NORTH-EASTERN HILL UNIVERSITY



FORTY-NINTH ANNUAL REPORT (2022 – 2023)

आचार्य 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 Desk of the Vice-Chancellor



I am delighted to present the Annual Report for the year 2022-23, a testament to the unwavering dedication, relentless pursuit of excellence and remarkable achievements of the North-Eastern Hill University community.

The year under report has been a period of immense growth and accomplishment for our institution, and it brings me immense pride to share with you some of the highlights that reflect the collective efforts of our exceptional teachers, dedicated staff, students and the entire NEHU family.

Our commitment to academic excellence remains unwavering. This year, we have witnessed an exceptional rise in research publications across diverse fields. The innovative research and scholarly contributions of our faculty and students have garnered national recognition with substantial contributions.

Educators are the pillars of any Institution, and their contributions are truly commendable. Their commitment to nurturing young minds and fostering an environment of intellectual curiosity is truly inspiring.

Our students continue to shine, not only in the class rooms but also on various curricular activities. The accomplishments of our students across academic, cultural, and sports domains have brought laurels to the University. Their enthusiasm, creativity and dedication continue to make us proud.

The establishment of interdisciplinary research centres has provided fertile ground for collaborative endeavours that address pressing global challenges. Our researchers' contributions to areas such as sustainable development, healthcare and technology have the potential to transform lives.

As an Institution deeply embedded in the social fabric of the region, we remain committed to our social responsibility. Our outreach programs, community development initiatives and collaborations with local stakeholders have made a tangible impact, positively influencing the lives of the communities we serve.

The year gone by also witnessed an expansion of our collaborations, fostering cross-cultural learning, and providing our students and faculty with opportunities for global exposure. Such partnerships not only enrich our academic environment but also strengthen our global standing.

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Keeping this in mind, the University has inked as many as 11 (eleven) Memorandum of Understanding (MOU) on 5th September 2022 itself with various Institutions of high repute for expanding academic collaborations. The University also successfully organized international and national Conferences, Seminars, Meets, DST-STUTI Workshops, training programmes; like 40th Annual meeting with International Conference and pre-conference workshop of Indian Academy of Neurosciences, Workshop cum Global engagement training sponsored by International Brain Research Organisation, National Conference for Nanotechnology, Biomedical Workshops, Biotech KISAN Hub, etc.

Seminars & Exhibitions on Tribal Heroes in India's freedom struggle in collaboration with National Commission for Scheduled Tribes apart from the workshop on "Janjatiya Anusandhan: Asmita, Astitva evam Vikas" as part of Azadi Ka Amrit Mahotsav. Besides, Har Ghar Tiranga, Tiranga Yatra, Partition Horror Remembrance Day (Akhand Bharat), Modi @20 – Dreams Meet Delivery, were also organized. As part of Ek Bharat Shreshth Bharat Programme, which aims to enhance interaction and to promote mutual understanding between people of different states, the students of BBAU, Lucknow had visited the University and our students visited BBAU (Lucknow) on the concept of paring which provided cultural connect. A curtain raiser event "University Connect: Engaging Young Minds was organized by the Research and Information System for Developing Countries (RIS) under the aegis of the Ministry of External Affairs on the occasion of India assuming G20 presidency, which was participated by large number of faculties, students and scholars, showcasing India's leadership of G20 among students and the youth.

I extend my heartfelt gratitude to every member of our fraternity for their unwavering support, dedication and commitment. Let the passion and enthusiasm continue to drive our pursuit of excellence and I am confident that together, we will continue to scale new heights and create a lasting impact on society.

I would like to extend my heartfelt gratitude to each member of the editorial team for their steadfast dedication and hard work. Your commitment to upholding the standards of quality and accuracy is evident in every page of the report. Your ability to translate data into meaningful narratives and to encapsulate the vibrant NEHU spirit is truly commendable.

(Prof. Praoha/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 (NER) 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 Umshing-Mawkynroh, Mawlai, Shillong, in the East Khasi Hills District is geographically surrounded by hill tops and pine trees, spread over twelve hundred acres of land area approximately. The administrative and the examination block are quite close to the academic departments for easy access by students.

Keeping with its objective, the university has been striving for the academic excellence of the people of the NER. Therefore, the university had initially established additional 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. Similarly, the 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, established an outlying campus at Tura (West Garo Hills District) within the state of Meghalaya in the year 1996, initially with two departments, which has now expanded into eleven academic departments. 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-ninth Annual Report showcases the diverse activities and achievements of the various academic departments, centres, administrative departments and central services of the university from 1st April 2022 to 31st March 2023.

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). Out of these, thirty-six departments and one centre are in Shillong campus; while eleven academic departments are situated in the Tura campus.

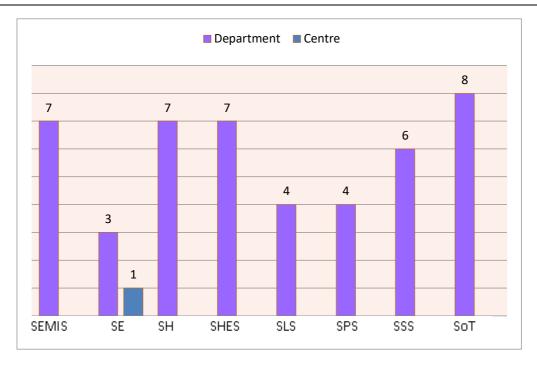


Figure 1: Number of Departments and Centres in each School

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 also. 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.

The faculty members of this university have been conferred with several civilian honours and academic awards in recent past. The university has also 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 etc. In addition, the university has established new centres/cells like Dr. Ambedkar Centre for Excellence and Research and Development Cell etc.

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 268 have been filled and 199 posts are vacant (Figure 2).

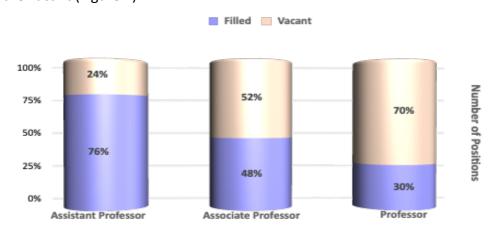


Figure 2: Statistics of filled and vacant faculty positions in 2022-2023.

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 324 and the vacant posts are 679 (Figure 3).

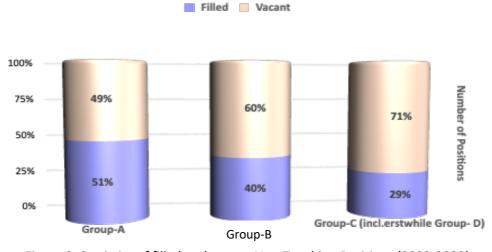


Figure 3: Statistics of filled and vacant Non-Teaching Positions (2022-2023)

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 has adopted the new education policy (NEP-2020) for PG level from the 2022-23 academic year and is all set to introduce the same in the UG level from 2023-24. During 2022–23, 4819 students were enrolled in degree/diploma/certificate programmes in various departments. Out of these, 18 students are from foreign countries (Bangladesh, Bhutan, Ireland, Ghana, Myanmar, Namibia, Russia, The Netherlands, Thailand). The student-teacher ratio is nearly 18:1 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 (2022-23)

	G	EN	S	т	S	С	0	ВС	EV	VS	PW	D	TO	TAL
Courses	М	F	М	F	М	F	М	F	М	F	М	F	М	F
BA LLB (Honors)	15	21	103	173	2	4	0	0	7	10	0	0	127	208
B Arch	29	38	38	22	4	7	0	0	5	8	0	0	76	75
B Tech	188	79	126	53	44	13	42	14	10	3	0	0	410	162
UG TOTAL	232	138	267	248	50	24	42	14	22	21	0	0	613	445
МА	54	141	318	968	1	7	0	4	12	26	7	4	392	1150
M Sc	50	69	204	362	3	8	2	3	17	28	3	0	279	470
M Com	1	2	39	70	0	0	0	0	1	3	2	0	43	75
M Lib Info Sc	0	0	11	43	0	0	0	0	0	0	0	0	11	43
M B A (GM)	10	10	38	12	0	1	0	0	0	0	0	0	48	23

Grand Total	9:	79		41	13	39	10	03	13	39	18	3		19
Sub Total	463	516	1221	2220	78	61	59	44	55	84	14	4	1890	2929
FC SEDE	5	11	29	65	2	1	5	3	0	0	0	0	41	80
PG Diploma	1	0	22	18	0	1	0	0	0	0	0	0	23	19
Ph. D.	71	118	155	260	18	15	10	19	1	2	2	0	257	414
PG TOTAL	154	249	748	1629	8	20	2	8	32	61	12	4	956	1971
M Tech	11	7	31	13	2	3	0	0	0	1	0	0	44	24
M Ed	3	1	10	60	0	0	0	0	0	0	0	0	13	61
LLM	0	0	12	13	0	0	0	0	0	1	0	0	12	14
MTTM	5	8	36	46	2	0	0	0	0	0	0	0	43	54
MCA	15	3	19	27	0	1	0	1	1	1	0	0	35	33
MBA (ABFT)	2	4	15	13	0	0	0	0	1	1	0	0	18	18
M B A (SM)	3	4	15	2	0	0	0	0	0	0	0	0	18	6

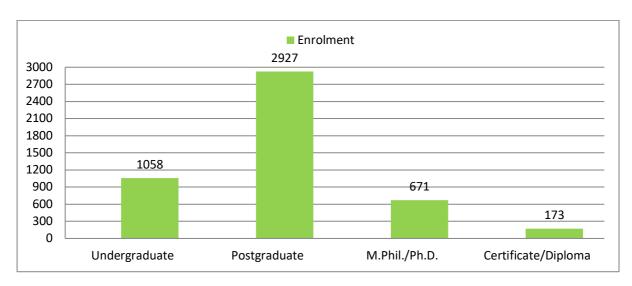


Figure 4. Programme-wise Student Enrolment Status (2022-2023)

Enrolment of students from different states of India and abroad for the academic year 2022-2023 is detailed in Table 2 and Figure 5.

Table 2. Enrolment of students from different States of India and Abroad (2022-2023)

	GI	EN	S	т	S	С	0	ВС	EV	VS	PW	'D	тот	ΓAL
STATES	М	F	М	F	М	F	М	F	М	F	М	F	М	F
Andhra Pradesh	1	2	0	1	2	0	1	0	0	0	0	0	4	3

Arunachal Pradesh	3	1	6	18	0	0	0	0	0	0	0	0	9	19
Assam	143	165	43	48	16	15	21	16	9	9	0	0	232	253
Bihar	14	6	5	0	2	0	6	2	2	0	0	0	29	8
Chandigarh	0	1	0	0	1	0	1	0	0	0	0	0	2	1
Delhi	4	1	0	0	0	0	0	0	0	0	0	0	4	1
Goa	0	0	0	0	0	0	1	0	0	0	0	0	1	0
Haryana	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Jammu & Kashmir	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Jharkhand	1	1	1	0	1	1	0	0	0	2	0	0	3	4
Karnataka	0	0	0	0	0	0	1	0	0	0	0		1	0
Kerala	4	4	0	0	0	0	1	0	0	0	0	0	5	4
Lakshadweep	1	0	0	0	0	0	0	0	0	0	0	00	1	0
Madhya Pradesh	0	0	0	0	1	0	1	1	0	1	0	0	2	2
Maharashtra	2	0	0	0	0	0	0	0	0	0	0	0	2	0
Manipur	8	12	19	43	4	3	1	1	0	0	0	0	32	59
Meghalaya	234	285	1100	2035	42	36	15	23	41	70	14	4	1446	2453
Mizoram	0	0	17	22	0	0	0	0	0	0	0	0	17	22
Nagaland	1	2	15	40	0	0	0	0	0	0	0	0	16	42
Odisha	2	0	0	0	0	0	0	0	0	0	0	0	2	0
Rajasthan	4	1	1	0	0	0	2	0	0	0	0	0	7	1
Sikkim	2	2	0	1	0	0	0	0	0	0	0	0	2	3
Tamil Nadu	3	0	0	0	0	1	2	0	0	0	0	0	5	1
Telangana	1	0	1	0	1	0	1	0	0	0	0	0	4	0
Tripura	2	3	11	12	2	2	0	1	1	0	0	00	16	2
Uttar Pradesh	7	5	0	0	2	1	4	0	2	0	0	0	15	6
West Bengal	15	16	2	0	4	2	1	0	0	2	0	0	22	20
International	11	7	0	0	0	0	0	0	0	0	0	0	11	7
Sub Total	463	516	1221	2220	78	61	59	44	55	84	14	4	1890	2929
Grand Total	97	79	34	41	13	39	10	03	13	39	18	3	48	19

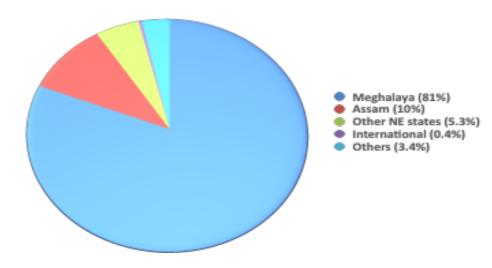


Figure 5. Enrolment of students from North-East India and Others (2022-2023)

Category-wise enrolment of students in different courses (2022 - 2023), has been detailed in Figure 6.

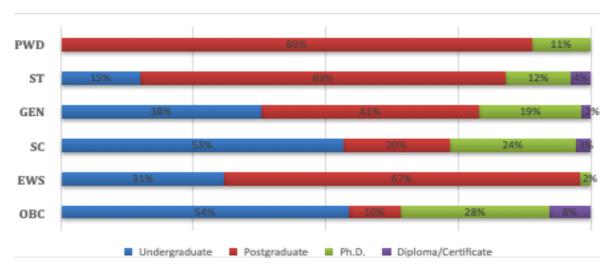


Figure 6. Category-wise students' enrolment in various courses (2022-2023)

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 2022-23

Courses	GI	GEN		Т	S	С	Ol	ВС	TO	TAL
Courses	М	F	М	F	М	F	М	F	М	F
B A (Hons)	778	1213	16035	22165	117	136	142	269	17072	23783
B B A (Hons)	498	265	228	103	4	6	29	19	759	393
B C A (Hons)	24	27	228	242	6	5	6	5	264	279
B Com (Hons)	501	362	1770	1500	46	32	56	46	2373	1940
B Ed	11	26	57	65	7	4	5	21	80	116
B Sc (Hons)	281	251	2016	2525	47	48	80	117	2424	2941

B Sc (Nursing)	12	64	5	259	2	4	6	35	25	362
B Sc Home Sc	0	1	0	74	0	0	0	1	0	76
BTTM	0	4	0	73	0	0	0	3	0	80
B. Music	7	4	57	30	2	0	2	1	68	35
BAMS	15	9	22	36	10	2	19	14	66	61
BHMS	6	8	18	48	3	5	13	14	40	75
BSW	6	21	54	341	1	6	0	2	61	370
LLB	22	13	156	191	0	2	4	2	182	208
MBBS	60	24	40	58	0	0	22	6	122	88
UG Total	2221	2292	20686	27710	245	250	384	555	23536	30807
MA	1	10	39	163	0	1	2	1	42	175
MCA	12	6	32	9	0	0	1	1	45	16
M Sc (Nursing)	0	3	0	14	0	0	0	2	0	19
M Sc Biotechnology	2	15	6	12	0	1	0	5	8	33
MSW	2	7	13	30	1	2	0	1	16	40
MBA	40	51	0	0	0	0	1	5	41	56
PG Total	57	92	90	228	1	4	4	15	152	339
P B BSc Nursing	1	10	39	163	0	1	2	1	42	175
PGDCA	12	6	32	9	0	0	1	1	45	16
Sub Total	2280	2386	20781	28008	246	254	388	574	23695	31222
Grand Total	46	66	48789		500		962		549	917

Examination Results

Timely declaration of results for different examinations conducted by the university is considered as one of the priority areas. The whole examination process and result declaration is controlled online through a dedicated examination portal under the university management system (UMS). The following table gives the number of students who appeared and passed the various degree examinations conducted by the university during the year under report (Table 4).

Table 4. No. of students who appeared and passed various degree examinations conducted by the university during 2022-2023.

Degree	No of students appeared	No of students passed/ awarded	Pass %
	Departments of the U	niversity	
Ph.D.	153	153	100%
Postgraduate	1474	1412	96%
Undergraduate	209	193	92%
	Affiliated Colleges		
Postgraduate	222	217	98%
Undergraduate	17986	16150	90%

Publications and Presentations

- In the year 2022–2023, various departments of the university organized 112 academic events, such as conferences, seminars/webinars, symposia, and workshops etc.
- Scholarly publications in peer-reviewed journals by the faculty includes 376 research papers in the journals. The faculty members have also authored/edited 189 books and book chapters in edited volumes; 43 in proceedings of seminars/conferences and 85 popular articles (Table 5).

Table 5. Number of Publications during 2022-2023

Name of School	Research	Seminar	Books, Edited	Proceedings of	Popular
	Papers	/Conferences	Books/Volumes,	Seminar/	Articles (in Newspaper
	Published	Organized	Book Chapters	Conferences	& magazines)
Life Sciences	82	7	8	1	1
Humanities	27	31	29	2	51
Physical Sciences	63	07	01	11	Nil
Economics, Management & Information Sciences	77	24	44	2	8
Human and Environmental Sciences	48	14	18	2	Nil
Education	40	14	12	1	Nil
Technology	106	3	37	23	Nil
Social Sciences	15	12	40	1	25
Total	376	112	189	43	85

IPR items

Table 6(a): Details of Patents and Copyrights during 2022-23

	Pub	lished	Granted			
	National	International	National	International		
Patents	5	1	1	NIL		

Table 6(b): Details of Consultancy projects during 2022-23

Name of School	New	Projects	Ongoir	ng Projects	Completed Projects		
	Number	Grant Received (Rs in Lakhs)	Number	Grant Received (Rs in Lakhs)	Number	Grant Received (Rs in Lakhs)	
Economics, Management & Information Sciences	1	Nil	Nil	Nil	Nil	Nil	
Education	Nil	Nil	2	2.5	Nil	Nil	
Technology	Nil	Nil	Nil	Nil	2	1.003	
Total	1	Nil	2	2.5	2	1.003	

Table 7. Details of EMR Grants received during 2022-23

Name of School	Ne	ew Projects	Ongo	ing Projects	Comp	leted Projects
	Number	Grant Received	Number	Grant Received	Number	Grant Received
		(Rs in Lakhs)		(Rs in Lakhs)		(Rs in Lakhs)
Life Sciences	3	73.50	6	85.16	Nil	Nil
Humanities	1	2.00	2	5.00	3	5.50
Physical Sciences	2	47.80	4	1.80	Nil	Nil
Economics,	4	8.50	2	90.00	1	0.96
Management &						
Information						
Sciences						
Social Sciences	2	30.90	Nil	Nil	Nil	Nil
Human and	2	102.13	5	95.90	3	Nil
Environmental						
Sciences						
Education	Nil	Nil	2	20.77	Nil	Nil
Technology	2	16.00	7	21.47	2	10.75
Total	16	280.83	28	320.10	9	17.21

Table 8: Details of the EMR projects and Academic Collaborations during 2022-23

Name of School	Number of EMR Projects		of Academic borations
		National	International
School of Life Sciences	9	30	3
School of Humanities	6	2	Nil
School of Physical Sciences	6	28	15
School of Economics, Management & Information	7	3	1
Sciences			
School of Social Sciences	2	1	1
School of Human and Environmental Sciences	10	5	5
School of Education	2	5	0
School of Technology	11	45	14
Total	53	119	39

Faculty members of the university were actively involved in 53 research projects supported by various funding agencies like UGC, DST, DBT, CSIR, DRDO, ICMR, DAE (BRNS), ICSSR, ICAR, and NEC, of which 16 are newly sanctioned, 28 are ongoing and 9 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 119 national and 39 international academic collaborations with eminent scholars and scientists within and outside the country. During the year, the university has signed MoUs with several institutions of National and International repute, namely, Kadir Has University, Turkey; Regional Centre for Biotechnology, Faridabad-DBT; Indian Institute of Toxicology Research (CSIR), New Delhi, National Botanical Research Institute (CSIR), Lucknow, Global Signatures Research and

Consultancy, New Delhi, G P Pant University of Agriculture and Technology, Uttarakhand among others.

Hostel Accommodation

NEHU 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 2048 students were provided on campus hostel accommodation. Of these, the campus residential facility was availed by 47% and 53% men and women students, respectively. A total of 1172 students (57%) belonging to the Scheduled Tribe category were allotted hostel accommodation. The detailed categories of students residing in university hostels are shown in Figure 7.

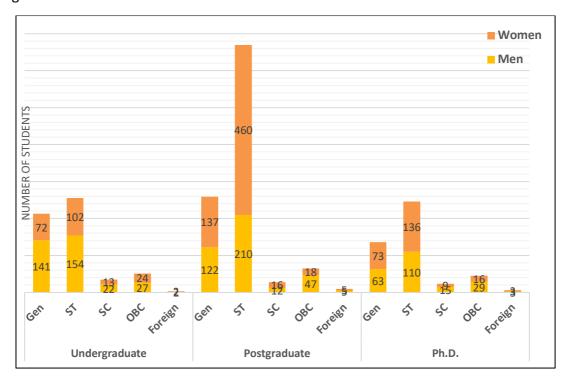


Figure 7. Number of students provided with hostel accommodation (2022-2023)

The university has two state-of-the-art studios for developing Massive Open Online Courses (MOOCs) in accordance with UGC Regulation of credit framework for online learning courses through SWAYAM. The university also created the facility for different online examination with approximate capacity of 200 candidates for conducting different examinations like CUET, other entrance tests, CSIR-UGC NET, UPSC etc.

The university has 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.

Major Highlights (2022-2023)

- The North-Eastern Hill University (NEHU) signed a memorandum of understanding (MoU) with Breakthrough Technology firm CV Laser Pty Ltd of Australia with the objective of initiating start-ups and innovation industries in the areas of medical laser technology and healthcare.
- The **Ambassador of Japan to India Kunihiko Kawazo** and Political Counselor Kentaro Orita visited NEHU for holding an extremely productive bilateral discussion on wide ranging issues like academic and cultural collaboration.
- The university organized **Next Gen Democracy** visit by 38 youth leaders from countries like Chile, Kenya, Ecuador, Mexico, Suriname, New Zealand, Nigeria, Japan etc. under the aegis of ICCR as part of G20 Youth Connect.
- MoUs were signed with several institutions of National and International repute, namely,
 Kadir Has University, Turkey, Regional Centre for Biotechnology, Faridabad-DBT, Indian
 Institute of Toxicology Research (CSIR), New Delhi, National Botanical Research Institute
 (CSIR), Lucknow, Global Signatures Research and Consultancy, New Delhi, G P Pant
 University of Agriculture and Technology, Uttarakhand among others.
- **Gender parity index** for student's gross enrollment (female to male students) ratio is 1.5. The highest value of female student enrolment was from Meghalaya with female to male student ratio of 1.7.
- There were **24** international students from Bangladesh, Bhutan, Afghanistan, China, Myanmar, and Thailand, Tanzania, Namibia, and, The Netherlands during the period covered by this Annual Report.
- **Total number of Publications** for the year 2022-2023 was 805 and 7 **patents** were published/granted.
- International Day of Yoga was observed on June 21, 2022.
- National Unity Day was celebrated on October 31, 2022.

NORTH-EASTERN HILL UNIVERSITY

Key Personalities & Statutory Officers

Visitor	The President of India
Chief Rector	Governor of Meghalaya
OFFICERS	S OF THE UNIVERSITY
Chancellor	Vacant
Vice Chancellor	Prof. Prabha Shankar Shukla
Pro-Vice Chancellor (Shillong)	Vacant
Pro-Vice Chancellor (Tura)	Vacant
Registrar	(i/c) Prof. S. K. Dixit (till 16.03.2023); (i/c) Prof A. S. Dixit (since 16.03.2023)
Finance Officer	Sri L. M. K. Lyngrah (till 31.10.2022); (i/c) Prof. K. C. Kabra (since 31.10.2023)
Controller of Examinations	(OSD) Sri Debashish Chowdhury (till 30.03.2023); Col. Omkar Singh (since 31.03.2023)
Librarian	Dr. F. R. Sumer
DEANS	OF THE UNIVERSITY
Dean, Students' Welfare	Prof. R. L. Nongkhlaw
Dean, School of Economics, Management & Information Sciences	Prof. A. P. Pati
Dean, School of Education	Prof. E. Jyrwa
Dean, School of Humanities	Prof. VanlaInghak
Dean, School of Human & Environmental Sciences	Prof. L. Zehol
Dean, School of Life Sciences	Prof. S.B. Prasad (till 31.08.2022); Prof. N. Saha (since 01.09.2022)
Dean, School of Physical Sciences	Prof. K. M. Rao (till 02.02.2023); Prof. A. K. Chandra (since 03.02.2023)
Dean, School of Social Sciences	Prof. K. Debbarma
Dean, School of Technology	Prof. L. J. Singh (till 24.11.2022); Prof. Md. Iftekhar Hussain (since 25.11.2022)

Members of the Editorial Board

01.	Prof. S. Mitra	Chairman
02.	Prof. Q. Marak	Deputy Chairperson
03.	Prof. T. K. Chakraborty	Member
04.	Prof. S. R. Joshi	Member
05.	Prof. Sukalpa Bhattacharjee	Member
06.	Col. Omkar Singh (Retd)	Member
07.	Dr. Barika Khyriem	Member
08.	Prof. Brinda B. Kharbirymbai	Member
09.	Dr. Binayak Dutta	Member
10.	Dr. Suparna Bhattacharjee	Member
11.	Dr. Deigracia Nongkynrih	Member
12.	Prof. J. U. Ahmed	Member
13.	Dr. Phrangstone Khongjee	Member
14.	Prof. Bubu Bhuyan	Member
15.	Shri. K. H. Lanong	Member
16.	Mr. Ivan Lyngdoh	Member
17.	Mr. R.K. Ram	Convener

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North-Eastern Hill University

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I. SCHOOL OF ECONOMICS, MANAGEMENT & INFORMATION SCIENCES

Dean: Prof. A. P. Pati	DEPARTMENTS UNDER THE SCHOOL
E-mail: deanemis@nehu.ac.in Telephone: +91-364-272 3131	Department of Agri-business Management and Food Technology (Tura Campus) Department of Commerce Department of Economics Department of Journalism and Mass Communication Department of Library & Information Science Department of Management (Tura Campus) Department of Tourism and Hotel Management

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. Future Plans

- a) Offer skill development certificate programs
- b) Village adoption/creating model villages by engaging in agribusiness areas, agri-tourism, etc.
- c) Self-Financing Courses.
- d) Enhancing Research Capabilities at Regional, National & International.

