sanctioned NEPIAC project:** Apple Work Group 13 node Cluster (HPCC), Apple iMAC (7 nos.), 40 kVA UPS (1 no.), SPSS, iWork, iNquirysoftwares



**Facility procured through NER Twinning Next-Gen Sequencing Project:** Apple Mac Pro (1 no.), 10 kva UPS (1 no.), Apple iMAC 21" (6 nos.)

**Facility procured through DBT, GOI sanctioned IBIN-BRIC Project:** Backup Device (1 no.), Workstation (1 no.), HP Procurve Switch (1 no.), Cisco 1841 Router (1 no.), Server (2 nos.), Red Hat Enterprise Linux 6 Advance Platform (1 user), Microsoft SQL Server 2008 R2 Enterprise Edition (1 user)

### **Research Activities**

- *De novo* assembly of the transcripts and Functional genome & transcriptome analysis of the orchids and mapping of important metabolic pathways (Biosynthetic pathway of secondary metabolites of medicinal importance widely used as analgesic, anti-inflammatory and anti-cancerous).
- Biodiversity of *Nepenthes khasiana* pitcher fluids
- Ecological Genomics of Orchids (of Medicinal Importance) specific to North-East India
- Biodiversity Informatics: North-east India Bio-Bank of Codes Network (NIBBCoNet)

### **Other Activities**

#### **Dr. D. K. Biswal**

Member of the (i) Annual Report Editorial Board, (ii) Executive Committee, NEHU Incubation Centre (iii) Member Secretary, Planning Committee, NEHU (iv) Co-opted Member, MOU Committee, NEHU

## BIRAC BIONEST BIOINCUBATOR (B3I) FACILITY

**Project Investigator** : Dr. Birendra Kumar Mishra  
**Telephone** : +91 9436306259  
**E-mail** : birendramishra14@gmail.com, bioincubator.nehu.tura@gmail.com

Designation	Name
Project Investigator	Dr. Birendra Kumar Mishra, Associate Professor, Dept of Rural Development & Agricultural Production
Chief Executive Officer	Dr. Suman Kumar Nandy, Ph.D.
Technical Officer	Mr. Arpan Ghosh
Program Manager	Ms. Alva Margareth Kharkongor
Lab assistants	Ms. Barsha Saikia
	Ms. Remi Dey

### Profile of the Operational Team of BIRAC BioNEST Bioincubator Facility, NEHU, Tura Campus

#### Objectives

BIRAC BioNEST Bioincubator Facility aims to provide a cohesive one-stop hand-holding ecosystem consisting of infrastructural, mentorship and funding support for transforming innovative, tradable ideas into large-scale, profitable & sustainable businesses.

#### Focus areas

- Agriculture & allied areas
- Food Processing
- Nutrition
- Biotechnology
- Medical devices
- Drugs & Vaccines
- Industrial Biotechnology
- Bioenergy
- Waste management
- Bioinformatics
- AI/ML and IoT

#### Activities & Achievements:

##### Infrastructure Build-up

The BIRAC BioNEST Bioincubator Facility at NEHU, Tura Campus spans over 6000 sq. ft with a state-of-art infrastructure facility with ample co-working space, dedicated and centralised instrumentation facilities; plug & play incubation suits; wet labs & prototyping facility; food processing and packaging unit and computational facility.

Two laboratory facilities namely BioNEST Lab & Food Packaging & Processing Unit has been set up with the following instrumentation facility:

- Temperature Controlled Shaker Incubator
- Deep Freezer (-80°C)
- Refrigerated/Cold Centrifuge
- Microcentrifuge
- Fermentor (Bioreactor)
- Food Packaging Platform: Automatic Form Fill Seal Machine, Mechanical Cup Filler, Vertical type
- Lyophilizer/ Freeze Dryer
- Rotary Vacuum Evaporator
- Water Bath
- UV/Visible Spectrophotometer
- Deep Freezer (-20°C)
- Refrigerator 600L
- Analytical Balance
- Vortex mixer
- Microcontroller-based pH Meter
- Magnetic Stirrer with Hot Plate
- Trinocular Microscope with and without the camera
- Bacteriological Incubator
- 20 KVA (3-1) Online UPS
- 30 KVA SILENT DG SET

#### Website Launch

The website for the B3I facility had been designed, implemented and is available through [www.bioincubator.in](http://www.bioincubator.in). The B3I website has also been integrated with the NEHU portal.

### **Seminars/Conferences/Webinars/Workshops/Symposia/Extension Programmes:**

In the year 2021-2022, the B3I facility has conducted 05 webinars, 01 in-campus & 04 off-campus Hands-on skill development training cum awareness programs, and 04 outreach incubatee meets spanned over a period of seven months starting from September 2021 to March 2022. Approximately 700 participants took part in these events across 27 states and 03 union territories of India. Almost 85% of the participants were from the North-Eastern states of India with major participation from Meghalaya and Assam. The majority of the participants are from academia mostly the faculties, scientists, research scholars, and students forming 65% of the total participation. The other major group is the entrepreneurs and officials from collaborating organizations.

The events conducted are as follows:

- i. Webinar on “Writing the BIG Grant” conducted on September 08, 2021, with 60 participants from all over India.
- ii. Inauguration of BioNEST Bioincubator Facility at NEHU, Tura campus and Awareness Program on Entrepreneurship and BIRAC Funding Schemes on October 06, 2021, with 150 participants from NEHU, neighboring Academia, Government Agencies, Entrepreneurs, and Start-ups.
- iii. Webinar on “Intellectual Property Rights: Safeguarding Innovations” held on November 29, 2021, with 83 participants.
- iv. Offline Training program on “Mushroom Cultivation” in association with Krishi Vigyan Kendra (ICAR), Tura on December 08, 2021, with 27 Rural Entrepreneurs from West Garo Hill district.
- v. Two days offline training program on “Food Processing, Handicraft and Clothing” for Rural Women Entrepreneurs in association with College of Community Science, CAU, Tura on December 09-10, 2021 with 21 participants.
- vi. Three-day Outreach Offline Training program on “Mushroom Cultivation” organised in association with Mushroom Development Foundation, Guwahati, and BRTC, KIIT- TBI, Bhubaneswar at Rani Block, Assam from December 27-29, 2021 with 38 participants.
- vii. Three-day Outreach Offline Training program “Mushroom Cultivation” jointly conducted with Mushroom Development Foundation, Guwahati, BRTC, KIIT- TBI, Bhubaneswar at Patharkhmah, Jirang Block, Ri-Bhoi District of Meghalaya from December 28-30, 2021 with 33 participants.
- viii. Webinar on "Writing the BIG Grant" conducted on January 28, 2022, with 77 participants from all over India.
- ix. Virtual Capacity Building Training on “Innovation, Entrepreneurship & establishing Start-Up” during March 02-03, 2022 with 93 participants.
- x. Sensitization program on IPR, Technology Transfer, and Regulatory Compliances jointly organized with KIIT- Technology Business Incubator- Technology Transfer Office (KIIT- TBI-TTO), NEHU, Shillong and India Patent Office, Kolkata on March 11, 2022, with 106 participants.
- xi. INCUBATEE MEETS: Four incubatee meets were arranged for the local academia, scholars, entrepreneurs, and PRIME Startup hub associates in both online and offline modes,

### **Academic Collaborations:**

B3I Facility is keeping in touch and working closely with the mentor incubator KIIT- TBI, Bhubaneswar, Odisha. Apart from this, the facility is also collaborating with several other incubation centres and academic institutions including BIRAC Regional Techno-Entrepreneurship Promotion Centre (BRTC), KIIT-TBI, Odisha; KIIT Technology Enabling Centre, KIIT University, Bhubaneswar, Odisha; PRIME Start-up Hub, Govt. of Meghalaya; Don Bosco College, Tura; College of Community Science, Central Agricultural University, Tura; Krishi Vigyan Kendra (ICAR), West Garo Hills; and Mushroom Development Foundation, Guwahati, Assam, etc.

### **Prototype developed:**

The following prototypes have been developed in the B3I facility at a laboratory scale in association with the Department of RDAP using medicinal plants and potential probiotics

- a. Functional fermented Whey Beverage
- b. Functional Fermented Rice Beverage
- c. Fermented Soybean
- d. Functional Soy Curd

- e. Flavoured Soya Milk
- f. Tofu
- g. Functional Rice cake

#### **Process Patent**

Two of the potential Probiotics isolated from traditional fermented foods of Meghalaya which were used for the above-mentioned product preparation got recognition from Microbial Type Culture Collection and Gene Bank International Depository Authority (MTCC – IDA) under Budapest Treaty. The details of the isolates are as follows:

- *Lactobacillus fermentum*, MTCC Accession no. 25515, granted on 28.03.2022
- *Lactobacillus rhamnosus*, MTCC Accession no. 25516, granted on 28.03.2022

#### **Funds Received during the current Year:**

B3I received a fund of ₹. 2,59,70,000.00 from BIRAC (Biotechnology Industry Research Assistance Council), Government of India in the financial year 2021-22.

<b>CAMPUS DEVELOPMENT DEPARTMENT</b>		
<b>University Engineer(In-Charge) : Prof. R. Subadar</b> <b>Telephone (Office/Mobile) :2722061/9678007073</b> <b>Email. :rsubadar@nehu.ac.in</b>		
Detail of Works undertaken by CDD during 2021-22		
Name of Work	Allocated Amount (Rs. Lakhs)	Status
2	3	4
TURA CAMPUS		COMPLETED WORKS
From XII Plan General Development Grant		
Construction of 12 units of L-Type, 6 units of P-Type and 4 units of NTS quarters Type-II at Tura Campus by CPWD	1014.79	Work completed
SHILLONG CAMPUS		COMPLETED WORKS
From OH:31.06: Recurring 2021-22		
Works are taken up from O.H 31-06 Recurring Expenditure: Civil & Electrical Maintenance for the year 2021-22	300.00	Work completed
Total	1314.79	
From Grant-in-Aid Capital Asset O.H-35 for the year 2020-21		
Renovation work (Civil and Electrical) including installation of firefighting system of Laboratory complex of NECOD at Permanent Campus, NEHU, Shillong	31.53	Work completed
Covering of the furthest gable end of Convocation shed at P/Campus, NEHU, Shillong.	27.08	-do-
Waterproofing treatment to the underground sump near the old P-Type quarter including allied works at P/campus, NEHU, Shillong.	9.16	-do-
Addl. The amount required for extra work	1.49	
Resurfacing of the road from CDD gate to gate No-5 at P/campus, NEHU, Shillong.	21.44	-do-
Resurfacing of service road from the main junction to T/V Qtrs., COE's Qtrs. and to V. C's residence: Gr.- I: Junction near V. C'S gate to T-V and COE'S qtrs. Gr.- II: Segment around V.C's residence	16.32	-do-
Resurfacing of service road to Type-IV qtrs. from the junction near S/S-1	5.38	-do-
Resurfacing of service road from the junction near VC bungalow to P-42	10.21	-do-
Improvement and renovation work in COE's Qtrs. at P/Campus, NEHU, Shillong.	11.88	-do-
Providing WBM including resurfacing of roads at a number of locations at NEHU Campus Shillong such as behind the Administrative Building, Bus Parking a classroom room for sciences, etc.	32.66	-do-
Internal painting works in Linguistic and Khasi Deptt. , renovation of the toilet in the Linguistic, Khasi, and Education Deptt. (Block-3) at P/Campus, NEHU, Shillong.	22.00	-do-

Internal painting works and renovation of toilets in Commerce, Economics & Library Science Deptt. (Block-4) at P/Campus, NEHU, Shillong.	23.85	-do-
Resurfacing of the road beyond the SAI gate to EFLU	11.99	-do-
Consultancy services for the construction of Gate No. 1	1.26	-do-
Construction of assembly stage for KV NEHU	13.05	-do-
Construction of 3(three) garages for warden's quarter No. 18 to 20	6.67	-do-
Proposed garage for warden's quarter of Sensiar & Balgito hostel	2.71	-do-
Construction of 2(two) change rooms on the assembly stage of KV NEHU	1.18	-do-
Preliminary work of covering the gable end of the Convocation shed	0.71	-do-
Total	250.57	
SHILLONG CAMPUS		
WORK IN PROGRESS		
From XII Plan General Development Grant		
Construction of 100 seated Women's hostel including warden's residence	804.14	Work outsourced to CPWD. Physical progress is 41.5%
Construction of Academic Building for conducting M.Ed program	409.62	Work outsourced to CPWD. Physical progress is 41.5%
Total	1213.76	
Work taken up from Grant in aid Capital Assets/Campus Development for the year 2018-19 amounting to Rs 200 Lakhs.		
Construction of the Main Entrance of NEHU near Gate No-1	74.93	30% of work completed. Remaining work in progress
TOTAL AMOUNT	74.93	Lakhs

## CAREER & COUNSELING CELL

**Coordinator** : Prof Goutam Saha  
**Telephone** : (0364)272-3604 (Office), 3607 (Coordinator)  
**Fax** : (0364)272-3607  
**Email** : placement.nehu@gmail.com, placement@nehu.ac.in

The Career & Counseling Cell (CCC) which was established on 01 April 2008 is functioning from the School of Technology. Since its inception, it is being administered by a faculty Coordinator and two office staff personnel.

The placement cell which is officially known as the Career & Counselling Cell, endeavors to provide the very best opportunities to NEHU graduates in terms of counseling and guidance, campus placements, training, internship opportunities, etc. The Cell regularly publicizes detailed notifications on any matter related to counselling, training, and career/job opportunities for students if any such information from any quarter is forwarded to the Cell. The Cell also interacts with reputed industries, organizations, training centers, and other entities for meeting the demands of the students. To facilitate the objectives, enrolment of representatives from all the departments of NEHU has been formulated of which the Committee consists of faculty and student representatives, who coordinate the different activities of the Cell. Job-oriented awareness-related workshops are being organized by the Cell regularly for the students of NEHU and affiliated colleges. The Cell invites experts from the corporate organization for interactive sessions, lectures on soft skills, and giving away placement training to the students. It disseminates the job opportunities-related information in the concerned (related) Centres/Departments/career-relate fairs, and pool campuses for the seekers in the university premises. Apart from hiring activities, the Cell organizes interactive sessions, special lectures, and seminars so as to prepare the students for a smooth transition to their professional lives and face the challenges of the corporate world. With its interaction with companies/industries on a regular basis, the students can avail the opportunity to undergo training during the semester break in many companies/industries.

Moreover, a common placement brochure is updated and sent to various companies from time to time. It organizes seminars to provide a platform for the students to interact with professionals from various industries. It encourages visits to the industries for University students.

### Details of students placed through the Career and Counseling Cell, NEHU, Shillong **April 1<sup>st</sup> to March 31<sup>st</sup>, 2021-22**

Sl No	Name of the company	Name of students who got selected	Date of interview	Department/ Branch	University/ College
1.	Hindustan Computers Limited (HCL)(Salary:3.8l.p.aapprox + Other Incentives as per Company norms)	1.NehaTiware	15.05.2021	B. Tech ECE	School of Technology, NEHU, Shillong.
2.	Capgemini Technology Services India Limited (Salary:3.80.p.aapprox + Other Incentives as per Company norms)	1.NehaTiware	22.06.2021	B. Tech ECE	School of Technology, NEHU, Shillong.
3.	Capgemini Exceller (Salary: 4.0 LPA approx + Other Incentives as per Company norms)	Kirti Jha Shruti Borah	13.09.2021	B. Tech IT	School of Technology, NEHU, Shillong.
4.	Cognizant GenC (Salary: 4.1 LPA approx + Other Incentives as per Company norms)	1.Kamindra K Baitha 2. Abdul Momin	19.11.21	B. Tech IT	School of Technology, NEHU, Shillong
5.	Cognizant GenC (Salary: 4.1 LPA approx + Other Incentives as per Company norms)	Kirti Jha Kajal Singh	29.12. 2021	B. Tech IT	School of Technology, NEHU, Shillong

6.	Cognizant GenC (Salary: 4.1 LPA approx + Other Incentives as per Company norms)	1. Jaspreet Singh 2. Bitopan Dutta	20.01.2022	B. Tech IT	School of Technology, NEHU, Shillong

Many reputed IT and Non-IT Multinational Companies/Organizations/Corporations have been coordinating with the Career and Counseling Cell, NEHU, and Shillong for recruitment hiring of students, and some of the students got multiple placements.

Ongoing recruitment drives are in process in various stages for the following companies:

- ITC Infotech
- TechMahindra
- Infosys
- Zalon
- Admit Kart

We have invited IOCL, APSU Organization here in NEHU to carry out Campus Recruitment Drive among our students



## CAREER AND COUNSELLING CELL (TURA CAMPUS)

**Officer-In-Charge :** Dr. Abhigyan Bhattacharjee

**Telephone :** 09435017519/07099005955

**Email :** pncnehutura@gmail.com

The Career and Counseling Cell (CCC) is also functioning on Tura Campus known as Placement & Counseling Cell. Following the UGC guidelines, the Cell plays a major role in addressing the diverse socio-economic handicaps of the students belonging to the different communities by providing active guidance and information regarding career and placement opportunities. In doing so, the CCC interacts with reputed industries, organizations, training centers, and other entities through seminars, workshops, placement drives, etc., in collaboration with the Department of Management and others.

### Activities are undertaken during 2021-22

- Organized webinar on '*Management-4.0: Developing the Next Generation Managers and Leaders*', Invited Speaker: Prof Mukul Chandra Borah, State Project Administrator (State Project Implementation Unit-North East) A Unit of Ministry of Education in Technical Education Quality Improvement Programme, GoI), 22 May 2021. Faculty members, students of NEHU, Tura Campus, and other Institutions participated.
- Organized webinar on 'Managing Expectations and Facing the Reality', Invited Speaker: Mr. Sanjit Raaj Choudhry, Founder & Director, Pragati Edutech, on 26 May 2021. Faculty members, students of NEHU, Tura Campus, and other Institutions participated.
- Organized webinar on the Relevance of Corporate Communications as a Strategic Management Tool, Madhuchanda Adhikari, DGM, Corporate Communications, Numaligarh Refinery Ltd, Guwahati, 30<sup>th</sup> May 2021. Faculty members, students of NEHU, Tura Campus, and other Institutions participated.
- Career Management League Career Planning & Career Development, Organized by the ICFAI University, Meghalaya July 8-10, 2021. Dr. Abhigyan Bhattacharjee, In-charge, Placement & Counseling Cell, NEHU, Tura Campus presented an invited lecture on '*Coping with mid-career crisis*' on July 10, 2021.
- 4 Days International Conference on Examination-IDEA 2021, organized by Council of Examiners, India and SkillSlate Foundation, Pune, 8<sup>th</sup>-11<sup>th</sup> June 2021. Dr. Abhigyan Bhattacharjee, In-charge, Placement & Counseling Cell, NEHU, Tura Campus presented an invited lecture on '*Grading System: Universal or Diversified*' on 11<sup>th</sup> June 2021.
- Strategies for Writing Quality Research Paper, (Organized by the Department of Commerce, USTM, Meghalaya). Dr. Abhigyan Bhattacharjee, In-charge, Placement & Counseling Cell, NEHU, Tura Campus presented an invited lecture on '*How to write an Effective Research Paper?*' 14<sup>th</sup> June 2021.
- Organized a webinar on "*Career after Graduation*" by Placement & Counselling Cell, NEHU, Tura Campus in Collaboration with T.I.M.E, Guwahati Regional Office on 18<sup>th</sup> June 2021. Students from NEHU, Tura Campus as well as other degree colleges from Tura participated.
- Organized webinar on '*Decision Making and Lateral Thinking- a Tribute to Edward de Bono*', Invited Speaker: Mr. Saurav Jain, Chairperson, ISTD- Guwahati Chapter, 19<sup>th</sup> June 2021. Faculty members, students of NEHU, Tura Campus, and other Institutions participated.
- National Seminar and Workshop on "Significance of Soft Skills and Life Skills and its Pertinence in Career Development" (24-26 June 2021) Organized by Jorhat Kendriya Mahavidyalaya under the aegis of Incubation Innovation Centre, IQAC, Humanities & Communities College, In association with CT Bora College, & Skilling India, Bangalore (An IIT IIM Alumni Venture). Dr Abhigyan Bhattacharjee, In-charge, Placement & Counseling Cell, NEHU, Tura Campus presented an invited

lecture on *'Relevance of Creative Thinking as a Soft Skills Tool in Education Paradigm'* on 25<sup>th</sup> June 2021.