3. Salient Data of the School [2022-2023]

N 1 CC 1 1 1 1 1 D D	16
Number of Students awarded Ph.D. Degree	
Number of Research Publications	77
Number of Books, Book Chapters, and Proceedings	46
Number of Research Projects (Fund Received)	
Completed (1)	0.96 Lakhs
On-going (2)	90.0 Lakhs
New (4)	8.5 Lakhs
Number of Consultancy Projects (Fund Received)	
National (1)	Nil
International	Nil
Number of Students Placed	33
Number of Students Selected for Higher Studies	
Total Number of Patents	
Filed	NIL
Published	02
Granted	Nil
Policy Documents: Status (Name of the Agency) and Nu	mber
(i) Applied	NIL
(ii) Approved	Nil

DEPARTMENT OF AGRI-BUSINESS MANAGEMENT AND FOOD TECHNOLOGY (TURA CAMPUS)

Head: Dr. Gino A Sangma **Telephone:** +91 9612155002

E-mail: hodabmft@nehu.ac.in

Faculty Profile

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

Thrust Areas of Research

Management of Small Business, Agri-Tourism, Agri Marketing, Rural Food Marketing. Entrepreneurship, Supply & Value Chain Management, Food Biotechnology, Food Processing packaging Technology, Food technology, Fermentation technology, Traditional Knowledge and Food Habits, Certification and quality assurance of foods, Post-Harvest and Processing technology and Management of Fruits & vegetables, Development, Rural extension services, 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 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

	Ge	en	S	Г	S	SC OBC		EV	EWS PWD			Total		
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Bihar	-	3	-	-	-	-	-	-	-	-	-	-	-	3
Jharkhand	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Kerala	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Uttar														
Pradesh	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Sub Total	1	5	-	1	-	-	-	-	-	-	-	-	1	6
Total	6 1		-	•	-				-		7			

> Enrolment of students from different States of India in M.Sc. (Food Technology)

	Gen	Į	ST	ST SC		OBC	7	EWS	5	PWD		Total		
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	2	-	1	-	-	-	-	-	-	-	-	-	3
Manipur	-	1	-	-	-	-	-	-	-	-	-	-	-	1
West Bengal	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Total	4	•	1		-	•	-	•	-	•	-	•	5	

> Enrolment of students from different States of India and Abroad in Ph. D

	Gen		ST		SC		OBC		EWS		PWD		Total	
STATE(Na														
me)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Manipur	-	-	-	-	-	1	-	1	-	-	-	-	-	2
Sub Total	-	-	-	-	-	1	-	1	-	-	-	-	-	2
Total	-		- 1			1		-		-		2	2	

Degrees Awarded

➤ MBA: 20

> Degrees Awarded to students from different States of India and Abroad in MBA (ABFT)

	Gen		ST		SC		OBO	C	EWS	S	PWD		Total	
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal	-		1	-	-	-	-	-	-	-	-	-	1	-
Pradesh														
Assam	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Haryana	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Manipur	-	-	1	1	-	-	-	-	-	-	-	-	1	1
Meghalaya	-	-	2	7	-	-	-	-	-	-	-	-	2	7
Nagaland	-	-	1	2	-	-	-	-	-	-	-	-	1	2
Tripura	1	-	-	-	-	-	-	-	1	-	-	-	2	-
Uttar Pradesh	-	-	-	-	-	-	-	-	-	1	-	-	-	1
Sub Total	2	1	5	10	-	-	-	-	1	1	-	-	8	12
Total	3		15		-			2		-		20		

Placement of Students

Sl. No	Name of the Student(s)	Organization	Place of Work
1	Mr. Sumit Choudhary	Iotech World Aviation Pvt. Ltd.	Haryana
2	Miss. Tia Jungla	Nagaland State Agricultural Produce and Livestock Marketing Board	Dimapur, Nagaland
3	Mr. Shibam Chaudhary	Farm Telecom Advisor	IFFCO Kisan Suvidha Pvt. Ltd, Tripura
4	Mr. Dusu Kato	Arunachal State Rural Livelihoods Mission (ArSRLM)	Kurung Kumney District, Arunachal Pradesh
5	Miss. Megambi D Sangma	Directorate of Dairy Development, Govt. of Meghalaya	Tura
6	Miss. Maialin Nongrang	Directorate of Food Processing, Govt. of Meghalaya,	Shillong
7	Miss. Ankita Mishra	Airtel	Gorakhpur, Uttar Pradesh
8	Mr. Chikko G Momin	Agricultural Technology Management Agency (ATMA)	South Garo Hills, Meghalaya

Research Fellowship

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

Fieldwork/Educational Tour of Students

Teacher-in-Charge: Dr. Gino A Sangma

Places/Institutions Visited: (1) ABY Farmers LLP, Hyderabad (2) National Institute of Agricultural Extension Management— MANAGE Hyderabad (3) SID's Farm, Hyderabad (4) Marsco Nutraceuticals Pvt. Ltd, Hyderabad (5) The Pondicherry Co-operative Milk Producers Union Ltd., Puducherry and (6) Koyambedu Wholesale Market Complex, Chennai

Duration of Tour: 14 days (22/01/2023 to 04/02/2023)

Purpose of Tour: The goal of the study tour is to provide students with new knowledge and inspiration for their own personal growth by educating them about various businesses and organisations that are relevant to their studies. It also allows students to develop new abilities and knowledge to take part in an interactive learning process in Food and Agribusiness sectors.

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 **Operations** Management Agri-Business; Management; Supply Chain and Retail of Business: Management; Legal Aspects **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

Post Graduate – MBA (Agribusiness Management)

Semester-I: Principles of Management and Organizational Behavior; Fundamentals of Agribusiness Management; Agribusiness Environment and Policy; Managerial Economics; Managerial Accounting and Control; Production and Operations Management; Computer Applications; Communication for Management and Business.

Semester-II: Research Methodology for **Principles** Agribusiness Management; of Management; Human Marketing Resource Management; Financial Management; Agricultural and Food Marketing Management; Agricultural Project Management; Rural Marketing; Rural Immersion Module.

Semester-III: Agri-Entrepreneurship and Start-Up Development; Business Laws and Ethics; Agri Supply Chain Management; Operations Research; ELECTIVES (Any 3) - Seed Production Technology Management; Fertilizer Technology and Management; Management of Agro-Chemical Extension Industry; Agri Management; Technology Management for Livestock Products; Feed Business Management; Poultry and Hatchery Management; Production and Post Harvest Management of Fruits; Production and Post Harvest Management of Vegetables; Management Floriculture Landscaping; and Management; Management of Agri-Cooperatives and FPOs; Livelihood and Natural Resource Management; Agri Commodity Markets and Futures Trading; Business Analytics; Summer Internship/Industrial Attachment.

Semester-IV: Strategic Management; Intellectual Property and its management in Agriculture; International Trade for Agricultural Products; Project Work; Master's Seminar and 1. Comprehensive Viva.

Postgraduate – M.Sc. (Food Technology)

Semester-I: Food Processing and Preservation Technology; Food Microbiology; Food Chemistry; Technology of Cereals, Legumes and Oil Seeds; 2. Food Engineering and Unit Operations; Research Methodology and Biostatistics; Computer Application in Food Processing Technology.

Semester-II: Technology of Fruits and Vegetables; Techniques in Food Analysis; Beverages and Fermentation Technology; Technology of Bakery and Confectionary; Food Hygiene, By-Products, and Waste Management; Nutrition, Nutraceuticals and Functional Foods; Enzyme Technology in Food Processing.

Semester-III: Food laws and Regulations; Food Product Development and Quality Evaluation; Technology of Spices and Plantation Products; Food Toxicology; Food Packaging Technology; Technology of Meat, Poultry, and Fish Products; Agripreneurship and Start-up Development.

Semester-IV: Project Work

> PhD Courses

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

Publications

(i) Research Papers

Chakaravarthi, S., Sasikumar, R., Nazni, P. (2022). Evaluation of oil quality of selected street fried foods. *Journal of Food and Dietetics Research*, 2(1), 9-17, https://doi.org/10.48165/jfdr.2022.2.1.1.

- Sasikumar, R., Paras Sharma., Jaiswal, A. K, (2022). Alginate and β-lactoglobulin matrix as wall materials for encapsulation of polyphenols to improve efficiency and stability. *International Journal of Food Engineering*, 19(10),1-9, https://doi.org/10.1515/ijfe-2022-0202.
- Sasikumar, R., Jaiswal, A.K. (2022). Effect of the rmosonication on physicochemical and antinutritional properties of blood fruit beverage. *Journal of Food Processing and Preservation*, 47(10), 1-9 https://doi.org/10.1111/jfpp.17268.
- Sasikumar, R., Jaiswal, A. K. (2022). Influence of pediocin assisted the rmosonication 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.

IPR Items

(a) Patents (01)

Dr. Sasikumar R

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

Funds received during current year

(B) EMR Research Projects to individual faculty members

Title of Project	Current	Name of	Multi/Sin	Funding	Fund received
(Total outlay in Lakhs)	Status	Investigat	gle	Agency	by NEHU in
	(New/on-	or	Institute		the year under
	going/	(Pl/Co-Pl)	(Tenure)		report
	complete				•
	d				

Development of Vegetative Propagation Protocol and Vacuum Freeze Dehydrated Probiotic Powder from Sohiong (Prunus Nepalensis) Fruit (120 L)	Ongoing	Dr. R. Sasikum ar (PI)/ Prof. C.P. Suresh (Co-PI)	Multi (2021-2024)	Departmen t of Biotechnol ogy (DBT), New Delhi	85 Lakhs
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Seminars/Conferences/Workshops/Symposia/Ext ension Programmes

Dr. Gino A Sangma

- Presented a paper entitled "Agricultural Technologies for Sustainable Agriculture and Food Security" at the National Seminar on Conservation of Biodiversity (NSCB 2022) organized by Biotech KISAN Hub, North-Eastern Hill University, Tura Campus, Meghalaya, on 3rd September 2022 (Coauthor Miss. Anuradha Seal).
- Presented a paper entitled "Potential options and opportunities for Entrepreneurship Development A study on Meghalaya" at the National Seminar on Entrepreneurship Development: A Tribal Perspective organized by the Department of Management, North-Eastern Hill University, Tura Campus, Meghalaya, on 28th 29th October 2022 (Co-author Dr T. R. Bandaru).
- 3. Presented "Sustainable a paper entitled Technologies for Agricultural Development and Food Security" at the International Conference on Environment and Sustainable Development organized by Biotech KISAN Hub, North-Eastern Hill University, Tura Campus, Meghalaya in collaboration with Department of Computer Application, North-Eastern Hill University, Tura Campus on 25th November 2022 (Co-author Miss. Anuradha Seal).

Dr. Sasikumar R.

 Presented a paper "Process Optimization of Microencapsulated Polyphenols from Blood Fruits Pomace Extract by Novel Jet Flow Vibration Technology and Evaluation as a Target Delivery

- System" in the Biotic Science Congress (BioSCon), 2022, International Conference Recent Advances in Agricultural, Biological and Applied Sciences Research-2022, 8th 9th August 2022.
- 2. Presented a paper "Nutritional and Anti-Nutrient Composition, Bioavailability, and Acute Toxicity Potential of Haematocarpus Validus" in the Biotic Science Congress (BioSCon), 2022, International Conference Recent Advances in Agricultural, Biological and Applied Sciences Research-2022, 8th 9th August 2022.
- 3. Presented a paper "Promotion of Potential Agri-Business Ventures in North-East India: A Way Forward" in the International Conference Recent Advances in Agricultural, Biological and Applied Sciences Research-2022, 8th - 9th August 2022.

Honours/Awards/Recognition/Membership/ Fellowship

Dr. Sasikumar R.

- 1. Outstanding Teacher Award for the year of 2022 by Society for Biotic and Environmental Research (SBER), Khowai, Tripura, India.
- 2. Dr. V.P. Tyagi Memorial Award for the year of 2022 for outstanding contribution and recognition in the field of Food Technology by Agricultural and Environmental Technology Development Society (AETDS), U.S. Nagar, Uttarakhand, India.
- 3. Scholars Academic and Scientific Society (SAS Society) recognized the contributions in academics and research and has provided the prestigious SAS Fellow Membership (FSASS) with Membership IDSAS/FSASS/542/2022.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

Details of	Name		1	Dr. Gino A	Dr. Sheena	Dr. R.
Faculties	rume		1	Sangma	Horongbam	Sasikumar
1 40411100	Date of Joining		2	11.06.2012	30.07.2012	09.08.2012
	Field of		3	Marketing,	Food	Food
	specialisation			Tourism &	Biochemistry &	Processing
	1			Value Chain	Analysis, Quality	and
				Management	Control in Food	Technology
					Industry	
(A)	UG		4	-	-	-
Teaching	PG, including		5	12	10	10
Experience	PhD					
(in Years)	D ' D 1		(37	N/	37
	Basic Research		7	Yes	Yes	Yes
	Applied Research			Yes	Yes	Yes
	Action Research		8	Yes	No	Yes
	Project Submitted		9 10	-	-	5
	Ongoing Project	C I	11	-	-	1
	Research Paper in UGC care list	Group I	12	- ,	-	4
	journals	Group II	12	-	-	-
	Books /Books	Books	13	-	-	_
(B)	chapters	Book	14			
Research	Published	Chapters	17	_	_	_
activities	Popular Articles	Chapters	15	_	_	_
	(News Paper/		13			
	Magazines)					
	Seminar /	National	16	-	-	2
	Conference/	International	17	-	-	2
	Symposia					
	organized					
	Seminar /	National	18	2	-	2
	Conference/	International	19	1	-	2
	Symposia					
	attended					
	Conference		20	-	-	2
	Proceedings		21			
	Consultancy		21 22	-	-	-
(C)	Applied		2.2	-	-	-
Patent	Published		23	-	-	1
1 atent						
	Granted		24	-	-	-
(D)	MOOC/SWAYA		25	-	-	-
E-Content	M/ E-content					
	developed Teaching		26	Yes		Yes
	/Extension		20	res	-	ies
	/outreach					
	activities					
(E)	Responsibilities		27	Yes	_	Yes
Any Other	other than					
	teaching					
	Awards/ Honours/		28	-	-	yes
	Recognition/					
	Membership/					
	Fellowship					
	Collaborations	National	29	-	-	Yes
		International	30	-	-	No

DEPARTMENT OF COMMERCE

Head (i/c): Dr. R.A.J. Syngkon **Telephone:** +91-364 - 272-3168/3161/3162

E-mail: hodcom@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
	N.M. Panda, M. Com, (Utkal University), Ph. D, (Manipur University)	Management Accounting & Entrepreneurship
Professor	A.P. Pati, M. Com., Ph.D (Utkal University)	Finance
	K.C. Kabra, M. Com., Ph.D (JRN Raj. Vidyapeeth University, Udaipur).	Accounting & Finance
Assistant	R.A.J. Syngkon, M.Com., Ph.D (NEHU).	Managerial Economics & Entrepreneurship
Professor	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 the 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 (i) microfinance, banking, corporate governance, corporate social responsibility & dividend policy, environmental accounting including carbon performance & carbon disclosure, and integrated reporting under accounting & finance (ii) entrepreneurship, small business management, small enterprises finance & marketing under entrepreneurship and management.

Brief Statement of Academic Activities and Achievements:

The department has 118 students at the Master's level and 13 scholars at the doctoral level. The department conducts seminars, workshops, awareness programmes, career counselling and NET coaching. Research scholars regularly make their six-monthly progress presentations to share their research findings. The majority of scholars are now publishing their research in UGC-CARE-listed journals. The students at the PG level are encouraged to make a presentation of their assignments.

Students' Profile

- > Enrolment Capacity: M.Com.:62, Ph.D.: Variable
- > Enrolment of students from different States of India and Abroad (M. Com.)

	G	en	S	ST	S	С	OBC		EWS		Total	
STATES	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	-	-	-	-	-	-	-	1	3	1	3
Manipur	-	-	1	-	-	-	-	-	-	-	1	-
Meghalaya	-	-	21	30	-	-	-	-	-	-	21	30
Mizoram	-	-	2	2	-	-	-	-	-	-	2	2
Sub Total	-	-	24	32	-	-	-	-	1	3	25	35
International	-	2		-	-	-	-	-	-	-		2
Total	2	2 56					-	•	62			

Degrees Awarded

- > Degree: M.Com. 35, Ph.D.: 04
- > Degrees Awarded to students from different States of India and Abroad (M. Com.)

	Gen		ST		SC	SC		OBC		EWS		PWD		TOTAL	
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Meghalaya	-	2	11	22	_	-	-	-	-	-	-	-	11	24	
Sub Total	-	2	11	22	-	-	-	-	-	-	-	-	11	24	
Total	2	2		33 -			-		-		-		35		

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Gen	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Meghalaya	-	-	1	1	-	-	-	-	-	-	-	-	1	1	
Assam	-	-	-	1	-	-	-	-	-	-	-	-	-	1	
West Bengal	-	-	-	-	-	1	-	-	-	-	-	-	-	1	
Sub Total	-	-	1	2	-	1	-	-	-	-	-	-	-	-	
Total	-	-		3 1		-		-		-		4			

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Ms. Rupjyoti Saha	"Corporate Governance, Voluntary Disclosure and Firm Value Relationship: An Indian Evidence".	Prof. K.C. Kabra
Ms. Vallarie Shisha Lyngdoh	"Entrepreneurs' Characteristics and Enterprise Growth: A Study of MSMEs in Meghalaya".	Dr. R.A.J. Syngkon
Mr. Kiefe Heibormi Passah	"Entrepreneurial Intention Among Post Graduate Students in North East India".	Prof. N.M. Panda
Ms. Loopamudra Baruah	"Impact of Corporate Social Responsibility on Reputation: Evidence from India".	Prof. N.M. Panda

Placement of Students

Name of the Student(s)	Organization	Place of Work
Tei Lalnunthari Sailung	Mizoram Rural Bank	Aizawl, Mizoram.
Lalchamliani	SBI	Aizawl, Mizoram
Aiborlang Nongsiej	Meghalaya Rural Bank	Shillong, Meghalaya
Milan Swett	Shillong College	Shillong, Meghalaya
Binny Sharma	St. Anthony's College,	Shillong, Meghalaya
Nandita Bhattacharjee	Birla Global University (BGU)	Bhubaneswar, Odisha
Carlina Vandana Lanong	Alpha College	Nongpoh, Meghalaya
Amanda Syiem	St. Anthony's College	Shillong, Meghalaya
Rijied L. Nonglait	St. Anthony's College	Shillong, Meghalaya
Ioh i-ka S. Dkhar	St. Anthony's College	Shillong, Meghalaya
Sambha Phawa	Thomas Jones College	Jowai, Meghalaya
Firsterson Lawriniang	Don Bosco College	Tura, Meghalaya
Phibalarishisha	Sngap Syiem College	Mawkyrwat, Meghalaya
Kharraswai		
Marbelsy Lyngdoh	Tourism Information Centre	Mawphlang, Meghalaya
Mephinlinda Sylliang	Office –Block Mission Co-	Mawkynrew, Meghalaya
	ordinator (SSA)	
Vanessa Christene	AVENUES	Shillong, Meghalaya
Lyngdoh		

Tengchimgrik G. Momin	Meghalaya Basin Management Agency (SPMU)	Shillong, Meghalaya
Daniel Nongrang	Olive Academy, Mairang	Meghalaya

Students selected for Higher Studies

Name of the	Name of the Institution/Organization		Country
Student(s)	Programme		
Asha Kumari Rai	PhD	Indian Institute of Technology (IIT),	India
		Indore, Madhya Pradesh	

Research Fellowship

CSIR- UGC- NET	UGC Non- Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	'Savitribal Jyotirao Phule Single Child Fellowship' UGC
03	03	Nil	Nil	01

Fieldwork/Educational Tour of Students

Teacher-in-Charge: Dr. S. Kharmawphlang and

Mr. Ronny Sawkmie (Assistant)

Places/Institutions Visited: Mumbai; Goa &

Kolkata

Duration of Tour (Dates and number of days): 10.01.2023 to 23.01.2023 (14 days).

Purpose of Tour: To give exposure to the students regarding the operation of RBI (the regulator of the Indian Banking System and the Country's Oldest Stock Market) in Mumbai; besides the Tourism Potentials of Goa (a State with diverse customs and traditions having a blend of tourism and agriculture with land and ancient ocean trade routes).

Courses Conducted

> Postgraduate: M. Com.

Semester-I (NEP 2020): Business Environment; Financial Management; Corporate Accounting, Marketing Management; Security Analysis, Retail Management and Entrepreneurship.

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

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 counting and Reporting, Security Analysis and Portfolio Management, and Management of Small Business.

> PhD Courses

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

Seminars/Conferences/Workshops/Symposia/ Extension Programmes

- 1. "Research Exchange Programme" for Departmental PhD Scholars with Visiting Research Scholars from the Department of Accountancy and Business Statistics, M L Sukhadia University, Udaipur held at the Department of Commerce, North Eastern Hill University, Shillong on 17th January, 2023. (Coordinator: Prof. K. C. Kabra).
- 2. An "Outreach Programme with Stakeholders on TDS Provisions" with technical support from the Department of Income Tax, Government of India, Shillong on 6th March 2023. (Coordinator: Prof. K. C. Kabra).

Publications

> Research Papers (13)

- 1. Singhania, A. K., Panda, N. M. (2022). Does AC effectiveness mediate the relationship between knowledge intensity and firm performance? Evidence from India. *Journal of Financial Reporting and Accounting*, (ahead-of-print). (Emerald, Scopus indexed)
- 2. Baishya, D., Panda, N. M. (2022). Experience of occupational stress across gender and professional

- characteristics of University teachers in India. *IUP Journal of Organizational Behavior*, 21(3),40-48. https://iupindia.in/0722/Organizational%20Behavior/Experience of.asp
- 3. Baishya, D., Panda, N. M. (2022). Occupational stress of University teachers of Assam: Does ownership status of universities matter? *Orissa Journal of Commerce*, 43(2), 144-160.
- 4. Baruah, L., Panda, N. M. (2022). Corporate social responsibility and reputation: A study on top 100 companies operating in India. *Indonesian Journal of Sustainability Accounting and Management*, 6(2), 264 -277. DOI: 10.28992/ijsam.v6i2.407 (Web of Science-indexed)
- 5. Bhattacharjee, N., Pati, A P. (2022). Efficiency and its determinants of systemically important shadow banks of India. *Global Business and Economic Review*. DOI: 10.1504/GBER.2023.10048272
- 6. Pati, A P. (2022). Systemic risk and bank characteristics relationship in India: post-GFC scenario. *Finance India*. XXXVI (2), 551-564
- 7. Bhattacharjee, N., Pati, A P. (2023). Exploring systemic risk measurement issues in shadow banks: A case of an emerging economy, *South Asian Journal of Macro Economics and Public Finance*. DOI: 10.1177/22779787221107716
- 8. Chettri, N., Kabra, K. C., Rani, N. (2022). Understanding the relationship between CSR and dividend policy: Review and future prospects. *Indonesian Journal of Sustainability Accounting and Management*, 6(1), 13–23. https://doi.org/10.28992/ijsam.v6i1.372
- 9. Makan, L.T., Kabra, K.C. (2023). Re-examining the relationship between carbon performance and carbon disclosure: empirical evidence from selected international companies. *International Journal of Sustainable Economy*. 15(2), 167–185.

Funds Received during the current Year

10. Ghose, B., Makan, L.T., Kabra, K.C. (2023), Impact of carbon productivity on firm performance: Moderating role of industry type and firm size. *Managerial Finance, Online First* 49(5), 866-883. https://doi.org/10.1108/MF-07-2022-0319

- 11. Ghose, B., Kabra, K. C. (2022). Impact of dividend payment on firms' leverage: Moderating role of firm size. *Vision: The Journal of Business Perspective*. https://doi.org/10.1177/09722629221131103
- 12. Binita Topno., Syngkon, RAJ. (2023), The entrepreneurial propensity: A study on the Adivasi entrepreneurs in Assam. *Journal of Rural Development.*, NIRDPR Scopus Journal 42 (1), 63-75
- 13. Adhyapak, N., Panda, B. (2022). Impact of COVID-19 on Informal Manufacturing Sector: A Case Study of Wearing Apparel Enterprises in Assam, *Man and Society*, 19(1): 25-52.

➤ Book Chapters (03)

- 1. Saha, Rupjyoti., Kabra K. C. (2023). What Determines Firms' Behaviour of Making Voluntary Disclosure?. In *Behavioural Finance and Investment Strategies*. J U Ahmed (Eds.). New Century Publications, New Delhi, ISBN: 978-81-7708-545-7, [Chapter 7, pp. 79-97]
- Kharmawphlang, S. (2022). Micro, Small and Medium Enterprises: The Aftermath of Pandemic. In *Indian Economy: Reforms and Revival*. K. D. Singh (Eds). Avon Publishing House, New Delhi, ISBN: 978-93-92632-04-4. [Chapter 7, pp. 68-97].
- 3. Kharmawphlang, S. (2022). A Study on Problems Confronted MSMSEs Borrowers on Raising Loan in Meghalaya. In *Holistic Research Perspectives*. R. Ganesan (Eds), National Foundation for Entrepreneurship Development, Vol. 8, ISBN: 978-81-954930-1-2. [Chapter 3, pp. 25-39].

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

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	1.00

Seminar/Conference/Symposium/Extension Programme etc.

Prof. N.M. Panda

- 1. Presented a paper titled "Board Committees and Financial Performance: The Trajectory of Empirical Research" at the International Seminar on Accounting, Finance, and Business Management, organised by the Department of Business Administration, Assam University, Silchar (India) on 27th September 2022 (Online Mode).
- 2. Presented a paper titled "Audit Committee Composition and Financial Performance: An Empirical Analysis of top listed Non-Financial Companies" at the International Seminar on Accounting, Finance, and Business Management, organised by the Department of Business Administration, Assam University, Silchar (India) on 27th September 2022 (Online Mode).