- One student John Rangam R Marak of the Department of Management got placed in PRIME Sauramandala as PRIME Associate in East Garo Hills (William Nagar).
- One student Kapil Mahanta of the Department of Management got placed as Sales Trainer in Gaygya Toyota, Guwahati.
- One student Porismita Deka of the Department of Management was placed as HR Trainee, in Flipkart at Jorhat.
- One student Bikram Rongpi from the Department of Computer Applications was placed as System Administrator, at Alegra Labs GmbH, Guwahati.
- One student ajay Prajapati from the Department of Computer Applications was placed as Software Engineer, at ZALONI INC, Guwahati.
- One student Abhik Paul from the Department of Computer Applications was placed as Software Engineer, at ZALONI INC, Guwahati.
- One student Debasish Barman from the Department of Computer Applications was placed as Software Engineer, at One Traker Pvt Ltd, Guwahati.
- One student Suraj Ali from the Department of Computer Applications was placed as Software Engineer, at Assam Technologies Pvt Ltd, Guwahati.
- One student Thoms Pura from the Department of Computer Applications was placed as Associate Media coordinator, at National Skill Development Corporation, New Delhi.
- One student Lamneithem from the Department of Computer Applications was placed as Trainer, TCS, North-East India.
- One student Chingsime A Sangma from the Department of Computer Applications got selection as Scientific Officer (Research), District and Local Research Station and Laboratories, Sangsanggre, Tura.

## CENTRAL LIBRARY

Librarian (In-Charge)	: Dr. F.R. Sumer
Telephone	: 0364-2721251(O)
E-mail	: frsumer@nehu.ac.in

### Brief Statement of Activities

After the lull in the library activities in the University in view of the pandemic, the re-opening of the University Campuses in the Country during the latter period of 2021 gave life back to the University Library especially the physical presence of students and teachers in the University Library. The need to rejig the library system became apparent especially with the proliferation of e-resources and online content during the previous two years. While the basic activities of the University Library are focused on collection development and organization of library resources, efforts have been made to introduce new services with the objective to improve and standardize research writing amongst the research fraternity of the University. On this aspect, the digital writing tool viz. Grammarly was subscribed by the University Library for use by the researchers of the University. During the period, after it was launched, the University Library received a positive response from the researchers on the effectiveness of the platform.

The University Library had made progressive collaborative efforts during the period to untapped hidden knowledge which depicts the culture of the state of Meghalaya and other states in North-East India. Such endangered treasures of knowledge, when made visible and shared will add great value to the existing collection of the University Library. Thus, the British Library Endangered Archive Project (BLEAP), collaborative activity between the British Library, United Kingdom, the University of Melbourne, Australia, and NEHU gained greater significance when it was formerly inaugurated on 25th November 2021 by Prof. Prabha Shankar Shukla, Hon'ble Chancellor, NEHU during a function held in the University Library, NEHU, Shillong in the presence of Prof. Desmond L. Kharmawphlang, Principal Investigator, NEHU, Prof. Andrew J. May, Principal Investigator, University of Melbourne, Australia (through video-conferencing), Dr. Helen, Archivist, University of Melbourne, Australia (through video-conferencing). Others who were present during the function includes Drincludemer, Librarian In Charge, NEHU, Shillong and the Project Associates, NEHU, Shillong viz. Dr. Natalie J. Diengdoh, Mr. Tarun Bhartiya, Mr. Conrad Syiem, and Mr. Wanphrang Diengdoh, along with the invited guests, members of the media, officers and staff of the University Library. While Dr. F.R. Sumer, Librarian In-Charge, NEHU, Shillong welcome the dignitaries and invited guests that were present, Prof. Desmond L. Kharmawphlang, introduced and spelled-out the intentions of the project and expressed anticipation that it will generate the required interest among scholars, well-wishers and potential contributors. Prof. Andrew J. May, also highlighted the significance of the collaborative activity and its impact on the stakeholders. The other who spoke during the function was Dr. Helen who highlighted the technical aspects of archiving such rare and valuable knowledge. In his Inaugural Address, Prof. P.S. Shukla lauded the efforts made by the project partners and all those actively involved, right from the stage of conception till its formal launched. He went on to say that the Project should also focus on the endangered languages spoken by indigenous people of the North-East India and to preserve them as a national heritage in line with the National Education Policy 2020 recommendation on the importance of home language/mother tongue/local language/regional language while imparting education. He visualized the role of the University Library in the entire journey of the Project in order to showcase the varied cultures of the state of Meghalaya and those of the other states in North East India which will make an impact on future research and society at large. The programme concluded with the Vote of Thanks proposed by Dr. Natalie J. Diengdoh.

During the period, the Central Library, with deep sorrow, sincerely acknowledged the services rendered by the Late I.T. Ao, Junior Library Assistant whom untimely left for his heavenly abode on 18<sup>th</sup> April 2021 while still in service. Through this period, sincere words of gratefulness were conveyed to donors who had donated generously valuable documents in order to enrich the University Library collection.

A sense of gratitude also extends to the student-interns of the Department of Library and Information Science, NEHU who had to lend helping hand in the Central Library during the period.

**Budget Allocation 2021-22**

Particulars	Rupees in lacs
Books	
Grants for Creation of Capital Assets: Books	25.00
Journals and Periodicals	
a) Grants for Creation of Capital Assets: Scientific journals & Periodicals.	9479042.50
b) Grants for Creation of Capital Assets: E-Resources including online databases	10520957.50
Recurring: Grant in aid-Other expenditure: University Library	35.00
Total	260.00

**Library Collection: 297853 volumes**

Particulars	Volumes
Economics, Management and Information Sciences	0078
Education	0067
Humanities	0627
Human and Environmental Sciences	0056
Life Sciences	0039
Physical Sciences	0055
Social Sciences	0120
Technology	0093
General & Computers	0450
Gifts and others	0106
Theses	0197
Data Bank (Government Publications and Reports)	0121
Total books added during the period excluding Gifts, Theses & Databank documents	1585

**Subscription to Academic Journals and Periodicals**

- International published journals : 114
- Indian published journals : 159
- Total : 273**

- Newspapers :13
- Magazines :15

**New Membership Enrollment during the year (2021-22)**

Particulars	Number
Undergraduate Students	0188
Postgraduate Students	1150
PhD Scholars	0090
University Teachers	0000
Non-Teaching Staff	0002
Visiting/Guest Professors/Lecturers	0005
Others (Including College Teachers)	0003
Total number of new members	1438

**Usage of Books, Journals, Back Volumes, Reference, Theses, Databases and e-resources**

- Average number of books issued/returned/renewed: 130 per day
- Average number of Research Scholars including PhD students who referred Reference Books, Theses & Databases:315 per month
- Average number of Research Scholars including PhD students who referred Journals and Back Volumes:422 per month
- Average number of Students other than those pursuing PhD who referred Journals and Back Volumes:150 per month

- Average number of users other than the Research Scholars including PhD students, Students other than those pursuing PhD who referred Journals and Back Volumes:50 per month
- Average number of copies of the referred Journals and Back Volume generated through photocopying services:212 copies per month
- Number of users who availed consultation services during the year: 20
- NEHU's usage of E-ShodhSindhu Consortium e-resources during 2021: 1,11,989 total full-text articles downloaded from 27 publishers/platforms.

#### **Revenue Generated by the Library during the Year**

• Consultation fees	: ₹2300.00
• Fines from Books overdue (including Law Library)	: ₹49,159.00
<b>Total</b>	<b>: ₹51,459.00</b>

#### **Other Activities**

##### ***Awareness/Orientation/Internship Programme for Students and Research Scholars***

- The 9<sup>th</sup> *Library Internship Programme* that commenced on the 15<sup>th</sup> March 2021 but was suspended due to the COVID-19 Pandemic restrictions and lockdown in the state of Meghalaya resumed on 5<sup>th</sup> April 2021 and concluded on 27<sup>th</sup> April 2021. The programme was co-ordinated by Dr. Lalhmachhuana, Documentation Officer.
- The Library House-Keeping Operations (Job Diary) was conducted online for the 2<sup>nd</sup> semester students of Master of Library Science & Information Science (MLISc.), Department of Library and Information Science, NEHU, Shillong during 15<sup>th</sup> May – 15<sup>th</sup> June 2021. The programme was co-ordinated by Shri A. Blah, Assistant Librarian.
- The Documentation Section, based on request, assisted individual students, M.Phil., PhD students and faculty member to access various e-resources especially socio-economic data sources available on [www.indiastat.com](http://www.indiastat.com).
- The Computer Unit and Library Digitization services created awareness of the National Digital Repository for electronic theses and dissertations, viz., Shodhganga, As mandated by UGC, Soft copies of PhD theses awarded by NEHU during the period were uploaded to the ShodhGanga repository.
- To maintain uninterrupted access to the e-ShodhSindhu and DelCON Consortium including those subscribed by the Library, e- remote access facilities were extended to the academic departments including those located in the NEHU Tura Campus, Tura, Meghalaya. A list of such e-resources with their respective hyperlinks are listed in the Library's Remote E-Resources Gateway(<https://nehulibrary.remotexts.in/user/login>).
- In raise the awareness of the importance of Academic Integrity in the University, the Central Library regularly facilitates interaction with M.Phil. and Ph.D. research scholars and supports them with training and advice on the use of the Digital writing tool viz. Grammarly Premium and the Plagiarism Detection Software (PDS)-Ouriginal
- To facilitate online services for the subscribed e-databases and e-journals the respective hyperlinks that are placed on the Library webpage (<http://www.nehu.ac.in/library>) for the convenience of the library members.

#### **Subscription to e-journals, e-books and Online Databases**

The subscription for following online databases and e-journals collection were renewed during the period: (a) IndiaStat (b) Scopus (c) CMIE databases viz. Economic Outlook, States of India & ProwessIQ, (d) IEEE, IEL Online, (e) EPWRF India Time Series database, (f) Grammarly Premium (g) Supreme Court Cases online web edition platinum for 30 users.

### **Important Activities/Steps Accomplished towards Improvement of Library Services**

- Aided with ICT tools, the Issue/Return/Renewal services of books with email notifications to all library members and SMS alerts for PhD students and Teachers were supported by RFID equipment and SMART ID cards.
- Subscription to Online databases viz. Scopus, CMIE or Centre for Monitoring Indian Economy databases viz. States of India, Economic Outlook and ProwessIQ and EPWRF Time Series Databases, Grammarly and Supreme Court Cases Online, Platinum for 30 users were renewed during the period.
- A total of 43,800 pages of newspapers viz. The Shillong Times and U Nongsain Hima were digitized during the period and a total of 208 PhD theses was also uploaded to the National Repository of electronic Thesis and Dissertations “ShodhGanga” as mandated by UGC.

### **Membership with another Libraries/Network/ Professional bodies**

- The Central Library, NEHU is one of the active members of UGC’s Inter University Centre (IUC) viz. INFLIBNET Centre, Gandhinagar, Gujarat.
- The Central Library, NEHU is an Institutional Member of the Indian Association of Special Libraries and Information Centres.

### **Seminars/ Conferences/ Orientation Course/ Workshops/ Extension Programmes etc.**

#### **Dr. F.R. Sumer**

Acted as a Resource person and delivered the following lectures in online mode through Zoom platform conducted by the UGC - Human Resource Development Centre, NEHU:

- two lectures on 24/08/2021 during the Short-Term Course in Research Methodology for College and University Teachers and Research Scholars held from 20/08/2021 to 26/08/2021.
- three lectures on 14/09/2021 & 23/09/2021 during the 6<sup>th</sup> Faculty Induction Programme held from 09/09/2021 to 08/10/2021.
- four lectures on 19/01/2022 & 20/01/2022 during the 7<sup>th</sup> Faculty Induction Programme held from 17/01/2022 to 15/02/2022.
- two lectures on 07/03/2022 & 29/03/2022 during the 8<sup>th</sup> Faculty Induction Programme held from 02/03/2022 to 31/03/2022.

Acted as Co-ordinator for an Online Workshop for the PhD students and faculty members of NEHU on “*Improving research writing using Grammarly*” organized by the Central Library, NEHU, Shillong on 30<sup>th</sup> November 2021 on Zoom Platform.

Acted as Co-ordinator for a Webinar on “*The Journey of a Research Paper: Manuscript Writing – Submission - Publication*” organized by the Central Library, NEHU, Shillong in collaboration with Springer Nature on 9<sup>th</sup> February 2022.

Extended expert advice during the period to Librarians of affiliated colleges and other organizations located in Meghalaya and the other states of the North Eastern Region on aspects related to library management, automation and delivery of online services.

Inspection to: 1. Sankardev College, Shillong, East Khasi Hills (Visited on 22<sup>nd</sup> October 2021) 2. North Eastern Indira Gandhi Institute of Health and Medical Sciences (NEIGRIHMS), East Khasi Hills, Shillong (Visited on 8<sup>th</sup> November 2021) 3. Sohra Government College, Saitsohpen, Sohra, East Khasi Hills (Visited on 17<sup>th</sup> February 2022)

#### **Dr. Lalhmachhuana**

Acted as a Resource person and delivered the following lectures in online mode through Zoom platform conducted by the UGC - Human Resource Development Centre, NEHU:

- two lectures on 24/08/2021 during the Short-Term Course in Research Methodology for College and University Teachers and Research Scholars held from 18/08/2021 to 25/08/2021.
- two lectures on 10/09/2021 during the 6<sup>th</sup> Faculty Induction Programme held from 09/09/2021 to 08/10/2021.
- two lectures on 18/01/2022 during the 7<sup>th</sup> Faculty Induction Programme held from 17/01/2022 to 15/02/2022.
- two lectures on 02/03/2022 during the 8<sup>th</sup> Faculty Induction Programme held from 02/03/2022 to 31/03/2022.

Participated in the Webinar on “*The Journey of a Research Paper: Manuscript Writing – Submission - Publication*” organized by the Central Library, NEHU, Shillong in collaboration with Springer Nature on 9<sup>th</sup> February 2022.

Appointed by the Department of Library & Information Sciences, NEHU as an External

Examiner to conduct the Viva-Voce for LIS-C 205 Library Housekeeping Operations on 3<sup>rd</sup> September 2021.

Compiled discourse for the “*Library House-Keeping Operations (Job Diary)*” paper conducted online for the 2<sup>nd</sup> semester students of Master of Library Science & Information Science (MLISc.), Department of Library and Information Science, NEHU, Shillong during 15<sup>th</sup> May – 15<sup>th</sup> June 2021.

Co-ordinated the “9<sup>th</sup> Library Internship Programme” for the 4<sup>th</sup> semester students of Master of Library Science & Information Science (MLISc.), Department of Library and Information Science, NEHU, Shillong. Due to the COVID-19 Pandemic and subsequent lockdown in the state of Meghalaya the programme commenced on the 15<sup>th</sup> March 2021 lockdown in the state of Meghalaya, the programme resumed on 5<sup>th</sup> April 2021 and concluded on 27<sup>th</sup> April 2021.

Inspection to: 1. Nabon Women’s Synod College, East Khasi Hills (Visited on 24<sup>th</sup> September 2021) 2. St. Anthony’s College Extension, Byndihati, East Jaintia Hills (Visited on 28<sup>th</sup> March 2022).

### **Dr. Manoj Rana**

Acted as Conference Secretary and organized an International Conference (online mode) on “*Gender Equity for Sustainable Development*” from 11<sup>th</sup> - 12<sup>th</sup> of November, 2021, Council of Educational Administration and Management (CEAM), Shillong Chapter in collaboration with Department of Education, North-Eastern Hill University, Shillong, Meghalaya.

Acted as a Resource Person to deliver an online lecture on “*E-Resources, ICT, OER and Online Education*” for a Refresher Course (Dated 07/03/2022 to 22/03/2022) organized by UGC-Human Resource Development Centre, Gauhati University, Guwahati on 12<sup>th</sup> March 2022.

Participated in a one day one day online National Workshop on “*Digital Skills for Learning to Learn*” organized by North-Eastern Hill University, Shillong, Meghalaya on 18<sup>th</sup> June 2021.

Participated in two days online National Workshop on “*Education Research: Innovative Ways of Researching*” organized by the School of Education, Savitribai Phule Pune University (SPPU), Pune in Collaboration with North-Eastern Hill University (NEHU), Shillong during 19<sup>th</sup> - 20<sup>th</sup> June 2021.

Participated in a one day Online International Workshop on “*Communication Competencies for Online Reflective Teaching and Learning: Global Perspective*” organized by Institute of Education and Behavioural Science, Ambo University, Ambo, Ethiopia in Collaboration with North-Eastern Hill University (NEHU), Shillong, Meghalaya, India on 10<sup>th</sup> July 2021.

Participated in in two days online International Workshop on “*Teacher Education-Paradigm Shift: Challenges in NEP 2020 and Global Perspective*” organized by University College of Education, Karnataka University, Dharward, Karnataka, India in Collaboration with North-Eastern Hill University (NEHU), Shillong, Meghalaya, India and School of Education, Savitribai Phule Pune University, Pune, Maharashtra, India during 24<sup>th</sup> - 25<sup>th</sup> July 2021

Participated in a one-day online webinar on “*The Journey of A Research Paper Manuscript Writing – Submission – Publication*” organized by Central Library, North-Eastern Hill University, Shillong in collaboration with Springer Nature on 9<sup>th</sup> February, 2022.

Compiled discourse for the “*Library House-Keeping Operations (Job Diary)*” paper conducted online for the 2<sup>nd</sup> semester students of Master of Library Science & Information Science (MLISc.), Department of Library and Information Science, NEHU, Shillong during 15<sup>th</sup> May – 15<sup>th</sup> June 2021.

Delivered lectures during the “9<sup>th</sup> Library Internship Programme” for the 4<sup>th</sup> semester students of Master of Library Science & Information Science (MLISc.), Department of Library and Information Science, NEHU, Shillong which commenced on 15<sup>th</sup> March 2021 but was suspended in view of the pandemic again resumed on 5<sup>th</sup> April 2021 and concluded on 27<sup>th</sup> April 2021. Under his supervision, the staff of the Acquisition Section assisted in the hands-on training to the student-interns of the aforesaid programme.

Inspection to: 1. Jaintia Eastern College, Khliehriat, Eastern Jaintia Hills (Visited on 1<sup>st</sup> November 2021) 2. Loyola College, Williamnagar, East Garo Hills (Visited on 1<sup>st</sup> December 2021) 3. NEIGRIHMS College of Nursing, Mawdiangdiang, Shillong, East Khasi Hills (Visited on 2<sup>nd</sup> March 2022) 4. St. Anthony’s College, Shillong, East Khasi Hills (Visited on 15<sup>th</sup> March 2022) 5. North Eastern Institute of Ayurveda and Homeopathy (NEIAH), Mawdingang, Shillong, East Khasi Hills (Visited on 22<sup>nd</sup> March 2022)

**Shri J.P. Nongbri**

Supervised training on the *Circulation Module including Registration and Renewal of Library Members on the Koha Open Source Integrated Library Management Software* which was imparted to the College Librarians of (a) Ummulong College, Jaintia Hills from 13<sup>th</sup> to 18<sup>th</sup> September 2021 (b) Balawan College, Ri-Bhoi District from 7<sup>th</sup> to 12 February 2022 (c) Seng Khasi College, Shillong from 10<sup>th</sup> to 15<sup>th</sup> February 2022 with assistance from the staff of the Circulation Section.

Compiled discourse for the “*Library House-Keeping Operations (Job Diary)*” paper conducted online for the 2<sup>nd</sup> semester students of Master of Library Science & Information Science (MLISc.), Department of Library and Information Science, NEHU, Shillong during 15<sup>th</sup> May – 15<sup>th</sup> June 2021.

Delivered lectures during the “9<sup>th</sup> *Library Internship Programme*” for the 4<sup>th</sup> semester students of Master of Library Science & Information Science (MLISc.), Department of Library and Information Science, NEHU, Shillong which commenced on 15<sup>th</sup> March 2021 but was suspended in view of the pandemic again resumed on 5<sup>th</sup> April 2021 and concluded on 27<sup>th</sup> April 2021. Under his supervision, the staff of the Circulation Section assisted the student-interns during the hands-on training programme.

**Shri A. Blah**

Supervised the training session imparted by the staff of the Technical and Periodical Sections, Central Library, NEHU, Shillong on the *Cataloguing and Serial Modules of the Koha Open Source Integrated Library Management Software* to the College Librarians of (a) Ummulong College, Jaintia Hills from 13<sup>th</sup> to 18<sup>th</sup> September 2021 (b) Balawan College, Ri-Bhoi District from 7<sup>th</sup> to 12 February 2022 (c) Seng Khasi College, Shillong from 10<sup>th</sup> to 15<sup>th</sup> February 2022.

Acted as Co-ordinator and compiled discourse for the “*Library House-Keeping Operations (Job Diary)*” paper conducted online for the 2<sup>nd</sup> semester students of Master of Library Science & Information Science (MLISc.), Department of Library and Information Science, NEHU, Shillong during 15<sup>th</sup> May – 15<sup>th</sup> June 2021.

Delivered lectures during the “9<sup>th</sup> *Library Internship Programme*” for the 4<sup>th</sup> semester students of Master of Library Science &

Information Science (MLISc.), Department of Library and Information Science, NEHU, Shillong which commenced on 15<sup>th</sup> March 2021 but was suspended in view of the pandemic again resumed on 5<sup>th</sup> April 2021 and concluded on 27<sup>th</sup> April 2021. Under his supervision, the staff of the Periodicals and Technical sections assisted the student-interns in the hands-on training during the aforesaid programme.

**Dr. B. Sten**

Acted as a Resource Person and delivered lectures including hands-on training to the 20 participants comprising of the library staff and faculty of St. Anthony’s College on the Koha Integrated Library Management Software (ILMS) organized by St. Anthony’s College, Shillong in collaboration with the Central Library, NEHU, Shillong during 16<sup>th</sup> & 17<sup>th</sup> September 2021.