Prof. K.C. Kabra

- 1. Presented a paper on "CSR Expenditure and Firm Value: An Empirical Evidence from India" at the International Seminar on Accounting, Finance and Business Management (ISAFBM 2022), organised by the Department of Business Administration, Assam University, Silchar on 27th Sept 2022.
- 2. Presented a paper on "Gender Diversity of Board and Integrated Reporting Quality: Evidence from India" at the International Seminar on Accounting, Finance and Business Management (ISAFBM 2022), organised by the Department of Business Administration, Assam University, Silchar on 27th Sept 2022.
- 3. Presented a paper on "Voluntary Disclosure and Firm Value: Evidence from Top-Listed Firms in India" at the National Conference on Contemporary Issues in Accounting & Taxation, jointly organised by the Indian Accounting Association, Udaipur branch and J R Nagar Rajasthan Vidyapeeth University, Udaipur held on 27th -28th Feb 2023.
- 4. Presented a paper on "Professional Opportunities in Patent Act and Geographical Indications of Goods (GI) Act" at the National Seminar on Intellectual Property Rights: Emerging Trends and Challenges, organised by the IPR Cell, North Eastern Hill University, Shillong on 13th March 2023.

Dr. S. Kharmawphlang:

1. Presented a paper titled "Brand Equity and Purchase Intention Linkage: A Review of

Literature" at the International Seminar on Accounting, Finance and Business Management (ISAFBM'2022), organized by the Department of Business, Administration, Assam University, Silchar (India) on 27th September 2022.

Honours/Awards/Recognition/Membership/Fellowship

Prof. A.P. Pati

1. Member of the Board of Studies, Dept. of Commerce, Mizoram University, Mizoram.

Other Activities

Prof. N.M. Panda

- 1. Participated as a resource person at the IQSC sponsored National Seminar at PG Department of Commerce, Berhampur University and delivered an invited 'Strategic Business Decision' on 24th January 2023.
- 2. Participated as a resource person at the seminar organised by PG Department of Commerce, Hinjulicut Science College (Autonomous), Hinjulicut and delivered a talk on 'New Product Idea Generation and Innovation' on 24th Jan 2023.
- 3. Participated as a resource person at the National Seminar on Micro Finance and Financial Inclusion organised by Berhampur City College, and chaired the first technical section on the theme Micro Entrepreneurship on 22nd January 2023.
- 4. Participated as a resource person at the National Seminar on Entrepreneurship Development: A Tribal Prospective organised by the Department of Management, NEHU at Tura Campus, on 28th and 29th October, 2022 and chaired the second technical section.
- 5. Participated as a resource person at the seminar organised by RCM Science College, Khalikot, and delivered a talk on 'Entrepreneurship- An Alternative Career Opportunity for the Educative Youth' on 23rd Jan 2023.
- 6. Participated as a resource person on a Training Programme for AAAOs organised by Regional Training Institute (IA & AD) Shillong, and delivered lectures on "Leadership and Human Resource Management" on 29 Aug 2023.
- 7. Participated as a resource person at the Refresher course in Commerce and Management organised by Mizoram University on 1st June 2022 and delivered a talk on the topic 'The concept of Business Strategy and Strategic Management'.
- 8. Participated as a resource person at the Refresher course on "Economics, Commerce and Business Management" organized by NEHU HRDC and

- delivered in two sessions a talk on "Strategic Management as a Tool for Business Sustainability" during 18 and 20th June, 2022.
- 9. Reviewer for (i) Journal of Global Entrepreneurship Research, Springer; (ii) International Journal of Learning Futures, Emerald; (iii) Journal of Entrepreneurship in Emerging Economy, Emerald.

Prof. A.P. Pati

- 1. Participated in the National Seminar on Entrepreneurship Development: A Tribal Perspective, 28th-29th October 2022, organised by Dept. of Management, NEHU, Tura, Meghalaya.
- 2. Participated in the National Workshop on Leadership Development for Deans of Faculty and Heads of Departments of Universities, 23rd-25th November 2022, organized by the National Institute of Educational Planning and Administration, New Delhi.
- 3. Delivered an invited talk on "Research Methodology" at Dept. of Commerce, Utkal

- University, Bhubaneswar, Odisha on 11th February 2023.
- 4. Delivered a Lecture as a Resource Person in the Refresher Course on "Economics- Sustainability and Development", organised by HRDC, NEHU during 12th to 26th October 2022.
- 5. Delivered a Lecture as a Resource Person in the Refresher Course on "Economics, Commerce and Business Management," organised by HRDC, Mizoram University during 1st-14th June 2022.
- 6. Reviewer of (i) International Journal of Rural Management, (ii) Global Business Review, and (iii) Cognet Economics and Finance.

Prof. K.C. Kabra

1. Delivered an invited talk on the theme "Accounting Research & Accounting Education and National Education Policy" at a Workshop-I jointly organised by the Indian Accounting Association (Udaipur Branch) and J R Nagar Rajasthan Vidyapeeth University, Udaipur (Rajasthan) on 3rd January, 2023.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

Details of	Name		1	Nagari	Ambika	Kailash	Ricky A J	Shimti
Faculties				Mohan Panda	Prasad Pati	Chandra Kabra	Syngkon	Kharmawphla ng
	Date of Joining		2	16.09.1985	29.04.02	18.09.1993	10.04.2002	14.12.05
	Field of specialisation		3	Accounting & Finance	Finance	Accounting & Finance	Entrepreneurshi p	Management
(A) Teaching	UG		4	2	1.5	12	4	5
Experience (in Years)	PG, including PhD		5	39	26	21	25	18
	Basic Research		6	-	-	-	-	-
	Applied Research		7	YES	YES	YES	YES	YES
	Action Research		8	-	-	-	-	-
	Project Submitted		9	-	-	-	-	-
	Ongoing Project		10	-	-	-	-	-
	Research Paper in UGC care list	Group I	11	1	-	-	1	-
(B)	journals	Group II	12	3	3	4	-	-
Research activities	Books /Books	Books	13	-	-	-	-	-
	chapters Published	Book Chapters	14	-	-	1	-	2
	Popular Articles (News Paper/ Magazines)		15	-	-	-	-	-
	Seminar /	National	16	-	-	-	-	-
	Conference/ Symposia organized	International	17	-	-	-	-	-
	Seminar / Conference/	National	18	5	2	3	-	1
	Symposia attended	International	19	-	-	-	-	-
	Conference Proceedings		20	-	-	-	-	-
	Consultancy		21	-	-	-	-	-
	Applied		22	-	-	-	-	-
(C) Patent	Published		23	-	-	-	-	-
	Granted		24	-	-	-	-	-
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	-	-	-	-	-
	Teaching /Extension /outreach activities		26	Yes	Yes	Yes	Yes	Yes
(E)	Responsibilities other than teaching		27	3	1	1	1	No
Any Other	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	Yes	No	No	No
	Collaborations	National	29	No	No	No	No	No
		International	30	No	No	No	No	No

DEPARTMENT OF ECONOMICS

Head: Prof. S. Umdor **Telephone:** +91-364 – 272 3171

E-mail: hodeco@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization				
	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, Budgetary Economics				
Professor	Dr. U.K. De, M.Sc., M. Phil, Ph.D. (Burdwan)	Applied Econometrics, Environmental and Resource Economics, Agricultural Economics and Rural Development, Tourism Valuation, Issues on Empowerment of Women				
	Dr. B. Panda, M.A (Utkal), M. Phil (Berhampur), Ph. D	Economics of Development				
	Dr. S. Umdor, M.A., Ph. D. (NEHU)	Local Economic Development (LED), State Finances				
	Dr. P.S. Suresh, M.A., M. Phil (S.V. Univ.), Ph.D.(Hyd.)	Financial Economics				
Associate	Dr. V. Pala, M.A., Ph.D. (NEHU)	Poverty analysis, Labour market studies, Econometrics				
Professor	Dr. D. Nongkynrih, M.A, Ph. D (NEHU)	Economy of North-East India, Rural Studies, Labour and Gender				
Assistant	Dr. D.W. Thangkhiew, M.A., Ph.D. (NEHU)	Macroeconomics				
Professor	Dr. W. Tariang, M.A., Ph. D (NEHU)	Economics of Agriculture, Gender & Poverty				

Thrust Areas of Research

Issues and challenges in the development of Northeast East India.

Brief Statement of Academic Activities and achievements

The department was able to conduct two special lectures by eminent economists, two workshops on NEP 2020 and local government finances, as well as an ongoing research collaboration with Regional Training Institute, Indian Accounts and Audit Services, GoI.

Students' Profile

> Enrolment Capacity: M.A./M.Sc.- 67, PhD – Variable

> Enrolment of students from different States of India and Abroad (M. A./M. Sc.)

M.A/M.Sc.														
	Gen		ST		SC		OB	C	EW	S	PW	D	TO	ΓAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	-	-	-	1	-	-	-	-	-	-	-	-		1
Assam	1	1	-	1	-	-	-	1	-	4	-	-	1	7
Bihar	1	-	-		-	-	-	-	-	-	-	-	1	-
Manipur	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Meghalaya	-	-	23	25	-	-	-	-	-	-	-	-	23	25
Mizoram	-	-	3	2	-	-	-	-	-	-	-	-	3	2
West Bengal	-	2			-	-	-	-	-	-	-	-	_	2
Sub Total	2	3	26	31	-	-	-	1	-	4	-	-	28	39
Total	5		57		-	•	1		4		-	•	67	

Degrees Awarded

- > M.A./M.Sc.: 62, Ph.D.:02
- > Degrees Awarded to students from different States of India and Abroad (M.A./M.Sc.)

	Gen		ST		SC		OBC	7	EWS	S	PWI)	TOT	ΊΑL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Assam	-	1	-	1		1	-	-	1	2	-	-	1	5
Manipur	1	-	-	1	-	-	-	-	-	-	-	-	1	1
Meghalaya		1	13	35	-	-	-	-	-	-	-	-	13	36
Mizoram	-	-	-	2	-	-	-	-	-	-	-	-		2
Nagaland	-	-	-	2	-	-	-	-	-	-	-	-		2
Sub Total	1	2	13	42		1	-	-	1	2	-	-	15	47
Total	3		55		1		-		3		-		62	

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	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
Meghalaya	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Sub Total	-	1	-	1	-	-	-	-	-	-	-	-	-	2
Total	1		1	•	-	•	-	•	-	•	-		2	

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/
Ms. Kaveri Khound	"Ethnic Conflicts and Socio-Economic Development: A Case Study of Bodoland Territorial Area District of Assam."	Prof. Utpal Kumar De
Ms. Shedrina Grace Hynniewta	"Employment and Unemployment among Educated Youth in Meghalaya with Special Reference to Shillong Town."	Dr. D. Nongkynrih (Supervisor) & Prof. N. Srivastav (Joint Supervisor)

Research Fellowship

UGC- NET- JRF	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	NFST	Maulana Azad National Fellowship	ICSSR
8	7	1		1	3

Fieldwork/Educational Tour of Students Teacher-in-Charge: Dr. D. W. Thangkhiew Places/Institutions Visited: Mumbai and Goa Duration of Tour (Dates and number of days): 9th January, 2023 to 22nd January, 2023 (14 days)

Purpose of Tour to Mumbai and Goa: Experiential learning on the operation of the Mumbai Stock Exchange and the tourism sector of Goa.

Courses Conducted

Postgraduate

Semester-I (NEP 2020): Microeconomic Analysis, Techniques of Statistical Analysis, Budgetary Theory and Practice, Economics of Growth and Development, Classical Political Economy, Economy of North-Eastern Region.

Semester-II: Microeconomic Analysis-II, Macroeconomic Analysis-II, Techniques of Statistical Analysis, Economics of Growth & Development-II.

Semester-III: Elementary Econometrics, International Economics, Industrial Economics,

Financial Economics, Economics of Agriculture, Economy of North-Eastern Region.

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

PhD Courses

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

Seminars/Conferences/Workshops/ Symposia/Extension Programmes

- 1. An eminent social scientist lecture on the topic "Migration, Remittances and Development" delivered by Dr. Dilip Ratha, Lead Economist, Migration and Remittances, World Bank, Washington DC on 28th February 2023 in the cluster of classrooms, Social Sciences and Humanities. (Coordinator: Prof. B. Panda).
- 2. A distinguished foreign policy lecture themed "Identity Politics in South West Africa and South Africa: Tribal and Ethnic Factors" in collaboration with the OIA-NEHU, delivered by Ambassador (Retd.) Mahesh Sachdev on 6th December 2022 in the conference hall of ICSSR-NERC, Shillong. (Coordinator: Prof. B. Panda).
- 3. Research Methodology Workshop in NSS Unit Level Data Extraction organized by ICSSR NERC, NEHU Campus Shillong from 29th August to 2nd September 2022. (Coordinator: Dr. W. Tariang).
- 4. 2-Day Workshop on "Issues and Challenges in the Implementation of NEP in Undergraduate Courses in Meghalaya" on 22-23th July, 2022 in collaboration with ST. Anthony's College, Shillong. (Coordinator: Prof. S. Umdor).
- 5. One Day State Conference on Strengthening the "Finances and Financial Accountability of Autonomous District Councils in Meghalaya" organized in collaboration with the Meghalaya Institute of Governance, Govt. of Meghalaya on 29 August, 2023. (Coordinator: Prof. S. Umdor)
- 6. Refresher Course on "Sustainable Development" during 12th -26th October, 2022. (Coordinator: Dr. W. Tariang).
- 7. A special Lecture by Prof. G Chandra Shekhar Rai (Rtd) of S. V University, Andhra Pradesh, on 13 April 2022. (Coordinator: Prof. S. Umdor)
- 8. A special lecture by Dr. Micheal D. Patra Deputy Governor of RBI on the topic "India at 75-Issues, Concerns and the way Forward vis-a-vis

Eastern India" on 13 June, 2022. (Coordinator: Prof. S. Umdor).

Publications

> Research Papers (23)

- 1. Muchahary, P., Nayak, P. (2022). Convergence and divergence hypotheses: Re-examination of global and Indian economies, *Hill Geographer*, 38(1), 1-17.
- 2. Das, P., Nayak, P. (2022). Valuation of unpaid domestic work of women: A study of four districts of Assam. *Labour & Development*, 29(1), 50-70.
- 3. Hassan, S.U., Khanday, Shafi Ah., Mishra, B., Ahmad, Masroor., Rymbai. Motika Sinha. (2022). A historical cum empirical overview of agriculture spending and output nexus in India. *AGRIS on-line Papers in Economics and Informatics*, XIV (3), 27-41, *AgEcon Search*. http://ageconsearch.umn.edu
- 4. Hassan, S.U., Mishra, B., Alam, Tobin. (2021). An Analysis of fiscal policy stimulus and response of public debt under covid 19: An Indian perspective. *The Indian Journal of Economics*, CII (404), 139-172 [Part 1]
- 5. De, U. K., Devi, L. Hena. (2023). Inequality dynamics in urban Manipur: A decomposition analysis, *Social Indicators Research*, 167(1-3), 67-89. *Springer*. https://doi.org/10.1007/s1205-023-03096-8(ISSN: 0303-8300, 1573-0921)
- 6. Solomon, S., De, U.K. (2023). Quantifying vulnerability to poverty in rural Manipur: A study of agricultural households from NSSO 70th Round Data. *Millennial Asia*, *Sage* DOI: 10.1177/09763996231165911
- 7. De, U.K., Khound, K. (2023). Migration-ethnosocial conflict-development interface in Bodoland, India. *NOVYI MIR Research Journal*. 8(1), 640-657. DOI:16.10098.NMRJ. 2022.V8I1.256342.3577
- 8. De, U.K., Vupru, V. (2023). Does surrounding environment matter in residential choice? A study in India's urban north-east. *Advances Urban Regional*. 1(1), 17-22.
- 9. De, U.K. (2023). Environmental kuznets curve for CO₂ emission in India: Way for pollution control and sustainable growth. *Society & Change*. XVI (4), 43-66.
- 10. De, U.K., Borah, B. (2022). Impact of Covid-19 pandemic on tourism in India" *Journal of Tourism & Sports Management*. 4(2), 1117-1127.

- 11. De, U. K., 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.
- 12. Karim, M., Huq, M., De, U.K. (2022). Volatility pattern and risk sensitivity in DSE: Pre and post-market shutdown due to COVID-19", *Jagannath University Journal of Economics*, Bangladesh. 4(1), 14-25.
- 13. Shullai, Kenn., Panda, Bhagirathi (2022). Human development: A case study on learning outcomes in urban Meghalaya, *GUINEIS Journal*, 9: 147-160.
- 14. Adhyapak, Nilamand., Panda, Bhagirathi. (2023). Urban unorganized sector of north-east India: Dimensions and growth, *Parikalpana*, 19.1, 43-64
- 15. Adhyapak, Nilamand., Panda, Bhagirathi. (2023). Linkage between informal and formal wearing apparel sector in Assam: An Economic Analysis. *Social Change and Development*, 20(1), 60-79.
- 16. Hrahsel, A., Umdor, S. (2022). Place-based industrial policy and changes in the manufacturing sector in North East India, *Review of Development and Change*, 27 (1),
- 17. Sasidhar, P.S., P. Srinivasa Suresh. (2022). Empirical estimation of climate change impacts on consumption pattern of agricultural households in India. *AP Jol. of Agricultural Sciences*. 8(4),78-91.
- 18. Pala, V., Nongspung, A. (2022). Trends in wages of regular wage employees and casual workers in Indian states. *The Indian Journal of Labour Economics*, 65(3), 667-687. https://doi.org/10.1007/s41027-022-00386-6
- 19. Rymbai, M.S., Thangkhiew, D.W. (2022). An evaluation of the public healthcare services and COVID-19 in the north-eastern states of India: A quantitative study. *Chettinad Health City MedJ*. 11(2), 15-23. DOI: https://doi.org/10.24321/2278.2044.202212
- 20. Rymbai, M.S., Thangkhiew, D.W. (2022). Does health financial resource correlate with physical health infrastructure? *Indian J Public Health*. 66, 287-91. DOI:10.4103/ jph.jph 535_22
- 21. Rymbai, M.S., Thangkhiew, D. W. (2022). Evidence of prioritization towards health finance: A macroeconomic perspective. *South India J. of Social Science* XX (1),
- 22. Mawkhiew, B., Thangkhiew, D. W. (2022). Characteristics of enterprises more likely to face constraints in the unorganised manufacturing sector in India. *Small Enterprises Development*,

- Management & Extension Journal. 2022; 1-10; DOI: 10.1177/09708464221130910
- 23. Awomi, E. Z., Tariang, W. (2022). Targeting the poor women-headed households in the pursuit to end poverty: A case study of Zunheboto district of Nagaland in northeast India. *International Journal of Research- GRANTHAALAYA*, 10(11), 173-192. http://doi:10.29121/granthaalayah.v10.i11.2022.

4910 **▶ Books (01)**

1. De, U. K. and Vupru, V. (2023). *Urban Housing* in Hill State: Demands and Determinants – An Experience in North East India. Concept Publishing Company Ltd., New Delhi, ISBN: 978-93-5594-6249.

Edited Books/Volumes (01)

1. De, U. K., Mehta, S. & Kapoor, M. (2022). The State of Economic Development in South Asia: A Compendium of Deliberations: Econ Dev Discussion 2020-21. Kindle Edition, IMPRI, New Delhi, ISBN: 978-81-951187-0-0.

➤ Book Chapters (07)

- 1. De, U.K. (2022). Livelihood of the Forest Dwellers and Degradation of Forest Biodiversity: Evidence from Sariska National Park, India. In *Environmental Issues: A Multidisciplinary Approach*. S. Bhattacharya (Eds), Vivekananda College for Women, Kolkata, ISBN: 978-81-951736-0-0. pp. 78-
- 2. De, U.K. (2022). Changing Face of Empowerment of Rural Women: Case of Some Tribal Societies in Two North-East Indian States. In *Philosophy of Tribal Culture and Religion: An Emerging Trend*. G. Debnath and C. Taran (Eds) Niharika Publishers, Agartala, ISBN: 978-81-953262-9-7. pp. 34-56.
- 3. Panda, B. (2023). Structural Transformation, Innovations and Institutions: A Study of the Economy of The North Eastern Region of India. In *Innovation Systems, Economic Development and Public Policy Sustainable Options from Emerging Economies*, Swati Mehta and Baldev Singh Shergill (Eds.). Routledge Publications, New Delhi, ISBN: 978-10-03353-90-4, [Chapter 12, pp. 240-250].
- 4. Nongkynrih, D. (2023). Data Collection. In *Research Methodology*. S. Khyriemmujat, B.M. Laloo and S. Khongwir (Eds.), EBH Publishers, India, ISBN: 978-93-92038-23-5, [Chapter 3, pp.26-41].
- 5. Nongkynrih, D. (2023). Border Lands through a New Prism: An Overview of Indo-Bangladesh Border Trade Through North East India. In *Cross Border Connectivity and Inclusive Growth Vol-*

- 1. S. Sarma, E. Kharkongor and S. Khyriemmujat (Eds), EBH Publishers, India, ISBN: 978-93-92038-49-5, [Chapter 16, pp.143-153].
- 6. Lyngdoh, B., Tariang, W. (2022). Expenditure Pattern of Women-Headed Households in Meghalaya: Role of female Income on Household Welfare. In *A Retrospection into Meghalaya's 50 Years Journey of Statehood*. David A. Kharchandy (Eds). Lakshi Pyblishers and Distributors, New Delhi, ISBN: 978-81-94893-61-5, [Chapter 18, pp.257-272].
- 7. Umdor, S., Vanlalhruaitluanga, K. (2022). Financial Accountability and Transparency of Autonomous District Councils in the Sixth Schedule Areas of Mizoram: A Review of Issues, Administration and Local Governance. In *North East India*. Bidhu Kanti Das, Carolyn Vanlalhriati and Lalhmingliana Renthlei, (Eds.), ISBN: 978-81-941226-2-3. pp, 11-20.

Funds Received during the current Year

> Popular Articles in News Paper and Magazines (06)

- 1. Panda, Bhagirathi. (2022). NEP 2020 and Higher Education: Rationale and Strategy, The Shillong Times, August 10th 2022.
- 2. Panda, Bhagirathi (2022). Sustainable Development Goals (SDG) and North East India, The Shillong Times, 17th November, 2022.
- 3. Umdor, S. (2022). Undergraduate Education Reforms in Meghalaya, The Shillong Times, 4 June, 2022.
- 4. Umdor, S. (2023). Poll Manifesto: Promises and Realities, The Shillong Times, 7 February, 2023.
- 5. Umdor, S. (2023). Poll Manifesto: Promises and Realities-II, The Shillong Times, 18 February, 2023.
- 6. Umdor, S. (2022). MOOCs: Bridging the Graduate Skill Gaps in Meghalaya, 17, March, 2023.

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

Sl. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	1.00 (Annual Allocation)

Seminars/Conferences/Workshops/Symposia/ Extension Programmes

Prof. B. Mishra

- 1. Delivered a lecture on "Concepts of Public Economics" as a Resource person at the Regional Training Institute of Indian Audit and Accounts, Shillong on 7th November 2022.
- 2. Deliver the keynote address on "Challenges for Economic Growth" in the 3rd Annual Conference of Indian Economic and Allied Sciences Association (IEASA), organized by IEASA at Agra, from 18th November to 20th November, 2022.

Prof. U. K. De

- 1. Presented a paper on "India's Trade with ASEAN and SAARC Countries: Prospect of Bodoland, Assam" in the Bodoland International Knowledge Festival 2023, held at Bodoland University, Assam during 27th February 2023 to 02nd March 2023.
- 2. Presented a paper on "Validity of EKC for CO₂ Emission in India: Way for Pollution Control and Sustainable Growth" in the INSEARCH 2022 8th International Integrative Research Conference on Governance in Society, Business and

- Environment at BARD, Cumilla, Bangladesh on 29th December 2022.
- 3. Delivered Keynote Address in the *INSEARCH* 2022 8th International Integrative Research Conference on Governance in Society, Business and Environment at BARD, Cumilla, Bangladesh on 29th December 2022.
- 4. Presented a paper on "Environment Kuznets curve for CO₂ Emission in India: Way for Pollution Control and Sustainable Growth" Indialics International Conference 2022 India's Innovation System @ 75: Achievements, Limits and Way Forward Organized by the School of Humanities and Social Sciences, IIT Indore during 21-23th December 2022.
- 5. Presented a paper "Inequality in Household Consumption Expenditure: Study in the context of Manipur, a North-Eastern State of India" in the Second Biennial Conference on Development: Sustainable Development Goals Amidst Multiple Global Shocks: Progress, Challenges and Way Forward organized by the Indira Gandhi Institute of Development Research (IGIDR), Mumbai between December 21-23, 2022.
- 6. Presented a paper "Incidence of Poverty in Manipur and the Potential Reasons: Evidence from NSS Data" in the Second Biennial Conference on Development:

Sustainable Development Goals Amidst Multiple Global Shocks: Progress, Challenges and Way Forward organized by the Indira Gandhi Institute of Development Research (IGIDR), Mumbai between December 21-23, 2022.

- 7. Presented a paper "Vulnerability in Rice Production across Agro-Climatic Zones of Assam, India and the Related Factors" in the Second Biennial Conference on Development: Sustainable Development Goals Amidst Multiple Global Shocks: Progress, Challenges and Way Forward organized by the Indira Gandhi Institute of Development Research (IGIDR), Mumbai between December 21-23, 2022.
- 8. Presented a paper on "Dynamics of Agricultural Vulnerability and its Components in Sub-Himalayan Region of India: Perspectives from Panel Data" in the International Seminar on Environment Management and Society in India with Special Focus on North-East India organized by NEICSSR at Don Bosco Institute of Management, Assam Don Bosco University on 8-9th December, 2022.
- 9. Presented a paper on "Changing Multidimensional Deprivation in Manipur, India: A Study based on NSSO and NFHS Data" in the CEDECON's Annual International Conference in Economics of Central Department of Economics (CEDECON), Tribhuvan University, Kathmandu, Nepal during 20-22 September, 2022.

10.

Pesented 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.

11.

Presented paper on "Quantifying Vulnerability to Poverty in Rural Manipur: A Study of Agricultural Households from NSSO 70th Round Data" in the 23rd NEEA Annual Conference held at Tripura University during 16-18 November, 2022.

12.

Presented paper on "Economic Inequality and Deprivation in Manipur, a North-Eastern State of India" in the 23rd NEEA Annual Conference held at Tripura University during 16-18th November, 2022.

13.

Presented paper on "Climate Vulnerability and Yield of Rice in Assam: An Assessment" in the 82nd Annual Conference of the Indian Society of Agricultural Economics held at Central

Agricultural University, Imphal (Manipur) during November 10-12, 2022.

Prof. B. Panda

- 1. Delivered the keynote address "Act East Policy, Regional Economic Integration and Connectivity in NER" in the National Seminar on Connectivity Improvements in Northeast India through the Act East Policy since 2014, organized by the department of economics, Gauhati University on 25th March 2023 at conference hall, Gauhati University.
- 2. Presented a paper "Economic Integration of Meghalaya with Bangladesh: An Analysis" in the UGC (SAP-DRS-II) National Seminar on Sub-Regional Cooperation for Trade, Investment and Employment with reference to Northeastern States of India, organized by the Department of Economics, Tripura University on 23rd March 2023 at the conference hall, department of economics.
- 3. Delivered the Keynote address "NEP 2020, North East India and Imperatives of its Implementation" in the One Day National Seminar Higher Education in the Context of NEP 2020, organised by I.G. Govt. College, Tezu, Arunachal Pradesh on 10th February 2023 at Tezu.
- 4. Delivered a special lecture "Act East Policy and Development of North East India" in the National Seminar on Borders and Boundaries in North East India, organised by ICSSR-NERC, Shillong on 1-2nd December 2022 at ICSSR-NERC conference hall.
- 5. Delivered the keynote address "Entrepreneurship and Sustainable Development in the Tribal Society of North East" on 28th October 22 in the national seminar on Entrepreneurship Development: A Tribal Perspective, organised by the Department of Management, NEHU, Tura Campus, Tura, Meghalaya on 28-29th October 2022.
- 6. Delivered the keynote address "Research in Social Science: Issues and Challenges" in the national Two Week Capacity Building Programme on Research & Training-Learning Process for the Faculty in Social Sciences, organised by University of Science, Technology and Management held during 27th October to 9th November 2022 at USTM, Meghalaya.
- 7. Delivered the Keynote address entitled "Atmanirbhar Bharat: Opportunities and Challenges in North East India and Way Forward" in the national seminar on Atmanirbhar Bharat: Opportunities and Challenges in North East India and Way Forward, organised by

- Nowgong College (Autonomous), and held at Nowgong, Assam on 23rd September 2022.
- 8. Presented a paper entitled "Positioning India's North East in the Confluence of IPOI and AOIP Visions" at the International Conference on Connecting East: Confluence of IPOI And AOIP Visions, organised by Association of Asia Scholars in partnership with Ministry of External Affairs, Government of India, during 1st -3rd September 2022, India Habitat, New Delhi.
- 9. Delivered the Keynote address "Research in Social Science in the North East: Issues and Challenges" in the National workshop on Research Methodology for Economics and other Social Sciences, organised by the Department of Economics, Cotton University, Guwahati during 1-7th July 2022.

10.
elivered an invited lecture entitled "Development and Governance in Meghalaya: An Examination" in the National Seminar on Governance and Development in Meghalaya jointly organised by the Meghalaya College Teachers Association and UCC on 7th July 2022 at UCC Campus, Barapani, Shillong.

Prof. S. Umdor

- 1. Presented a paper on "Financial Transparency and Accounting of Autonomous District Councils in the Sixth Schedule Areas of Mizoram: A Review of Issues" in the National Seminar on Local Governance and Management in Northeast India, organised by Rajiv Gandhi National Institute of Youth Development and the Department of Management Mizoram University during 26-27th May, 2022.
- 2. Presented a paper on "Rethinking Industrial Policy for the Northeast India" in the National Seminar on Local Governance and Management in Northeast India, organised by Rajiv Gandhi National Institute of Youth Development and the Department of Management Mizoram University during 26-27 May, 2022.

Academic Collaborations

> National

Name of the	Collaborating	Title of project or any	Duration
Collaborators	Institution(s)	academic activity	
Prof. Bhagirathi		Organizing of seminars, research	1 st April
Panda	ICSSR	methodology courses and invited	2022 to 31st
Panda		lectures.	March 2023
Prof. U. K. De	Indian Statistical	Teaching 'Financial Models in	7 th February
1 101. U. K. DC	Institute, Giridih	Agriculture' of the Course of	2022 to 30 th
	Centre	"Agricultural Economics and	June 2022

3. Presented a paper on "Grassroots Governance and Decentralization in the Sixth Schedule" in the First Purno A Sangma Memorial Lecture Cum International Seminar organised by Bodoland University on 14th May 2022.

- 4. Presented a paper on "Sources of Revenue of ADCs in Meghalaya" in the One Day State Conference on Strengthening the Finances and Financial Accountability of Autonomous District Councils in Meghalaya, organised by the Meghalaya Institute of Governance, Govt. of Meghalaya in Collaboration with the Department of Economics, NEHU on the 129th of August, 2022.
- 5. Presented a paper on "Local Government and Economic Development" in the National Seminar on Fiscal Policy and Economic Development: Sustainability Perspective in the North eastern States of India, organised by K K Hand Dque State Open University, & OKD Institute of Social Change and Development on the 21-22nd March 2023.
- 6. Presented a paper on "Examining the Role of ADC in the Economic Development of Meghalaya" in the National Seminar Meghalaya in the 21st century, organised by Women, College, Shillong during 3-4th March, 2023.

Dr. V. Pala

- 1. Presented a paper titled "An Overview of Income, Employment and Means of Livelihood in Meghalaya", in the National Seminar on Governance and Development in Meghalaya, organized by the Union Christian College and Meghalaya College Teachers' Association at Union Christian College on July 7, 2022.
- 2. Participated in the Online Workshop on National Education Policy (NEP) 2020 on the theme "National Skills Qualification Framework (NSQF)" organized by the UGC-HRDC, North-Eastern Hill University Shillong, on 16th June 2022.

		Agricultural Marketing" to the PGD-ARSMA students.	
Prof. S. Umdor	Regional Training Institute, Indian Audit and Accounts Department, Government of India	Accounting framework of Autonomous District Councils	22 nd March 2022 to Ongoing

> International

Name of	Name of	Title of the	Sponsoring	Duration
Collaborators	Collaborating	Project	Agencies	
	Institutions			
Dr. Veronica	University of	Investigating	Swiss National	February
Pala &	St. Gallen,	Informal	Science	2023 to
Charlotta Sirén	Switzerland	Entrepreneurship	Foundation and	January
	and North-	in Indian Slums	Indian Council of	2026
	Eastern Hill	with Satellite	Social Science	
	University,	Data	Research	
	India			

$Honours/Awards/Recognition/Membership/\\ Fellowship$

Prof. U. K. De

- 1. International Advisor, Annals of Statistical Theory and Applications, Nigerian Statistical Society, Nigeria (ISSN: 2214-1766 (Online), 1538-7887 (Print).
- 2. Editor, Journal of Climatology and Weather Forecasting, Longdom Publishing, Belgium (ISSN: 2332-2594).
- 3. Member of Moderation board, West Bengal College Service Commission.
- 4. Vice president of North-East India Council for Social Science Research.
- 5. Member, Editorial Board, International Journal of Business Policy and Economics, Serials Publications, (ISSN: 0973-5801).

Prof. B. Panda

- 1. Elected as the Vice-President of North East Economic Association (NEEA) for the year 2022-23.
- 2. Member of the Executive Council of the prestigious ECI-IIIDEM MA Project of TISS, Mumbai.
- 3. Editor, Man and Society, Journal of ICSSR-NERC, Shillong.

Prof. S. Umdor

- 1. Member of the Meghalaya State Audit Advisory Board, Indian Audit and Accounts Department, Government of India.
- 2. Member of the Board of Meghalaya Board of School Education (MBOSE), Meghalaya.

Dr. V. Pala

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

Dr. W. Tariang

1. Life Member of the Indian Economics and Allied Sciences Association.

Other Activities/achievements

Prof. B. Mishra

1. Chaired a session in the National Seminar on Entrepreneurship Development: A Tribal Perspective, organized by the Department of Management, NEHU, Tura Campus on 28th - 29th October 2022.

Prof. U. K. De

- Delivered an invited lecture on "Education, Adaptation to Climate Change and Sustainability of Agriculture: Experience from North East India" at St. Dominic's College, Shillong on 16th May, 2023.
- 2. Delivered an Invited Lecture on "Climate Change, Agriculture and Adaptation in South Asia" at

- Department of Economics, Patan Multiple Campus of Tribhuban University on 23 September, 2022.
- 3. Delivered invited 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.
- 4. Delivered as a Resource Person a lecture on "Technology and Innovation for Agriculture and Rural Development" on 17 October, 2022 in University of Jammu, Udhampur Campus.
- 5. Delivered three lectures on 19th October, 2022 and 26th October 2022 on "Sustainability and Development" in Refresher Course in Economics, NEHU during 12 to 26 October, 2022.
- 6. Delivered a lecture on 20th October 2022 on "Tourism and Social Integration with Neighbours: A Sustainable Alternative for the Development of North-East" in the Refresher Course in Political Science, NEHU during 11th to 25th October, 2022.
- 7. Delivered a lecture on "Sampling and Surveys; Regression, Correlation Analysis" on 22nd October 2022, in the Training Course on Data Analytics for Policy Research, organised by IMPRI Impact and Policy Research Institute, New Delhi, during 15th October 2022 to 19th October 2022.
- 8. Acted as a Panelist in the Panel Discussion on "South Asia's Regional Integration in the 21st Century." in the *CEDECON's Annual International Conference in Economics* of Central Department of Economics (CEDECON), Tribhuvan University, Kathmandu, Nepal during 20-22 September, 2022.
- 9. Chaired and moderated a panel session on "BTR in the Lights of Act East Policy" on 01-03-2023 in the *Bodoland International Knowledge Festival* 2023 held at Bodoland University, Assam during 27-02-2023 to 02-03-2023.
- 10. Participated and chaired a session in the consultation workshop on "Knowledge Building on Health and Family Welfare in North-East Region" held on 10th February 2023 at Radisson Blu Hotel, Guwahati by the Population Council and the RASTA Initiative with Government institution, programme implementers, policy makers, and researchers working in the North-East region of the country.
- 11. 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 University on 28th May 2022.
- 12. Chaired and moderated invited lecture session delivered by *Salvatore Babones*, of University of Sydney, on the topic "The New Economic Geography: Global Production Networks in the Post-GFC, Post-Coronavirus World" Society of International Affairs, Tetso College, Nagaland in collaboration with IWAS on 14th October, 2022.
- 13. Delivered Invited Keynote Address on "Changes in Higher Education in India: Question for Sustainability" in the NAAC Sponsored National Seminar *on* "Transitional Mechanism of Higher Educational Institutions for Achieving Sustainability" organized by Women's College, Tinsukia, Assam 14-15 October, 2022.
- 14. Chaired a session in the Global Hospitality and Tourism Conference on Contemporary Marketing Paradigms (GHTC) during 27-29 July, 2022 at NERIST, Arunachal Praesh.
- 15. Chaired a panel session on "BTR in the lights of Act East Policy" on 01-03-2023 in in the Bodoland International Knowledge Festival 2023 held at Bodoland University, Assam during 27th February 2023 to 02nd March 2023.
- 16. Reviewers for the following journals of national/international repute: Economic Analysis and Policy (Elsevier), Global Ecology and Conservation (Elsevier), IIMB Management Review (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 Agricultural Extension and Rural Development (Academic), International Journal of Agricultural (Inderscience), Governance Ecology (Inderscience), Arthaniti (Sage).Journal of Tekirdag Agricultural Faculty (Namik Kemal University, Turkey), Indian Economic Journal (Sage)

Prof. B. Panda

- 1. Delivered an invited talk "Entrepreneurship and Economic Development in North East India" on 22nd April 2022 in the Entrepreneurship Awareness Camp (EAC) organised by the Department of Biomedical Engineering, NEHU, Shillong during 20th to 22nd April, 2023 in collaboration with EDI Ahmedabad.
- 2. Delivered an invited talk 'Sustainable Development and the North East' in the National Seminar on "Inclusive and Sustainable Development for Self-Reliant India (Atmanirbhar Bharat)", organised by the School of Social Sciences, Kaziranga University, Assam held during 29th and 30thMarch 2023.
- 3. Delivered an invited talk 'Sustainable Development and Public Finance-The Case of the North Eastern States of India' in the national seminar on "Economic Development and Fiscal Policy in the North East" organized by K.K. Handique State Open University, held at Guwahati on 21-22nd March 2023.
- 4. Delivered an invited talk on "Sustainability of Development' in the national seminar on *Sustainability towards a Renewed Existence* organised by Synod College, Synod on 25th August 2022.
- 5. Delivered an invited lecture "Social Science Research and use of National Sample Survey Data" in the valedictory session of the two week national Level online FDP on Dealing with NSS Unit Level Data, organised by School of Social Science at KKH State Open University on May 11, 2022.
- 6. As Honorary Director of ICSSR-NERC, organised a national seminar on 'Borders and Boundaries in North East India' held in ICSSR-NERC, Shillong during 1-2nd December 2022. This seminar has benefitted research scholars and faculties of NEHU and many other colleges in different parts of the North East and the country.
- 7. Helped as AFS India and Embassy of Japan, India to select students from NEHU to visit Japan under the Japan-East Asia Network of Exchange for Students and Youths 2022.
- 8. As the honorary director of ICSSR-NERC, Shillong has facilitated colleges, universities and research institutes in North East India to organize seminars, conferences and workshops on matters of regional and national development.
- 9. Organised as course director a one week workshop on 'Research Methodology in NSSO unit level data extraction with STRATA' held in ICSSR-NERC, Shillong from 29-3rd September 2022. This has extensively helped the research scholars of

- NEHU and other parts of the North-East in the expansion of their ability to analyse quantitative data.
- 10. Organised in collaboration with Positive Energy Art Foundation, Shillong, a 5 days international workshop titled "Cross Cultural Indemnities: A Dialogue" through Art" from 4-8th July 2022 at the premises of ICSSR-NERC, Shillong.
- 11. Organised an invited lecture on the topic 'Indigenisation of Social Science' delivered by Prof. Sheila Rai on 2nd June 2022 in the conference hall of ICSSR-NERC, Shillong.
- 12. Organised in collaboration with Association of Asian Scholars the national conference on 'Act East Policy, Regional Economic Integration and Development of the North Eastern Region of India' on 13th May 2022 in the conference hall of ICSSR-NERC, Shillong.
- 13. Organised an invited lecture on the topic 'False News, Journalism through the lenses of Human Rights' delivered by Ms. Patricia Mukhim, Editor, Shillong times on 16th June 2022 in the conference hall of ICSSR-NERC, Shillong.
- 14. Participated as an invited panellist in the panel discussion on the book'Modi@20: Dreams meeting Delivery' organised by Mizoram University, Mizoram on 16th August 2020.
- 15. Acted as a panelist in a panel discussion on the topic "India on course to become the Third Largest Economy of the World by 2030" organised by the department of Commerce, St. Anthony's College, Shillong on 26th October 2022 as a part of 75 years of existence of the college.
- 16. Acted as a Panelist in a panel discussion on the topic "India and her neighbouring countries" in a plenary session of the 23rd Annual Conference of the North Eastern Economic Association, organised by Tripura University, Agartala on 17th November 2022.
- 17. Acted as a Discussant in the Technical Session VI of the IndiaLICS conference 2022, held on 23rd December, 2022 on the topic: "Innovation System: Focus on General Sustainability-RIS" organised by the Department of Humanities and Social Sciences, IIT Indore.
- 18. Chaired and moderated a technical session in the Indian Economic Association held in Jain University, Bengaluru from 27-29th December 2022.
- 19. Acted as a panelist in the online national shadow union budget discussion "Industry Expectation and Wishlist-Vision 2030 for the North Eastern Region" jointly organised by ASSOCHAM,

- EGROW FOUNDATION and Tripura University on 20th January 2023.
- 20. Acted as a Discussant in the plenary symposium on "Creating Decent Livelihoods and Employment Opportunities in Hill Economies of North-East India" organised by Centre for Development Studies, Rajiv Gandhi University, and Institute for Human Development (IHD), New Delhi, held at RGU campus as a part of the 63rd annual conference of the Indian Society of Labour Economics on 3rd March 2023.
- 21. Acted as a Panellist in the national level panel discussion on the topic "Trade and Connectivity via Land Ports: Unleashing Opportunities for North-Eastern States" held on 21st of March 2023 at Dawki, Meghalaya and organised by LPAI, New Delhi.
- 22. Delivered an online lecture entitled 'Role of Research and research organisations in Teaching and Professional Development' on 21st February 2023 in the *Month-long Online Faculty Induction Program* organised by Teaching Learning Centre (TLC), Tezpur University, Tezpur, Assam during 01 February 02 March 2023.
- 23. Delivered three lectures entitled "Sustainable Development-Theory and Practice-I", Sustainable Development: Theory and Practice-II, and " Positioning the North East in the SGD framework: An Analysis' on 14th and 25th of October 2022 in the 15 days refresher course in Economics organised by HRDC, NEHU and coordinated by the department of Economics and held on 12th -26th of October 2022.
- 24. Delivered a lecture entitled "Development Deficit in North East India: An Analysis" on 12th October 22 in the 15 days refresher course in Political Science organised by HRDC, coordinated by Department of Political Science, NEHU and held on 11th to 25th of October 2022.
- 25. Delivered an online lecture entitled 'Role of Research in Teaching and Professional Development' on 24th August 2022 in the *Monthlong Online Faculty Induction Program* organised by Teaching Learning Centre (TLC), Tezpur University, Tezpur, Assam during 02-31 August, 2022.
- 26. Delivered one lecture entitled "Theory and Practice of Economic Development: A Journey" in the special summer school on the topic: Society, Polity and Economy" for teachers of University

- and Colleges conducted by HRDC, Mizoram University, Shillong on 20th June 2022.
- 27. Delivered one lecture entitled "Role and Responsibility of Higher Educational Institutions: ICSSR" in the 9th Faculty Induction Programme for teachers of University and Colleges conducted by HRDC, NEHU, Shillong on 10th June 2022.
- 28. Delivered two lectures entitled "Higher Education in India: Current Status and Challenges" and "Current Trends of Global Education" in the 10thFaculty Induction Programme for teachers of University and Colleges conducted by HRDC, Shillong on 8th July 2022.
- 29. Delivered two lectures entitled "Higher Education in India: Current Status and Challenges" and "Current Trends of Global Education and Reforms in NEP 2020" in the 11th Faculty Induction Programme for teachers of University and Colleges conducted by HRDC, Shillong on 3rd February 2023.
- 30. Reviewer of Millennial Asia, SAGE. **Prof. S. Umdor**
- 1. Delivered a talk on "The Economy of Meghalaya" as Resource Person for IAS Trainees (Meghalaya Cadre) Induction Programme, organised by Meghalaya Administrative Training Institute, Government of Meghalaya on 8th September, 2022.
- 2. Delivered three lectures on "Management of Finances and Fiscal Health of Union and States & Sources of Revenue" as Resource Person in the "Mid-Career Training Programme (MCTP) for Batch II, Batch III and Batch IV, organised by the Regional Training Institute, Indian Audit &Accounts Department, Shillong, 19th July 2022, 27th October 2023 & 11th February 2023.
- 3. Delivered a lecture on "Analysis of State Debt and Interest Burden and Review of State Finances of Meghalaya, 2020-21" as Resource Person in the SFAR and FINAT, organised by the Regional Training Institute, Indian Audit & Accounts Department, Shillong on 7th November 2022.
- 4. Delivered a lecture on "Indian Fiscal Policy, Principles of Taxation in India" as Resource Person in the "Mid-Career Training Programme (MCTP Level-I) for newly promoted AAOs/SAS, organised by the Regional Training Institute, Indian Audit & Accounts Department, Shillong on 14th December 2022.
- 5. Delivered a lecture on, "Local Government and Sustainable Development Goals" in the UGC-HRDC Refresher Course in the Department of Economics, NEHU, Shillong (12th 26th October, 2022), UGC-HRDC, NEHU, Shillong (Topic:).

- 6. Resource person for Workshop on Issues and Challenges in the Implementation of NEP in Undergraduate Courses in Meghalaya on 22-23 of July, 2022
- 7. Resource person for a special lecture on "Financial Literacy", organised by the Union Christian College on 5 May 2022

Prof. P. S. Suresh

 Delivered an invited talk on "Indian Stock Market: Present Scenario" on 5th February 2023 in the Department of Economics, Sri Vijayanagar University, Ballari, Karnataka.

Dr. V. Pala

1. Delivered a lecture in the Refresher Course in Economics on the topic "Measurement of Sustainable Development", organised by the UGC-HRDC, NEHU, Shillong, on 20th October 2022.

Dr. D. Nongkynrih

- 1. Delivered two lectures on "Gender Sensitisation, Concepts of Gender, Gender Stereotypes and its impact" and "The Sexual Harassment of Women at the Workplace (Prevention, Prohibition and Redressal) Act, 2013" as Resource Person for the "Mid-Career Training Programme (MCTP) for SAOs/AAOs (Level-2)" organised by the Regional Training Institute, Indian Audit & Accounts Department, Shillong, 29th April, 2022.
- 2. Delivered a lecture on ": Gender Sensitisation" as a Resource Person in the "Mandatory Training for assistant Audit/Accounts Officers to be empanelled for promotion as Sr.Audit /Accounts Officers" organised by the Regional Training Institute, Indian Audit & Accounts Department, Shillong, 31st August, 2022.
- 3. Delivered a special lecture on the topic "Northeastern Region: employment, gender issues and related issues" at Thomas Jones College, Jowai, 27th October, 2022
- 4. Delivered a lecture on "Borders as Centres: Challenges and Prospects of Development of

- Border Areas" in the UGC-HRDC Refresher Course in the Department of Political Science, NEHU, Shillong during 11th 25th October, 2022.
- 5. Delivered two lectures on (i) Gender Issues and (ii) Sustainable Development Goals in Meghalaya in the UGC-HRDC Refresher Course in the Department of Economics, NEHU, Shillong during 12th 26th October, 2022.

Dr. D. W. Thangkhiew

- Delivered a lecture on "Mid-Career Training Programme for SAO/AAO", organised by the Regional Training Institute, Shillong, on 21st July 2022
- 2. Delivered a lecture on "Mid-Career Training Programme for SAO/AAO", organised by the Regional Training Institute, Shillong, on 29th September 2022
- 3. Delivered a lecture on "Mid-Career Training Programme for SAO/AAO", organised by the Regional Training Institute, Shillong, on 9th February 2023
- 4. Delivered a lecture on "Informality and Sustainability" in a Refresher Course organised by the UGC-Human Resource Development Centre, Shillong, on 21st October 2022
- 5. Delivered a lecture on "Macroeconomic Policy and Sustainability" in a Refresher Course, organised by the UGC-Human Resource Development Centre, Shillong, on 17th October 2022

Dr. W. Tariang

- 1. Delivered a lecture on "Gender Sensitization" in the Mid-Career Training Programme (MCTP Level-1) in the Regional Training Institute (IA & AD), Shillong on 22nd November 2022.
- 2. Delivered a lecture as a Resource Person on 15th September on the topic "*Gender and Poverty*" in Short Term Course in Gender Sensitization, organised by UGC-HRDC NEHU Shillong during 13th September 19th September 2022.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

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	Name		1	Prof. Purusott am Nayak	Prof. Biswambh ara Mishra	Prof. Bhagira thi Panda	Prof. Utpal Kumar De	Prof. Sumarbin Umdor	Prof. P Srinivasa Suresh
	Date of Joining		2	19.10.20 01	01.04.1987	17.10.2 003	04-10-2001	10.05.03	05.06.2003
Details of Faculties	Field of specialisation		3	Human Develop ment; Women Empowe rment	Public Economics, Political Economy, Budgetary Theory	Econo mics of Develo pment.	Applied Econometrics, Environmental and Resource Economics, Agricultural Economics and Rural Development, Tourism Valuation, Issues on Empowerment of Women	Local Economic Developm ent, State Finances	Financial Economics
(A)	UG		4	No	No	11	No	4	No
Teaching Experience (in Years)	PG, including PhD		5	35	36	20	29	20	23
	Basic Research		6	Yes	Yes	Yes	Yes	Yes	Yes
	Applied Research		7	Yes	Yes	Yes	Yes	No	Yes
	Action Research		8	No	No	No	No	No	No
	Project Submitted		9	No	No	No	6	No	No
	Ongoing Project		10	No	No	No	No	No	No
	Research	Group I	11	2	2 (Two)	3	No	1	No
	Paper in UGC care list journals	Group II	12	No	No	No	3	No	1
	Books /Books	Books	13	No	No	No	2	No	No
(B)	chapters Published	Book Chapters	14	No	No	1	2	1	No
Research activities	Popular Articles (News Paper/ Magazines)	·	15	No	No	2	No	4	No
	Seminar /	National	16	No	No	4	No	2	No
	Conference/ Symposia organized	Internati onal	17	No	No		No	No	No
	Seminar /	National	18	No	2 (Two)	15	11	No	No
	Conference/ Symposia attended	Internati onal	19	No	No	1	7	No	No
	Conference Proceedings		20	No	No	No	No	6	No
	Consultancy		21	No	No	No	No	No	No
	Applied		22	No	No	No	No	No	No
(C)	Published		23	No	No	No	No	No	No
Patent	Granted		24	No	No	No	No	No	No

Annual Report (2022-2023)

(D) E-Content	MOOC/SWAY AM/ E-content developed		25	No	No	No	No	No	No
	Teaching /Extension /outreach activities		26	No	No	Yes	No	No	No
	Responsibilitie s other than teaching		27	No	1	Yes	Yes	No	Yes
(E) Any Other	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	No	Yes(2)	1	No	No
		National	29	No	No	Yes	1	1	No
	Collaborations	Internati onal	30	No	No	No	No	No	No

Annual Report (2022-2023)

Details of Faculties	Name		1	Dr. Veronica Pala	Dr. Deigracia Nongkynrih	Dr. Darishisha War Thangkhiew	Dr. Wandinecia Tariang
	Date of Joining		2	22.03.2007	21-12-2006	20.12.2006	13.05.2003
	Field of specialisation		3	Econometri	Economy of North- East India, Rural Studies; Labour and Gender	Macroeconomic s	Economics of Agriculture and Gender and Poverty Studies
(A)	UG		4	8	4	No	No
Teaching Experience (in Years)	PG, including PhD		5	13	16	15	20
	Basic Research		6	Yes	Yes	Yes	Yes
(7)	Applied Research		7	Yes	No	7	No
(B) Research	Action Research		8	No	No	No	No
activities	Project Submitted Ongoing Project		9	No 1	1	No No	No No
	Ongoing Project		10	1	1	NO	
	Research Paper in UGC care list	Group I	11	No	No	3	Yes
	journals	Group II	12	1	No	1	No
	Books /Books chapters	Books	13	No	No	No	No
	Published	Book Chapters	14	No	2	No	Yes
	Popular Articles (News Paper/ Magazines)		15	No	No	No	No
	Seminar /	National	16	No	No	No	Yes
	Conference/ Symposia organized	International	17	No	No	No	No
	Seminar / Conference/	National	18	1	No	No	Yes
	Symposia attended	International	19	No	No	No	No
	Conference Proceedings		20	No	No	No	No
	Consultancy		21	No	No	No	No
(C) Patent	Applied		22	No	No	No	No
r utent	Published		23	No	No	No	No
	Granted		24	No	No	No	No
(D) E-Content	MOOC/SWAYA M/ E-content developed		25	No	No	No	No
	Teaching /Extension /outreach activities		26	No	Yes	Yes	Yes
(E) Any Other	Responsibilities other than teaching		27	No	Yes	Yes	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	1	No	No	No
	Collaborations	National	29	No	No	No	Yes
		International	30	1	No	No	No

DEPARTMENT OF JOURNALISM AND MASS COMMUNICATION

Head: Dr. Barath N **Telephone:** +91-364 - 272 3401

E-mail: hodjmc@nehu.ac.in

Faculty Profile

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

Thrust Areas of Research

Film Studies, Representations in Media, Political Communication, Media and Folkloristic Practices, Digital Media Studies

Brief Statement of Academic Activities and achievements

The Department conducted webinars, National Seminar, One day Panel Discussion on Film Policy and also film screening events in collaboration with Films Division, India

Students' Profile

Enrolment Capacity: M.A.: 21, Ph.D.: Variable

Enrolment of students from different States of India and Abroad (M. A.)