Acted as a Co-ordinator during the hands-on training on the library management modules of the Koha Library Software and imparted, a post installation, hands-on training on system administrative including data backup for the College Librarians of the following affiliated colleges viz. Ummulong Presbyterian College, Ummulong West Jaintia Hills (13<sup>th</sup> - 18<sup>th</sup> September 2021), Balawan College, Umsning, Ri Bhoi District (07<sup>th</sup> – 12<sup>th</sup> February 2022), Seng Khasi College, Jaiaw, East Khasi Hills (10<sup>th</sup> February – 15<sup>th</sup> February 2022).

Imparted, a hands-on training in the Central Library, NEHU on the features of the NEHU Digital Repository – Dspace Software to the College Librarian Seng Khasi College, Jaiaw, East Khasi Hills (10<sup>th</sup> February -15<sup>th</sup> February 2022).

Compiled discourse on the activities of the Computer Section including Digitization for the “*Library House-Keeping Operations (Job Diary)*” paper conducted online for the 2<sup>nd</sup> semester students of Master of Library Science & Information Science (MLISc.), Department of Library and Information Science, NEHU, Shillong during 15<sup>th</sup> May – 15<sup>th</sup> June 2021.

Delivered lectures during the “9<sup>th</sup> *Library Internship Programme*” for the 4<sup>th</sup> semester students of Master of Library Science & Information Science (MLISc.), Department of Library and Information Science, NEHU, Shillong which commenced on 15<sup>th</sup> March 2021 but was suspended in view of the pandemic again resumed on 5<sup>th</sup> April 2021 and concluded on 27<sup>th</sup> April 2021. Under his supervision, the staff of the Computer Section including Digitization assisted in the hands-on training to the student- interns of the aforesaid programme.



Supervised the uploading of the soft copies of the PhD theses awarded by NEHU in the Shodh Ganga Digital Repository for theses and dissertations as mandated by UGC with assistance of the staff of the Library Digitization Lab.

Supervised the access to the online e-resources available through the e-ShodhSindhu and DelCON Consortium including those subscribed by the Library as an e-service to the research

scholars and faculty through the Internet Room located in the Central Library, NEHU, Shillong.

Inspection to: 1. Khad Saw Phra College, Mairang, West Khasi Hills (Visited on 1<sup>st</sup> October 2021) 2. Phukan Memorial College, Dalu West Garo Hills (Visited on 9<sup>th</sup> November 2021) 3. Kiang Nongbah Government College, Jowai West Jaintia Hills (Visited on 13<sup>th</sup> December 2021) 4. Kiang Nongbah Government College, Jowai West Jaintia Hills (Visited on 23<sup>rd</sup> February 2022).

## CENTRAL LIBRARY (TURA CAMPUS)

**Assistant Librarian** : Dr. A. J. Singh  
**Telephone** : +919402196926  
**E-mail** : libtura@gmail.com

North Eastern Hill University, Tura Campus was established in 1996 to impart Higher Education with the Motto “**RISE UP AND BUILD**”. The Campus now has 11 (eleven) Post-Graduate and Research Departments. They are – English, Garo, Education, Rural Development & Agricultural Production, Management, Computer Applications, Horticulture, Agri-Business Management & Food Technology, History & Archaeology, Social Work, and Forestry.

During 2021-2022, the Campus Library achieved outstanding progress in terms of its collection. The Library continued to offer services like Reference, Circulation, Bibliography Services, Reprography, OPAC, online access to e-journals & databases (including remote access), and internet browsing facilities to the students, research scholars, faculty members, and non-teaching staff of the Campus.

The Annual Report of NEHU, Tura Campus Library for the year 2021-2022 is furnished below:-

### **1. Budget Allocation of Books & Periodicals 2021-2022 (Non-Plan).....Rs. 14.50 Lacs**

- i) Book Grant = Rs. 4.10 Lacs
- ii) Periodicals Subscription = Rs. 9.20 Lacs
- iii) Library Stationary and Others = Rs. 1.20 Lacs

### **2. Collection Development.**

- a) Total Book collection up to 31.03.2022 = **29,660 Vols.**
  - i) Books on Purchase = 28,445 Vols.
  - ii) Books on Gift = 815 Vols.
- b) Books Added during the year (2021-2022) = **406 Vols.**
  - i) Purchased Books = 401 Vols.
  - ii) Gifted Books = 05 Vols.
- c) No. of Journals Subscribed (2021) = **67**
  - i) Indian Journals = 56
  - ii) Foreign Journals = 11

### **3. Library Membership Statistics (2021-2022) = 634 Members**

- i) Students of 11 (Eleven) PG Department = 487 Members
- ii) M.Phil. / Ph.D. Scholars = 68 Members
- iii) Faculty Members = 41 Members
- iv) Guest Lecturers = 18 Members
- v) Non-Teaching Staff = 20 Members

### **4. Library Circulation Statistics (2021-2022)**

- i) Books Issued = 983 Vols.
- ii) Books Returned = 927 Vols.
- iii) Books Consulted = 3784 Vols.

### **5. Statistics of Technical and Library Automation Unit**

- i) Books Classified (2021-2022) = 406 Vols.
- ii) Books Added in the Database & Barcoded = 406 Vols.

### **6. Statistics of Reprography Units (2021-2022)**

i) Total no. of Xerox Exposure Provided = Rs.10,575/-

**7. Revenue Collected during 2021-2022**

- i) Reprography Services = Rs.10,575/-
- ii) Overdue Fine = Rs. 560/-

**8. Activities by Library Staff.**

- i) Library is using KOHA library software for its computerised housekeeping operations. All the books are in the Computer processed database and they are available on OPAC and on Web-OPAC.
- ii) Attended Online Training Session on Grammarly and Plagiarism Software
- iii) Rectification of bay guides in all the sections and rearrangement of reference sections of the library.

**9. Library Staff.**

a) Regular staff:

- i) Dr. Angom Jeevan Singh, Assistant Librarian
- ii) Dr. A.K. Mondal, (Prof. Asst.)
- iii) Shri R.P. Yadav, (MTS)
- iv) Shri. Uday Nath Naik, (MTS).

b) NEHU, Contract and Outsourcing Staff:

- i) Smt. Meritha M. Sangma, LDC (NEHU Contract)
- ii) Smt. Shaira A. Sangma, LDC (NEHU, Contract)
- iii) Smt. Mary Rabha, JLA (NEHU, Contract)
- iv) Mr. Salgira S. Sangma, LDC (Outsourcing)
- v) Shri. Jonash M. Momin, Attendant (Outsourcing)
- vi) Shri. Nengsan M. Momin, Attendant (Outsourcing)
- vii) Shri. Alexander D. Sangma, LDC (Outsourcing)
- viii) Mr. Trainithson A. Sangma, Attendant (Outsourcing)
- ix) Smt. Nilda A. Sangma, Cleaner (Outsourcing)
- x) Smt. Rajila Ch. Marak, Attendant (Outsourcing)
- xi) Mr. Manrak O. Sangma Lab Assistant (Outsourcing)

NEHU, Tura Campus Library is not only rendering services to its academic user communities but also providing Library services to the neighboring colleges of the Garo Hills district. NEHU Tura Campus Library always maintains its standard in regards to providing quality services to students, research scholars, faculty members and non-teaching staff members and aims to further advance the academic functioning of NEHU, Tura Campus, Tura.

## COMPUTER CENTRE

**Head:** Professor L. Joyprakash Singh  
**Telephone:** (0364) 2723751/ 272833  
**E-mail :** hodcc@nehu.ac.in / jplairen@nehu.ac.in  
**Faculty/Staff Profile:**

Designation	Name and Qualification	Specialization
<b>Head</b>	Dr. Lairenlakpam Joyprakash Singh, M.Tech. (Tezpur Univ.), Ph.D. (Jadavpur Univ.) (Head w.e.f. 28/05/2020)	Signal Processing and its Applications
<b>Senior System Analyst</b>	Mr. P.P.Dey, B.Tech (REC Warangal), M.Tech (NEHU)	Electronics & Communication Engineering, Information Technology
<b>System Analyst</b>	Mr. H.Kharshiing, B.Tech (Jawaharlal Nehru Engg College)	Computer Science & Engineering, Information Technology
	Mr. M.Kharjana, B.E. (Sardar Patel College of Engg., Mumbai) , M.Tech (NEHU)	Computer Science & Engineering, Information Technology
<b>Computer Operator</b>	Mr. P.Kharlukhi, BCA (NEHU) (Posted to Examination section w.e.f Sept'2016)	Computer Hardware & Networking

### Thrust Areas of Research

- Providing a High-Performance Computing facility (24 x 7) to faculty members, research scholars, and students of the University.
- Conducting short-term courses in computer-related subjects.
- Supporting ICT/UMS-related automation activities of the University.

### Brief Statement of Academic Activities

- a) Research Scholars and Teachers/non-teachers from various Departments/Centres utilize the facilities of the Centre for computational work, documentation, and internet facility.
- b) Short Term Courses are conducted throughout the year and they are as follows:
  1. C Programming
  2. Java Programming
  3. Windows & MS Office.
  4. Computer Hardware & Networking
- c) The center has been providing support to the online admission process conducted by the university every year. The Computer Centre lab is provided to the applicants of various University programs to fill up the online forms. Admitted students take the help of the Centre's facility to fill up the Examination Form, Pay various Fees, etc.
- d) Helpdesk for the University's online admission process to various programs is also set up in the Centre.

e) The Centre has also been assisting the Finance, Examination, and Administration Departments of NEHU. System Analyst and Data Entry Operators of the Centre are involved in the Examination Department's work on a regular basis.

The Short Term Courses are taught by the following faculty:-

- a) C programming by Mr. P.P.Dey
- b) Java Programming by Mr. M.Kharjana
- c) MS-Windows & MS Office by Mr. H.Kharshiing
- d) Hardware & Networking by Mr. P.Kharlukhi

### Publications (Using HPCC facilities)

#### Research Papers

1. N.T.T. Cuc, N.T. An, V.T. Ngan, A. K. Chandra, N.T. Trung (2022). Importance of water and intramolecular interaction governs substantial blue shift of Csp<sup>2</sup>-H stretching frequency in complexes between chalcogenoaldehydes and water. RSc Adv., 12: 1998-2008.
2. P.T. Phanrang, P. Baruah, A.K. Chandra, S. Mitra (2022). Auxiliary Therapeutic Role of Cholinergic Agents: Mechanistic Insights into the Antioxidant Behavior of Alzheimer's Disease Drugs. J. Phys. Chem A 126: 546-556.
3. S. Hynniewta, M. Lily, A. K. Chandra (2021). Computational investigations on the kinetics of the reaction between t-butanol and OH radical and ozone formation potential. J. Mol. Graph. Model., 108: 108002(1-6).

4. S. Bhattacharai, D. Sutradhar, T. -HolenZeegers-Huyskens, A.K. Chandra (2021). Nature and Strength of the Chalcogen Bonded Complexes between Substituted Pyridines and SO<sub>3</sub> Molecule. *ChemistrySelect*, 6: 7514-7524.
5. M. Lily, S. Hynniewta, Balaganesh, W. Wang, A. K. Chandra, F. Liu (2021). Quantum Chemical Insights into the Atmospheric Reactions of CH<sub>2</sub>FCH<sub>2</sub>OH with OH Radical, Fate of CH<sub>2</sub>FC•HOH Radical and Ozone Formation Potential. *Atm. Env.*, 249: 118247 (1-16).
6. Rohman, M. A., Phanrang, P.T., Chamlagai, D., Mitra, S., (2021). Deciphering spectroscopic and structural insights into the photophysical behavior of 2, 2'-dipyridylamine: An efficient environment-sensitive fluorescence probe. *J. Phys. Chem. A*, 125: 6964-6975.
7. Phanrang, P.T., Baruah P., Chandra, A. K., Mitra, S., (2022). Auxiliary therapeutic role of cholinergic agents: Mechanistic insights into the antioxidant behavior of AD drugs towards reversing DNA oxidative stress. *J. Phys. Chem. A*, 126:546-556.

#### Infrastructure facilities

- High-Performance Cluster Computer: SULEKOR-Dell Cluster has been in use by the University community primarily by Research Scholars from the Department of Chemistry, Physics, Bio-Chemistry, Biotechnology, and BSSS. This system is available to the user 24x7. The SULEKOR has primarily users for Fortran, Gromacs, and Gaussian.
- SULEKOR-HP High Performance Cluster Computer: SULEKOR-HP Cluster was reinstalled w.e.f June'2016. It has been in use by the University community primarily by Research Scholars from the Department of Physics, Zoology, and BSSS. This system is also available to the user 24x7. The SULEKOR-HP has primarily users for Fortran and BLAST.
- 21 Nos. Desktop PCs (Linux): All these Desktop PCs are connected on a LAN and to the NEHU internet facility.
- 31 Nos. Desktop PCs (Windows): All these Desktop PCs are also connected on a LAN and to the NEHU internet facility.

#### Other Activities

- Computer Centre earned an amount of Rs. 32,805/- during the period through its various activities.
- Mr. P.P.Dey is deputed as the Nodal Officer for the ongoing NAD (National Academic Depository) activities of the University.
- Mr. P.P.Dey is also deputed as the Nodal Officer for the Academic Bank of Credit (part of NAD-Digilocker) of the university.
- Mr. P.P.Dey is deputed as the Covener for the ongoing Azadi Ka Amrit Mahotsav Celebration at the University.
- Mr. P.P.Dey is continuing as the Associate Project Manager for the ongoing UMS automation.
- Mr. H.Kharshiing is deputed as the Co-Nodal Officer for the ongoing implementation of the Samarth e-governance suite in the University.
- Mr. H.Kharshiing, Mr. P.P.Dey, and Mr. P.Kharlukhi are providing assistance to the Examination Section, Administration Section, and Finance Section of NEHU in computer automation work.
- Mr. H. Kharshiing and Mr. P.P.Dey are supporting the helpdesk to provide replies to any query from students seeking admission to the university.
- Mr. P.P.Dey and Mr. M.Kharjana are deputed to Examination Section in addition to their normal duties in the Computer Centre.
- Mr. M.Kharjana is deputed as the University Nodal Officer for the All India Survey on Higher Education (AISHE).
- Mr. M.Kharjana assists with the ongoing Azadi Ka Amrit Mahotsav Celebration in the University by managing its web portal.

The staff of the Computer Centre is engaged by the Finance Section, Examination Section, and College Development Council of NEHU as and when required.

## DEEN DAYAL UPADHYAY COMMUNITY COLLEGE FOR SKILL DEVELOPMENT

Head of the Institution : Prof. H. Lamin, Founder-Principal I/C

Mobile No : 9436103856/8837452546

Email : [nehudducc@gmail.com](mailto:nehudducc@gmail.com)

Guest Faculty Staff: 02

Non-Teaching Staff: 05

### **OBJECTIVES OF THE COMMUNITY COLLEGES FOR SKILL DEVELOPMENT**

The main objective of the Community College is, (i) to integrate relevant skills into the higher education system in order to make higher education relevant to the learner and the community, (ii) to provide employable and certifiable skills based on National Occupational Standards (NOSs) with necessary general education to Senior Secondary School pass-outs, with general education and vocational education background, (iii) to provide for up-gradation and certification of traditional/acquired skills of the learners irrespective of their age, (iv) to provide opportunities for community-based life-long learning by offering courses of general interest to the community for personal development and interest, (v) to provide an opportunity for vertical mobility to higher education in future, and (vi) to offer bridge courses to certificate holders of general/vocational education, so as to bring them at par with appropriate NSQF level.

### **ACADEMIC ACTIVITIES**

The Centre is running a program of **Medical Laboratory Technology (MLT)** Certificate Course and there are **54 Students** in the program for the year **2021-2022** this program has been approved by the UGC since **30<sup>th</sup> July 2019**.

#### **Student's Profile 2021-2022 & Enrolment Capacity: MLT-54 (Diploma/Certificate Course)**

Certificate Course	Male	Female	SC	ST	OBC	GEN	Meghalaya	Non-Meghalaya	Total
MLT	9	45	-	54	-	-	54	-	54

### **HOSTEL ACCOMMODATION**

Currently, the College provides hostel accommodation only for girls who came from far villages.

#### **Hostellers' Profile – 2021-2022**

##### **Enrolment Capacity:**

Certificate Course	Male	Female	SC	ST	OBC	GEN	Meghalaya	Non-Meghalaya	Total
MLT	-	16	-	16	-	-	16	-	16

The primary mission of the MLT program is to prepare the students for gainful employment in the area of Medical Laboratory Sciences. Integral to this purpose is assisting students in the development of the technical skills and knowledge necessary to perform testing in a medical laboratory. Both governments' owned and private industries have plenty of vacancies to offer prospective candidates who are fresh graduated Medical Laboratory Technology Course (MLT).

Another particularly high-income option that is available to professionals who have gathered a few years of experience is to work self-employed.

Besides **Medical Laboratory Technology (MLT)**, other programs like **Welding, Fabrication, Plumbing, Electrical Wiring, Food Processing, and Mushroom Cultivation**, also have been sensitized to the youths who came from different villages to participate in the programs conducted in the Centre for better understanding by giving them a short-term training.

### **DECLARATION OF MLT STUDENT'S RESULT: 11<sup>TH</sup> JULY 2022 (MONDAY)**

**Diploma/Certificates awarded to all the Students who had completed the MLT Course**

Degree	Male	Female	SC	ST	OBC	Gen	Meghalaya	Non-Meghalaya	Total
MLT	7	34		41			41		

**PLACEMENT OF THE STUDENT'S**

SL.NO	NAME	PLACE
1	Ridaki Suchiang	Dayness Diagnostic Laboratory, Phramer
2	Livingstar war	Origin Diagnostic Laboratory, Shillong
3	Timaica Phawa	Lal Paths, Ummulong
4	Caremeffully Shangpung	Blood collection, Daynes Diagnostic Laboratory, Shillong

Most of the Students are still undergoing their Internship and experience programs in different Civil hospitals, CHCs, PHCs, Mission Hospitals, and Private Hospitals within the State (Meghalaya).

**EXTRA CURRICULUM PROGRAMME**

- 1) Cultural activity with the tribal in songs, dance, and sports.
- 2) Farmer's men and women participated in Mushroom Cultivation.
- 3) Demonstration of growing vegetables in the greenhouse.
- 4) Demonstration of various farming programs through the interactive board.

**MEMBERS OF THE BOARD OF MANAGEMENT**

SL. No	NAME	DESIGNATION
1	Prof. P.S. Shukla, Vice-Chancellor, NEHU	Chairman
2	Prof. H. Lamin, Principal I/C, DDUCC for Skill Development, Wahiajer	Member Secretary
3	Prof. D. Walia, (HOD) Dept. of Geology, NEHU.	Member
4	Prof. M. S. Bisht, Dept. of Environmental Science, NEHU	Member
5	Dr. D. Biswal, Assistant Registrar, (Planning), NEHU	Member
6	Principal, Polytechnic, Shillong	Member
7	Dr. Sr. Mary Harriet, Principal, St. Mary's College, Shillong	Member
8	Director of Bethany Hospital, Shillong	A representative from Partner Industry
9	Nodal Officer, DDUCC for SD	Convener

## DESIGN INNOVATION CENTRE

Name of the Director : Prof. Don Syiem  
E-mail : director.dic@nehu.ac.in;/dic@nehu.ac.in;\_dsyiem@yahoo.com  
Contact : 0364-272-2117 (O) / +91-9863109538 (M)

### • HUB Details:

**Name of the Institute/University: North-Eastern Hill University (NEHU)**

• The Design Innovation Centre was set up in North-Eastern Hill University (NEHU) to inculcate thinking of innovation and design in the minds of young students and researchers, including members of the faculty. **During the year under the grip of the Covid-19 pandemic, two units conducted their DIC course in “Online Mode via Google Meet”. The effort was greatly appreciated and a lot of students participated in the course.**

• **Student participation:** Despite the Covid-19 pandemic, a total number of 200 students participated in the add-on courses conducted under the DIC-NEHU from 1<sup>st</sup> April 2021 – 31<sup>st</sup> March 2022. Moreover, one Department under the hub held two workshops during this year via Google meet.

### • Comprises of Hubs and Spokes:

The HUB (NEHU): a) Dept. Of Cultural & Creative Studies (DCCS), NEHU, Shillong  
b) Dept. Of Architecture (DA), NEHU, Shillong  
c) Dept. of Biomedical Engineering (DBME), NEHU, Shillong.

The SPOKES: a) Indian Institute of Information Technology (IIIT), Guwahati  
b) St. Anthony's College (SMC), Shillong  
c) St. Mary's College (SAC), Shillong

• The NEHU appointed a **new Director Prof. D. Syiem on 26<sup>th</sup> July 2021** following the superannuation of the previous Director Prof.

**R. N. Sharan.**

• **Activities of DIC NEHU:** Creative activities

undertaken during the CoViD-19 lockdown period:

- i. **Innovative “IR base non-contact temperature detection system invented with distance measuring unit of DIC hub (NEHU)**
- ii. **(Institute of Information Technology (IIIT), Guwahati is actively engaged in completing solutions to tackle covid-19 pandemic (Spoke)**

The effort was greatly appreciated and a lot of students participated in the 1-semester course. The DIC hub NEHU delivered several radio talks and published popular articles to educate laymen in our society on the Covid-19 pandemic related issues

• Patent in DIC NEHU - On 28th December 2021, the 1st hearing on our response to the 1st examination report on the patent application # 201831022176# was conducted online by the Patent Officer. The patent attorney from Mumbai and former Director, Prof. R. N. Sharan attended the online hearing which lasted about 30 min. Following this, on request from the Patent Officer and in accordance with the procedure, they have made a written submission of the hearing proceedings to the patent office on 11th January 2022, for their consideration. Now, they shall wait for the final disposal of our patent application from the Indian Patent Authority of GOI.

• **List of a start-up:** A few students from NEHU HUB were excited to take part in the University / Campus collaboration proposal on the “Northeast Startup” Festival held at Khanapara from 20th Jan' 2022 to 22nd Jan' 2022 but this event was postponed due to Omicron.

• **DIC allocation of space:** The NEHU is in the process of allocating a permanent space to DIC, NEHU at the North East Centre of Diversity (NEICOD) building complex at NEHU campus.



The space has adequate rooms to house the extended DIC program. various labs proposed to be established under the

- **Data of DIC enrolment:**

#	Indicators	2021-22
1	Number of New Students Enrolled in DIC courses	200
2	Number of Patents filed	0
3	Number of Innovative products delivered/ improved/initiated	0
4	Numbers of New Elective Courses	0
5	Number of Workshops held ( Via Google Meet)	2

- **Major Achievement & work done:** We expect a lot of innovative products coming out of the DIC, NEHU this year if the pandemic situation does not worsen but improves. Notable among them are cancer detection kits, electronic devices to help drivers, more efficient machines for use in the rural sector for the benefit of the poor, and recipes for better and nutritive food, among others.

## EQUAL OPPORTUNITY CELL

Assistant Registrar : Georgina Umdor  
 Telephone : 0364-2721087  
 E-mail : gumdor@nehu.ac.in

### A brief statement of activities

The Cell deals with matters pertaining to the implementation of Government of India Orders, UGC Guidelines, and other instructions issued from time to time on the subject of reservation, etc. in coordination with Establishment-I & II Sections and the Office of the Dean of Students' Welfare of the University.

As per the information collected by the Cell from the concerned Sections, the present position of SCs/STs, OBCs & PWDs at teaching, and non-teaching levels and admission to various courses/degrees as of 31.03.2022 is as under:

### (A) Teaching staff

Sl.no	Name of the post	Total Post		In Position out of Total Filled						
		Sanctioned	Filled	Gen.	OBC	SC	ST	PWD	Total	Vacant
1.	Assistant Professor	219	173	117	19	21	15	01	173	46
2.	Associate Professor	151	80	74	NIL	01	05	NIL	80	71
3.	Professor	97	35	33	NIL	01	01	NIL	35	62

### (B) Non-Teaching staff

Sl. No.	Name of the post	Total Post		In Position out of Total Filled						
		Sanctioned	Filled	Gen	OBC	SC	ST	PWD	Total	Vacant
1.	Group-A	64	42	41	NIL	01	NIL	NIL	42	22
2.	Group-B	184	94	70	7	10	6	1	94	90
3.	Group C (including erstwhile Group-D)	762	264	175	7	12	69	1	264	498

### (C) Admission to various courses/degrees (2021-22)

Sl.No	Course/Degree	Total Seats		In Position out of Total Filled						
		Sanctioned	Filled	Gen.	OBC	SC	ST	PWD	EWS	Total
1.	UG	1532	1010	324	30	74	557	0	25	1010
2.	PG	2834	2778	296	18	23	2348	7	86	2778
3.	M.Phil	Not fixed	112	30	1	7	74	0	0	112
4.	Ph.D.	Not fixed	548	137	33	31	343	0	4	548
5.	Cert/Dip	Not fixed	148	8	8	3	129	0	0	148

## HEALTH CENTRE

### MEDICAL OFFICERS:

Dr. M. Marwein: Chief Medical Officer.  
Dr. C. Mukhim: Chief Medical Officer (Resident).  
Dr.M.B.G. Momin: Senior Medical Officer (Resident).

### STAFF NURSE/NURSING OFFICERS:

Smti. G.N. Syiem (Regular): Senior Nursing Officer ( Resident)  
Smti. Eemonmi Khyriem: Nursing Officer (On daily wage.)  
Miss. Marlyne Kharumnuid: Nursing Officer (On daily wage.)

### MEDICAL LABORATORY:

Shri S. K. Kashyap: S.T.A. ( Regular ).  
Miss Suklang Nongkhlaw: Lab. Asstt. (Outsource).

### PHARMACIST:

Shri Remdorlang Myllemngap (Regular).  
Shri Crescent Lyngkhoh (Oursource).

### OFFICE STAFF:

Shri Parimal Dev U.D.C. ( Regular ).  
Shri Rohit Pradhan: M.T.S. (Peon) on daily wage.

**DATA ENTRY OPERATOR::** Miss Easter Jean Kharmawlong ( Outsource ).

### DRESSER:

Shri Balarius Marwein on daily wage.

### PHYSIOTHERAPIST:

Miss Evalari S. Skhembill ( daily wage ).

### RECEPTION :

Smti. Anoliza Mawlong (daily wage)  
assisted by Smti.Belisha Pasi ( daily wage )  
& Miss Joycyful Sohtun(Outsource).

**SAFAIWALLA:** Shri W.Rangdong (Dailywage)& Smti.B.Dympep(Oursource)

**CLEANER:** Smti. Laxmi Thapa (Daily wage) & Smti. M.Dympep (Outsource).

The following facilities are available at the Health Centre:

- 1). **CONSULTATION:** Medical Officers are available for consultation at fixed hours as well as for emergency consultation beyond duty hours.
- 2). **PHARMACY:** The required medicines are purchased from wholesale suppliers and stored at the medical store. These medicines are issued to the patients based on the prescription by the Doctors.
- 3). **DRESSING ROOM:** Dressings, injections, and minor surgical procedures are carried out in the dressing room.
- 4). **LABORATORY:** Bio-Chemical and Clinical Pathology tests for blood and urine analysis are performed in the Medical Laboratory of the Health Centre.
- 5). **OBSERVATION ROOM:** In the observation room, moderately sick patients have been taken care of by giving IV drips, etc.
- 6). **IN-PATIENT TREATMENT:** Patients requiring in-patient treatment are referred to the hospitals/ specialist within Shillong and thereafter outside Shillong depending upon the necessity.

- 7). **AMBULANCE:** Ambulance service is provided during emergencies for transporting severely sick patients from residents to clinics/Hospitals.
- 8). **EMERGENCY DUTY:** The Resident Medical Officers and Resident Nurses are doing emergency duty outside duty hours whenever needed.
- 9). **CREDIT BILLING FACILITY:** NEHU has a credit billing facility available for patients admitted in Nazareth and KJP Hospitals in Shillong and CMC Hospital at Vellore.
- 10). **SPORTS AID:** First Aid service is provided at various sports tournaments organised by the University/KV NEHU School.
- 11). **PHYSIOTHERAPY:** The facility is available for the University community.
- 12). **MEDICAL CAMP:** Free medical camps like Bone Mineral Density, Eye Check up, Diabetes and Blood Donation camps are being held at the Health Centre . The Health Centre has also organised Covid 19 vaccination camps during the above period.

## HINDI CELL

Hindi Officer	: Sri Rajendra Kr. Ram
Telephone	: 0364-2721331(O)/ Mob. 9435174858
E-mail	: hindiofficer@nehu.ac.in, krajen112@gmail.com

Hindi Cell in pursuance of the Official Language Policy of the Government of India and to promote the progressive use of Rajbhasha Hindi, Hindi cell was established in this University for the purpose. An Official Language Implementation Committee is also constituted in the University for implementing, reviewing, and monitoring the Rajbhasha Policy.

### **Main activities of the Cell**

Hindi Cell undertakes various activities with a view to ensure compliance with the Official Language Implementation policies and Constitutional Provisions (Official Languages Act, 1963 and the Official Language Rule, 1976), and to promote the progressive use of Hindi for Official purposes. The activities are as follows: -

- i) Translation of the Official Letters/ Documents.
- ii) Translation of Annual Report, Audit Report, Audit Reply.
- iii) Hindi Courses/ classes (Probodh, Praveen, Pragya, and Prangat), under the Hindi Teaching Scheme, are conducted regularly to impart training in Hindi to the Employees of the University who do not possess the working knowledge of Hindi.
- iv) Hindi Workshop is also conducted under the scheme so that the employees can improve the efficiency of doing their work in the Official Language.
- v) Convening Official Language Implementation Committee from time to time, to prepare the agenda and minutes of the meeting and coordinate the action taken on the decision taken at the meeting.
- vi) Hindi Divas/ Pakhwada at Shillong Campus during September, 2021, in which several Hindi Competitions such as Hindi Handwriting, Hindi Poem recitation, Hindi Extempore Speech, etc. were conducted.
- vii) The Cell has conducted Matribhasha Divas (Mother Tongue) day on 21<sup>st</sup> February, 2022 on the campus.
- viii) Hindi Officer participated in One Day Joint Official Language Conference for the East & North-East Region in Dibrugarh, Assam on 18<sup>th</sup> December, 2021 organized by the Department of Official Language, Home Affairs, Government of India.

### **Publication:**

Hindi Cell published the 5<sup>th</sup> Edition of the Annual In-house Magazine namely 'NEHU JYOTI'.

### **Total number of Staff:**

SL. NO.	NAME AND DESIGNATION
1.	SRI. R. K. RAM HINDI OFFICER
2.	SMTI. C. BUATI HINDI TRANSLATOR
3.	SRI. S. KUMAR HINDI TYPIST
4.	SRI. B. ROY MTS

## INCUBATION CENTRE

**Head/CEO:** Prof. Devesh Walia

**Telephone:** 0364-2721150(O), +91-9436163641

**E-mail :** drdeveshwalia@gmail.com; hodgeology@nehu.ac.in

### Faculty Profile:

Designation	Name and Qualification
CEO	Dr. Devesh Walia, M.Tech. (DHSGU, Sagar), Ph.D. (Gauhati University)
Dy. CEO	Dr. Aseem Sinha, M.Sc. (Lucknow University), Ph.D. (NEHU)
Member Secretary	Dr. Diegracia Nongkynrih, M.A. (NEHU), Ph.D. (NEHU)
Members	Dr. Desmond Kharmapalang, M.A. (NEHU), Ph.D. (NEHU) Dr. Queenbala Marak, M.A. (NEHU), Ph.D. (NEHU) Dr. Rishang Nongkhaw, M.Sc. (NEHU), Ph.D. (NEHU) Dr. Sudip Paul, M.Tech. (IIT, BHU), Ph.D. (IIT, BHU) Dr. D.K. Biswal

### Thrust Areas of Research

Agriculture; Vertical Farming; Healthcare; Livelihood; Waste Management; Enabling Differently-abled; Disaster Related Issues and Construction; Earthquake Forecasting Research and Impact of Seismicity on Infrastructure; Waste (Organic and Single-use Plastic) Recycling, and Use; Climate Change and Adaptation; Carbon Sequestration; 3D Printing; Bamboo products for various use for socio-economic Development; Electric Vehicles Technology and imparting training to the students and faculty for innovation and entrepreneurial skills.

### Brief Statement of Academic Activities and achievements:

The Governing council comprising Prof. K. Aguan; Prof. B. Panda; Prof. L.J. Singh; Prof. D.K. Limbu; Finance Officer – Shri L.M.K. Lyngrah; Ms. B. Rynjah and Member Secretary Prof. Devesh Walia under the Chairmanship of the Vice-Chancellor met several times to discuss the thrust areas and frame-up policy, rules and regulations for the functioning of the Incubation Centre.

The Executive Committee of the Incubation Centre discussed various issues pertaining to the thrust and focus areas and frame-up policy, rules, and regulations for the Incubation Centre to be approved by the Governing Council of the Incubation Centre. The Executive Committee met several times during the year on account of finalising various issues.

Seminars/Conferences/Workshops/Symposia/Extension Programmes (National/International):

### Organized

Name of Event	Date	Venue	Place	Name of Convener/Organizing Secretary
Webinar on Building Incubation Ecosystem in NEHU	29-10-2021	Department of Geology, North-Eastern Hill University	Shillong	Prof. Devesh Walia

## INTERNAL QUALITY ASSURANCE CELL

Director : Prof. A.S. Dixit  
Telephone : 0364-272-1070/1080 (O) ; 9436312383 (M)  
E-mail : directoriqac@nehu.ac.in

The IQAC, NEHU is meant for planning, guiding, and monitoring the Quality Assurance (QA) and Quality Enhancement (QE) activities of NEHU. It is engaged in developing a system for conscious, consistent, and catalytic action to improve the academic and administrative performance of the NEHU. It is making efforts and taking measures towards promoting academic and overall excellence within the University.

The IQAC NEHU has done the following activities to achieve the above goals in the Academic year 2021-22:

1. 8<sup>th</sup> IQAC Meeting was convened on 25<sup>th</sup> March 2022. The AQAR report for the academic years 2020-21 was placed before the members for consideration based on the New AQAR Format devised by NAAC, Bengaluru, in the meeting.
2. After a threadbare discussion the Annual Quality Assurance Report (AQAR) of 2020-21 has been passed and submitted to NAAC, Bengaluru, and also uploaded to the NEHU website.
3. A number of applications received from faculty members for their promotions under the Career Advancement Scheme (CAS) were screened by the IQAC with the help of various Screening Committees constituted for the purpose with the approval of the Vice-Chancellor. IQAC played a vital role in the successful completion of the promotion process of teachers.
4. Various National Webinars were conducted on the National Education Policy 2020 for the awareness of College/ University teachers and Principals of colleges.
5. Number of Webinars were organised on various topics related to quality education.

## NATIONAL SERVICE SCHEME (NSS) CELL

**Programme Coordinator:** *Dr. Marbhador M. Khyndeit*  
**Telephone No:** *2721151, 2721152, and 2721153.*  
**Tele Fax:** *2721151.*  
**E-mail ID:** *nss.nehu@gmail.com/nss@nehu.ac.in*

The National Service Scheme (NSS) of the Government of India envisages utilizing the free time of Higher Secondary School/Colleges/University students for socially productive work. An important feature of the NSS is that its programmes are organized by the student volunteers themselves, under the guidance of their teachers as Programme Officers. The work undertaken by the NSS units is divided into Regular Activities and Special Camping. The volunteer strength has increased to 16000 comprising volunteers from 2 P.G. units, 40 colleges and 2 Medical institutes with 95 NSS Programme Officers.

### **1. Review Meeting :**

- A *review meeting* of NSS activities on **COVID-19** was held on 27<sup>th</sup> May 2021 through Google meet.
- An online *review meeting* for Programme Officers on **Vidyanjali Initiative** was held on 17<sup>th</sup> December 2021.
- An online meeting of the NSS **University Advisory Committee** was held on 14<sup>th</sup> March 2022 at the Vice-Chancellor's Conference Hall.

### **2. Blood Donation :**

- Mawsynram Border Area College, Mawsynram organized a **blood donation camp** on 25<sup>th</sup> November 2021 at the college campus. 30 NSS volunteers registered and 11 donated blood.
- NSS unit of Shillong Law College organized a **blood donation camp** on 26<sup>th</sup> November 2021 at the college campus in collaboration with Pasteur Institute and Meghalaya AIDS Control Society. 22 NSS volunteers registered and 14 donors donated blood.
- As part of World AIDS Day, the NSS unit Synod College, Shillong in collaboration with Dr. H. G. Robert Hospital, Shillong organized a **blood donation camp** on 1<sup>st</sup> December 2021 at the college campus. 100 NSS volunteers registered and 30 donors donated blood.
- St. Anthony's College, Shillong organized a **blood donation camp** on 17<sup>th</sup> December 2021 at the college campus. 40 NSS volunteers registered and 20 volunteers donated blood.
- NSS Unit of Sankardev College organized **Awareness cum Blood Donation Camp** in collaboration with Regional Blood Bank, Pasteur Institute, Shillong at the College Campus, on 25<sup>th</sup> March 2022 where 10 volunteers donated blood.
- NSS Unit, Union Christian College organizing a **blood donation camp** on 29<sup>th</sup> March 2022 as part of observance of Azadi ka Amrit Mahotsav and Platinum Jubilee of the college at the college campus. Around 121 NSS volunteers registered and 78 volunteers donated blood.

### **3. Republic Day Parade Camp :**

- A *selection camp* for **Pre Republic Day Parade** was held at NEHU Campus on 16<sup>th</sup> September 2021. Around 20 NSS volunteers from different colleges participated.
- 8 students from Jaintia Eastern College, Shillong College, St. Mary's College, St. Edmund's College and BBS college attended the **Pre Republic Day Parade Camp, East Zone** at CIT, Kokrajhar alongwith Mr. M. Passah, Programme Officer, Kiang Nangbah Government College from 25<sup>th</sup> October – 3<sup>rd</sup> November 2021.
- Two NSS Volunteers from St. Edmund's College, Shillong and Jaintia Eastern College, Khliehriat participated at the **Republic Day Parade** 26<sup>th</sup> January, 2022 at New Delhi.

### **4. Workshops/Training/Orientations/Seminars:**

- A *webex meeting* on the topic: COVID Young warriors with NSS and UNICEF was held on 22<sup>nd</sup> May 2021 for all State NSS Officers, Programme Coordinators and all District Nodal Officers of North Eastern States.
- Another *webinar on Building Resilience* in times of COVID-19 was held through Google meet on 3<sup>rd</sup> June 2021 organised by William Carey University. Around 95 participants participated.



- The NSS unit of St. Mary's College, Shillong organized a ***talk on the occasion of World Food Safety Day*** on 7<sup>th</sup> June 2021.
- 10 NSS volunteers from different colleges participated at the ***Online Workshop on Human Rights*** organized by the Directorate of NSS, New Delhi on 21<sup>st</sup> February 2022.
- 15 NSS Programme Officers from different institutions participated at the two-day ***online workshop on Challenges and Opportunities*** of Youth of the North Eastern Region on 3<sup>rd</sup> and 4<sup>th</sup> March 2022 organised by RGNIYD, Sriperumbudur, Chennai.

#### 5. **NSS Day:**

- As part of the ***52<sup>nd</sup> NSS Foundation Day*** the NSS Cell, NEHU organized a Google Meet on 24<sup>th</sup> September 2021 with volunteers and Programme Officers of all colleges. The Hon'ble Vice-Chancellor, Prof. P. S. Shukla addressed the participants. Dr. Lana E. Nongbri gave a brief talk on ***"Tobacco and Related Issues-Relevance for Youth"*** This was followed by a ***tree plantation*** programme to commemorate the day at the University Campus which was attended by the Vice-Chancellor, Registrar, Programme Coordinator and staff of NSS Cell, NEHU along with few Programme Officers owing to the COVID SOPs.

#### 6. **Environmental Programmes:**

- In observation of ***World Environment Day 2021*** the NSS Cell, NEHU, Shilong organized an online poster campaign on the theme: ***"Reimagine, Recreate, Restore"*** on 5<sup>th</sup> June 2021. More than 100 NSS volunteers participated.
- A ***tree plantation*** was organized by Nengmandalgre Baptist Church in collaboration with DFO, Social Forestry Division, East and North Garo Hills along with the NSS unit of Tura Government College on 5<sup>th</sup> June 2021.
- ***Campus cleaning and tree plantation*** were also organized by the NSS unit of Loyola College on 5<sup>th</sup> June 2021. Around 30 NSS volunteers, PO and staff participated. A short cover video was done by the NSS volunteer and his companions at Loyola College, Williamnagar. (<https://youtube/vf3t9HpTzzU>)
- As part of ***Van Mahotsav week*** the NSS unit of Union Christian College conduct a ***tree plantation drive*** on the campus under the supervision of the Programme Officer along with a few staff and NSS volunteers.
- As part of ***Van Mahotsav Week*** from 1<sup>st</sup> to 7<sup>th</sup> July 2021, NSS units of various colleges conducted plantation drives at their college campus and individual residences. Around 100 NSS volunteers and NSS Programme Officers participated.
- In observance of ***Swachhta Pakhwada*** from 1<sup>st</sup> – 15<sup>th</sup> August 2021 NSS volunteers carried out cleaning drives in their respective localities.
- ***Swacchta Pledge***: Units also observed Gandhi Jayanti by taking the Swacchta pledge on 2<sup>nd</sup> October in addition to ***Pledge on nonviolence***.
- Plogging activities as part of the ***Fit India Campaign*** and cleanliness drives and painting and essay competitions were also undertaken in observance of Gandhi Jayanti.
- As part of ***"Clean India Campaign"*** NSS unit UCC conducted ***cleaning drive*** and collection of waste at Umiam Lake viewpoint on 30<sup>th</sup> October 2021. About 40 volunteers participated.
- NSS Unit of Mairang Presbyterian Science College organized an ***Awareness on Importance of Cleanliness*** followed by a ***Cleaning Drive*** at Iew Langstieh, Mairang by on 24<sup>th</sup> March 2022. More than 50 NSS volunteers participated.
- As part of ***Celebrating Rivers of India***, a River Cleaning drive was organized by the NSS unit of Lady Keane College, Shillong at Umden Arka on 10<sup>th</sup> December 2021.
- Another ***River Cleaning drive*** was organized by the NSS unit of Shillong Commerce College, Shillong at the water source of Umphrew Village on 18<sup>th</sup> December 2021.