	Gen		ST		SC		OBO	3	EW	S	PWD)	TOT	ΓAL
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	1	1	3	4	-	-	-	-	-		-	-	4	5
Manipur	-	1		1		-	-	-	-		-	-		2
Nagaland	-	-	1	1		-	-	-	-		-	-	1	1
Assam	-	1			1	-	-	-	-	1	-	-	1	2
Kerala	2	-	-	-	-	-	-	-	-		-	-	2	
Telangana	1	-	-	-	-	-	-	-	_		-	-	1	
Arunachal	-	1		1		-	-	-	-		-	-	-	2
Pradesh														
Sub Total	4	4	4	7	1	-	-	-	-	1	-	-	9	12
Total	8		11	•	1	•	-	•	1		-	•	21	•

Degrees Awarded

Degrees Awarded to students from different States of India and Abroad (M. A.)

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATE	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	3	2	5	2	-	-	-	-	-	-	-	-	8	4
Assam	1	2	-	-	-	-	-	-	-	-	-	-	1	2
Kerala	1		-	-	-	-	-	-	-	-	-	-	1	
Sub Total	5	4	5	2	-	-	-	-	-	-	-	-	10	6
Total	9		7	•	-		-	•	-		-		-	•

Research Fellowship

UGC- NET JRF	UGC Non- Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	National Tribal Fellowship
1	6	-	-	-	1

Courses Conducted

> Postgraduate

Semester I: Mass Communication: Theory and Principles, History of Print, Visual Cultures, Writing for Media (Practical) and Media Production (Practical).

Semester II: Corporate Communication, Advertising & Content Strategies, Digital Media Studies, Media Laws and Ethics, Media Management, Research Methodology.

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, Research Publication and Ethics

Seminar/Conference/Symposium/Extension Programme etc

- "Workshop on Scriptwriting" on 4-8th April 2022.
 Coordinator: Dr. Kamaljit Chirom.
- 2. "Cinematography Workshop" on 2nd May 2022. Coordinator: Dr. Kamaljit Chirom.
- 3. Film Festival titled "MIFF in Meghalaya: A Festival of Selected Films" organized in collaboration with Films Division, GOI on 18-20th October 2022 and sponsored by Films Division and North-Eastern Hill University. Coordinator: Dr. Kamaljit Chirom.
- 4. "Summit on the Meghalaya State Film Policy" organized in collaboration with Mass Media Department, St. Anthony's College on 9th March 2023, sponsored by ICSSR (NERC). Coordinator: Dr. Kamaljit Chirom.

- 5. "Screenwriting Workshop" organized in association with Meghalaya Filmmakers Association during 15th-17th March 2023 as the 1st Meghalaya International Film Festival. Coordinator: Dr. Kamaljit Chirom
- 6. "Why Photograph" A talk by Photographer Mr. Anurag Banerjee on 15th June 2022. Coordinator: Dr. Karen L Donoghue

Publications

> Research Papers (06)

- 1. Sharma, A.B., Chirom, K. (2022). The portrayal of the issues of insurgency in the Manipuri feature Film *Mami Sami*. *Journal of Positive School Psychology*, 6(6), 3001-3010. https://journalppw.com/index.php/jpsp/article/vie w/7754
- 2. Chakma, T., Chirom, K. (2022). Women concerns: The male gaze, female sexual objectification, and gender relations in Arindam Sil's Byomkesh Gotr. *International Journal of Early Childhood Special Education*, 14(5). DOI:10.9756/INTJECSE/V14I5.
- 3. Bhattacharya, S., Chirom, K. (2022). Representation of women and relationship between female characters in Jyoti Kapur Das's Short Film Chutney. *Journal of Education: Rabindra Bharati University*. XXV(7-II), 1-11.
- 4. Sharma, A.B., Chirom, K. (2022). Violence representation in Manipuri films: A qualitative content analysis. *Journal of Positive School Psychology*. 6(8), 648-660. https://journalppw.com/index.php/jpsp/article/view/9796
- 5. Donoghue, K. L., Hangsing, P. (2022). Prominent themes of northeast India covered by mainstream news magazines. *Mukt Shabd*, 11(11), 514-528.
- 6. Donoghue, K. L., Khiangte, L. (2022) A brief introduction to Mizo ethnic cuisine. *International Journal of Food and Nutritional Sciences*. 11 (1), 2005-2010.

Funds Received during the current Year

(A) EMR Research Projects to individual faculty members

Title of Project (Total outlay in Lakhs)	Current Status (New /on- going/ complete d)	Name of Investigator (PI/Co-PI)	Multi/Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report
Capturing Migrant Experiences in Shillong: The Mizos of Happy Valley (INR 5 L)	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, Japan (2022-2023)	Sasakawa Peace Foundatio n, Japan	INR 5 L
Documentation of the Traditional Culinary Art in Jaintia Hills, Meghalaya (INR 4.5 L)	New	Dr. Kamaljit Chirom (PI)	Single (2022-2023)	North East Zone Cultural Centre, Dimapur	INR 2.25 L

Seminar/Conference/Symposium/Extension Programme etc

Dr. Kamaljit Chirom

1. Delivered a lecture on "Shri Biren-gi Wari 1. Life Member of Manipuri Sahitya Parishad Macha-da Samajgi Ahongba (Eng: Social Change as Seen in the Short Stories of Shri Biren) at the "Multilingual Writers' Meet and Literary Forum on Shri Biren, Eminent Manipuri Writer" on 17th December 2022 at Shillong organised and sponsored by Sahitya Akademi, Kolkata and Manipuri Sahitya Parishad Meghalaya.

Dr. Karen L Donoghue

1. Presented a paper "Representation of Northeast in Mainstream Indian Media" in the Two Days Virtual National Seminar on "Realities of Marginalisation and Marginality in Media" organized by Department of Mass Communication, Mizoram University held on 21st and 22nd April 2022.

Dr. Barath N

1. Delivered a lecture, titled "Technology as the New Pedagogy – Features, Functions and Concerns" at One-Day workshop on The Relevance of Technology as a Tool in Classroom Teaching, organized by MCTA Unit of St. Anthony's College, Shillong on 1st June 2022.

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

Dr. Kamljit Chirom

- Meghalaya
- 2. Academic Counselor for IGNOU since 2021

Dr. Karen L. Donoghue

- 1. Member of Editorial Board of Man and Society, Journal of ICSSR
- 2. Member, Monitoring Committee at the State Level for Television (Meghalaya)
- 3. Technical reviewer of UGC MOOCS, UGC HRDC, NEHU, Shillong.
- Member of Oral History Society of India, Bangalore, Karnataka.

Other Activities

Dr. Kamljit Chirom

Chaired a session on "Literature, news and fiction in Post colonial era (Online)" during the Two-day International Conference on **Borderless** Communication: Reimagining global Mediascapes Organised by Department of Mass

- Communication, Mizoram University on November 17-18, 2022.
- 2. Acted as Resource Person at the Imphal Literature Festival from 25-27th November 2022 organised by Sahitya Thoupang Lup, Imphal.

Dr. Karen L. Donoghue

1. Acted as a Resource person at UGC HRDC NEHU on "Media and Gender" for Short Term Course in Gender Sensitisation held between 13th to 16th September 2022.

Dr. Barath N

 Chaired a Technical Session titled pre Seminar Colloquium Session for PG Students in the Two Days Virtual National Seminar on "Realities of Marginalisation and Marginality in Media"

- organized by Department of Mass Communication, Mizoram University held on 21st and 22nd April 2022.
- 2. Chaired a session titled "Sustainable Communication" in the two-day International Conference on "Borderless Communication: Reimagining Global Mediascape" organized by Department of Mass Communication, Mizoram University held on 17th and 18th November 2022.
- 3. Participated as a resource person for Panel Discussion titled 'The creation of autonomous film development societies of the state of Meghalaya.' in "Summit on the Meghalaya State Film Policy" organized by Mass Media Department, St. Anthony's College & Department of Journalism & Mass Communication, NEHU on 9th March 2023 sponsored by ICSSR (NERC).

SUMMARY SHEET FOR THE ACADEMIC YEAR $1^{\rm ST}$ APRIL 2022 TO $31^{\rm ST}$ MARCH 2023

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,	History of	Television
	•			Communication	Media, Media	Studies, Media
				Research,	and Culture	and Gender,
				Communication	Studies,	Media
				Theories	Development	Representation
					Studies.	
(A)	UG		4			1
Teaching	PG, including PhD		5	10	11	11
Experien						
ce (in						
Years)						
	Basic Research		6	Yes	Yes	Yes
	Applied Research		7	Yes	Yes	Yes
	Action Research		8	No	No	No
	Project Submitted		9	-	-	-
	Ongoing Project		10	-	-	1
	Research Paper in	Group I	11	-	-	-
	UGC care list journals	Group II	12	1	-	-
	Books /Books chapters	Books	13	-	-	-
(B)	Published	Book	14	-	-	-
Research activities	Popular Articles (News Paper/ Magazines)		15	-	-	-
	Seminar / Conference/	National	16	1	-	1
	Symposia organized	International	17	-	-	
	Seminar / Conference/	National	18	-	1	1
	Symposia attended	International	19	-	1	-
	Conference Proceedings		20	-	-	-
	Consultancy		21	-	-	-
	Applied		22	-		-
	Published		23	-		-
(C)	Granted		24	-		-
(D)	MOOC/SWAYAM/ E-		25			
E- Content	content developed					
Content	Teaching /Extension		26			
	/outreach activities					
	Responsibilities other than teaching		27	Students' Counsellor	Teacher-In- Charge	MOOC Mentor
(E)	Awards/ Honours/		28	_	-	-
Any Other	Recognition/ Membership/		20			
	Collaborations	National	29	-	-	-
		International	30	-	-	1
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DEPARTMENT OF LIBRARY & INFORMATION SCIENCE

Head: Prof. Moses M. Naga **Telephone:** +91-364 - 272 3142

E-mail: hodls@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
Professor	Dr. Moses Mark Naga, M.LISc & Ph.D (NEHU)	Information Literacy, Application of Management Concepts and Principles in Libraries and Information Centres; Documentation on Traditional Medicinal Practices in North-East India; Global Perspective on Library and Information Science Education.
	Dr. Bikika Laloo Tariang, M.LISc. (NEHU), Ph.D (Gauhati University)	Information User Studies, Library Collection Management, Documentation of Indigenous Knowledge, Information Literacy
	Dr. Paokholun Hangsing, M. LISc. (University of Delhi), Ph.D (NEHU)	Information Communication Technology, Database Management Systems, System Analysis and Design, Digital Libraries, Content Analysis
Associate Professor	Dr. S. Ravi Kumar, M.Sc in LISc (Madras), Ph.D.(Mizoram)	Scientometrics; Information Visualization; Scholarly Communication
	Dr. Jacqueline Jeane Thabah, M.LISc, Ph.D.(NEHU)	Knowledge Organisation, Research Methodology and Professional Competencies
Assistant Professor	Dr. Jiarlimon Khongtim, M.LISc, Ph.D(NEHU)	Impact of 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 need and information seeking behaviour of users, applications of computer and information communication technologies, 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 organised talks on several prominent and relevant issues pertinent to subject.

Students' Profile

> Enrolment Capacity: M. Lib. I. Sc. 33, Ph.D. Variable

Enrolment of students from different States of India and Abroad (M. Lib. I. Sc.)

	Gen	Gen		ST		SC			EWS	8	PW	'D	TOTAL	
STATE	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Assam	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Manipur	-	-	-	3	-	-	-	-	-	_	-	-	-	3
Meghalaya	-	-	3	16	-	_	-	-	-	-	-	-	3	16
Nagaland	-	-	1	2	-	-	-	-	-	_	-	-	1	2
Total	-			27		-		-		-		_		7

Degrees Awarded

- M. Lib. I. Sc.: 26, Ph.D.: 01
- > Degrees Awarded to students from different States of India and Abroad (M. Lib. I. Sc.)

	Gen		ST	ST		SC		PWD		AL
STATES	M	F	M	F	M	F	M	F	M	F
Assam	1	1	-	-	-	-	-	-	1	1
Manipur	-	-	1	-	-	-	-	-	1	-
Meghalaya	-	-	4	18	-	-	-	-	4	18
Sub Total	1	1	5	18	-	-	-	-	6	19
International	-	1	-	-	-	-	-	-	-	1
Total	3		23		-		-		26	

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Sub Total	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Total	-		1	1			-		-		-		1	

Name of Student		Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Mr.	Brandon	"Information Needs and Information	Dr. Bikika Laloo
Lyttan		Seeking Pattern of Transgender Students	
		of India: An Exploratory Study."	

Placement of Students

Name of the	Post Held	Place of Work				
Student(s)						
Sevenson Shylla	Library Assistant	Thomas Jones Synod College, Jowai.				
Darimon Nongrum	Library Assistant	Nongstoin College.				
Jobinel Syiemiong	Library Assistant	Shillong College.				
Martina Mawlong	Library Assistant	Shillong College.				
Telsidora Marsharing	Assistant Head Teacher	Spring Dale Lower Primary School				
Banisha Sohlang	AssistantTeacher	Rynjah Institute of Information Technology (RIIT), Shillong				
Phibasaka Rani	Library Assistant	National Institute of Fashion Technology (NIFT), Shillong				
Hunlangki Syiemlieh	Meghalaya Police Crime Branch	S.P Office Nongpoh				

Research Fellowship

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

Fieldwork/Educational Tour of Students

Teacher-in-Charge: Dr. Jacqueline J. Thabah and Assistant Teacher-In-Charge Dr. S. Ravi Kumar

Institutions Visited: IIT, Guwahati, Guwahati University and Tezpur University

Duration of Tour: 3 (Three) days, w.e.f. $10^{th} - 12^{th}$ June 2022

Purpose of Tour: The study tour is part of the regular academic programme/Credit Course-Paper C-205: Library House Keeping Operations. To earn full credit in this paper, students are required to visit various types of libraries, get exposed to the different library environment and acquire knowledge about those libraries. Students are also expected to collect vital information and submit a report during 2nd semester examination to be evaluated by an External Examiner.

Courses Conducted

> Postgraduate

Semester I: Knowledge Organisation-1 (Theory); Knowledge Organisation-1 (Practical); Foundations of Library & Information Science; Information Sources & Services; Foundations of Computer and Communication Technologies.

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

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.

Seminars/Conferences/Workshops/Symposia/E xtension Programmes

 The department organized one day International Webinar on "The Research Journey" on 8th December, 2022 in the Zoom Platform (NEHU). Dr. Jiarlimon Khongtim is the coordinator of the webinar.

Publications

> Research Papers (06)

- 1. Deo, Poonam Singh., Hangsing, P. (2023). Gender influence on authorship pattern: A case study. *Science and Technology Libraries*, DOI: 10.1080/0194262X.2023.2176402
- 2. Donoghue, K. L., Hangsing, P. (2022). Prominent Themes of Northeast India Covered by Mainstream News Magazines. *MuktShabd*, 11(11), 514-528
- 3. Ravikumar, S., Boruah, B.B., Ravikumar, M.N. (2022). Correlation study between citation count and Mendeley readership of the articles of Sri Lankan authors. *Scientometrics*, 127,4873–4885. https://doi.org/10.1007/s11192-022-04470-y
- 4. Ravikumar, S., Boruah, B.B., Gayang, F.L. (2023). Latent topics identification from the articles of Sri Lankan authors using LDA, *Global Knowledge, Memory and Communication*. https://doi.org/10.1108/GKMC-08-2022-0206
- 5. Ravikumar, S., Lamin, Gayang, F., Gonmei, T., Boruah, B. B. (2023). Does affirmative action in Indian central Universities impact research productivity? *Journal of Asian and African Studies*.

https://doi.org/10.1177/00219096231158346

6. Mawlong, M., Khongtim, J. (2022). Media consumption among rural area housewives in Ri Bhoi District of Meghalaya: A survey. *Library Herald*, 60 (4), 55 – 73. DOI: 10.5958/0976-2469.2022.00038.0

➤ Book Chapters (02)

- 1. Reenborne, Cleverly., Khongtim, J. (2022). College students' awareness about copyright and copyright infringement: A case study at Sankardev College, Shillong. In *Knowledge Management in Higher Education Institutions: Volume II.* K. S Shivraj, Ali Amour Suleiman and Punit Gupta (Eds.). Manipal University Jaipur, Rajasthan, ISBN: 978-81-952757-2-4, pp 259-268.
- 2. Chyne, R. C., Khongtim, J. (2022). Media and information literacy skills of rural college students of Meghalaya: A study of two selected colleges. In *Libraries of the Future: Emerging Trends*. Bijayalaxmi Rautaray, Akhtar Parvez, Dilip K. Swain and Chandrakanta Swain (Eds.). Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar, Odisha in association with Overseas Press India Pvt. Ltd., Odisha, ISBN: 978-93-92711-060, Section V (52), pp 454-467.

Proceedings of Seminars/Conferences (02)

- 1. Tariang, B. L. (2023). North Eastern Hill University: Small Beginnings and Onward. In *Souvenir of the IASLIC 29th National Seminar*, organized by IASLIC and the NEHU Central Library, Shillong, Meghalaya, March 15-17, 2023.
- 2. Khongtim, J. (2023). The Human Library Initiatives in India. In *Souvenir of IASLIC* 29th National Seminar 2022. Organized by the NEHU Central Library in collaboration with IASLIC (Indian Association of Special Libraries and Information Centres), 15th -17th March, 2023.

Seminars/Conferences/Workshops/Symposia/Extension Programmes

Prof. Bikika Laloo Tariang

1. Presented a paper titled "Role of Library Professional for Visibility in the Internet age" in the IASLIC 29th National Seminar, organized by IASLIC and the NEHU Central Library, Shillong, Meghalaya during March 15-17, 2023.

Prof. P. Hangsing

 Attended a one-day workshop on developing Massive Open Online Courses (MOOC) on the 1st of September 2022 at North-Eastern Hill University, Shillong.

Dr. J. J. Thabah

- 1. Attended a Seminar on "Contribution of Tribal Heroes in Freedom Struggle" organised by North-Eastern Hill University, Shillong in collaboration with National Commission for Scheduled Tribe, under Azadi Ka Amrit Mahotsav, Govt. of India on October 11, 2022.
- 2. Presented a joint Paper entitled "Reading Habits of Rural Students in the Internet Era" at the International Conclave on Literature, Culture, Library Society (ICLCLS) 2022, organised by the Department of Library and Information Science jointly with the Department of Ancient History and Archaeology and Rajarshi Bhagyachandra Cultural Research Centre, Manipur University durinf 27th to 30th November, 2022.
- 3. Presented two Papers on (i) "Information Literacy Skills of Rural School Students: (ii) "Evaluation of Service Quality by Users of Assam Don Bosco University Library through LibQUAL+" at the XXXVIII National Conference of the Indian Association of Teachers of Library and Information Science (IATLIS) on the theme "ICT, NEP 2020 and LIS Education & Research in India" jointly organized by the IATLIS and Department

- of Library and Information Science, Mohanlal Sukhadia University, Udaipur held during 3rd and 4th of December 2022.
- 4. Presented two papers on (i) "Role of Information Literacy Skills on the Use of Information Resources by Higher Secondary students" and (ii) "Review of A Theory-Driven Approach to the Development of DigiQUAL for Service Quality Evaluation of Digital Libraries" at the IASLIC 29th National Seminar 2023 on "Library and Information Centres in Digital India: Present Scenario and Future Strategies" organised by Central Library, North-Eastern Hill University, Umshing-Mawkynroh, Shillong in collaboration with IASLIC, Kolkata during 15th to17th March 2023.

Dr. J. Khongtim

- 1. Presented a paper on "Digital India Initiatives: An overview" jointly with Akramul Islam in the IASLIC 29th National Seminar 2022 organized by the NEHU Central Library in collaboration with IASLIC (Indian Association of Special Libraries and Information Centres), Kolkata held during 15th to 17th March, 2023.
- 2. Presented a paper on "Collection Development Policy in the Digital Space: A Case Study of NEHU Central Library" jointly with Harriet Dzidzom Acquah in the IASLIC 29th National Seminar 2022 organized by the NEHU Central Library in collaboration with IASLIC (Indian Association of Special Libraries and Information Centres), Kolkata held during 15th to 17th March, 2023.
- 3. Presented a poster presentation on "A Bibliometric and Research Trend Analysis on Information Literacy from 1977-2021" with Tiplut Wann and Rudolf Carey Chyne in the IASLIC 29th National Seminar 2022 organized by the NEHU Central Library in collaboration with IASLIC (Indian Association of Special Libraries and Information Centres), Kolkata held during 15th to 17th March, 2023.
- 4. Presented a paper on "E-marketing of Public Libraries: A Close Look at the Literature" jointly with Caroline I Buam in the IASLIC 29th National Seminar 2022 organized by the NEHU Central Library in collaboration with IASLIC (Indian Association of Special Libraries and Information Centres), Kolkata held during 15th to 17th March, 2023.
- Attended a national seminar on "Contribution of Tribal Heroes in Freedom Struggle" held on October 11th 2022 organized by North-Eastern Hill University, Meghalaya, Shillong in collaboration

with National Commission for Schedule Tribe, under Azadi ka Amrit Mahotsav, Govt. of India.

Honours/Awards/Recognition/Membership/Fellowship

Prof. Moses M. Naga

1. Director of the Thematic Session of the IASLIC 29th National Seminar 2023 on Library and Information Centres in Digital India: Present Scenario and Future Strategies, organised by Central Library, North-Eastern Hill University, Shillong in collaboration with IASLIC, Kolkata during 15th to17th March 2023.

Prof. Bikika Laloo Tariang

1. Member of the Departmental Compendium Committee, 2022

Dr. J. Khongtim

- 1. Library Audit Experts for Lady Keane College Library Auditing on 8th April 2022.
- 2. Member of the Departmental Anti-ragging Committee (2022- present)
- 3. In-charge of the Internship Programme of the Department of Library and Information Science (2022 present)
- 4. Member of the Departmental Compendium Committee, 2022.

Other Activities/achievements

Prof. Bikika Laloo Tariang

- 1. Delivered a Lecture on "Roles of LIS Professionals for Visibility in the Internet Age: What changes, What doesn't" as Resource person in the Online Refresher Course in Library and Information Science, Osmania University, Hyderabad on 4th August, 2022.
- 2. Delivered a talk on "Skill Enhancement" at the One-Day Conference on "Administrative Role and Functions of the Non-Teaching staff of deficit Colleges in Meghalaya," organized by Non-Teaching Staff in collaboration with the Central Library, Sankardev College, Shillong on 18th August, 2022.
- 3. Chaired one Technical Session on "Collection Building and Access in Digital Era" in the IASLIC 29th National Seminar 2022, organised by Central Library, North-Eastern Hill University, Shillong, Meghalaya during March 15-17, 2023.
- 4. Acted as a Speaker in the Open Discussion on "Professional Issues and Challenges" in the

IASLIC 29th National Seminar organised by Central Library, North-Eastern Hill University, Shillong, Meghalaya during March 15-17, 2023.

Prof. P. Hangsing

1. Delivered an invited lecture on "Digitization Process and Basic Requirements" in a short-term course on the Design, Development and Management of Digital Libraries on 24th June 2022, organised by UGC/HRDC, Gauhati University, Guwahati.

Dr. J. J. Thabah

- 1. Acted as General Rapporteur of the XXXVIII National Conference of the Indian Association of Teachers of Library and Information Science (IATLIS) on the theme "ICT, NEP 2020 and LIS Education & Research in India" jointly organized by the IATLIS and Department of Library and Information Science, Mohanlal Sukhadia University, Udaipur held during 3rd and 4th of December 2022.
- 2. Acted as a Resource Person for the Short Term Training Course on "Changing Trends in Knowledge Organisation" during 17th to 20th November, 2022, organised by the Department of Library and Information Science, Manipur University.
- 3. Acted as Evaluator of the Poster Presentation at the IASLIC 29th National Seminar 2023 on the 17th March 2023 during the IASLIC 29th National Seminar 2023 on "Library and Information Centres in Digital India: Present Scenario and Future Strategies", organised by Central Library, North-Eastern Hill University, Umshing-Mawkynroh, Shillong in collaboration with IASLIC, Kolkata during 15th to17th March, 2023.
- 4. Worked as Convener of the Local Organising Committee of the IASLIC 29th National Seminar 2023 on "Library and Information Centres in Digital India: Present Scenario and Future Strategies" organised by Central Library, North-Eastern Hill University, Umshing-Mawkynroh, Shillong in collaboration with IASLIC, Kolkata during 15th to17th March, 2023.