#### 7. **Other Activities :**

- ***Poster awareness campaign*** on COVID-19 through social media was done by the NSS volunteers of St. Mary's College, Shillong on 20<sup>th</sup> May 2021.
- Another ***poster awareness campaign on COVID-19*** was also done by the NSS volunteers of BBS College, Shillong on 21<sup>st</sup> May 2021.
- A ***Poster*** to create awareness on Covid-19 in the ***Khasi language and Bhoi dialect*** was done by the NSS unit of Ri-Bhoi College, Nongpoh on 12<sup>th</sup> June 2021.

- Various NSS units observed the **International Day of Yoga** through various programmes such as A virtual training programme on the topic: “Yoga Practice: its importance and implementation during a covid-19 pandemic”, “Yoga at Home and Yoga with Family”
- On the occasion of “**International Day Against Drug Abuse and Illicit trafficking**” the NSS Unit of Union Christian College, Umsaw Khwan and the NSS unit BBS College, Shillong organized a **poster awareness** programme through online mode on 26<sup>th</sup> June 2021.
- 20 NSS volunteers of Kiang Nangbah Government College, Jowai attended a webinar on “**National Education Policy**” NEP on 4<sup>th</sup> August 2021. 100 volunteers attended.
- Around 150 NSS volunteers successfully participated in the online **Rashtragaan (Azadi Ka Amrit Mahotsav)** on 7<sup>th</sup> August 2021 organised by the Ministry of Culture.
- Volunteers also attended the online ceremony of the **National Youth Awards 2021** on 12<sup>th</sup> August 2021.
- **4<sup>th</sup> Rashtriya Poshan Maah (National Nutrition Week)** from 1<sup>st</sup> to 7<sup>th</sup> September 2021 was also observed by various units in a befitting manner.
- 3 NSS volunteers of Jaintia Eastern College, Khliehriat and Shillong College, Shillong received the **NSS Yuva Yodha Award** on 24<sup>th</sup> September 2021. The awards were given by the Krisha Foundation celebrating the 75<sup>th</sup> year of Independence.
- Unit of KNGC, Jowai conducted a **play** on the theme “**Fundamental Rights**” to mark the occasion of 75 Years of Independence in collaboration with District Legal Services Authority.
- Various colleges observed **Constitution Day** on 26<sup>th</sup> November 2021 by taking the pledge on the Preamble at their respective institutions.
- Units also observed **Vigilance Awareness Week**.
- In observance of **World AIDS Day**, an online general awareness programme for students was organized by the NSS unit of Shillong Commerce College, Shillong on 1<sup>st</sup> December 2021.
- A **poster-making competition** was organized by the NSS unit of St. Edmund’s College, Shillong in observance of World AIDS Day on 1<sup>st</sup> December 2021 at the college campus.
- An online **quiz competition** on Gandhi Jayanti and the Constitution of India was organized by the NSS unit St. Anthony’s College Extension, Byndihati on 10<sup>th</sup> December 2021 at the college campus.
- 15 NSS volunteers from St. Anthony’s College and BBS College participated in the video Shooting on 4<sup>th</sup> January 2022 at Umiam Lake in connection with the **25<sup>th</sup> National Youth Festival**.
- 20 NSS volunteers from Shillong Law College participated at the video Shooting at Laitlum, Smit on 5<sup>th</sup> January 2022 in connection with the **25<sup>th</sup> National Youth Festival**.
- NSS Programme Officers and Volunteers from different institutions participated in the online inaugural function of the **25<sup>th</sup> National Youth Festival** inaugurated by the Hon’ble Prime Minister of India on 12<sup>th</sup> January 2022.
- In observance of **National Girl Child Day**, the NSS Cell, NEHU along with Dean Student’s Welfare, NEHU, Shillong and Shillong Law College felicitated students from the adopted village of Marbisu for their achievements in their respective fields on 24<sup>th</sup> January 2022 at the Community Hall, Marbisu Village.
- 9 NSS volunteers from different institutions participated at the **District Youth parliament** at Youth Hostel on 24<sup>th</sup> February 2022.
- Mr. Ralph Z. Marbaniang, NSS Volunteer, St. Edmund’s College has secured 1<sup>st</sup> Rank in the **State Youth Parliament Festival** which was held on the 28<sup>th</sup> February 2022 at the Conference Hall of St. Anthony’s College, Shillong.
- NSS unit, BBS College, Shillong celebrated **International Women’s Day** by organizing Exhibition cum Interactive Session with the Women’s Self Help Group of Lapalang, Mawpat C&RD Block, Pragati and Sunrise group on 8<sup>th</sup> March 2022.
- In observance of **International Women’s Day**, the NSS unit of Ri-Bhoi College, Nongpoh in collaboration with the Women’s Cell, Ri-Bhoi College organized Awareness Programme on the topic “**Human Trafficking and Respecting Women**” on 8<sup>th</sup> March 2022.
- Mr. Ralph Marbaniang, NSS volunteer of St. Edmund’s College, Shillong represented Meghalaya at the **National Youth Parliament Festival 2021-2022** in New Delhi on 10<sup>th</sup> – 11<sup>th</sup> March 2022.
- Observance of **World Water Day** by NSS Unit of Kiang Nangbah Government College at the college auditorium on 22<sup>nd</sup> March 2022.

### ***Special Camping Programme:***

- The unit of Kiang Nangbah Government College, Jowai conducted a special camp at ***Kudeng Rim village, West Jaintia Hills*** from 29<sup>th</sup> November – 5<sup>th</sup> December 2021 with 50 campers.
- The unit of Jaintia Eastern College, Khliehriat conducted a special camp at ***Mukhaialong village, East Jaintia Hills***, from 12<sup>th</sup> – 18<sup>th</sup> December 2021. 50 campers participated in the camp.
- A *Special Camping* programme was organized by the NSS Unit of St. Anthony's College Extension, Byndihati at ***Larseng Village, East Jaintia Hills***, from 17<sup>th</sup> – 23<sup>rd</sup> December 2021. 100 camper participated in the camp.
- NSS unit of Durama College organized a Special Camp at ***Sakal A'duma (Sasatgre village)*** from 7<sup>th</sup> – 13<sup>th</sup> March 2022. 88 campers participated in the camp.

## NEHU DATA AND VOICE NETWORK (NDVN)

The NEHU Data and Voice Network (NDVN) Facility, commissioned in 2003 as VSAT Facility is the network backbone for all Information and Communication Technology (ICT) related services covering all academic and administrative departments, centres, service facilities along with Hostels and Residential quarters.

- **Administrative In-charge:** Prof. A.K.Chandra

- **Staff**

1. **Technical Officer:** Mr. Ivan Lyngdoh
2. **System Analyst:** Mr. S. Nongkhlaw
3. **Technical Assistant:** Mr. S. N. Sharma
4. **Field Assistant (Technical):** Mr. Kapoor Chand Choudhury (On contract)

- **NDVN Committee 2021-2023**

(Constituted vide letter No. F.34-1/Admn/NDVN/Committee/2016/156 dated 14<sup>th</sup> July, 2021)

- |   |             |
|---|-------------|
| 1. Prof. A.K.Chandra                    | Chairperson |
| 2. Mr. Sekhar Dey, TD, NIC              | Member      |
| 3. Registrar, NEHU, or Nominee          | Member      |
| 4. Finance Officer, NEHU or Nominee     | Member      |
| 5. Head, Computer Centre                | Member      |
| 6. Dr. R.L.Nongkhlaw                    | Member      |
| 7. Dr. F.R.Sumer                        | Member      |
| 8. Mr.P.P.Dey, Senior System Analyst    | Member      |
| 9. Mr. Welfrank Thongni                 | Member      |
| 10. Mr. Ivan Lyngdoh, Technical Officer | Convener    |

## Facility & Services

### A. The WIFI project of the MEITY - MHRD

1. The WIFI project of the MEITY- MHRD through ERNET is fully operational with more than 6000 registered users with LDAP authentication. The following are the major components of the Network

Sl.No.	Description	Qty
1	Core Switch - Cisco Nexus 7000, N7K-C7010 + 48 port 10/100/1000Base-T module	1
2	Zonal Switch-type2 - Cisco Nexus 5000, N5K-C56128P	4
3	Cisco WS-C2960X-24PD-L 24 port PoE 10/100/1000 Mbps Switch	50
4	Cisco WS-C2960X-24TD-L 24 port 10/100/1000 Mbps Switch	106
5	Cisco 5520, AIR-CT5520-100-K9 Wireless LAN Controller	2
6	Cisco 3702E Wireless Access Points	430
7	Cisco 3702E with external enclosure Wireless Access	17
8	Cisco UCS C240 M4S with Enterprise Linux Server-& Windows	3
9	KVM switch, Keyboard & display	1
10	5KVA online UPS with 1 hour battery backup	4
11	1KVA UPS with 30 minutes battery backup-	36
12	Network Management Software (NMS) for 100 switches - Cisco Prime Infrastructure, R-PI2X-K9	1
13	Additional licenses for 50 switches for NMS	1
14	Firewall: Appliance based Hardware firewall with minimum 4x 1Gigabit Ethernet ports - Cisco ASA 5555-X with FirePOWER services, ASA5555-FPWR-K9	1
15	All required Passive components (Racks, UTP, Fibre cables & accessories)	

### B. SERVERS

1. **HP ML 150 Gen9 2x86 64bit** processor (Intel Xeon E52620 v3); 64 GB ; 2\*600 GB SAS running NEHU Webserver (<https://www.nehu.ac.in>)
2. Dell Server running Mail (<https://mail.nehu.ac.in>) and LDAP for single sign-on authentication
3. The **HP BladeChassis C7000** host 9 Blade Servers for the following services:-
  - i. 4 Nos of Squid Proxy servers
  - ii. Examination Webserver (<http://exams.nehu.ac.in>)
  - iii. DNS Servers
4. IBM server running HP Intelligent Management Center (IMC) and Extreme's Epicenter for Network Management System.
5. IBM Server running **Avaya VisAbility Management Suite** for telephony Administration.

### C. DATA NETWORK

- a. The **National Knowledge Network (NKN) of 1Gbps link** commissioned on 19<sup>th</sup> May 2010 provides Internet access and other related applications (Internet, IP authenticated e-journals from UGC-Infonet, E-journal consortium, mail and web etc.) to all Academic and Administrative departments.
- b. The **NextGen Firewall DELL SonicWall Super Massive 9200** provides the required up-to-date network security and performance.
- c. The **DELL SonicWall Email Appliance Security (ESA)** provides enhanced security and spam filter for the mail server.

- d. The Extreme Summit **Black Diamond 8806 Core Switch** with 24 ports 1/10 Gbps Fibre connectivity and the latest MSM and OS provide connectivity, routing, and VLANs access to and from all layer 2 (L2) switches located in department buildings.
- e. All Departments are connected to the core switch with the Layer 2 Switches consisting of Extreme Summit X150-24t, Extreme Summit X150-48t, HP Procurve 1920, and Cisco SG500 with gigabit uplinks.
- f. Dedicated Internet connections with 48 port L2 HP Procurve Switches are provided to most departments having **computer laboratory facilities**.
- g. **WI-FI** connectivity in all **hostels** with Fortinet LAN-Controller-based Access , Points.
- h. **Broadband Internet connectivity** is provided to all P- Type, L- Type, Type V, Type I, V, and Type III **residential quarters** with the installation of **IPDSLAM**.
- i. The Network provides **IP CCTV** cameras connectivity across the campus.

#### **D. VOICE NETWORK**

- a. Two Avaya S8730 servers in hot-standby mode, seven Media-gateways located in NDVN, Administrative Building and Political Science Department and four G450 Media-gateways located in the School of Technology (SOT),Old Guest House, Type II and New SOT provide TDM backbone and IP enables switch arch buildings, or the voice/telephony network. All the Media-gateways are connected and registered to the Server-over-IP-Back-Bone.
- b. The **2 Mbps PRI and 2 Mbps Level-DID leased lines** from BSNL integrated with the IP –PBX Server provide incoming and outgoing telephone calls facilities to/from the network
- c. Voice Network (Telephone connectivity) is extended to all Departments, Centres, Administrative building and most residences quarters with a capacity of over 1500 telephone extensions.
- d. **2 nos of Desktop PC DELL OPTIPLEX 3060MX XCTO** having Windows 10 Pro 64 Licensed & Preloaded Intel® Core™ i5-8500 8 GB DDR4-2666,SDRAM 1 TB 7200 rpm SATA for **CUBE Software** for call logging and required billing and Remote Maintenance respectively.

#### **E. OTHER SERVICES**

- a. **Intranet and Internet connectivity** for the **Digital Repository** under the Library Digitalization Project of UPE.
- b. **Intranet and Internet connectivity** for the University Management Software (**UMS**), the ERP e-governance project running several Academic, Finance and Administration Modules (<https://erp.nehu.ac.in>)
- c. Web and sub-domain services to
  - i. Library Services (OPAC).
  - ii. Access to Computer Centre's HPC (Sulekor).
  - iii. Bioinformatics Centre - NEIHPID (North-East India Helminth Parasite Information Database (<http://nepiac.nehu.ac.in>).
  - iv. Geography Department's Automatics weather station.
  - v. Newly implementation of accessing the e-resources remotely on <https://nehulibrary.remotexs.in/user/login> with LDAP authentication

## **SOPHISTICATED ANALYTICAL INSTRUMENT FACILITY**

**Head** : Prof. T. S. Basu Baul (27-05-2020 – till date.)  
**Telephone** : 2721801(O), 9436118016 (M)  
**E-mail** : hodsaiif@nehu.ac.in, offsaif@nehu.ac.in

**Thrust Area of the Centre:** The Department of Science and Technology (DST) is providing facilities for sophisticated analytical instruments to researchers through its Sophisticated Analytical Instrument Facilities (SAIF) Programme so that the non-availability of these instruments in the user institutes may not come in the way of scientists pursuing R&D activities requiring such facilities and they are able to keep pace with developments taking place globally.

**A brief statement of activities:** SAIF carries out analysis of samples received from the scientists/institutes and provides facilities of sophisticated analytical instruments to scientists and other users from academic/Research institutions, R&D laboratories, and industries to enable them to carry out advanced research. It also acquires and develops the capability for preventive maintenance and repair of sophisticated instruments, and organizes short-term training courses/workshops on the use and application of sophisticated instruments and analytical techniques. In addition, SAIF trains technicians for the maintenance and operation of sophisticated instruments.

### **Scientific Staff:**

Sr. Scientific Officer: Dr. Taposh Chakraborty, M. Sc., Ph. D. (Physics, NEHU) (Retired on 30/09/2021)

### **Scientific Officers:**

*Dr. Begonia Dkhar, M. Sc. (Zoology, NEHU), Ph. D. (Gauhati Univ.);*

*Dr. P. S. Dkhar, M. Sc. (Biochemistry, NEHU), Ph. D. (Biophysics, NEHU);*

*Dr. S. K. Prasad, M. Sc. (Biochemistry, NEHU), Ph.D. (Env. Sc., NEHU);*

*Mr. J. M. Sohtun, M. Sc. (Biochemistry, NEHU) (Deceased on 17/11/2021)*

### **Seminars/Conferences/Symposia/extension programmes/ workshops/ Training etc.:**

A three-day online workshop on “Instrumentation and Applications of Trace Elemental Analysis and Electron Microscopy” was held from November 24/11/2021 to 26/11/21 on the GOOGLE platform. The online workshop was conducted from 24/11/21 to 26/11/21). The total number of online participants was 85.

Awareness and training program (Science week) under DST-STUTI 2021 was organized from 22/02/2022 to 28/02/22. Participants were students from the Department of Biochemistry, NEHU, Department of Chemistry, NEHU, Department of Basic Science and Social Sciences, NEHU, Department of Physics, NEHU, Kendriya Vidyalaya, NEHU, Shillong, and Botanical Survey of India, Shillong.

Mr. Joston P. Nongkynrih, Senior Technical Assistant was invited to provide hands-on training on the operation and maintenance of Transmission Electron Microscope (JEM-2100 Plus, JEOL) to a selected group of scientists, technicians and students at CSIR-North East Institute of Science & Technology, Jorhat, Assam from 3/1/22 to 6/ 1/22.

**Publications:** Nil

**Published in India:** Nil

**Published Abroad:** Nil

**Book:** Nil

### **Funds Received From Agencies other than NEHU:**

DST, Govt. of India, New Delhi Non Plan : Rs. 22,00,000.00

Plan : Rs. 50,00,000.00

### **Infrastructure Facilities:**

The following sophisticated analytical instruments are available for analytical services:

1. Scanning Electron Microscope (JEOL JSM 6360)
2. Carbon Coating Unit (Hind High Vacuum SCANCOAT SIX BT -150)
3. Transmission Electron Microscope (JEOL JEM 2100)
4. EDS (Attached with TEM, XMAX 65)
5. Graphite Furnace (Analytik Jena AG Vario 6)
6. Microscope with Image Analyser (LEICA DMRX)
7. Inductively Coupled Plasma(ICP)-AES, (Thermo Scientific™ iCAP™ 7600)

**Instrument Uses:**

<b>Instrument</b>	<b>The total number of samples analyzed</b>	<b>Total number of users utilizing the facility</b>
Transmission Electron Microscope (JEOL JEM 2100) + EDS	445	117
Scanning Electron Microscope (JEOL JSM 6360) + EDS	248	51
FT-NMR 400 MHz (BRUKER AVANCE II-400)	90	10
ICP-AES (Thermo Scientific™ iCAP™ 7600)	1368	24
Graphite Furnace (Analytik Jena AG Vario 6)	165	8
DMRX (Leica Q600)	7	2

**Total Revenue Earned:** Rs. **14,07,888.00** (Fourteen lakhs seven thousand eight hundred and eighty eight only) (External users: Rs. 9,96,835.00, Internal users: Rs. 4,11,053.00).



## SPORTS DEPARTMENT

**Director-in-Charge:** Prof. B. S .Mipun  
**Telephone :** 0364-2721381  
**Email :** nehusports@nehu.ac.in  
**Staff :** 02

Name	Designation	Telephone
Shri. N. Das	Asst. Director (Physical Education & Sports)	0364-2721383
Ms. A.R. Synnah	Basketball Coach	

The Sports Department of the University functions under the overall guidance of the NEHU Sports Board, which is chaired by the Vice-Chancellor of the University. The Sports Department is the nodal agency for organising sports activities for students of the university and affiliated colleges, and also for other stakeholders of the University.

### Activities are undertaken during 2021-22

1. To commemorate the birth anniversary of Dr. Sarvepalli Radhakrishnan as Teachers Day, the Sports Department of the University under the 'Fit India Movement' has organised a Football match on the 4<sup>th</sup> September 2021, at the Football Ground, SAI Complex, NEHU, Shillong. The match was played between VC 11, represented by the NEHU Teachers whereas Registrar 11 was represented by NEHU Non-Teaching staff members. The Registrar 11 defeated VC 11 by 4/3. The programme was inaugurated by the Registrar of the North-Eastern Hill University Dr. J. N. Nayak. In the closing ceremony, the Acting Vice-Chancellor of NEHU Prof. B. B. P. Gupta was present and gave away the prizes to the participants. Director In-charge, Sports Department Prof. B. S. Mipun and Assistant Director (Physical Education) cum Organising Secretary Shri N. Das were present among others.
2. The Department of the University organised an Indoor Tournament under 'Azadi ka Amrit Mahotsav' and 'Fit India Movement' i.e. Badminton (Men & Women) and Table Tennis (Men & Women) for students, teaching, non-teaching staff, and campus residents of the University at the NEHU Indoor Stadium from 13<sup>th</sup> to 15<sup>th</sup> September 2021. The tournament ended with a closing ceremony, where the honorable Vice-Chancellor of the North-Eastern Hill University Prof. P. S. Shukla was present and graced the occasion as Chief Guest. The Vice-Chancellor has given away the prizes to the winners.
3. The Department also organised the NEHU Volleyball (Men & Women) Tournament for students, teaching, non-teaching staff, and campus residents of the University under the 'Azadi ka Amrit Mahotsav' & 'Fit India Movement' at the NEHU Permanent Campus, Shillong from the 30<sup>th</sup> September to 2<sup>nd</sup> October 2021. Altogether 08 teams participated in the tournament. In the men's section, Sohpetbneng Boys Hostel defeated Chinnlung Boys Hostel by 3-1, and for the 3<sup>rd</sup> Place, Japfu Boys Hostel defeated the Shobit team by 3-2, and in the women's section Ache, the team defeated Atele team by 3-1. The tournament ended with a closing ceremony, where Prof. K. Debberma, Dean, School of Social Sciences, NEHU, Prof. B .S. Mipun, Director In-charge, Sports Dept. and Shri N. Das, Asst. Director (Phyl.Edu.) cum Organizing Secretary was present among others and gave away the prizes to the winners.
4. The Department of the University has organised the NEHU Tug of War (Men & Women) Competition for students, teaching, non-teaching staff, and campus residents of the University under the 'Azadi Ka Amrit Mahotsav' & 'Fit India Movement' at the NEHU Permanent Campus, Shillong from the 9<sup>th</sup> November to 10<sup>th</sup> November 2021. Altogether 09 teams participated in the tournament. In the men's section, WAP -7 team defeated Nitin Team and for the 3<sup>rd</sup> Place, the Chinglung team defeated the Arjun team and in the women's section Saramati team defeated Sensiar. The tournament ended with a closing ceremony, where Prof. B .S. Mipun, Director In-charge, Sports Dept. and Shri N. Das, Asst. Director (Phyl.Edu.) Cum Organizing Secretary was present and gave away the prizes to the winning teams.
5. The Department also organised NEHU Cricket (Men) Tournament under the 'Azadi Ka Amrit Mahotsav' and 'Fit India Movement' for students, teaching, non-teaching staff, and campus residents of the University at the NEHU Permanent Campus, Shillong from the 18<sup>th</sup> November to 25<sup>th</sup>

November 2021. Altogether 14 teams participated in this tournament. The final match was played between Rainbow 11 versus Umngot 11 where Raibow 11 defeated Umngot 11 by 193 runs and 7 wickets and for the 3<sup>rd</sup> Place, Zoology 11 defeated Saurabh 11. In this tournament, Mr. S. Sarkar, a Research Scholar from the Department of Geography, NEHU got both the reward of Man of the Tournament and Man of the Final Match. The tournament ended with a closing ceremony, where Prof. B .S. Mipun, Director In-charge, and Shri N. Das, Asst. Director (Phyl.Edu) cum Organizing Secretary was present and gave away the prizes to the winners.

6. To celebrate the 75<sup>th</sup> year of Independence and to commemorate the birth anniversary of Sardar Vallabhbhai Patel which is also celebrated as the National Unity Day “Rashtriya Ekta Diwas” on 31<sup>st</sup> October every year the Department of the University organised the Run for Unity on the 30<sup>th</sup> October 2021 for teaching, non-teaching staff and students of the University. Altogether 150 participants participated Unity Run. On the same day under the Azadi Ka Amrit Mahotsav the Sports Department along with the Department of Cultural and Creative Studies, NEHU organized the Khasi Indigenous Game “Mawpoin Competition”. The competition was played between NEHU Versus Mawlai Kynton Massar. The NEHU team defeated Mawlai Kynton Massar’s team and became winner. The event ended with a closing ceremony where Prof. J. N. Nayak, Registrar, NEHU, Shillong, Prof. B .S. Mipun, Director In-charge, and Shri N. Das, Asst. Director (Phyl.Edu) cum Organizing Secretary was present and gave away the prizes to the winners.
7. On the 4<sup>th</sup> December 2021 under the ‘Fit India Movement’, ‘Azadi Ka Amrit Mahotsav’ and as an outreach program the department has organised a Cricket Match with the neighboring locality Mawlai versus NEHU at the NEHU Permanent Campus, where Mawlai team defeated NEHU. In the match, Mr. Rudy from the Mawlai team received the reward of Man of the Match. The event ended with a closing ceremony, where Prof. B .S. Mipun, Director In-charge, and Shri N. Das, Asst. Director (Phyl.Edu) cum Organizing Secretary was present and gave away the prizes to the winners.
8. The North-Eastern Hill University Badminton (Women) Team participated in the *East-Zone Inter-University Badminton (Women) Tournament 2021-22* organised by the Royal Global University, Guwahati, Assam under the aegis of Association of Indian Universities, New Delhi from the 17<sup>th</sup> to 18<sup>th</sup> December 2021. The NEHU played extremely well and reached to the quarter-final.
9. The NEHU Football (Men) Team participated in the *East Zone Inter-University Football (Men) Tournament* organised by the Kalinga Institute of Social Science, Bhubaneswar, Odisha from the 25<sup>th</sup> to 29<sup>th</sup> December 2021. The NEHU team played its first match against MSCB University, Odisha, and won the match by 4-0. The 2<sup>nd</sup> match was played against Dibrugarh University, Assam, and won the match by 4-1 accordingly 3<sup>rd</sup> match is played between Vinoba Bhawe University, Hazaribag, Jharkhand, and won the match by 5-0. The NEHU team played its 4<sup>th</sup> match against Hamchand Yadav Vishwavidyalaya, Durg, C.G., and unfortunately lost the match by 2-1.
10. The NEHU Kickboxing (Women) Team participated in the *All India Inter-University Kickboxing (Women) Championship* organised by the Veer Bahadur Singh Purvanchal, University, Jaunpur, U.P from 24<sup>th</sup> to 26<sup>th</sup> March 2022. Miss Lorenza Songthiang from Shillong College secured 2<sup>nd</sup> place in the 60kg category of a low kick and was awarded a silver medal.
11. The NEHU Athletics (Women) participated in the *All India Inter-University Athletics (Women) Championship* organised by the Kalinga Institute of Industrial Technology, Bhubaneswar, Odisha from 21<sup>st</sup> to 24<sup>th</sup> February 2022
12. The NEHU Taekwondo (Men) participated in the *All India Inter-University Taekwondo (Men) Championship* organised by the Kerala University, Thiruvananthapuram, Kerala from 21<sup>st</sup> to 24<sup>th</sup> March 2022
13. The NEHU Karate (Women) Team participated in the *All India Inter-University Karate (Women) Championship* organised by the Kurukshetra University, Kurukshetra, Haryana from 14<sup>th</sup> to 17<sup>th</sup> March 2022.

## STUDENTS' WELFARE CELL

**Prof. R. L. Nongkhlaw**  
Dean, Students' Welfare  
Phone: (0364) 272-1181  
Email: [dsw@nehu.ac.in](mailto:dsw@nehu.ac.in)

**Dr. Benjamin F. Lyngdoh**  
Provost, NEHU  
Phone: (0364) 272-1181

The office of the Dean, Students' Welfare serves as the nodal office for student services. The major activities include management of the Halls of residences for the students, organizing academic study tours through the departments, co-ordination of students' sports and cultural activities, conduct of elections to the students union, processing/ award of scholarship/ fellowship and Students Aid Fund to UP/PG students and Research scholars, grant to outstanding students and grant of Students' Aid to economically weak students. The office also facilitates the admission of International students and is responsible for the processing of their visa applications.

**Resident in Hostel (Shillong Campus):** The number of students who were given hostel accommodation during the year 2021-22 is as follows:

Programme of Study	Gender	GEN	ST	SC	OBC	International students	Total
R.S.	MEN	65	119	15	32	4	235
	WOMEN	67	128	8	30	3	236
P.G.	MEN	59	192	12	13	1	277
	WOMEN	83	375	15	14	3	490
U.G.	MEN	130	147	23	44	2	346
	WOMEN	67	98	16	31	1	213
Total		471	1059	89	164	14	1797

**STUDENTS AID FUND:** During 2020-21, 13 students (12 Post graduate and 1 under graduate students) were awarded Students Aid Fund @ Rs. 3000/- per student per annum for Post-graduate students and @ Rs. 4000/- per student per annum for Under graduate students.

**NEHU P.G. MERIT SCHOLARSHIP:** During 2021-22, 2 Post graduate students were awarded the NEHU P.G. Merit Scholarship, out of which 19 numbers were fresh allottees and 9 were renewal allottees @ Rs.3000/- per student per annum.

**U.G.C. NON-NET FELLOWSHIP:** During 2021-22, a total of 302 Ph.D. scholars and 19 M. Phil scholars were awarded the U.G.C. Non-NET Fellowship @ Rs. 8000/- per student per month for Ph.D. scholars, and @ Rs.5000/- per students per month for M. Phil scholars.

**OTHER ACTIVITIES:** Organised The Patriotic Lori Writing Competition in collaboration with the Research Scholar's Forum, NEHU on 24<sup>th</sup> February 2022.

## STUDENTS' WELFARE CELL (TURA CAMPUS)

**Teacher-in-Charge, Students' Welfare:** Dr. Crystal Cornelious D. Marak  
**Telephone:** +91-9436742768  
**E-mail :** [crystalmarak@gmail.com](mailto:crystalmarak@gmail.com)  
**Teacher - in- Charge, Sports:** Dr. Gino A Sangma  
**Telephone:** +91-9612155002  
**Coordinator (Special Lecture Group):** Dr. Deepak Bhagat  
**Telephone:** +91-9436733357

The Office of the Teacher in- Charge Students' Welfare, North-Eastern Hill University, Tura Campus continues to provide ample scope, opportunities, and facilities for the all-around development of the students. The major activities of the office have been the coordination of students' admission in various hostels of the university; management of post-graduate students' hostels; conduct of elections of the office bearers and other representatives of students union; supervision and coordination of co-curricular, cultural and sports activities of the students; issuing of travel concession to the students for educational/industrial tours and organizing special lectures by eminent personalities etc. The numbers of Hostel occupants by Course Level and Category and Gender in the North-Eastern Hill University, Tura Campus, Tura, during the year April, 2021- March, 2022 are as follows:

Particulars		ST	SC	GEN	OBC	FOREIGN STUDENTS	TOTAL
P.G.	Men	86	-	16	-	-	102
	Women	109	04	09	-	01	123
0BC	Men	-	-	-	06	01	07
	Women	-	-	-	06		06
PhD	Men	-	01	-	01	02	04
	Women	-		-	-	-	-
Total		195	05	25	13	04	242

### Additional Students' Activities

- (a) International Yoga Day: International Yoga day was celebrated on the Campus on 21st June, 2021. The event was successful with significant participation from both teaching and non-teaching staff along with students.
- (b) P. A. Sangma Memorial Lecture: The "Fifth P. A. Sangma Memorial Lecture" was organized on 1<sup>st</sup> September, 2021. The Memorial Lecture was delivered by Dr. Sanjay K. Srivastava, Chief of the Disaster Risk Reduction Section, Information and Communications and Disaster Risk Reduction Division (IDD), United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP), United Nations Building, Rajadamnern Nok Ave, Bangkok- 10200, Thailand.
- (c) NEHU, Tura Campus Foundation Day: The 26th Foundation Day of NEHU, Tura Campus was organized on 23rd February, 2022 in NEHU Tura Campus, Chasingre.

## UGC- HUMAN RESOURCE DEVELOPMENT CENTRE

Name: Prof. H. K. Mishra\*  
Telephone: 0364-2721401/2721402; 2951343(O), 0364-2724329 (R)  
Email: hrdcnehu@gmail.com

### Faculty:

Designation	Name and Qualification	Specialization
Professor	Prof. H. K. Mishra MA, Ph.D, BHU, Varanasi, PG Diploma in Journalism & Mass Communication, UPRTOU, Allahabad	Modern Literature, Journalism, Pali Language & Literature, Linguistics & North East related culture and literature.
Associate Professor	Dr. (Mrs.) Quendarisa Kharbuli M.Sc., Ph.D. , NEHU, Shillong	Zoology (Genetics)
Assistant Professor	Dr. (Mrs.) Kuheli Biswas Das M.Sc., Ph.D., NEHU, Shillong	Zoology (Biochemical Adaptation and Metabolic Regulation)

### Thrust area of research:

The UGC-Human Resource Development Centre (UGC-HRDC) North-Eastern Hill University has been established in 2006 with the objective to fulfill the aim and goals as laid down by UGC for catchment area that is the state of Meghalaya. In these fourteen years of its existence, the Centre has extended its services to the North-East Region in particular and the country as a whole which has magnanimously benefitted its target group. Its function is to organize Refresher Courses (RCs) in specific subjects and Interdisciplinary/Multidisciplinary subjects and Faculty Induction Programmes (FIPs), for the faculty members, librarians, etc of Universities and Colleges. Though the main objective of organizing these programmes is to aid the faculty in their promotions through CAS, these programmes have also provided a platform to update and acquaint the participating teachers with the latest developments and recent trends in their field. FIPs are targeted for new entrant teachers to equip them with the teaching skills as well as other skills required within the gambit of the higher education system. Besides, UGC-HRDC conducts Short-Term Courses, Workshops and Webinars for the faculty members, research scholars and academic administrators. Lately, with the advancement in Information and Communication Technology, the Centre has taken initiatives to create awareness in MOOCs which is expected to have helped the teachers in transmitting knowledge to a wider audience especially students during the pandemic.

**Brief statement of academic activities:** The UGC-HRDC was established at NEHU in 2006 with financial assistance from the UGC. It became fully functional in March, 2007 after appointment of non-teaching staff (7 Nos.). The UGC sanctioned 3 academic posts (Professor-Director: 1; Reader: 1, and Lecturer: 1), which are filled up accordingly. The UGC-ASC was allotted three rooms for the faculty members, three office rooms, two lecture rooms, one library-cum-documentation room and a computer Laboratory in the Building for Centre of Studies.

Further, the UGC-HRDC established a Computer Laboratory with 24 state of the art PCs, a Server, two Network Laserjet Printers, a DLP Projector and a Scanner etc. The Computer Lab is used for training the participants of the OPs and RCs as well as the faculty, and students of the University in information technology with special reference to teaching and research. The UGC-HRDC has taken up a new initiative to have a one day Interactive Session of the respective departmental Refresher Course Participants with the faculty members of the concerned department on academic reforms.

During 2021-22, the UGC-HRDC conducted a total 26 nos. of programmes in the online mode i.e. 4 Faculty Induction Programmes, 8 Refresher Courses, 4 Short-Term Courses, 3 Workshops, 7 nos. of National Webinars and trained a total of 1059 participants belonging to various universities and colleges recognized by the UGC.

**Courses Conducted:** The UGC-Human Resource Development Centre conducted the following courses during the year 2021-22:

Sl.No.	Faculty Induction Programmes	Duration
1	5th Faculty Induction Programme	17th August to 16th September, 2021
2	6th Faculty Induction Programme	9th September to 8th October, 2021
3	7th Faculty Induction Programme	17th January to 15th February, 2022
4	8th Faculty Induction Programme	2nd March to 31st March, 2022

Sl.No.	Refresher Courses	Duration
1	RC in Biotechnology and Bioinformatics	23rd August to 6th September, 2021
2	RC in Material Science and Nanotechnology	24th September to 8th October, 2021
3	RC in Commerce and Entrepreneurship	20th October to 2nd November, 2021
4	RC in Chemistry	21st October to 3rd November, 2021
5	RC in Tribal Studies	1st to 16th November, 2021
6	RC in Khasi	15th to 30th November, 2021
7	RC in Tourism, Hospitality and Management	2nd to 15th December, 2021
8	RC in Biomedical	16th February to 1st March, 2022

Sl.No.	Short-Term Course	Duration
1	Short Term Course in Research Methodology	20th to 26th August, 2021
2	Short-term Course in Soft Skills	16th to 24th November, 2021
3	Short-term Course for Academic Administrators	1st to 7th December, 2021
4	Short Term Course in SPSS	8th to 14th December, 2021

Sl.No.	Workshops	Duration
1	Workshop on MOOCs, online Courses and Open Educational Resources	26th August to 2nd September, 2021
2	Workshop on E-content Development and Online Pedagogy	24th to 31st January, 2022
3	Workshop on Leadership Development Programme	8th to 14th March, 2022

Sl.No.	1 Day National Webinars	Duration
1.	Webinar on Impact of Climate Change on Hill Agriculture	06/08/2021

2	Webinar on Yoga & Wellness	11/08/2021
3	Webinar on Role of Media in Different Sphere during the COVID-19 Pandemic	13/08/2021
4	Webinar on New Education Policy 2020	08/10/2021
5	Webinar on Artificial Intelligence in Future e-Learning	26/10/2021
6	Webinar on Leadership Development for Academic Administrators of Higher Education Institutions	08/02/2022
7	Webinar on Basic Statistical Techniques in Research Methodology	22/02/2022

of MOOCs and Online Pedagogy” organized by IQAC, Rupahi College, Assam, June 3, 2021.

2. Online interactive session on “Career in Zoology” for students of Zoology organized by Lady Keane College, Shillong, June 17, 2021.

3. **One Day International Workshop** on Open Educational Resources (OER) and Massive Open Online Courses (MOOC) for Reflective Learning, organized by Department of Philosophy, Moran College, Moranhat, Charaideo Dist, Assam, India, and State College of Teacher Education (SCTE), Kohima, Nagaland, India in Collaboration with School of Education, North-Eastern Hill University (NEHU), Shillong, Meghalaya, India, August 2, 2021.

4. Refresher Course on Language, organized by UGC-Human Resource Development Centre, Jai Narain Vyas University, Jodhpur. Topic-“E-Content Development and MOODLE Environment, September 13, 2021.

5. 21-Day International Workshop cum FDP on “Innovative Techniques for Professional Development of Teachers in Higher Education” organized by the department of Education (NEHU), in collaboration with Department of Philosophy, Moran College, Assam. Sponsored by ICSSR-NERC. Topic – Professional Development of Teachers of Higher Education: Issues and Challenges, September 17, 2021

6. Refresher course on E-Resources, ICT, OER and Online Education, organized by UGC-Human Resource Development Centre, Gauhati University. Topic-“E-Content Development and MOODLE Environment, March 08 & 14, 2022.

7. **One Day National Workshop** on “MOODLE”, organized by IQAC, Women’s College Tinsukia, Assam, India, March, 11, 2022.

8. Orientation Program for New Faculty on “Career Advancement for Teacher” organized by IQAC, Synod College, Shillong, March, 30, 2022.

#### **Seminars/ Conferences/ Symposia/ Extension Programmes etc:**

**Dr.(Mrs.) Q. Kharbuli, Associate Professor, HRDC, NEHU**

##### **(a)Organized:**

1. One-Day National Webinar on “Physical Fitness & Yoga A Way To Healthy Lifestyle” (11<sup>th</sup> August, 2021)
2. 5<sup>th</sup> Faculty Induction Programme (17<sup>th</sup>August - 16<sup>th</sup>September, 2021)
3. Workshop in MOOCs, Online Courses and Open Educational Resources (26<sup>th</sup> August -2<sup>nd</sup> September, 2021)
4. One-Day National Webinar on “NEP2020: Opportunities & Challenges” (8<sup>th</sup> October, 2021)
5. Refresher Course in Tribal Studies Inter/Multidisciplinary (1<sup>st</sup> – 16<sup>th</sup>November, 2021)
6. Short Term Course for Academic Administrators (1<sup>st</sup> – 7<sup>th</sup> December, 2021)
7. Short Term Course in SPSS (8<sup>th</sup>– 14<sup>th</sup> December, 2021)
8. 7<sup>th</sup> Faculty Induction Programme (17<sup>th</sup>January - 15<sup>th</sup>February, 2022)
9. Workshop in E-Content Development and Online Pedagogy (24<sup>th</sup>– 31<sup>st</sup> January, 2022)

##### **(b)Attended:**

**Invited Lecture: Dr. Quendarisa Kharbuli**

1. **One Day National Workshop** on “Preparation

**Dr.(Mrs.) Kuheli Biswas Das, Assistant Professor, HRDC, NEHU**

**a) Organized:**

- i. Convener in the *One Day National Webinar on “Role of Media in Different Spheres during the COVID-19 Pandemic”*, organized by UGC-Human Resource Development Centre, NEHU, Shillong on 13<sup>th</sup> August, 2021.
- ii. Convener in the *One Day National Webinar on “Introduction to Artificial Intelligence in Future e-Learning”*, organized by UGC-Human Resource Development Centre, NEHU, Shillong on 26<sup>th</sup> October, 2021.
- iii. Convener in the *One Day National Webinar on “Leadership Development for Academic Administrators of Higher Education Institutions”*, organized by UGC-Human Resource Development Centre, NEHU, Shillong on 8<sup>th</sup> February, 2022.
- iv. Convener in the *One Day National Webinar on “Basic Statistical Techniques in Research Methodology”*, organized by UGC-Human Resource Development Centre, NEHU, Shillong on 22<sup>nd</sup> February, 2022.

**b) Attended:**

- i. Lectured delivered as resource person on the topic “Aspects of Personality Development in the Digital World” in the 5<sup>th</sup> *International Workshop on “Personality Development in the Digital World”* jointly organized by Department of Education, IQAC & Department of Adult and Continuing Education, North-Eastern Hill University, Shillong in collaboration with the

Department of Lifelong Learning, Alagappa University, Karaikudi, Tamil Nadu, India and the Department of Psychology, Handique Girls’ College, Guwahati, Assam, India on 30<sup>th</sup> October, 2021.

**Funds Received from Agencies Other than NEHU:** The UGC-Human Resource Development Centre was sanctioned **Rs. 40.00** Lakhs for the year 2021-22 from the University Grants Commission, New Delhi, for conducting Refresher Course /Faculty Induction Programmes, Short-Term Courses/Workshops/National Webinars in approved subjects and for meeting other expenditures.