Dr. J. Khongtim

1. Worked as a Local Convener of the IASLIC 29th National Seminar 2022 organized by the NEHU Central Library in collaboration with IASLIC (Indian Association of Special Libraries and Information Centres), Kolkata held during 15th to 17th March, 2023.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

Details of	Name	1	1	Dr Moses	Dr Bikika	Dr P.	Dr (Mrs.)	Dr	Dr S.
Faculties	Name		1	M. Naga	L.Tariang	Hangsing	Jacqueline	Jiarlimon	Ravikuma
1 acuttes				Wi. ivaga	L. I allalig	Trangsing	J. Thabah	Khongtim	r
	Date of		2	29th	1ST July,	10th April	18th April	15th	3rd July,
	Joining		_	January,	1996	2002	2002	December,	2012
				1991				2005	
	Field of		3	Information	Information	Informatio	Knowledg	Impact of	Scientome
	specialisat			Literacy,	User	n System	e	Information	trics
	ion			Documentat	Studies,	Analysis	Organisati	Literacy on	Informatio
				ion on	Library	& Design,	on,	Reading	n
				Traditional	Collection	Database	Research	Habits,	Retrieval,
				Medicinal	Managemen	Managem	Methodol	Application	Library
				Practices in	t,	ent	ogy and	s of	Software.
				North-East India;	Documentat ion of	System,	Profession al	Computer	
				ilidia,	Indigenous		Competen		
					Knowledge		cies		
(A)	UG		4				3100		
Teaching	PG,								
Experience	including		5	32	27	21	21	17	15
(in Yrs)	PhD			7.7	**	**	**		**
	Basic Research		6	Yes	Yes	Yes	Yes	Yes	Yes
	Applied		7	_	_	_	_	_	_
	Research		'	-	-	-	-	-	-
	Action		8	_	_	_	_	_	_
	Research								
	Project		9	-	-	-	-	-	-
	Submitted								
(B)	Ongoing		10	-	-	-	-	-	-
Research	Project Research	Group I	11	_	_				3
activities	Paper in	Group II	12	-	-	-	2	_	3
	UGCcare	Group II	12				2		
	list								
	journals								
	Books	Books	13	-	-	-			
	/Books	Book	14	-	-	-	-	-	-
	chapters	Chapters							
	Published		1.5						
	Popular Articles		15	-	-	-	-	-	-
	(News								
	Paper/								
	Mgz)								
	Seminar/	National	16	-	-	-	-	-	-
	Conferenc	Internati	17	-	-	-		1	-
	e/	onal							
	Symposia								
	organized	NI (' 1	10	1		1	2		
	Seminar / Conferenc	National	18 19	1	2	1	3	1	-
	e/	Internati onal	19	-	-	-	1	1	-
	Symposia	Onai							
	attended								
	Conferenc		20	-	-	-	-	1	-
	e								
	Proceedin								
	gs								1

North-Eastern Hill University

Annual Report (2022-2023)

	Consultan		21	-	-	-	-	-	-
	cy								
	Applied		22	-	-	-	-	-	-
	Published		23	-	-	-	-	-	-
©	Granted		24	-	-	-	-	-	-
Patent									
(D)	MOOC/S		25	-	-	-	-	-	-
E-Content	WAYAM/								
	E-content								
	developed		2.5			4			
	Teaching/		26	-		1	3	-	-
	Extension								
	/outreach								
(E)	activities		27		Yes			Yes	
(E)	Responsib		27	-	Yes			Yes	-
Any Other	ilitiesother than								
	teaching								
	Awards/		28	_	_	_	_	-	_
	Honours/		20	-	-	_	-	-	-
	Recogniti								
	o/								
	Membersh								
	ip/								
	Fellowshi								
	р								
	Collaborat	National	29	-	-	-	-	-	-
	ions	Internati	30	-	-	-	-	-	-
		onal							

DEPARTMENT OF MANAGEMENT (TURA CAMPUS)

Head: Prof. Abhigyan Bhattacharjee **Telephone:** +91-3651-224566

E-mail: hodmng@nehu.ac.in

Faculty Profile

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

Thrust Areas of Research

The thrust areas of the Department are strategic orientations, 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 and social marketing.

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.

Students' Profile

- ➤ Enrolment Capacity: MBA (Gen.) 33; MBA (Services) 33; PhD Variable
- > Enrolment of students from different States of India and Abroad

	Gen		ST		SC		EWS	5	PWI	D	TOTA	L
STATES	M	F	M	F	M	F	M	F	M	F	M	F
Assam	5	5	1	-	-	-	-	-	-	-	6	5
Haryana		1	-	-	-	-	-	-	-	-		1
Kerala	1	-	-	-	-	-	-	-	-	-	1	
Meghalaya		1	23	8	-	-	-	-	-	-	23	9
Sub Total	6	7	24	8	-	-	-	-	-	-	30	15
International		1	-	-	-	-	-	-	-	-		1
Total	14		32		-		-		-		46	

Degrees Awarded

> MBA: 32, Ph.D.: 02

> Degree Awarded to students from different States of India and Abroad (MBA)

	Gen		ST		SC		EWS	5	PWI)	TOTA	L
STATES	M	F	M	F	M	F	M	F	M	F	M	F
Assam	5	6	1	2	1	1	-	-	-	-	7	9
Manipur	1	-			-	-	-	-	-	-	1	
Meghalaya	4	-	6	4	-	-	-	-	-	-	10	4
Sub Total	10	6	7	6	1	1	-	-	-	-	18	13
International		1	-	-	-	-	-	-	-	-		1
Total	17		13		2		-		-		32	

> Degree Awarded to students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC	1	EWS	5	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	-	1		-	-	-	-	-	-	-	-	1	
Meghalaya	-	-		1	-	-	-	-	-	-	-	-		1
Sub Total	-	-	1	1	-	-	-	-	-	-	-	-	1	1
Total	-		2		-		-		-		-		2	

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Ms. Brenda D Marak	"A Study on the Career Choice Determinants of Undergraduate Students in Meghalaya"	Prof. A. Bhattacharjee
Mr. Dhananjay Narzary	"Corporate Dividend Payout and Share Price Behaviour: A Study on Selected Indian Companies"	Prof. K.C. Biswal

Placement of Students

Name of the Student(s)	Organization	Place of Work
Rimonlang Shadap	IDBI Bank	Not yet posted
J. Hazellica Shabong	IDBI Bank	Not yet posted
Fairdardstone Lyngkhoi	IDBI Bank	Not yet posted
Rynkatlang Ryngksai	IDBI Bank	Not yet posted
Ebansius Synghli	IDBI Bank	Not yet posted
Diforland Wahlang	Kent-RO	Shillong
Minakshi Dutta	Varun Beverages Ltd.	North-East

Research Fellowship

CSIR-UGC- NET	UGC Non- Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	ICSSR
01	08	02	-	-	01

Fieldwork/Educational Tour of Students

Teacher-in-Charge: Prof. Abhigyan

Bhattacharjee

Places/Institutions Visited: 1. Industrial Growth Centre, Chaygaon, Kamrup, Assam 2. Ram Fashion Exports Pvt. Ltd (Mumbai); Faber Castell Plant, Goa; Nebula, Home Products Pvt Ltd, Pilerne Industrial Estate, Pilrne Bardez (Goa).

Duration of Tour: 1 day (11th June, 2022) & 12

days (26.02.2023 to 09.03.2023) *Purpose of Tour:* Industrial visit

Courses Conducted

> Postgraduate

Semester I: Principles and Processes of Management; Managerial Economics; Business Environment; Statistics and Quantitative Techniques; Accounting for Managers; Computer Applications in Management; Managerial Skill Development; Organizational Behaviour

Semester II: Research Methodology; Project Management; Opérations Management; Human Resource Management; Financial Management; Marketing Management; Management Information Systems; Fundamentals of Agri-Business Management

Semester III: Strategic Management; Business Ethics; Marketing (Consumer Behavior, Product and Brand Management, International Marketing); Human Resources Management (International Human Resource Management, Human Resources Development, Management of Industrial Relations); Financial Management (Financial Institutions and Markets, Security Analysis, International Financial Management); Agri-Business Management (Agro and Food Marketing, Agricultural Credit and Micro Finance, Farm Business Management)

Semester IV: Entrepreneurship Development and Small Business Management; Business Legislation; Marketing Management (Advertising and Sales Promotion Management; Marketing of Services); Human Resources Management (Human Resource Accounting and Compensation Management; Legal Framework Governing Human Relations); Financial Management (Management of Financial Service, Portfolio Management); Agri-Business Management (Supply Chain Management in Agri Business, ICT in Agri Business).

> PhD Courses

Business Research Methods; Management Thoughts and Thinkers; Contemporary Issues in Management; Research and Publication Ethics

Seminars/Conferences/Workshops/Symposia/ Extension Programmes

- 1. Two Days' workshop on 'Export Promotion and Self Employment Avenues in Meghalaya, during June 17-18, 2022, in association with Placement & Counselling Cell, NEHU, Tura Campus, Sponsored by ICSSR-NERC, Shillong, Prof. Abhigyan Bhattacharjee was the Programme Director.
- 2. One day Workshop on "Healthcare in the Northeast: The Current Status and the Road Ahead", on June 14, 2022, in association with Placement & Counselling Cell, NEHU, Tura Campus and Guwahati Management Association. Prof. Abhigyan Bhattacharjee was the Program Coordinator.
- 3. One week workshop on "Statistical and Research Methodologies with R for Social Scientists", during March 13-18, 2023, in association with Placement & Counselling Cell, NEHU, Tura Campus and Indian Statistical Institute, Kolkata, Prof. Abhigyan Bhattacharjee was the Program Coordinator.
- 4. Workshop on "Atmanirbhar Bharat: A vehicle towards sustainability" during 2nd-3rd September, 2022, Prof. K.C. Biswal was the Programme Coordinator.
- 5. National Seminar on "Entrepreneurship Development: A Tribal Perspective" during 28th-29th October, 2022, Prof. K. C. Biswal was the Programme Co-ordinator.

6. Azadi Ka Amrit Mahotsav Industry-Academia Interface Workshop on "Investing in Future Leaders-Be the Change", was organized jointly by the Department of Management, North-Eastern Hill University, Tura Campus; the Buddha Institute, New Delhi and Post-Graduate Students Union, NEHU, Tura Campus on 20th June, 2022, Dr Deepak Bhagat was the coordinator.

Publications

> Research Papers (17)

- 1. Ahmed, J. U., Momin, C. Ch., Mpanme, D., Ahmed, N.U. (2022). Measuring the relationship between service quality delivery and customer satisfaction of Rural Banks in India: A factor specific approach. *International Finance and Banking*, 9(2), 20-48.
- 2. Ahmed, J. U, Sultana, M., Mpanme, D. (2022). Customer relationship management practices and employee sensitivities of Private Sector Banks: An analysis in Indian context. *Business and Economic Research*, 12 (4), 168-182.
- 3. Ahmed, J. U., Mpanme, Ditalak, Momin, Chelsea Ch., Ahmed, N.U. (2022). Determining customer satisfaction on service quality constructs using SERVQUAL model: Evidence from India's Rural Banks. Global Journal of Management and Business Research (B). XXII (VI), 77-84.
- 4. Ahmed, J. U., Sultana, M. (2022). Customer perceptions on service quality of Private Sector Commercial Banks in India: The principal component analysis. *International Journal of Science and Research*, 11(11), 162-167.
- 5. Ahmed, J. U., Islam M. T., Alam, S.M.A., Koli, D. (2022). Identifying relationships between disposal behaviour, purchase pattern, price, and awareness with the E-waste management systems. *PMIS Review*, Dhaka University, 1 (1), 97-109.
- 6. Ahmed, J. U., Chelsea Ch. Momin (2022). Identification of factors influencing satisfaction level of customers: A study in Meghalaya Rural Bank. *Journal of Emerging Technologies and Innovative Research*, 9(9), 598-607.
- 7. Biswal. K.C., Marak N. D. (2022). Causal relationship between agricultural exports and economic growth in India. *Third Concept, An International Journal of Ideas.* 36(431), 20-24.
- 8. Bhattacharjee, Abhigyan., Das, Dipankar. (2022). Human resource accounting practices in India and across the globe: a systematic review, *Finance India*, Indian Institute of Finance. June, XXXVI (2), 621-650.

- 9. Catherine, Lh C., Bhagat, D., Talukdar, K. C. (2023). Economic analysis of black rice production in Manipur. *Indian Journal of Economics and Development*, 19 (1), 250-255.
- 10. Khaund, M., Nath, B. D. (2022). A study on small enterprise financing study on small enterprise financing gap in North East India: An extensive review. *Journal of Critical Reviews*, 9(1), 299-320.
- 11. Singh, K. D., Mpanme, D. (2023). Entrepreneurial intentions among post graduate management students in India: The theory of planned behaviour approach. *Small Enterprises Development, Management & Extension Journal*, 50(1), 38-45.
- 12. Nongbri, P. L., Singh, K. D. (2022). Sustainable rural tourism and entrepreneurship: Construct of a research model through literature review. *Journal of Positive School Psychology*, 6 (6), 9326-9335.
- 13. Khundrakpam, P., Singh, K. D., Singh, E. N. (2022). Factors influencing the adoption of elearning technologies: An Indian perspective. *International Journal of Information and Education Technology*, 12(8), 816-820.
- 14. Khundrakpam, P., Singh, K. D. (2022). Gandhi and entrepreneurship. *Third Concept: An International Journal of Ideas*, 35(419), 15-17
- 15. Kumar, N., Rath, A., Singh, A.K., Akoijam, S.L.S. (2023). Decision making using regression analysis: A Case Study on Top Tier Holidays LLP. *The CASE Journal (Emerald)*, 19(2), 273-289
- 16. Tiwari, S., Rosak-Szyrocka, J., Bharali, D., Akoiiam. S.L.S., Binoy, T.A. (2023).Demystifying the sustainable competitive advantage Sualkuchi silk products: of perspectives of buyers and sellers, Sustainability (MDPI, Switzerland), 15,1110
- 17. Bharali, D., Akoijam, S. L.S. (2022). Investigating the bargaining power of buyers in Assam silk industry-a critical analysis, *Towards Excellence*, 14(2), 1415-1425.

Books (07)

- 1. Ahmed, J. U., Sultana, M. (2023). *Customer Relationship Management in Banking Sector*. Sunmarg Publishers & Distributors, New Delhi, ISBN: 978-23-12300-00-9
- 2. Ahmed, J. U., Momin, C.C. (2023). Service Quality and Customer Satisfaction of Rural Banks. Sunmarg Publishers & Distributors, New Delhi, ISBN: 978-23-12870-00-9

- 3. Biswal, K.C., Mishra, S.K. (2023). *Financial Management*, Kunal Books Publication, New Delhi, ISBN:978-93-95651-43-1
- 4. Biswal, K.C., Sangma, T. J. (2022). *Corporate Saving in Indian Power Industry*. Kunal Books Publication, New Delhi, ISBN:978-93-95651-10-3
- 5. Biswal, K.C., Narzary, D. (2022). *Corporate Dividend and Share Price Behaviour*. Kunal Books Publication, New Delhi, ISBN: 978-93-95651-22-6
- 6. Priyamvada, S., Mishra, B. K., Bhagat, D. (2023). Supply Chain Management in Dairy Business. Kunal Books Publication, New Delhi, India.
- 7. Akoijam, S. L.S., Singh, T.S. (2022). Supply Chain Management Practices in Food Processing Industry, Sunmarg Publishers & Distributors, New Delhi, ISBN: 978-93-82606-23-9

➢ Book Chapters (03)

1. Nath, B.D., Nath, B. D. (2022). Relationship between behavioural finance and social media. In

- Behavioural Finance and Investment Strategies. J. U. Ahmed (Eds.). New Century Publication. ISBN: 978-81-7708-545-7. [Chapter 14, pp. 160-170.]
- Mazumder, S. B. A (2023). Beyond rapacity and panic: Understanding Behavioural Finance. In *Behavioural Finance and Investment Strategies*.
 J. U. Ahmed (eds.). New Century Publications. ISBN-978-81-7708-545-7. [Chapter 8, pp. 98-111.]
- 3. Mazumder, S. B. A (2023). Behavioural finance: Learning from market anomalies. In *Behavioural Finance and Investment Strategies*. J. U. Ahmed (Eds.). New Century Publications. ISBN-978-81-7708-545-7. [Chapter 12, pp. 140-148.]

> Popular Articles in News Paper and Magazines (01)

1. Bharali, D, & Akoijam, S. L.S. (2023). Understanding the Assam Silk Industry's Challenges and Revitalization Strategies. *Management Convergence*, 14(1): 40-49.

Funds received during current year

(B) EMR Research Projects to individual faculty members

Title of Project Current Name of Multi/Singl Funding Fund received								
(Total outlay in Lakhs)	Status (New /on-going/ completed)	Investigat or (Pl/Co-Pl)	e Institute (Tenure)	Agency	by NEHU in the year under report			
					(in Lakhs)			
Vulnerability of	New	Dr.	Multi	Indian	INR 6.00 L			
Rural Households to		Deepak	(2023-2025)	Council of				
Food Insecurity in		Bhagat		Social				
Plain and Hill States		(PI)		Science				
of India: A				Research				
Comparative Study				(ICSSR),				
(INR 15.00 L)				New Delhi				
Baseline Survey of	New	Dr.	Multi	DRL-	Nil			
Beneficiary Farmers		Deepak	(2023-2025)	DRDO,				
in Border Districts of		Bhagat		Assam				
Arunachal Pradesh		(PI)						
(INR 17.80 L)								
A Study on	New	Dr.	Single	Governme	Nil			
Occupation linked		S.B.A.	(2023-	nt of				
Out-Migration from		Mazumde	2024)	Assam				
Assam and the level		r		Directorat				
of Remittances				e Of				
generated by such				Economic				
Out-Migration				s and				
(INR 52.25 L)				Statistics,				
Ì				Guwahati				

IPR Items

Consultancy

Title of Consultancy Project (Total outlay in Lakhs)	Current Status (New /on- going/ completed)	Name of the Consul tant	Multi/Si ngle Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Setting up Entrepreneurship Promotion and Development Programmes and Incubators in Academic Institutions (INR 30 L)	New	Prof. Abhigy an Bhattac harjee	Single (2023- 2026)	MBMA, Govt of Meghala ya	Nil

Seminars/Conferences/Workshops/Symposia/ Extension Programmes

Prof. J.U. Ahmed

- 1. Presented a paper on "Determinants of Corporate Sustainability Reporting in India: An Empirical Investigation" at the International Conference on Environment and Sustainable Development, organized by Biotech Kisan Hub in association with Department Biotechnology, Ministry of Science and Technology, Govt. of India during 24-25th November 2022.
- 2. Presented a paper on "Factors Affecting Access to Agricultural Finance in India: An Empirical Validation from Farmers Perspectives" at the International Conference on Environment and Sustainable Development, organized by Biotech Kisan Hub in association with the Department Biotechnology, Ministry of Science and Technology, Govt. of India during 24-25th November 2022.
- 3. Presented a paper on "Determinants of Business Resilience among women-owned SEMs in Yemen" at the International Conference on Environment and Sustainable Development, organized by Biotech Kisan Hub in association with the Department Biotechnology, Ministry of Science and Technology, Govt. of India during 24-25th November 2022.
- 4. Presented a paper on "Factors Influencing Customer Relationship Management of Public Sector Commercial Banks: A Customer-Oriented Approach" in the International Seminar on Accounting, Finance and Business

- Management, organized by Dept. of Business Administration, Assam University, Silchar on 27th September 2022.
- 5. Presented a paper on "A Study on the Factors Influencing Satisfaction Level of Customers of Meghalaya Rural Banks" in the International Seminar on Accounting, Finance and Business Management, organized by Dept. of Business Administration, Assam University, Silchar on 27th September 2022.

Prof. K.C. Biswal

- 1. Presented a paper on "Public Expenditure Does Have a Long-Run Common Stochastic Trend with Economic Growth in Meghalaya: A Study to Review Its Sustainability Using Time Series Error Correction Model" in the national seminar on Atmanirbhar Bharat the Reclamation, Reformation and Resilience at 5th North-East India Commerce and Management Association during 23rd and 24th September, 2022, organised by Mariani college, Jorhat, Assam.
- 2. Presented a paper on "Correlation Between Agricultural Export and Economic Growth in India: A Study of Post Economic Reform Era" at the National Seminar on Self Reliant India: Issues and Challenges during 22nd and 23rd September, 2022, Organised by Department of Commerce and management studies, Bodoland University, Assam.

Prof. Abhigyan Bhattacharjee

1. Presented a paper "Comprehending the OSR Position of Panchayati Raj Institutions and its

- Sustainability in Assam" at the 23rd Annual Conference of the North-Eastern Economic Association, 16th -18th Nov, 2022, organized by the Department of Economics, Tripura University.
- 2. Presented a paper "Measurement of Internal Control Practices and its Effect on Financial Performance of Rural Local Governing Bodies (Gaon Panchayats)" in the 44th IAA Conference and International Seminar on Accounting Education & Research" held on 29th -30th October, 2022 at Jiwaji University, Gwalior in association with Indian Accounting Association, Gwalior Branch.
- 3. Presented a paper "Identifying the Prime Predictors of Human Resource Accounting Disclosure: A Literature Review" in the 44th IAA Conference and International Seminar on Accounting Education & Research" held on 29th -30th October, 2022 at Jiwaji University, Gwalior in association with Indian Accounting Association, Gwalior Branch.
- 4. Presented a paper on "A Survey Analysis of Buyers-Sellers Views of Handloom Products and its Sustenance in Tura, Meghalaya" in the National Seminar cum Exhibition on Unlocking Potentialities and Elevating Growth in North East India through Handloom and Handicraft Industry held on August 7, 2022, Organized by CIKSNES, Assam University, Silchar.
- 5. Presented a paper on "A Case Study on Educated Entrepreneurs in the Handloom Sector in Assam" in the National Seminar cum Exhibition on Unlocking Potentialities and Elevating Growth in North East India through Handloom and Handicraft Industry held on August 7, 2022, Organized by CIKSNES, Assam University, Silchar.
- 6. Participated in the 2 Days' Workshop on Livelihood, Micro-Entrepreneurship & Employment Generation, Organised by AIC-MFIE-IM-BHU, Varanasi, July 30-31, 2022.
- 7. Presented a paper on "A Study on the Factors Influencing Satisfaction Level of Customers of Meghalaya Rural Banks" in the International Seminar on Accounting, Finance and Business Management, organized by Dept. of Business Administration, Assam University, Silchar on 27th September 2022.
- 8. Attended the onsite STARTUP INDIA session "Academic Incubation Sensitisation Workshop" held on 4th May 2022 at PRIME STARTUP HUB, Shillong.

Dr. Deepak Bhagat

- 1. Presented a paper "Value Chain Constraints of Araku Valley Arabica Coffee in Alluri Sitharama Raju district of Andhra Pradesh" in DBT, New Delhi funded International Conference on Environment and Sustainable Development: Emerging Trends in Agriculture, Life Science and Applied Computing organised by Biotech KISAN Hub, North- Eastern Hill University, Tura Campus, Meghalaya in collaboration with Department of Computer Application, NEHU, Tura Campus, Meghalaya during 24th-25th November, 2022.
- 2. Presented a paper "Cultural Significance and Diversity in Uses of Wild Edibles among Hill Tribes of Meghalaya" in DBT, New Delhi funded National Seminar on Conservation of Biodiversity (NSCB 2022) organised by Biotech KISAN Hub, North- Eastern Hill University, Tura Campus, Meghalaya during 2nd 3rd September, 2022.

Dr. Sunildro L.S. Akoijam

- 1. Presented a paper on "Overtourism and Host Communities: A Case Study on Kaziranga National Park in the 2nd Prism Conference on Leading the business of the future: Talent, Technology and Transformation in a changing world organized by Indian Institute of Management, Nagpur (IIM-Nagpur), during 17-19 November 2022.
- 2. Participated in the FDP on "Leveraging the Power of Teaching Pedagogy: Through Case Study Method" organized by SRM University (Delhi NCR Campus), during 20th -25th June 2022.

Dr. S.B.A. Mazumder

- 1. Presented a paper on "Understanding consumer attitude towards green marketing strategies and initiatives, during August 25-26, 2022 at the16th GJ National Seminar on Sustainable Business Model Innovation and Management Practices: Priorities and Perspectives organized by the Department of Business Administration, Assam University, sponsored by ICSSR (MHRD, Government of India.
- 2. Presented a paper on "Is green behaviour a response to the growing environmental challenges of a globalized world?" on July 29, 2022 at the 16th G J 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.
- 3. Presented a paper on "International Remittances and the impact of COVID-19 pandemic" during May 27-28, 2022 at the 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.

Dr. Thrinadha Rao Bandaru

- 1. Presented a paper entitled "Value Chain Constraints of Araku Vally Arabika Coffee, Alluri Sitaramaraju District of Andhra Pradesh" at the international conference on environment and sustainable development (ICESD 2022) theme on Emerging Trends in Agriculture, Life Science and Applied Computing organized by Biotech KISAN Hub, NEHU, Tura Campus, in collaboration with Department of Computer Application funded by DBT, New Delhi, India during 24-25th November 2022.
- 2. Presented a paper entitled "Stakeholders perspectives on Environmental Tourism in Waste Management" at the international conference on environment and sustainable development (ICESD 2022) theme on Emerging Trends in Agriculture, Life Science and Applied Computing organized by Biotech KISAN Hub, NEHU, Tura Campus, in collaboration with Department of Computer Application funded by DBT, New Delhi, India during 24-25th November 2022.
- Presented a paper entitled "Potential options and opportunities for Entrepreneurship Development

 A study on Meghalaya" at the National Seminar on Entrepreneurship Development: A Tribal Perspective organized by the Department of Management, North-Eastern Hilly University, Tura Campus, Meghalaya, on 28th 29th October 2022.
- 4. Presented a paper entitled "A study on Marketing Channels of Araku Vally Arabika Coffee, Andhra Pradesh" at the National Seminar on conservation of biodiversity (NSCB 2022) organized by Biotech KISAN Hub, NEHU, Tura Campus, funded by DBT, New Delhi, India during 3-4th September 2022.