**Infrastructure added during the period:** Aquaguard (1 no.), XP-Pen Tablet (1 no.), Converter (1 no.), Microm 240 GB SSD (3 nos.), Blow Hot room heaters (1 no.), OFR Heaters (1 no.), 2 TB External Hard Disk (1 no.), Projector Screen (1 no.), 4K TV (1 no.), Converter (3 nos.), Laptop (1 no.), Smartscreen (1 no.), Library books (19 nos.).

**Other Activities:**

**A. Dr. (Mrs.) Q. Kharbuli, Associate Professor, HRDC, NEHU: Resource Person.**

1. Life member of Indian Society for training and development, India.
2. Interaction Meeting with Coordinators of Refresher Courses (22<sup>nd</sup> July, 2021; Resource Person 29<sup>th</sup> July, 2021)
3. Interaction Webinar on Mentorship Guidelines with University Grants Commission, New Delhi.
4. Department SWAYAM Mentor

**Resource persons for following:**

Lecture(s)/Hands On/Discussion/	Name of the Programme/Course/Workshop
Preparation of Research Proposal (Minor Research Project) Concept of Measurement (Activity included) Levels of Measurement (Activity included) Preparation of Questionnaire Preparation of Proposal for E-Content Development SWAYAM Central: Awareness for professional development MOODLE Environment: Introduction Presentation Tube: An Online Delivery Tool Academic Performance Indicator (API) 2018 Regulation for College and University Teachers	5th Faculty Induction Programme (17th August - 16th September, 2021)
Minor and Major Research Projects Concepts of Measurement Levels of Measurement Performance Appraisal for Teachers of Higher Education Preparation of Proposal for E-Content Development SWAYAM Central: Awareness for professional development MOODLE Environment Presentation Tube: An Online Delivery Tool Role and Responsibilities of HRDCs	6th Faculty Induction Programme (9th September – 8th October, 2021)
Preparation of Research Proposal (Minor Research Project)	7th Faculty Induction Programme



Research Process Concept of Measurement (Activity included) Levels of Measurement (Activity included) Preparation of Questionnaire Academic Performance Indicator (API) 2018 Regulation for College and University Teachers Preparation of Proposal for E-Content Development SWAYAM Central: Awareness for professional development MOODLE Environment: Introduction (Administrator), Resources Presentation Tube: An Online Delivery Tool	(17th January - 15th February, 2022)
Minor and Major Research Projects Concepts of Measurement Levels of Measurement Building Leadership Qualities through Teacher Training Programmes: Role of HRDCs Performance Appraisal System in the Institute of Higher Education Preparation of Proposal for E-Content Development SWAYAM Central: Awareness for professional development MOODLE Environment (Activities & Resources) Presentation Tube: An Online Delivery Tool	8th Faculty Induction Programme (2nd – 31st March, 2022)
Preparation of E-Content using the four quadrant approach for online courses in Tribal Studies	Refresher Course in Tribal Studies Inter/Multidisciplinary (1st – 16th November, 2021)
Preparation of E-Content Development for Online courses in Khasi	Refresher Course in Khasi (15th – 30th November 2021)
Drug Delivery System: Trends and Advances	Refresher Course in Biomedical (16th February – 1st March, 2022)
Preparation of Proposal for E-Content Development SWAYAM Central: Awareness for professional development MOODLE Environment: Introduction Presentation Tube: An Online Delivery Tool	Workshop in MOOCs, Online Courses and Open Educational Resources (26th August - 2nd September, 2021)
Preparation of Proposal for E-Content Development to SWAYAM MOOCs SWAYAM Central: Awareness for professional development MOODLE Environment: Administrator, Resources Presentation Tube: An Online Delivery Tool	Workshop in E-Content Development and Online Pedagogy (24th – 31st January, 2022)
Building Leadership Qualities through Teacher Training Programmes: Role of HRDCs Performance Appraisal System in the Institute of Higher Education	Workshop in Leadership Development Programme (8th - 14th March, 2022)
Concepts of Measurement Levels of Measurement	Short Term Course in Research Methodology (20th - 26th August, 2021)
Is Soft Skills a critical Element in On-line Teaching Environment	Short Term Course in Soft Skills 16th – 24th November, 2021
Introduction to SPSS Chi-square Test Loglinear Analysis Logistic Regression	Short Term Course in SPSS (8th – 14th December, 2021)

**B. Dr. (Mrs.) K. B. Das, Assistant Professor, HRDC, NEHU:**

- Guest Faculty**, Department of Zoology, NEHU, Shillong for
  - M.Sc. 2<sup>nd</sup> Semester, 2021 (Animal Physiology, ZOO-C: 201)
  - M.Sc. 3<sup>rd</sup> Semester, 2021 (Aquatic Biology and Fisheries, ZOO-C: 303)
- Life Member of Council for Educational Administration and Management (CEAM), India.
- Resource person** in the following programmes/courses/workshops:

Programmes/Courses	Title of Lectures
5th Faculty Induction Programme (17th August – 16th September, 2021)	Time Management for Academic Proficiency Google Classroom: Emphasis on Google Forms Screen Castify for Teachers Working with Others
Workshop on MOOCs, Online Courses & Open Educational Resources (26th August – 2nd	Google Classroom: Emphasis on Google Forms Screen Castify for Teachers

September 2021)	
6th Faculty Induction Programme (9th September – 8th October, 2021)	Working with Others: Working in Teams and Team Building Time Management for Academic Proficiency Getting Started with Google Classrooms Google Forms: Creating, Editing and Distributing; ScreenCastify for Teachers Assessments and Learning Outcomes
Short-Term Course in Soft Skills (16th – 24th November, 2021)	Effective Presentation Skills Time Management for Academic Proficiency Team Work in an Academic Environment
7th Faculty Induction Programme (17th January – 15th February, 2022)	Google Classroom: Emphasis on Google Forms ScreenCastify for Teachers
2nd Workshop on E-content Development and Online Pedagogy (24th – 31st January, 2022)	Google Classroom: Emphasis on Google Forms Screen Castify for Teachers
Workshop on Leadership Development Programme (8th -14th March, 2022)	Techniques of Time Management at Work Place Working with others: Working in Teams and Team Building
8th Faculty Induction Programme (2nd – 31st March, 2022)	Tools of Video Making: Screen Castify Techniques of Time Management at Work Place Working with others: Working in Teams and Team Building Getting Started with Google Classrooms Google Forms: Creating, Editing and Distributing Assessments and Learning Outcomes

University, Shillong, on 11<sup>th</sup> August, 2021.

d) **Coordinated** the following Programmes/ Courses/ Workshops, as mentioned below:

- Short-Term Course in Research Methodology (20th - 26th August, 2021)
- 6th Faculty Induction Programme (9th September -8th October, 2021)
- Short-Term Course in Soft Skills (16<sup>th</sup> – 24<sup>th</sup> November, 2021)
- Short-Term Course for Academic Administrators (1st - 7th December, 2021)
- Workshop on Leadership Development Programme (8th -14th March, 2022)
- 8th Faculty Induction Programme (2nd March - 31st March, 2022)

e) **Attended/participated** in the following online courses/webinars:

- National Virtual Workshop on “*Preparation of MOOCs and Online Pedagogy*” organized by the IQAC, Rupahi College, Rupahi, Nagaon, Assam, on 3<sup>rd</sup> June, 2021.
- One day International Webinar on “*Biodiversity of Meghalayan Caves*” organized by the Department of Zoology, Lady Keane College, on 8<sup>th</sup> July, 2021.
- One day National Webinar on “*Physical Fitness & Yoga – A Way to Healthy Lifestyle*” organized by the UGC-Human Resource Development Centre, North-Eastern Hill

➤ One day National Level Panel Discussion on “*National Education Policy (NEP) 2020*”, organized by the North-Eastern Hill University Teachers’ Association (NEHUTA), North-Eastern Hill University, Shillong in collaboration with the Department of Education, NEHU, Shillong, on 14<sup>th</sup> September 2021.

➤ **Chaired** a technical session in the International Conference on “Gender Equity for Sustainable Development” organized by the Department of Education, NEHU, Shillong in collaboration with the Council of Educational Administration and Management (CEAM), India, from 11<sup>th</sup> – 12<sup>th</sup> November, 2021.

## UNIVERSITY MANAGEMENT SYSTEM (UMS)

Project Manager : Prof.A.K.Chandra

Telephone : 0364-2722622(O)

E-mail : akchandra@nehu.ac.in, [ums@nehu.ac.in](mailto:ums@nehu.ac.in)

Assistant Project Manager: Mr. P. P. Dey (Senior System Analyst, Computer Centre)

Technical Officers, UMS (Maintenance Cell): 1. Ms. Friedalin S. Cajee 2. Mr. Subhendu De

The University Management System (UMS) has been functioning since 2014 when the HR (Establishment) and Finance modules were used for the payroll of NEHU teaching and non-teaching staff. It is an ERP (Enterprise Resource Planning) initiative under the e-Governance program of Govt of India.

At present, UMS has the following modules in place.

1. Establishment Module
  - a. HR & Leave Management
2. Finance Module
  - a. Fund
  - b. Payroll
  - c. Project
  - d. Accounting
3. Students Affair Module
  - a. DSW
  - b. Student Portal (Course & Exam Registration, Hostel, Fee payment)
  - c. Hostel
  - d. Fee Payment Module (Both Academic fees and Hostel fees)
4. Academic Module
  - a. Academic Matters
  - b. Admission Matters
5. Examination Module
  6. Purchase & Stores
  7. Guest House
  8. Administration Module
    - a. General administration
    - b. Transport
    - c. DAK
    - d. Asset
    - e. Estate
6. Medical Module
  - a. Patients Details
  - b. Doctors Details
  - c. Medicine Details
  - d. Treatment Records
  - e. Blood/ Urine Test Records
7. Conference Module
  - a. Conference
  - b. Event Management details
8. Library Module - NOC to Students

**Support and Services:** The system has been used for Students' online admission, Students' portal for Academic and Hostel Fee payments, Course Registration, and Hall Ticket generation; PG/ B. Tech./BALLB/B.Ed. examination result processing, Salary Processing including generation of salary slips, Employees Loan/Fund processing, Accounting management, Employee increments, promotions, and Departmental transfers, and Generation of Admitted student data.

The UMS is under an Annual Maintenance Contract with M/s Campus Labs since October'2018.

There are two Servers for the UMS which are installed in the NEHU campus with NDVN Cell. The UMS service is accessible through the campus network backbone provided by NDVN. It is also accessible via the internet.

# XI

## Appendix A

### MEMBERS OF THE UNIVERSITY COURT

*(Constituted under Clause 10A of the University Statute)*

*(All members of the Court, other than ex-officio members and members representing students, shall hold office for a term of three years)*

**10A. (1)** The Court shall consist of the following members, namely;

Ex-Officio members:

- |                                       |   |   |
|---------------------------------------|---|---|
| (i) Chancellor, Ex-officio            | - | Vacant  |
| (ii) Vice-Chancellor, Ex-officio      | - | Prof. Sri Krishna Srivastava<br><b>(w.e.f.24.09.2015 Up to 26.7.2021)</b> |
|                                       | - | Prof. Prabha Shankar Shukla<br><b>(w.e.f.27.07.2021 till date)</b>        |
| (iii) Pro-Vice-Chancellor, Ex-officio | - | Prof. Henry Lamin<br><b>(w.e.f.24.09.2015 Up to 26.7.2021)</b>            |
| Pro-Vice Chancellor Tura Campus       | - | Prof. G. Singaiah<br><b>(w.e.f.24.09.2015 Up to 26.7.2021)</b>            |
| (iv) Dean of Students' Welfare,       | - | Prof. S. Umdor  |
| (v) Registrar, Ex-officio             | - | Dr. J. N. Nayak   |
| (vi) Librarian, Ex-officio            | - | Dr. F. R. Sumer (In-Charge)   |
| (vii) Proctor, Ex-officio             | - | Dr. L. Cajee  |
| (viii) Finance Officer, Ex-Officio    | - | Shri L. M. Lyngrah  |

#### **Representatives of Schools and Departments**

- |  |  |
|--|--|
| (ix) Deans of Schools of Studies, Ex-officio | 1. Dean,<br>School of Humanities                                     |
|  | 2. Dean,<br>School of Life Sciences,                                 |
|  | 3. Dean,<br>School of Physical Sciences,                             |
|  | 4. Dean, School of Social Science,                                   |
|  | 5. Dean,<br>School of Economics,<br>Management & Information Science |
|  | 6. Dean,<br>School of Human and<br>Environmental Sciences            |
|  | 7. Dean, School of Technology  |
|  | 8. Dean, School of Education   |

(x) All Professors, ex-officio,

ALL PROFESSORS

(xi) Heads of Departments, who are  
not Professor, Ex-Officio

1. Department of Information Technology,  
NEHU, Shillong
  2. Department of Basis SC. & Social Sciences,  
NEHU, Shillong
  3. Department of Journalism &  
Mass Communication,  
NEHU, Shillong. (Teacher In-Charge)
  4. Depart of Tourism &Hotel management,  
NEHU, Shillong.
  5. Department of Bio-Medical Engineering,  
NEHU, Shillong
  6. Department of Nano Technology,  
NEHU, Shillong.(Teacher In-Charge)
  7. Department of  
Architecture, NEHU, Shillong  
(Teacher in Charge)
  8. Department of  
Energy Technology, NEHU, Shillong.
1. Department of Garo,  
NEHU Tura Campus,Tura
  2. Department of Computer Application,  
NEHU Tura Campus,Tura.  
(Teacher In-Charge)
  3. Department ofHistory & Archaeology,  
NEHU Tura Campus,Tura  
(Teacher In-Charge)
  4. Department of  
Agri Bussiness Management &Food  
Technology, NEHU Tura Campus, Tura,  
(Teacher In-Charge)

**(xii) Two Associate Professors who are**  
not Head of Department and two  
Asstt. Professor to be appointment  
by rotation in the Manner prescribed  
by Ordinance.

**Associate Professor**

1. Dr. Aseem Sinha  
**w.e.f.22.08.2021 up to 21.8.2024**  
Department of BSSS,  
NEHU, Shillong.

2 Dr. L. Cajee,  
**w.e.f 03.03.202 up to 2.05.2022**  
Department of Geography,  
NEHU, Shillong.

**Assistant Professor**

1. Dr. P. K. Ambasht  
**(w.e.f.3.03.20 up to 18.07.2022)**  
Deptt of Biochemistry, NEHU, Shillong

2. Smti. J. R. Marak,  
**w.ef. 25.07.2019 up to 18.07.2022**  
Department of Garo,

**(xiii) Seven Principals of Colleges in the State of Meghalaya**

**w.e.f. 25.02.2020 up to 24.02.23**

1. Principal, Shillong Law College,  
E. K. Hills Dist. Meghalaya,  
Dhankheti – 793001.
2. Principal,  
Synod College,  
E. K. Hills Dist. Meghalaya,  
Shillong – 793002., Meghalaya.
3. Principal,  
Kiang Nangbah Govt. College,  
West Jaintia Hills Dist.  
Jaintia -793150,
4. Principal,  
Mendipathar College,  
Mendipathar, North Garo Hills Dist.794112.  
Meghalaya.
5. Principal,  
Sengkhasi College,  
East Khasi Dist,  
Shillong-793002, Meghalaya.
6. Principal,  
Tura Law College,  
West Garo Hills District, New Tura P.O.  
Araimile, Tura- 794003
7. Principal,  
Nongstoin College,  
West Khasi Hills District,  
Nongstoin -973119, Meghalaya.

**(w.e.f 10.08.2018 up to 10.08.2021)**

**(xiv) Four teachers from affiliated Colleges nominated by the Visitor on the recommendation of the Vice-Chancellor**

1. Dr.(Ms) Berylida Hedi Patti Buam,  
College of Teachers of Education,  
Shillong.793003
2. Dr. Padmini Bhattacharjee,  
Associate Professor,  
St.Anthony`s College, Shillong.
3. Dr.Ashutosh Dey,  
Associate Professor,  
Deptt. of Economics,  
Ri BhoiCollege,  
Nongpoh,(Meghalaya).
4. Dr.(Mrs) E.Kharkongor,  
Associate Professor,  
Deptt. of Economics,  
Shillong College

**(w.e.f.11.08.2021 vacant till date)**

<p>Representatives of the parliament. (xv) Six representatives of the parliament, four to be nominated by the Speaker of the Lok Sabha from among the members thereof and two to be nominated by the Chairman of the Rajya Sabha from among the member thereof. However, in the event that a member of Parliament becomes a Minister or Speaker /Deputy Speaker/Lok Sabha or Deputy Chairman, Rajya, or Deputy Chairman, Rajya Sabha, her/his nomination/election on Statutory Body shall be deemed to have been terminated</p>	<p><b>Lok Sabha w.e.f 24. 10 2019 till 27.08 2021 vacant</b> w.e.f. 28.08 2021 up to 27.08.2024.</p> <ol style="list-style-type: none"> <li>1. Abdul Khaleque,Vilage Bartari, P.O, Chandmama,P.S.Kalgachia,Dist.Barpetta-781319, Assam. Delhi Adress-B-503,Gomti Apartment,M.S.flat,B.K.S Marg. New Delhi-110001</li> <li>2. Dr.Rajdeep Roy, Lochan,Bairagi Road Bilpar Silchar-788001,Assam. Delhi Adress- 77,South Avenue,New Delhi-110004</li> <li>3. Smti.Agatha K.Sangma, Walbakgri ,P.O,Aramile, New Tura,West Garo Hills,Meghalaya-737113 Delhi Address- 25.Ferozeshah Road New Delhi- 110001</li> <li>4. Shri Indra Hang Subha,Hee Patal,P.O,Hee Bazar, P.S.Dentam,West Sikkim-737113. Delhi Adress – Flat No.B-104,M.S Flats,Gomti, Apartment,B.K.S Marg,New Delhi—110001</li> </ol> <p><b>Rajya Sabha Members( w.e.f 09.08.2019)</b> Up to 08.08.2022</p> <ol style="list-style-type: none"> <li>1. Shri. Kamakhya Prasad Tasa,Garamur Dulia Goan, P. O. Jorhat Engineering College, Jorhat, Assam - 785007.</li> <li>2. Shri. Rakesh Sinha, Village, Manserpur,P.O.Lakhminia, Dist.Begusarai(Bihar)-851211.</li> </ol> <p><b>With effect from 09.08.2022 vacant till date.</b></p>
<p>Persons representing learned professions and special interests (xvi) Ten members representing learned professions and special interests including representatives of industry, commerce, trade unions, banking, and agriculture, to be nominated by the Visitor</p>	<p><b>w.e.f 16.08.2018 up to 15.08.2021</b></p> <ol style="list-style-type: none"> <li>1. Ms. Suman Lata Yadav, Associate Professor, Hindi Government Girls College, Rewari-123401</li> <li>2. Dr. Narenda Deo Goswami Registrar i/c Dr.Shyam Prasad Mukherjee University, Ranchi – 834008. Email: <a href="mailto:registrar@dspuranchi.ac.in">registrar@dspuranchi.ac.in</a></li> <li>3. Dr.ArunSinha,Medical And Process Chemistry, CSIR –Central Drugs Research Institute, Lucknow -226031. Email:aksinha@cdri.res.in</li> <li>4. Dr.Satish Kumar Professor, Deptt of Political Science, D3,Plot No.421, Sector 4Vaishali, Gaziabad UP-201010. Mahendargarh Haryana - 123001. Email: <a href="mailto:SatishKsingh@hotmail.com">SatishKsingh@hotmail.com</a> <a href="mailto:singhsatis@gmail.com">singhsatis@gmail.com</a></li> </ol> <p><b>with effect from16.08.2021 Vacant till date.</b> <b>w.e.f. 5.3.2 up to 04.03. 2022</b></p> <ol style="list-style-type: none"> <li>5. Prof. Khumukcham Tomba Singh Professor, Department of Commerce, Manipur University, Manipur-795003 Email: <a href="mailto:kctomba@gmail.com">kctomba@gmail.com</a></li> <li>6. Dr. Pardeep Kumar, Scientist, Department of Vegetable Science &amp; Floriculture, College of Agriculture, Chaudhary Sarwan Kumar Himachal Pradesh Krishi Vishwavidyalaya, Palampur-176062 Email: <a href="mailto:pardeepsangla@gmail.com">pardeepsangla@gmail.com</a></li> </ol>



	<p>7. Dr. Aarti Srivastava, Associate Professor, Department of Higher &amp; Professional Education, NIEPA, New Delhi-110016</p> <p>8. Shri.AribamBrajakumar Sharma, Retd.Selection Grade Lecturer, D.M.College (Sc), Imphal (Social Worker)-795001.</p> <p>9. Dr.Dilip Nath, In-charge, Krishi Vigyan Kendra, Dima Hasao, Assam and former Managing Trustee Vivekananda SevaNyas (VISEN), Tripura, Dima Hasao, Assam-788819.</p> <p>10. Prof. V.Muralidhara Sharma, Vice Chancellor, Rashtriya Sanskrit Vidyapeetha, Tirupati. Tirupati-517501.Email: <a href="mailto:rsvp@yahoo.com">rsvp@yahoo.com</a></p> <p><b>With effect from 05.03.2022 till date vacant</b></p>
xvii) Six representatives of the Registered Graduates of the University are to be elected in the manner prescribed by the Ordinance Representatives of Students	Vacant
xviii) Four students to be nominated by the Vice-Chancellor, for a period of one year.	<p>w.e.f 16.11.2020 15.11.2021</p> <p>1. Sangeeta Das ,Ph.D, Department of ECE, NEHU,Shillong.</p> <p>2. Bandita Saikia, Ph.D, Department of Linguistics, NEHU, Shillong.</p> <p>3. DarilangS.Lyngdoh, PG, Department of ECE. NEHU, Shillong.</p> <p>4. AyanovLekharu, UG, Department of Energy Engineering, NEHU, Shillong.</p> <p>w.e.f 10.01.2022 to 09.01.2023</p> <p>1. Ms. Ritu Sharma, Deptt. Zoology,NEHU,Shillong.</p> <p>2. Ms. Iadakmen Shisha Marbaniang, Deptt. Of Chemistry,NEHU,Shillong.</p> <p>3. Ms.Phibanshanlang Nongpluh, Deptt. Of Education, NEHU, Shillong.</p> <p>4. Alexa B. Tham , Deptt of Cultural &amp; Creative Studies, NEHU,Shillong.</p>

Other Members (xix) (a) Not more than five persons are to be nominated by the visitor.	<p><b>w.e.f 16.08.2018 up to 15.08.2021</b></p> <ol style="list-style-type: none"> <li>1. Prof Bechanlal, Deptt of Zoology, Institute of Science, Banaras Hindu University, Varanasi 221005. Email: <a href="mailto:lalbhu@yahoo.co.in">lalbhu@yahoo.co.in</a> Mobile no: 919336938955</li> <li>2. Prof. Hijam Tombi Singh, V.C, of University Bhagavata Culture &amp; Hare Krishna Road Land Airport Road, Imphal Manipuri -795001. Email: <a href="mailto:tmbsingh@gmail.com">tmbsingh@gmail.com</a> Mobile no: 09450587733</li> <li>3. Prof. Suneet Dwivedi, Banerjee Centre of Atmospheric and Ocean Studies, University of Allahabad, Allahabad Uttar Pradesh – 211002 Email: <a href="mailto:Suneetdwivedi@gmail.com">Suneetdwivedi@gmail.com</a> Mobile no: 09412596137</li> <li>4. Prof. Ashoi Mittal, Deptt. of Economics, Aligarh Muslim University UP -202002 Email: <a href="mailto:askmittal@yahoo.com">askmittal@yahoo.com</a></li> <li>5. Prof. Madhoolika Agarwala, Professor and Head, Deptt of Botany, Banaras Hindu University (BHU) Varanasi-221005 Email: <a href="mailto:madhooagrawal@gmail.com">madhooagrawal@gmail.com</a> Mobile no: 9415628573</li> </ol> <p><b>With effect from 16.08.2021 vacant to date.</b></p>
(xix) (b) Not more than two persons to be nominated by the Chancellor	Vacant
(xix) (c) Not more than two persons to be nominated by the Chief Rector	<p><b>w.e.f -3.04.2018 upto 02.04.2021</b></p> <ol style="list-style-type: none"> <li>1. Dr. H. Iangrai, Associate Professor, Shillong College. Smti. A. Ali Nagi, w.e.f 11.10.2021 to 10.10.2024 Joint Director of Higher &amp; Technical Education, (T) Govt. of Meghalaya, Shillong. 793001</li> </ol> <p><b>w.e.f. 01.05.2 up to 30.04. 2022</b></p> <ol style="list-style-type: none"> <li>2. Shri O.R. Challam, Retd Senior Associate Professor, History, Panaliar Jowai WJHD-793150 Email: <a href="mailto:orchallam@gmail.com">orchallam@gmail.com</a> Mobile no: 8794535589, 9436106481.</li> </ol> <p><b>(w.e.f 1.05.2022 vacant till date.)</b></p>
Representatives of the Non-Teaching Staff  (xx) Two members of non-teaching staff to be nominated by the Vice-Chancellor	<p><b>(w.e.f 15.09.2022 to 15.09 2025)</b></p> <ol style="list-style-type: none"> <li>1. President, Non-Teaching Staff Association NEHU, Shillong.</li> <li>2. General Secretary, Non-Teaching Staff Association, NEHU, Shillong.</li> </ol>

Representatives of State Governments (xxi) Two representatives of the State of Meghalaya to be nominated by the State Government concerned.	<p>1. Smti .D.Pde, (<b>w.e.f 07.08.2019 to 06.08.2022</b>) Kiang Nangbah College, Jowai -793150.</p> <p><b>w.e.f 21.10.2019 upto 22.10.2022</b></p> <p>2. Shri.S.Bhattacharjee, Joint Director of Higher &amp; Technical Education Meghalaya.</p>
Remaining Members of the Executive Council (xxii) Members of the Executive Council, who is not otherwise members of the Court: for a period of 3 years	<p>1. Principal ,<b>w.e.f. 10-6-2020 3years</b> Sngap Syiem College, South West Khasi Hills District</p> <p>2. Principal, Ri-Bhoi College, <b>w.e.f 21.10.2019 3years</b> Nongpoh College.</p> <p>3. Director, <b>w.e.f.22.7.2019 3 years</b> Higher &amp; Technical Education, Government of Meghalaya.</p>
Secretary Ex-Officio	Registrar.

## Appendix B

### MEMBERS OF THE EXECUTIVE COUNCIL (Constituted under Clause 11(I) of the Statutes of the University)

*(All the members of the Executive Council, other than ex officio members, shall hold office for a term of three years)*

Clause 1(i)	1.	Prof. Sri Krishna Srivastava Vice-Chancellor, NEHU. Fax No: 03642550076 Ph.No: 2721001/2721002/2550074(R) <b>e-mail: <a href="mailto:vcnehu@nehu.ac.in">vcnehu@nehu.ac.in</a></b>	-	Chairman (upto 26.07.2021)
		Prof.Prabha Shankar Shukla Vice-Chancellor, NEHU, Shillong Fax No: 03642550076 Ph.No: 2721001/2721002/2550074(R) <b>e-mail: <a href="mailto:vcnehu@nehu.ac.in">vcnehu@nehu.ac.in</a></b>	-	Chairman (w.e.f 27.07.2021)
Clause 1(ii)	1.	Prof.Henry Lamin Pro-Vice-Chancellor NEHU, Campus, Shillong Mob.No: 9436103856 <b>e-mail: <a href="mailto:henrylamin30492@gmail.com">henrylamin30492@gmail.com</a></b>	-	Member (upto 26.07.2021)
	2.	Prof. G.Singaiah Pro-Vice-Chancellor NEHU, Tura Campus, Tura Mob.No: 9485190779 <b>e-mail: <a href="mailto:gsingaiah@yahoo.com">gsingaiah@yahoo.com</a></b> <b>e-mail: <a href="mailto:nehutura@rediffmail.com">nehutura@rediffmail.com</a></b>	-	Member (upto 26.07.2021)
Clause 1(iii)	1.	Prof. S. Dkhar Dean, School of Humanities, NEHU, Shillong.	-	Member (upto 30.11.2021)
		Prof. A.P.Pati, Dean, School of Economics Management and Information Sciences, NEHU, Shillong.	-	Member (w.e.f.01.12.2021)
	2.	Prof.C.Nongbri, Dean, School of Education, NEHU, Shillong	-	Member (w.e.f. 09.11.2020)
	3.	Prof.L.J.Singh, Dean, School of Technology, NEHU, Shillong.	-	Member (w.e.f.6.01.2021)
	4.	Prof.K.M.Rao, Dean, School of Physical Sciences, NEHU, Shillong	-	Member (w.e.f. 6.01.2021)
Clause 1(iv)	1.	Prof.B.B.P.Gupta, Deptt. of Zoology, NEHU, Shillong.	-	Member (w.e.f.23.07.2021)
Clause 1(v)	1.	Dr.B.K.Gupt, Department of Statistics,	-	Member (up to 30.09.2021)

	NEHU, Shillong.	
	Dr.L.Cajee, Deptt. of Geography, NEHU, Shillong.	- Member (w.e.f.01.10.2021)
	Dr. Aseem Sinha, Department of Basic Sciences and Social Sciences, NEHU, Shillong.	- Member (w.e.f. 02.05.2022)
Clause 1(vi) 1.	Principal, Ri-Bhoi College, Nongpoh-793102 Ri-Bhoi District, Meghalaya.	- Member (up to 26.09.2022)
2.	Principal, Sngap Syiem College, South West Khasi Hills District, Mawkyrwat-793114	- Member (w.e.f.13.05.2020)
Clause 1(vii) 1.	Director, Higher & Technical Education, Govt. of Meghalaya, Shillong. Fax No: 22286015 Ph: 2226015 (M) 9485034201.	- Member
Clause 1(viii)	Visitor's Nominee	- <b>VACANT</b>
Clause 1(ix)	Visitor's Nominee	
1.	Prof. Joram Aniya Tana, Department of Hindi, Dera Natung Govt.College, Itanagar, Arunachal Pradesh-791113.	- Member (w.e.f.29.12.2021)
2.	Prof.(Dr) Bibhash Chandra Das Purkayastha, H.No.21.Ananda Nagar Lane-3, Adabari Guwahati-781012.	- -do-
3.	Prof.Ganga Prasad Parsain, Vice-Chancellor, Tripura University, Tripura-799022.	- -do-
4.	Prof. Sudeshna Bhattacharjya, Department of Sanskrit, Gauhati University, Guwahati-781014.	- -do-
1.	Finance Officer, NEHU, Shillong. Ph. No: 2721021/2721020 Fax No: 03642551153	- (Permanent Invitee)
2.	Registrar NEHU, Shillong. Ph. No: 2721011/2721012/(R)2551909 Fax No: 03642551634	- (Secretary)

## Appendix C

### MEMBERS OF THE ACADEMIC COUNCIL

#### (Constituted under Clause 14(1) of the Statutes of the University)

*(All the members of the Executive Council, other than ex officio members, shall hold office for a term of three years)*

Structure of the AC	Name of Persons nominated /appointed
14. (1) The Academic Council shall consist of the following members, namely: Ex-officio members	
(i) Vice-Chancellor, Chairman	Prof. Sri Krishna Srivastava (up to 26/7/2021) Vice-Chancellor NEHU, Shillong. Prof. Prabha Shankar Shukla - (wef 27/7/21 till date) Vice-Chancellor, NEHU, Shillong
(ii) Pro-Vice-Chancellor, if any,	Pro-Vice-Chancellor (up to 26/7/2021) NEHU, Shillong. Prof. G.Singaiah (up to 26/7/2021) Pro-Vice-Chancellor Tura Campus, Tura
(iii) Deans of Schools,	All Deans of School - Members NEHU, Shillong
(iv) Dean of Students' Welfare,	Dean of Students' Welfare - Member
(v) Heads of Departments and Centres of Studies,	All Heads of the Department/ - Members Centre, NEHU, Shillong
(vi) Librarian,	Dr. F.R.Sumer (In-charge) - Member
(vii) Principals of colleges maintained by the University,	No college maintained by the University
(viii) All Professors, other than the Heads of Departments and Centres, to be Nominated by the Vice-Chancellor.	All Professors, other than the - Members Heads of Departments and Centres

Principals of affiliated College: (ix) Six principals of Colleges admitted to the Privileges of the University	1. Principal Mawlai Presbyterian College Mawlai, Nongkwar, Shillong – 793017 East Khasi Hills District Meghalaya	-	Member
	2. Principal Phukan Memorial College Dalu - 794103 West Garo Hills District Meghalaya	-	Member
	3. Principal K.L. Bajoria College Boyce Road, Shillong - 793001 East Khasi Hills District Meghalaya.	-	Member
	4. Principal Don Bosco College of Teacher Education, Tura - 794002 West Garo Hills District Meghalaya.	-	Member
	5. Principal NEIGRIHMS College Of Nursing Mawdiangdiang, Shillong - 793018 East Khasi Hills District Meghalaya.	-	Member
	6. Principal Mairang Presbyterian Science College Mairang - 793120 West Khasi Hills District Meghalaya.	-	Member
Representative of teachers of the University: (x) Five teachers of the University, by rotation according to seniority of which two shall be Associate Professors and three Assistant Professor	ASSOCIATE PROFESSOR 1. Dr. L.Cajee - (up to 14/6/2022) Deptt.of Geography NEHU, Shillong Mrs V.Pakyntein - (wef 15/06/2022) Associate Professor Department of Anthropology NEHU, Shillong. 2. Dr. Aseem Sinha - Member Department of BSSS NEHU, Shillong.		

	<p><b>ASSISTANT PROFESSOR</b>  Mrs. W. S. Myllemngap - Member  Department of Adult &amp; Continuing Education (up to 19/09/2022)  NEHU, Shillong.  Smti. Jacinta I. Raptap, - Member  Department of Adult &amp; Continuing Education (w.e.f.20.09.2022)  NEHU, Shillong.  Dr. Jonnsly W.Dkhar - Member  Department of Anthropology (up to 14/06/2021)  NEHU, Shillong.  Dr. Jacqueline J.Thaba - Member  Assistant Professor (w.e.f.15/06/2022)  Department of Library &amp; Information Science,  NEHU, Shillong  3. Dr. Ricky A.J.Syngkon - Member  Assistant Professor (w.e.f.06/07/21)  Department of Commerce  NEHU, Shillong</p>
<p><b>Visitor's Nominee:</b>  (xi) Four persons, not being employees of the University or of a College or Institution by or affiliated.....  (Nominated by the Visitor)</p>	<p><b>Vacant</b></p>
<p>Representatives of teachers from affiliated colleges:  (xii) Six teachers of the Colleges admitted to the Privileges of the University</p>	<p>1. Dr. (Ms) B. H. Buam - Member  Department of Education  College of Teacher Education  Boyce Road, Laitumkhrah  Shillong - 793003.  2. Dr. Batskhem Myrboh - Member  Department of Political Science  Synod College  Jaiaw  Shillong – 793002  3. Dr. Prashanta Sarkhel - Member  Department of Chemistry  St. Edmunds College  Laitumkhrah  Shillong – 793003.</p>



	<p>4. Shri Alphonse Richard Myrthong Department of History Lady Keane College Shillong – 793001.</p> <p>5. Shri A.A.Jyrwa Department of English Tirot Singh Memorial College Mairang – 793120 West Khasi Hills District Meghalaya</p> <p>6. Shri . S.K.Pradhan Department of Commerce St.Anthonys College Laithumkhrah Shillong – 793003</p>
<p>Clause 14(1) (xiii) Two Post-Graduate Students of the University One from Sciences and one from Humanities and one Research Scholar to be elected on academic merit in the manner prescribed by on Ordinance.</p>	<p>Post –Graduate Students.</p> <p>1. Mr. Pynskhemlang Nathan Khongstid Department of Biochemistry NEHU, Shillong.</p> <p>2. Ms.Yenshenbam Ichanbi Devi Department of Tourism Hotel Management &amp; NEHU, Shillong. Research Scholar</p> <p>3. Ms. Nazia Yasmin Department of Biotechnology &amp; Bioinformatics NEHU, Shillong.</p> <p>Post –Graduate Students</p> <p>1. Mr. Pradeep Arya, Department of Chemistry, NEHU, Shillong.</p> <p>2. Ms.Pushpanjali Barman, Department of Sociology, NEHU, Shillong. Research Scholar</p> <p>3. Ms. Jutismita Kalita, Department of Education, NEHU, Shillong.</p> <p>up to 17/11/2021</p> <p>wef.10/01/2022</p>

Permanent Invitee(s)	<p>1. Director, College Development Council, NEHU, Shillong.</p> <p>2. Controller of Examinations, NEHU, Shillong.</p>
Secretary (Ex-Officio)	Registrar, NEHU, Shillong.

**The quorum for the meeting of  
Academic Council:**

**- Half of the total members of the Academic Council  
shall form a quorum for a meeting of the  
Academic Council.**

## Appendix D

### MEMBERS OF THE BOARD OF RESEARCH STUDIES (Constituted under Clause OA-6(1) of the Ordinances of the University)

#### LIST OF MEMBERS OF THE BOARD OF RESEARCH STUDIES 2019 to 2021

Vice Chancellor (Ex-officio) -Chairman	Prof.S.K.Srivastava Vice –Chancellor NEHU, Shillong (w.e.f.24.9.2015 upto 26.7.2021.)
Pro-Vice Chancellor- Members	Prof.Henry Lamin Pro-Vice-Chancellor NEHU, Shillong (w.e.f.24.9.2015 upto 26.7.2021.)
	Prof.G.Singaiiah Pro-Vice-Chancellor NEHU, Tura (w.e.f.24.9.2015 up to 26.7.2021.)
Dean of School(Ex-Officio)-Member	1. Dean School of Life Sciences, NEHU, Shillong. 2. Dean School of Humanities, NEHU, Shillong. 3. Dean School of Physical Sciences, NEHU, Shillong. 4. Dean School of Social Sciences, NEHU, Shillong. 5. Dean School of Economics Management & Information Sciences, NEHU Shillong. 6. Dean School of Human and, Environmental Sciences NEHU, Shillong. 7. Dean School of Education NEHU, Shillong. 8. Dean School Of Technology, NEHU, Shillong.
Heads of the Department and Centre of Studies(Ex-Officio)- Members	<b>All HEADS</b>
All Professors Other than the Dean of Schools and Head of Departments & Centre-(Ex-Officio)- Members	<b>All PROFESSORS</b>
<b>With effect from 29.11.2019 to 28.11.2021 for two years</b>	
Six Readers, from NEHU are to be nominated by the Vice-Chancellor, Three from Human & Social Sciences and Three From Sciences	1. Dr. Rekha M Shangpliang, Department of Sociology, NEHU, Shillong. 2. Dr. L. Cajee, Department of Geography, NEHU, Shillong. 3. Dr. A. Bhattacharjee, Department of Management, NEHU, Tura Campus, Tura. 4. Dr. R. L. Nongkhaw, Department of Chemistry, NEHU, Shillong. 5. Dr. Aseems Sinha, Department of Basic Sciences & Social Sciences, NEHU, Shillong 6. Dr. Jemino Mawthoh, Department of Adult & Continuing Education, NEHU, Shillong.
Four External experts, two representing	7. Prof. Aswini Kumar Mohapatra, Centre for West Asian Studies,

From Humanities & Social Sciences and Two from Sciences	<p>School of International studies, JNU, New Delhi-110067. <a href="mailto:Email.akmohapatra@mail.jnu.ac.in">Email.akmohapatra@mail.jnu.ac.in</a> <a href="mailto:Email.aswinijnu@gmail.com">Email.aswinijnu@gmail.com</a></p> <p>8. Prof. R. R. Pandey, Department of Life Sciences, Manipur University, Imphal(Manipur)-795003.</p> <p>9. Prof. Jai Prakash Lal, Former Professor &amp; Head Department of Genetics &amp; Plants Breeding, Banaras Hindu University, B-3 MaaBhagitri Nagar Varanasi-221005, <a href="mailto:Email.head-gpbbhu@yahoo.co.in">Email.head-gpbbhu@yahoo.co.in</a> <a href="mailto:Email.head-gpbbhu@reddiffmail.com">Email.head-gpbbhu@reddiffmail.com</a></p> <p>10. Prof. Dharendra Bahadur, Former Professor, Department of Metallurgical Engineering &amp; Material Science, Indian Institute of Technology Goa, Goa-403401. <a href="mailto:Email.dhirenb@iitb.ac.in">Email.dhirenb@iitb.ac.in</a></p> <p>Registrar, NEHU, Shillong.</p>
Secretary (Ex-Officio)	

### **LIST OF MEMBERS OF THE BOARD OF RESEARCH STUDIES**

**2022 to 2024**

Vice-Chancellor (Ex-officio) Chairman	Prof. Prabha Shankar Shukla Vice –Chancellor NEHU, Shillong <b>(w.e.f.27.7.2021 till date)</b>
Pro-Vice-Chancellor-Members	Vacant Vacant
Dean of School(Ex-Officio)-Member	<p>1. Dean School of Life Sciences, NEHU, Shillong.</p> <p>2. Dean School of Humanities, NEHU, Shillong.</p> <p>3. Dean School of Physical Sciences NEHU, Shillong.</p> <p>4. Dean School of Social Sciences, NEHU, Shillong.</p> <p>5. Dean School of Economics Management &amp; Information Sciences, NEHU Shillong.</p> <p>6. Dean School of Human and Environmental Sciences NEHU, Shillong.</p> <p>7. Dean School of Education NEHU, Shillong.</p> <p>8. Dean School of Technology, NEHU, Shillong</p>
Heads of the Department and Centre of Studies (Ex-Officio) Members	All HEADS
All Professors Other than the Dean of Schools and Head of Departments & Centre-(Ex-Officio) Members	All PROFESSORS