$Honours/Awards/Recognition/Membership/F\\ ellowship$

Prof. J.U. Ahmed

1. Executive Editor, Journal of Advances in Management Sciences & Information Systems,

- Life Science Global, Mississauga Ontario, Canada.
- 2. President, North Eastern Management Association, India.
- 3. Life Member, North East India History Association
- 4. Life Member, North Eastern Commerce & Management Association.
- 5. Member, Mahatma Gandhi School of Economics & Commerce, Assam University, Silchar
- 6. Member, Academic Council, University of Science & Technology, 9th Mile, Meghalaya
- 7. Member, Advisory & Reviewers Board, PCC Journal of Economics & Commerce, Public College of Commerce, Dimapur, Nagaland, India.
- 8. Member, Advisory & Reviewers Board, Edu Search, Research Journal of N.C. College, Badarpur, Assam.

Prof. K.C. Biswal

- 1. National Coordinator, Research Forum, New Delhi
- 2. Member, Governing Body, Williamnagar Government College, Williamnagar, East Garo Hills Meghalaya

Prof. Abhigvan Bhattacharjee

- 1. Member, Governing Body, Tikrikilla Degree College, West Garo Hills, Meghalaya.
- 2. Government of Meghalaya nominated a member of Board of Governors of Captain Williamson Sangma Technical University, Tura Meghalaya.
- 3. Acted as a Juror in the MeitY IDEATHON Program on the 13th May 2022, conducted by PRIME Hub Meghalaya in collaboration with MeitY and IIM Calcutta Innovation Park at Department of Management, North-Eastern Hill University, Tura Campus, Meghalaya.

Dr. Deepak Bhagat

- 1. President, North Eastern Region Chapter of the Institute for Supply Management (ISM) India (An affiliate of ISM, USA).
- 2. Secretary, Council for Teacher Education (CTE), Meghalaya Chapter.
- 3. Managing Editor, Multidisciplinary International Research Journal, Council for Teacher Education Foundation, Nagpur.

Other Activities/achievements

Prof. G. Singaiah

- 1. Resource Person in National Workshop on "Atmanirbhar Bharat: A Vehicle Towards Sustainability" during 2nd-3rd September 2022, organized by Department of Management, NEHU, Tura Campus, Meghalaya.
- 2. Chaired a Technical Session in National Seminar on "Entrepreneurship Development: A Tribal Perspective" on 28th-29th October, 2022, Organized by Department of Management, NEHU, Tura Campus, Meghalaya.
- 3. Resource Person in National webinar on "Structure of quality research paper and research methodology" on 26th and 27th November, 2022 through Research Forum-India at the Department of Management, NEHU, Tura Campus, Meghalaya.
- 4. Delivered V S Lakhsmi Devi memorial endowment lecture on "Institutional Leadership for Value-based higher education" on 16th September 2022 organised by D. S. Subramanyam Memorial Trust at C. R. Reddy College, Eluru Andhra Pradesh.

Prof. J.U. Ahmed

- 1. Delivered an online lecture on the Zoom platform on "Environmental Issues and Sustainable Development in Indian Context" in the Faculty Induction Programme organized by UGC HRDC, Mizoram University on 28th November 2022.
- 2. Delivered Keynote Address titled, "Environmental Issues and Sustainable Development Strategies" in the Inaugural session of the International Conference on 'Environment and Sustainable Development' organized by Biotech Kisan Hub in association with the Department of Biotechnology, Ministry of Science & Technology, Govt of India on 24th November 2022.
- 3. Chaired one technical session International Conference on "Environment and Sustainable Development: Trends Life Agriculture, Science and *Applied* Computing" organized by the Department of Horticulture and Development of Computer Applications, NEHU in association with Biotech Kisan Hub on 24-25th November 2022.
- 4. Delivered an invited talk on "Incentivising Quality in Management Education" in the Orientation Programme organised by the Department of Business Administration of

- University of Science and Technology, Meghalaya on 22nd November 2022.
- 5. Delivered an invited lecture on "Creativity at Workplace and Team Building" in the Short-Term Course at University Grant Commission HRDC, Mizoram University on 30th October 2022 in online mode.
- 6. Chaired technical sessions 2 and 19 titled "Finance, Financial Markets and Commodity Markets" and "Corporate Governance and CSR, Trade and Investment-FDI, FII" respectively in the International Seminar on Accounting, Finance and Business Management, organized by Dept. of Business Administration, Assam University, Silchar on 27th September 2022.
- 7. Delivered a talk on "Implication of Functional Literacy and NEP 2020" as a Resource Person in the International Literacy Week 2022 programme, organized by the National Service Scheme (NSS), NEHU, Tura Campus on 12th September, 2022.
- 8. Delivered a talk on "Implementation of NEP 2020 in Professional Courses: The Challenges Ahead" as a Resource Person in the National Seminar Cum Workshop on Strategies for Implementation of NEP 2020 at College Level, organized by the Nongstoin College, Meghalaya on 10th September, 2022.
- 9. Chaired two technical sessions in the National Seminar on "Conservation of Bio-Diversity 2022 & Kisan Mela 2022", organized by the Department of Horticulture, North Eastern Hill University, Tura Campus in collaboration with the Department of Biotechnology, Ministry of Science & Technology, Govt. of India during 2nd and 3rd September 2022.

Prof. K.C. Biswal

- 1. Delivered a lecture on "Investment: Pros and Cons" organised by National securities depository limited (NSDL) as the resource person on 13th, October, 2022 at Don Bosco College, Tura, Meghalaya.
- 2. Delivered lecture on "Role of Banks in Development of Entrepreneurship: A Vision Forward" organised by Department of Commerce and IQAC, Science College P.N. College, Khurda, Odisha on 25th January, 2023.
- 3. Delivered lecture on "Empowering Rural India through Entrepreneurship Development: Issues and Challenges" on 15th February 2023 organised by P.G. Department of Commerce and

- IQAC Science College, Hinjilicut, Dist. Ganjam, Odisha.
- 4. Delivered lecture on "*Emerging Issues in Accounting and Finance*" organised by the P.G. Department of commerce, Bhadrak Autonomous college, Odisha on 17th February, 2023,
- 5. Delivered lecture on "Investment Awareness Programme by National Securities Depository Limited (NSDL)" on 6th March, 2022 at Tura Govt. College, Tura, Meghalaya.
- 6. Delivered lecture on "Investment Awareness Programme by National Securities Depository Limited (NSDL)" on 22nd March, 2022 at Women's College. Shillong, Meghalaya
- 7. Delivered lecture on "Investment Awareness Programme by National Securities Depository Limited (NSDL)" on 27th March, 2022 at Goalpara College, Assam.
- 8. Reviewer of Odisha Journal of Commerce, Bhubaneshwar, Odisha

Prof. Abhigvan Bhattacharjee

- 1. Delivered the Keynote address at the National Seminar Cum Exhibition on "Unlocking Potentialities and Elevating Growth in North East India through Handloom and Handicraft Industry" held on 7th August, 2022, Organized by the Centre for Indian Knowledge Systems with Reference to North East Studies (CIKSNES), Assam University Silchar.
- 2. Delivered lecture on "B-Plan Preparation" at the 2 Days' Workshop on Livelihood, Micro-Entrepreneurship & Employment Generation, organized by AIC-MFIE-IM-BHU, Varanasi on July 30, 2022.
- 3. Delivered a talk on 'Entrepreneurship and Start up: From Lab to Market' in the "International Seminar cum Workshop on Economic and Social Impact of Medical Devices on the Healthcare Sector in the Country" on 29th April, 2022, organized by the Design Innovation Centre (DIC) and Department of Biomedical Engineering, NEHU, Shillong, Meghalaya, Sponsored jointly by ICSSR-NERC, Shillong and DIC, NEHU.
- 4. Delivered a lecture as Chief Guest at the 6th International Conference on "Information and Communication Technology (ICT) in Education, International Girls in ICT Day", on 29th April, 2022, jointly organized by IQAC, NEHU, Shillong, ISTD, Shillong Chapter, and Department of Philosophy, Moran College, Assam, SVU, Andhra Pradesh.
- 5. Delivered a whole day Training Session as a Resource Person on "Group Dynamics, Conflict

- Management and Motivation" in "Mid-career Training Programme (MCTP) for SAOs/AAOs (Level-2) on 28th April, 2022, organized by the Regional Training Institute, Indian Audit & Accounts Department, N.E. Region, Shillong, Meghalaya, India.
- 6. Delivered an invited lecture in the short-term Course on "Soft Skill Development Programme for University and College Teacher on January 25th, 2023, conducted by HRDC-Mizoram University.
- 7. Delivered an invited lecture on "Mindfulness in worklife" in the 5th Faculty Induction Program (FIP) on January 25th, 2023, conducted by HRDC-Mizoram University.
- 8. Delivered an invited lecture (online) on 24 February, 2023 in the UGC sponsored Short Term Couse in Entrepreneurship Development, jointly organised by UGC-Human Resource Development Centre (HRDC), CU and the Department of Business Management, University of Calcutta.
- 9. Delivered an invited lecture (online) on the topic "Role of Team and Leadership in the success of a venture" on 21st February, 2023 in the one-week international workshop on Entrepreneurship Development organized by Entrepreneurship Development Cell, Rajkiya Engineering College Azamgarh.
- 10. Reviewer of (i) Int. J. of Internet Marketing and Advertising, (ii) Int. J. of Business and Emerging Markets, (iii) Int. J. of Human Factors and Ergonomics, (iv) Int. J. of Learning and Intellectual Capital, Sage Open etc.

Dr. Deepak Bhagat

- 1. Chaired one Technical Session of the International Conference on Environment and Sustainable Development: Emerging Trends in Agriculture, Life Science and Applied Computing organized by Biotech KISAN Hub, North- Eastern Hill University, Tura Campus, Meghalaya in collaboration with Department of Computer Application, NEHU, Tura Campus, Meghalaya during 24th and 25th November 2022.
- Chaired one technical Session in the National Seminar on Conservation of Biodiversity (NSCB 2022) organized by Biotech KISAN Hub, North-Eastern Hill University, Tura Campus, Meghalaya during 2nd – 3rd September, 2022.
- 3. Co-Chaired one technical Session in National E-Conference on 'Industry 4.0 & Society 5.0 A Journey from Industrial Revolution to Societal Eminence' organized by the Department of

- Management Sciences, Mahatma Gandhi Central University, Motihari Bihar during on 27th -28th August, 2022.
- 4. Editorial Board Member, Journal of Business Theory and Practice (ISSN 2372-9759 (Print) published from Los Angeles, CA.
- 5. Editorial Board Member, International Journal of Business and Management (ISSN 1833-3850 (Print) published by Canadian Center of Science and Education, Toronto, Canada.
- 6. Programme Officer, National Service Scheme (NSS) Unit, NEHU, Tura Campus
- 7. Coordinator-Events, NEHU, Tura Campus
- 8. Member, Internal Complaint Committee (ICC) wing in NEHU, Tura Campus

Dr. Bimal Debnath

- 1. Delivered lectures for Financial Education for young citizen at: (a) St Edmunds college Shillong, (b) St Marys College Shillong (c) BBS college Shillong (d) Barpeta Polytechnic College, Barpeta (e) Loyla College, William Nagar during 2022-23.
- 2. Resource person, Indian Institute of Entrepreneurship, Guwahati for 3 days program on Hand holding support to SHGs held on 27th Oct, 2022 at Selshella.
- 3. Co-Chaired two technical sessions in the National Seminar on "Conservation of Bio-Diversity 2022 & Kisan Mela 2022", organized by the Department of Horticulture, North

Eastern Hill University, Tura Campus in collaboration with the Department of Biotechnology, Ministry of Science & Technology, Govt. of India during 2nd and 3rd September 2022.

Dr. Sunildro L.S. Akoijam

- 1. Resource Person for the Webinar on "How to Write a Research Proposal" organised by Unity College, Dimapur, Nagaland on 27th February, 2023
- Delivered a lecture on "Marketing and its benefits" in the Start-Up Village Entrepreneurship Training Programme, organised by Wangjing Women and Girls Society (WWAGS), Manipur on 24th January, 2023.
- 3. Guest Faculty of Department of ABMFT, NEHU Tura Campus
- 4. Resource Person for the workshop on "Career Awareness" organized by the Department of Tourism and Hotel Management, NEHU, Shillong
- 5. Resource Person for the 5 Days' workshop on "Fundamentals of Management" organized by Department of Humanities and Social Sciences, NIT, Meghalaya
- 6. Resource Person for the "Career Awareness Programme" organized by Loyola College, Williamnagar and delivered one lecture on 23rd April 2022.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

Details of Faculties		Name	OK THE AC	Prof. G. Singaiah	Prof. Jaynal Uddin	Prof.K. C. Biswal	B1 ST MARCH 2023 Prof. Abhigyan Bhattacharjee	Dr. Deepak Bhagat
					Ahmed			
	2	Date of Joining		04-08-2006	24.07.06	18.10.2012	29.06.2012	28-03-2007
	3	Field of specialisation		Cross- Cultural Management, Entrepreneur ship Development	Finance and Strategic Managem ent	Finance and Accounting	Human Resource Management, OB, Rural Marketing	Agribusiness Management, Agriculture Supply Chain ManagementC onsumer Behaviour
(A)	4	UG		No	7 years	No	3 years	No
Teaching Experience (in Years)	5	PG, including PhD		35 years	19 years	25 years	16 years	16 years
	6	Basic Research		Yes	Yes	Yes	Yes	Yes
	7	Applied Research		Yes	Yes	Yes	Yes	Yes
	8	Action Research		Yes	Yes	Yes	Yes	Yes
	9	Project Submitted		No	No	No	No	01
	10	Ongoing Project		No	No	No	No	02
	11	Research Paper	Group I	No	No	01	No	No
(B) Research	12	in UGC care list journals	Group II	No	06	No	01	01
activities	13	Books /Books	Books	No	02	03	0	01
	14	chapters Published	Book Chapters	No	No	No	01	No
	15	Popular Articles (Newspaper/ Magazines)		No	No	No	01	No
	16	Seminar /	National	No	No	05	02	07
	17	Conference/ Symposia organized	International	No	No	No	No	No
	18	Seminar /	National	No	02	04	No	02
	19	Conference/ Symposia attended	International	03	03	02	07	02
	20	Conference Proceedings		No	No	No	No	No
	21	Consultancy		No	No	No	No	No
(C) Patent	22	Applied		No	No	No	No	No
Tutent	23	Published		No	No	No	No	No
(D)	24	Granted		No	No	No	No	No
(D) E-Content	25	MOOC/SWAYA M/ E-content developed		No	No	No	No	No
	26	Teaching /Extension /outreach activities		No	No	No	Yes	Yes
(E) Any Other	27	Responsibilities other than teaching		No	No	No	Yes	Yes
	28	Awards/ Honours/ Recognition/ Membership/ Fellowship		No	06	No	03	03
	29	Collaborations	National	No	No	No	No	03
	30		International	No	No	No	No	

Details of Faculties	1	Name		Dr. Bimal Debnath	Khundrakpam Devananda Singh	Dr Sunildro L.S. Akoijam	Dr. Sultana B.A. Mazumder	Dr Thrinadha Rao Bandaru
	2	Date of Joining		05.07.03	14.06.2012	25-06-2012	18.06.2012	22-04-2013
	3	Field of specialisation		Informati on System, Data Analytics, Machine Learning	Entrepreneurship & Enterprise Management, Project Management and Institutional Finance	Marketing, Strategy& IB	Marketing and Finance	IHRM & Tourism Management
(A)	4	UG		2 years	No	1.8	No	No
Teaching Experience (in Years)	5	PG, including PhD		10 years	17 Years	12 years	11 years	10 years
	6	Basic Research		Yes	Yes	Yes	Yes	Yes
	7	Applied Research		No	Yes	Yes	No	No
	8	Action Research		Yes	Yes	No	Yes	No
	9	Project Submitted		01	No	No	No	No
	10	Ongoing Project		No	No	No	01	No
	11	Research Paper in	Group I	No	01	01	No	No
(D)	12	UGC care list journals	Group II	No	03	02	No	No
(B) Research	13	Books /Books	Books	No	No	01	No	No
activities	14	chapters Published	Book Chapters	01	No	No	02	No
	15	Popular Articles (Newspaper/ Magazines)		No	No	01	No	No
	16	Seminar /	National	No	No	No	No	No
	17	Conference/ Symposia organized	International	No	No	No	No	No
	18	Seminar /	National	No	No	01	02	02
	19	Conference/ Symposia attended	International	No	No	01	01	02
	20	Conference Proceedings		No	No	No	No	No
	21	Consultancy		No	No	No	No	No
(C) Patent	22	Applied		No	No	No	No	No
ratent	23	Published		No	No	No	No	No
	24	Granted		No	No	No	No	No
(D) E-Content	25	MOOC/SWAYA M/ E-content developed		No	No	No	No	No
	26	Teaching /Extension /outreach activities		No	No	08	No	No
(E)	27	Responsibilities other than teaching		No	No	06	No	No
Any Other	28	Awards/ Honours/ Recognition/ Membership/ Fellowship		No	No	No	No	No
	29	Collaborations	National	No	No	No	No	No
	30	1	International	No	No	No	No	No

DEPARTMENT OF TOURISM AND HOTEL MANAGEMENT

Head: Dr. Benjamin F. Lyngdoh **Telephone:** +91-364-272 3442

E-mail: hodthm@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
Professor	Dr. Saurabh Kumar Dixit, MTM	Experiential Marketing, Gastronomic
	(IGNOU), Ph.D. (Bundelkhand	Tourism, Consumer Behavior, Urban
	University)	Tourism, Service Marketing
Associate	Dr. Benjamin F. Lyngdoh, M.Com. &	Management and entrepreneurship
Professor	PhD. (NEHU)	
	Dr. Punit Gautam, MTA. (Kurukshetra	Tour Operations, Tourism impact,
	University), D. Phil. (H.N.B. Garhwal	Sustainable Eco-Tourism
	University)	
Assistant	Dr. Sharad Kumar Kulshreshtha,	MICE & Event Management,
Professor	M.Com., MTA (AMU), PhD (Dr. B.R.	Tourism & Service Marketing,
	Ambedkar University, Agra))	Sustainable Tourism Practices,
		Emerging Concepts of Tourism.

Thrust Areas of Research

Tourism and hotel management, sustainable tourism, MICE, entrepreneurship, and small business management.

Brief Statement of Academic Activities and achievements

The faculty of the department have been continuously engaged in teaching, research and extension. The teaching involves both the PG students and Ph.D. scholars. In addition, the faculty have been engaged in writing of papers and conducting of research projects and publishing them in journals and edited books.

Students' Profile

> Enrolment Capacity: MBA(TTM) – 36, PhD – Variable

> Enrolment of students from different States of India and Abroad: MTTM & MBA (TTM)

	Ge	en	S	Γ	S	C	P	WD			TO	TAL
STATES	M	F	M	F	M	F	M		F	N	1	F
Arunachal	-	-	-	1	-	-	-		-	-		1
Assam	1	2	3	5	-	-	-		-	4		7
Bihar	1	-	-	-	-	-	-		-	1		-
Jharkhand	-	-	1	-	-	-	-		-	-		1
Manipur	1	2	-	-	-	-	-		-	1		2
Meghalaya	2	-	20	26	-	-	-		-	2	2	26
Nagaland	-	-	1	-	-	-	-		-	1		•
Uttarakhand	-	-	-	-	1	-	-		-	-		1
West Bengal	-	2	-	-	-	-	-		-	-		2
International	1	-	-	-	-	-	-	-	-	1		1 -
Total	1:	2	57	7	1		-	•	-	•		70

Degrees Awarded

> MTTM: 21, Ph.D.: 07

> Degrees Awarded to students from different States of India and Abroad (MTMM)

F
-
2
7
1
2
-
15

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Gen	l	ST		SC		OBO	C	EW	S	PWI)	TOT	ΓAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	2	2		-	-	-	-	-	-	-	2	2
Odisha	2	-	-	-		-	-	-	-	-	-	-	2	-
Jharkhand		-	-	-	1	-	-	-	-	-	-	-	1	-
Sub Total	2	-	2	2	1	-	-	-	-	-	-	-	-	-
Total	2		7		1		-		-		-		7	

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 Kulshrestha
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 Hynniewtrep, Meghalaya"	Dr. Punit Gautam Prof. Kynpham Sing Nongkynrih
Mr. Iadonlang Tynsong	" Event Tourism in Meghalaya: Status, Prospects and Challenges	Dr. Sharad Kumar Kulshrestha
Mr. Sachin Kumar Behera	" Souvenir Buying Behaviour of Tourist: A study of Ragghurajpur and Pipli of Odisha"	Dr. Punit Gautam

Research Fellowship

CSIR- UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship	Meritorious Fellowship	Maulana Azad National Fellowship	Others
3	4	1	-	-	-

Courses Conducted

> Postgraduate

Semester I: Principles and Practices of Tourism, Principles of Management and Organizational Behaviour, Hotel Operations and Management, Tourism Geography, Business Communication Economics for Tourism, Tourism Products of India, Human Resource Management

Semester II: Travel Agency and Tour Operations Management, Tourism Marketing, Transport Operations and Linkages, Accommodation Management, Accounting and Finance for Tourism and Hotel Business, Research Methodology, Event Management, Legal and Regulatory Framework of Tourism

Semester III: Tour Guiding and Escorting, Food and Beverage Management, Society and Culture of North East India, Information Technology for **Tourism** and Hotel Business, Aviation Management, Tour Packaging Management, Rooms Division Management, Revenue and Yield Management, Tourist Behavior, Selling and Negotiation Skills. **Tourism** and Hotel Entrepreneurship, Small Business Management Semester IV: Tourism Products of North East India, Destination Planning and Development,

India, Destination Planning and Development, Internship, MICE Management, Sustainable Tourism, Property Planning and Development, Quality Management, Destination Marketing and Branding, Customer Relationship Management, Business Plan Development, Social Entrepreneurship

> Ph.D. Courses

Research Methodology, Contemporary Issues in Tourism and Hospitality Management, Literature Review

Publications

> Research Papers (10)

- 1. Dixit, S.K., Prayag, G. (2022). Gastronomic tourism experiences and experiential marketing, *Tourism Recreation Research*, 47(3), 217-220. https://doi.org/10.1080/02508281.2022.2065089
- 2. Mandal, S., Gunasekar, S., Dixit, S. K., Das, P. (2022). Gastro-Nostalgia: Towards A Higher-Order Measurement Scale Based on Two Gastro Festivals. *Tourism Recreation Research*. 47(3), 293-315.
 - https://doi.org/10.1080/02508281.2021.1951589

- 3. Gupta, V., Sajnani, M., Dixit, S.K., Mishra, A., Gani, M.O. (2023). Are consumers influenced by the use of green practices in five-star hotels: an assessment of guest's revisit intentions, inclusive ratings, and hotel performance. *International Journal of Tourism Cities*, 9(1), 159-181. https://doi.org/10.1108/IJTC-05-2022-0131
- 4. Dixit, S.K., Langstieh, K.C.S., Abraham, A. (2023). Integrating indigenous knowledge and rural tourism in Kongthong, the "whistling village" of India, *Worldwide Hospitality and Tourism Themes*, 15 (1), 41-51. https://doi.org/10.1108/WHATT-08-2022-0097
- 5. Gunasekar, S., Ray, S., Dixit, S.K., PA, M.R. (2023). AI-enables product purchase on Amazon: what are the consumers saying?, *Foresight*, 25 (2), 185-193. https://doi.org/10.1108/FS-10-2021-0212
- 6. Yilmaz, G., Dixit, S.K. (2023). Analysing tea tourism products and experiences from India and Turkey: Supply proclivities", *Tourism: An International Interdisciplinary Journal.* 71 (2), 331-348. https://doi.org/10.37741/t.71.2.7
- 7. Prasad, S. D., Bindu, VT., Dixit, S.K. (2023). Community support for religious tourism: The role of place image, community attachment and overall quality of life. *Tourism: An International Interdisciplinary Journal*. 71 (2), 398-410. https://doi.org/10.37741/t.71.2.11
- 8. Lyngdoh, B., Gautam, P., Lyngdoh, Z. (2022). Tourism entrepreneurship and socio-economic development: Evidence from Meghalaya. *Journal of Tourism: An International Research Journal on Travel and Tourism*, 23(2), 13-22
- 9. Lyngdoh, B., Lyngdoh, Z. (2022). Tourism in Meghalaya: A resident's perception; *Journal of the Asiatic Society of Mumbai*, 96 (Nov 2022), 110-118
- 10. Lyngdoh, B., Lyngdoh, Z. (2022). Tourist perception of Meghalaya as a destination: Observation and policy implications; *Phalanx: A Quarterly Review for Continuing Debate*, 17(3), pp. 286-294

Edited Books/Volumes (03)

- 1. Dixit, S.K. (2022). Routledge Handbook of Wine Tourism, Routledge Publications, UK, ISBN: 978-03-6769-860-7 (Hardback), 978-10-0314-362-8 (E-Book).
- 2. Dixit, S.K., Prayag, G. (2022). *Gastronomic Tourism Experiences and Experiential Marketing*, Routledge Publications, UK, ISBN: 978-10-3241-283-2 (Hardback), 978-10-0335-732-2 (E-Book).
- 3. Dixit, S.K., Piramanayagam, Senthilkumaran. (2023). *Teaching Cases in Tourism, Hospitality*

and, Events, CABI, UK, ISBN: 978-18-0062-100-8 (Hardback), 978-18-0062-102-2 (E-Book).

➤ Book Chapters (17)

- 1. Kotur, S. A., Dixit, S.K. (2022). Introduction, In *The Emerald Handbook of Luxury Management for Hospitality and Tourism*. Kotur, S. A and Dixit, S.K. (Eds.). Emerald Publishing, UK ISBN: 978-1-83982-901-7 (Hardback), 978-1-83982-902-4 (E-Book), [Chapter 0, pp. 1-16].
- 2. 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 *The Emerald Handbook of Luxury Management for Hospitality and Tourism*. Kotur, S. A., Dixit, S.K. (Eds.). Emerald Publishing, UK ISBN: 978-1-83982-901-7 (Hardback), 978-1-83982-902-4 (E-Book), [Chapter 15, pp. 305-319].
- 3. Dixit, S.K., Kotur, S. A., (2022). Conclusion: Way forward for the hospitality and tourism luxury, In *The Emerald Handbook of Luxury Management for Hospitality and Tourism*. Kotur, S. A., Dixit, S.K. (Eds.). Emerald Publishing, UK ISBN: 978-1-83982-901-7 (Hardback), 978-1-83982-902-4 (E-Book), [Chapter 27, pp. 533-538].
- 4. Dixit, S.K. (2022). Gastronomic Tourism Marketing, In *Encyclopedia of Tourism Management and Marketing*. Buhalis, D. (Ed.), Edward Elgar: London, ISBN:978-18-0037-748-6, [Chapter 0, pp. 368-370].
- 5. Abraham, A., Dixit, S.K. (2022). Destination Competitiveness Dimensions, In *Encyclopedia of Tourism Management and Marketing*. Buhalis, D. (Ed.), Edward Elgar: London, ISBN:978-18-0037-748-6, [Chapter 0, pp. 858-861].
- 6. Dixit, S.K., Chaudhury, R. R., Abraham, A. (2023). Social Media Marketing for Business Events, In *The Routledge Handbook of Business Events*. Arcodia, C. (Eds.), Routledge: London, ISBN:978-13-1521-056-8, [Chapter 22, pp. 248-259].
- 7. Senthilkumaran, P. and Dixit, S.K. (2023). Start from Scratch: Managing the life cycle and sustaining tourist destinations, In *Teaching Cases in Tourism, Hospitality and, Events*. Dixit, S.K. and Senthilkumaran, P. (Eds.), CABI, UK., ISBN:978-18-0062-100-8, [Chapter 10, pp. 112-124].
- 8. Senthilkumaran, P., Dixit, S.K. (2023). Mayday, Mayday: Falling off a legacy, In *Teaching Cases in Tourism, Hospitality and, Events*. Dixit, S.K. and Senthilkumaran, P. (Eds.), CABI: UK., ISBN: 978-18-0062-100-8, [Chapter 16, pp. 182-190].

- 9. Senthilkumaran, P., Dixit, S.K. (2023). Sage bliss: The question of employee equity, In *Teaching Cases in Tourism, Hospitality and, Events*. Dixit, S.K. and Senthilkumaran, P. (Eds.), CABI: UK., ISBN: 978-18-0062-100-8, [Chapter 26, pp. 288-297].
- 10. Dixit, S.K. (2022). Introduction, In *Routledge Handbook of Wine Tourism*. Dixit, S. K. (Eds.), Routledge: London: ISBN: 978-03-6721-002-1, [Chapter 0, pp. 1-12].
- 11. Yadav, M.K., Dixit, S.K. (2022). The growth and evolution of global wine tourism, In *Routledge Handbook of Wine Tourism*. Dixit, S. K. (Eds.), Routledge: London: ISBN: 978-03-6721-002-1, [Chapter 1, pp. 15–28].
- 12. Dixit, S.K. (2022). Conclusion: Uncorking The Emerging Realms For Wine Tourism Research, In *Routledge Handbook of Wine Tourism*. Dixit, S. K. (Eds.), Routledge: London: ISBN: 978-03-6721-002-1, [Chapter 57, pp. 735-741].
- 13. Nengnong, E. M., Dixit, S.K. (2023). Homestay in small tea gardens: The case of Meghalaya, India, In *Routledge Handbook of Tea Tourism*. Jolliffe, L. *et al.* (Eds.), Routledge: London. ISBN:978-10-0319-704-1, [Chapter 13, pp. 124-133].
- 14. Tynsong. I., Kulshreshtha, S. (2022). Event Management Education: A Career Advantage in India. In *Tourism, Events and Digital Media*, Ruchika Kulshrestha, Preeti Singh, Subir Kr. Malakar and Abhimanyu Awasthi (Eds.) Orange Publications, ISBN- 978-93-5621-223-7
- 15. Tynsong. I., Kulshreshtha, S. (2022). Festival Management. In *The Encyclopedia of Tourism Management and Marketing*, Dimitrios Buhalis (Eds.), Edward Elgar Publishing UK, ISBN: 978-18-0037-747-9
 DOI: https://doi.org/10.4337/9781800377486.fest ival.management
- 16. Kulshreshtha, S., Kumar, A. (2022). Indigenous Beverages. In *The Encyclopedia of Tourism Management and Marketing*, Dimitrios Buhalis (Eds.), Edward Elgar Publishing UK, ISBN: 978-18-0037-747-9
 DOI: https://doi.org/10.4337/9781800377486.indigenous.beverages
- 17. Kumar, A., Kulshreshtha, S. (2022). Human Resource Management Practices in Classified Hotels of Shillong and Guwahati. In *Human Resource Management in 21 Century*. Joyjit Sanyal and Ekta Chakravarty (Eds.), Global Publishing House, India. ISBN: 978-93-95606-11-0.

IPR Items

> Patents (National)

Dr. Sharad Kumar Kulshreshtha

Title	Application No.	Date of publish
Covid-19 Impacts on The Hospitality and Tourism	202211061662 A	04/11/2022
Industry		

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	1.0

(B) EMR Research Projects to individual faculty members

Title of Project	Current	Name	Multi/Singl	Funding	Fund received
(Total outlay in Lakhs)	Status (New	(Pl/Co-Pl)	e Institute	Agency	by NEHU in
	/on-going/		(Tenure)		the year under
	completed)				report
					(in Lakhs)
Covid-19 pandemic and	Completed	Dr.	Single	Indian Council	Rs. 0.96 L
tourism of Meghalaya:	_	Benjamin F.	Institute	of Social	
Socio-economic impact and		Lyngdoh	1 year	Science	
mitigation measures				Research-	
(Rs.1.2 L)				NERC,Shillong	

Seminar/Conference/Symposium/Extension Programme etc.

- 1. Global Hospitality and Tourism Conference on Contemporary Marketing Paradigms (GHTC-2022) during 27th, 28th, and 29th July, 2022 at the Centre for Management Studies, North Eastern Regional Institute of Science and Technology, Nirjuli, Arunachal Pradesh (India). Convener: Dr. Saurabh Kumar Dixit.
- 2. Tourism Awareness and Capacity Building Programme at Kongthong Whilting Villages, East Khasi Hill District on 13 August, 2022. Convener: Dr. S. Kulshetra.
- 3. World Tourism Day Celebration-2022 at Multiuse Convention Hall, NEHU Shillong on 27 September, 2022 Organising Secretary: Dr. S. Kulshetra.
- 4. Coordinated Sohra and Dawki Visit for the group of Yuva Samagam -under Ek Bharat and Shrestha Bharat (EBSB) for the BBAU, Lucknow Students and Teachers for cultural sensitization and interaction with local and entrepreneurs of respective places. 1st March 2023 and 3rd March, 2023. Teacher Incharge: Dr. S. Kulshetra.

Honours/Awards/Recognition/Membership/Fellowship

Prof. S. K. 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)

Seminar/Conference/Symposium/Extension Programme etc.

Prof. S. K. Dixit

- 1. Delivered a talk on "Sustainable Culinary Tourism" in the 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.
- 2. Delivered Keynote address titled, "Technological Innovations in Tourism and Hospitality Industry"

- in the 3rd International Conference on Digital Transformation and Disruption in Management Leveraging Emerging Technology on 15th & 16th December 2022 at Faculty of Management, Parul University, Vadodara (Gujarat).
- 3. Delivered Key Note address titled, "Sustainable Goals **Developmental** and Management Practices" in the 4th International Conference on Sustainable Developmental Goals Management Practices on February 3-4, 2023 held at School of Hotel Management & Tourism, Professional University, Lovely Phagwara (Punjab), India.

Dr. S. Kulshetra

- 1. Attended Professional Development Programme on "Implementation of NEP-2020 for University and College Teachers" held from 09-17th September, 2022 organised by Indira Gandhi National Open University, Staff Training and Research Institute of Distance Education, New Delhi.
- 2. Delivered a talk on "Research Innovation and Rankings of HEIs" in the One Day National Webinar on NEP 2020 held at HRDC, NEHU, Shillong. 18 May 2022.

Other Activities/ Achievements

Prof. S. K. Dixit

- Participated as Panellist and delivered a talk, "Sustainability Vis-À-Vis Food Tourism in North Eastern India" in the Bodoland International Knowledge Festival-2023 organized from February 27, 2023 and 02nd March 2023 by Bodoland University, Kokrajhar BTR, Assam, India.
- 2. Participated as Panellist and delivered a talk on "Role of Destination Marketing Organization (DMO) in Promoting Tourism Destination" in the International Conference on Redefining Tourism through G20's Key Priority Areas (KPAs) organized from May 18, 2023 and 19, 2023 at Department of Tourism and Hospitality Management, Mizoram University, Aizwal, Mizoram, India.
- 3. Guest Editor: Special issue of Qualitative Market Research (Emerald Group Journal) on Reimagining Marketing in a Post-Pandemic World: Challenges, Strategies, and Solution.
- 4. Guest Editor: Special issue of Consumer Behavior in Tourism and Hospitality (Emerald Group Journal) on Changing dynamics of hospitality and tourism experiences and servicescapes in the 'new normal'.

Dr. S. Kulshetra

- 1. Delivered a talk, "Growth, Development and Emerging Trends, Health & Wellbeing" on 04.03.2023 in UGC Refresher Course in Biomedical Engineering, organised by HRDC, NEHU held during 1st to 14th March, 2023 in Virtual mode.
- 2. Delivered a talk, "Medical Tourism: Prospects and Scope for India" on 11.03.2023 in UGC Refresher Course in Biomedical Engineering held during1st to 14th March, 2023 in Virtual mode.
- 3. Resource person in the Roundtable Discussion on Developing a Framework for Seamless Tourist Movements to Northeastern States of India during 9th and 10th of May, 2022 at IIM Shillong.
- 4. Delivered as a Guest Speaker "Scope of AYUSH in Wellness and Medical Tourism" on 29 April 2022 in Transitional Curriculum for BAMS 1st Professional 2021-22.
- 5. Attended as a member for the meeting on "Development of Tourism sector in the North East: Challenges and Way-forward" held on 30th June, 2022 in the NEC Secretariat through Video Conferencing
- 6. Acted as a Panellist one Panel Discussion session on Sustainable and Responsible Tourism in 10th International Tourism Mart for the North East Region organised by Ministry of Tourism, Government of India at Aizawl Mizoram, 17-19 November, 2022
- 7. Delivered a talk as Resource person on "Digital all the Way: Tourism and Hospitality" with the participants on Case Study Writing on 25th November 2022 in the 5-Day Online FDP, organised by Amity University, Gurgaon during 21st to 25th Nov 2022.
- 8. Delivered one talk with BAMS Professionals at NEIAH, Ministry of AYUSH, Govt of India, Shillong on February 26, 2023.
- 9. Acted as a resource person on Tourism Awareness Program in Swer Village in East Khasi District, 9 October, 2022
- 10. Participated in Online Mode the "7th UNWTO World Forum on Gastronomy Tourism: Gastronomy Tourism for People and Planet: Innovate, Empower and Preserve" during 13 -14th December 2022
- 11. Reviewer in Euro Asia Tourism Studies Journal (EATSJ), Journal of Service Marketing etc.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

Details of	Name		1	Prof.	Dr. Benjamin	Dr. Punit	Dr Sharad
Faculties				Saurabh	F. Lyngdoh	Gautam	Kumar
				Kumar Dixit			Kulshreshtha
	Date of Joining		2	April 23, 2013	07/07/2006	25/04/2013	2 July 2012
	Field of specialisation		3	Hospitalit y and Tourism	Management, entrepreneursh ip and impact	Sustainable and Eco-Tourism, Tourism policy	Tourism and Management
					assessments	and planning, tour packaging and travel Agency operations	
(A) Teaching	UG		4	22 Years	2 years	More than 10 years	17
Experience (in Years)	PG, including PhD		5	21 Years	18 years	More than 25 years	16
	Basic Research		6	YES	Yes	Yes	Yes
	Applied Research		7	YES	Yes	Yes	Yes
	Action Research		8	YES	Yes	No	Yes
	Project Submitted		9	No	Yes	Yes	No
	Ongoing Project		10	No	No	No	No
	Research Paper in	Group I	11	No	Yes	Yes	No
	UGC care list journals	Group II	12	Yes	Yes	Yes	No
	Books /Books	Books	13	Yes	No	No	No
(B) Research	chapters Published	Book Chapters	14	Yes	No	No	Yes
activities	Popular Articles (News Paper/ Magazines)		15	No	Yes	No	No
	Seminar / Conference/	National	16	No	No	No	No
	Symposia organized	International	17	Yes	No	Yes	No
	Seminar / Conference/	National	18	Yes	Yes	No	Yes
	Symposia attended	International	19	Yes	No	No	Yes
	Conference Proceedings		20	No	No	No	No
	Consultancy		21	No	Yes	No	No
	Applied		22	No	No	No	No
(C)	Published		23	No	No	No	Yes
Patent	Granted		24	No	No	Yes	No
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	No	No	No	No
	Teaching /Extension /outreach activities		26	Yes	Yes	No	Yes
	Responsibilities other than teaching		27	No	Yes	Yes	Yes
(E) Any Other	Awards/ Honours/ Recognition/ Membership/		28	Yes	No	No	No
	Fellowship Collaborations	National	29	No	Yes	No	No
	Conacorations	International	30	No	No	No	No
	1	michianonal	30	INU	INU	INU	INO

II. SCHOOL OF EDUCATION

Dean:	DEPARTMENTS UNDER THE SCHOOL
Prof. E. Jyrwa E-mail: deanedu@nehu.ac.in Telephone: +91-364-272 3590	Department of Adult and Continuing Education Department of Education Department of Education (Tura Campus)
(O)+91-364-272 3591 (O)	Centre for Distance Education

1. Vision and Mission of the School

Vision

- Endeavours to create Awareness and sensitize students/community to develop a culture of lifelong learning for nation building and social transformation in tune with the changing socio-economic scenario. For this purpose, it aims to provide initial and continuous training of teachers, to research into lifelong learning and provision of individual, group and community for lifelong learning opportunities.
- Be a leader in developing the human resource for the Nation's Educational System in general and Teacher Education in particular.
- To set high standards of achievement in a quality educational environment and continuous improvement.

Mission

- To play a major role in the development of Human Resources especially in providing professional manpower in the area of lifelong learning.
- Preparing educationist who can respond to the changing educational needs and challenges of contemporary Indian Society in general and North East India in particular.
- Providing outstanding education, research, and best learning environment.

2. Future Plans

• Co-ordinating, collaborating and implementing the policies and programme of Education in accordance with the New Education Policy, 2020 for career employability, skills development, and sustainability.

3. Salient Data of the School [2022-2023]

Number of Students awarded Ph.D. Degree	12
Number of Research Publications	02
Number of Books, Book Chapters, and Proceedings	01
Number of Research Projects (Fund Received)	
Completed	NIL
On-going (2)	2.07 Lakhs
New	NIL
Number of Consultancy Projects (Fund Received)	
National	NIL
International	NIL
Number of Students Placed	11

Number of Students Selected for Higher Studies	06
Total Number of Patents	
Filed	NIL
Published	NIL
Granted	NIL
Policy Documents: Status (Name of the Agency) and Nu	ımber
(i) Applied	NIL
(ii) Approved	NIL

DEPARTMENT OF ADULT AND CONTINUING EDUCATION

Head: Dr. Jemino Mawthoh

Telephone: (0364) 3322,3327

Email:hodace@nehu.ac.in

Faculty Profile

Designati							
on	Name and Qualification	Specialization					
	Dr. E. Jyrwa, MPhil &Ph.D. (NEHU)	Perspective of Adult and Life-long Learning, Rural Development					
Professor	Dr. B. P. Sahu, MSW & Ph.D. (Kurukshetra)	Human Resource Development, PMIR Group Work in Adult Education					
Associate	Dr. J. Mawthoh, MA	Waste Management, Disaster Management,					
Professor	&Ph.D.(NEHU)	Research Methodology, Human Resource Management, Sustainable Development, Population Education					
Assistant	W.S. Mylliemngap, MA,	Adult and Continuing Education, Material					
Professor	MPhil and Ph.D. (NEHU)	Development					
	Dr. J.I. Rapthap,	Guidance and Counselling, Community					
	MSW(Bombay	Organization and Empowerment, Inclusive					
	University), Ph.D.(NEHU)	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 Continuing Education, Study on the Aged, Guidance Counselling. HIV/AIDS, Mass and Media. Vocational Training, Skill Development, Family Life Education, Substance Abuse, Rural Tourism, Challenged/Differently Health, Abled, Environmental Education, Disaster Management, Methodology, Entrepreneurship Research Development, Social Security.

Brief Statement of Academic Activities and Achievements

The Department of Adult and Continuing Education offers courses for MA and Ph.D. programme. The primary objective of the department is in promoting functional literacy and create awareness about important issues with reference to overall and diverse learning needs of all segments of the population. This includes issues

relating to foundational literacy, skill development, population education, human resource development, sustainable development, disaster management, counselling, rural development and so on. Keeping this in view, the department has widened its scope to cover multidisciplinary subjects.

Currently, Lifelong Learning and Skill Development has emerged as a key component in the field of Adult and Continuing Education. In this regard, the department in the next academic session will be offering M.A. and Ph.D. in Lifelong Learning and Extension. 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 slide presentation, group discussions and exposure trips.

In addition, the department is also involved in Field Outreach and Extension programmes besides Teaching and Research.

Students' Profile

- > Enrolment Capacity: M. A.: 55, Ph.D.: Variable
- > Enrolment of students from different States of India and Abroad (M. A)

	Gen	Gen		ST		SC		OBC		TOTAL	
STATES	M	F	M	F	M	F	M	F	M	F	
Meghalaya	-	-	25	8	-	-	-	-	25	8	
Mizoram	-	-	-	1	-	-	-	-	-	1	
Sub Total	-	-	25	9	-	-	-	-	25	9	
Total	-		34	34		-		-		34	

> Enrolment of students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC		EWS		PWD		TOTA	L
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	1	-	1	-	-	-	-	-	-	-	-	-	2
Sub Total	-	1	-	1	-	-	-	-	-	-	-	-	-	2
Total	-		2		-		-		-		-		2	

Degrees Awarded

- > M. A.: 34, Ph.D.: 02
- > Degrees Awarded to students from different States of India and Abroad (M. A)

	Gen	Gen		ST		SC		OBC		A L	
STATES	M	F	M	F	M	F	M	F	M	F	
Assam	-	-	-	1	-	-	-	-	-	1	
Manipur	-	-	1	-	-	-	-	-	1	-	
Meghalaya	-	-	11	20	-	-	-	-	11	20	
Mizoram	-	-	-	1	-	-	-	-	-	1	
Sub Total	-	-	12	22	-	-	-	-	12	22	
Total	-		34	34		-		-		34	

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC	7	EWS	5	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Total	0		2		-		-		-		-		2	

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/			
	Avvonences and Attitude toyyands Femily Life	Dr.Jemino			
Thymmeiri	Awareness and Attitude towards Family Life	Dr.jemmo			
Swer	Education among Adolescence Girls: A	Mawthoh			
	Comparative Study of Urban and Rural Settings in				
	East Khasi Hills District, Meghalaya				
Baiartis	Potentiality and Sustainability Indicators of	Dr.Jemino			
Lyngdoh	Community-Based Rural Tourism: A Contemporary	Mawthoh			
Peinlang	Analysis with Special Reference to East Khasi Hills				
	District in Meghalaya.				

Research Fellowship

CSIR-UGC-NET	UGC Non-Net	NFST	Inspire Fellowship	SRF UGC- NET
-	14	ı	1	1

Field Work/Educational Tour of Students

I.**Teacher-in-Charge:** Mrs. Nongthombam Shadani Devi

Places/Institutions Visited: Indian Council of Agricultural Research, Umiam

Duration of Tour (Dates and number of days): 4th June 2022

Purpose of Tour: Study-cum-Exposure visit to different extension farming systems and to acquaint with the extension and outreach activities of the Institute

II.

eacher-in-Charge: Dr. Wandashisha Myllemngap Places/Institutions Visited: Mumbai and Goa Duration of Tour (Dates and number of days):15th January 2023 to 29th January 2023

Purpose of Tour: Academic Study Tour.

Courses Conducted

➤ Postgraduate – M. A. (DACE)

Semester I (NEP-2020): Foundation of Adult and Lifelong Learning, Extension Education and Development, Guidance and Counselling, Human Resource Development, Sustainable Development.

Semester II (NEP-2020)

: Perspective of Adult and Lifelong Learning, Community Organization and Empowerment, Women Literacy and Empowerment, Inclusive Education, Research Methodology and Proposal Writing, Entrepreneurship and Skill Development.

Semester III (NEP-2020): Psychology and Adult Learning, Material Development, Population Education, Rural Development, Communication in Lifelong Learning, Disaster Management. Semester IV (NEP-2020): Dissertation (DSEC).

> PhD Courses

Research Methodology, Perspectives in Adult and Continuing Education, Literature Review and Seminar Presentation, Research Ethics

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

- 1. A discussion the School level at on "Modi@20Dreams Meetdelivery" organised by the School of Education, NEHU, Shillong 5August,2022 at the Multi-Use Convention Hall (Organizer: Prof. E. Jyrwa).
- 2. Organised a cleaning drive at the School level on 9th September, 2022 by involving all staff, students and teachers together with the NSS Volunteers in connection with the celebration of Swachhata Pakhwada.
- 3. Organised a concert on "Sangeet Se Sadbhav— Music for Harmony" on 9th March, 2023 at U Kiang Nangbah Auditorium, (Old Guest House), NEHU in collaboration with National Foundation of Communal Harmony, Ministry of Home Affairs, Government of India, New Delhi on 75Years of celebration of Independence and to commemorate the Golden Jubilee of North Eastern Hill University (Organizer: Prof. E. Jyrwa).
- 4. Convener of the programme Music for Harmony which was jointly organized by the School of Education, North Eastern Hill University, Shillong in collaboration with National Foundation of Communal Harmony, Ministry of Home Affairs, Government of India on the 9th March 2023 at U Kiang Nangbah Auditorium, NEHU, Shillong (Convener: Mrs. Nongthombam Shadani Devi).

Publications

> Research Papers (1)

1. Jyrwa, E and Nengcha (2023). Problem Faced by Women Self-Help Groups in Manipur. Journal of Emerging Technologies and Innovative Research ISSN: 2349-5162. Vol.10 Issues 5, May-2023, PP 222-228. Ahmedabad: I J Publication

Funds received during current year

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

Sr. No.	Funding Agency	Amount (Rs. In Lakhs),
01	NEHU	1.0

Seminar/Conference/Symposium/Extension Programme etc.

Prof. E. Jyrwa

1. Participated at a Regional Law Review Consultation on "Rights of Muslim woman - Reviewing Muslim personal Law" on 16th January, 2023 at the Conference Hall of the Administrative Building, NEHU, organised by the Department of Law, NEHU, Shillong in collaboration with the National Commission for Women, New Delhi.

Dr. Jemino Mawthoh

- 1. Orientation Programme for IAS (P) Meghalaya Assam Cadre on the 7th August 2022 at Meghalaya Administrative Training Institute, Shillong and delivered lecture on "The Sixth Schedule District Councils in Meghalaya and its Constitutional mandate".
- 2. Attended Symposium organized by Sankardev College on the occasion of the Diamond Jubilee Celebration and delivered a talk on "*Party Politics and Political Participation*" on 4th November 2022 at Sankardev College.

Dr. Wandashisha Mylliemngap

- 1. Attended as Resource person the *Regional Workshop on Indigenous Knowledge System in Meghalaya and Gujarat* for development of research tool on 15th July 2022.
- 2. Presented a paper on 'Adult Education and Lifelong Learning' in the National Seminar on *NEP 2020: The Way Forward,* on 18th November 2022 organized by Department of Education, Synod College at Synod College, Shillong.
- 3. Attended as Resource person and delivered three lectures on a) Approach to Material Development.
 b) Characteristics of Reading and Learning Materials for Adult Learners. c) Process of Poster Preparation in the *Workshop on Material Development* organized by Martin Luther Christian

University on 24th and 25th February 2023 at MCLU, Shillong.

Dr. Jacinta I. Rapthap

- 1. Attended as Resource Person during the Regional Workshop on Indigenous Knowledge System in the State of Meghalaya and developed a tool on the "Dresses and Ornaments of Meghalaya". The purpose of the workshop was to finalize the tool for testing the knowledge of Teachers and Students on Indigenous Knowledge System of Meghalaya organized by the Centre for Distance Education, NEHU, Shillong on 15th July 2022.
- 2. Attended as a Chief Guest during the celebration of the International Day of Persons with Disabilities at Mary Rice Centre for Special Education and presented a paper on "Transformative Solutions for Inclusive development: The Role of Innovation in Fuelling an accessible and equitable World" on 3rd December 2022.

Honours/Awards/Recognition/Membership/Fellowship

Dr. W. Mylliemngap

- 1. Member, Focus Group, State Curriculum Framework on Adult Education
- 2. Member of the Steering Committee, State Curriculum Framework on Adult Education

Other Activities

Dr. Jemino Mawthoh

- 1. Participated in the Panel Discussion as one of the Panelist on State budget 2022 organised by the Econ Club of the Department of Economics, Commerce and Management, Martin Luther Christian University on the 29th March, 2022.
- 2. Delivered lecture on "Modi@20 Dreams meet Delivery" organized by the School of Education, NEHU on the 5th August 2022 at the Multi-use Convention Hall, NEHU.

Dr. Wandashisha Mylliemngap

- 1. Attended as one of the judges in the Debate Competition organized by Department of Education, NEHU, Shillong on 6th June 2022
- 2. Supervised the Academic Study Tour undertaken by the Department of Adult and Continuing Education from 15th 29th January 2023
- Delivered a speech in the Visitation Programme in Department of Lifelong Learning and Extension, Mumbai University on 25th January 2023

Dr. Jacinta I Rapthap

- 1. Attended as an Observer during the Mock Drill Exercise in Ri-Bhoi District, Nongpoh, Government of Meghalaya organized by the Deputy Commissioner and Chairman (DDMA), Nongpoh, Government of Meghalaya on 8th April 2022.
- 2. Supervise the 15days Academic Study Tour to Mumbai and Goa along with the 3rd Semester Students from 15th January 2023 to 29th January 2023. Presented on the "History, Programmes and Activities undertaken by the Department of Adult and Continuing Education, NEHU, Shillong"

during a One-day Exchange programme in the Department of Lifelong Learning and Extension, Mumbai University on 25th January 2023.

Mrs. Nongthombam Shadani Devi

- 1. Chaired the Technical Session in the 9th Doctoral Research International Conference on Social Sciences, Humanities and Interdisciplinary Research jointly organized by IQAC, NEHU, Shillong, Indian Society for training and Development, Shillong Chapter, Shillong in collaboration with Department of Philosophy and the IQAC, Moran College, Assam and Department of Philosophy, Sri Venkateswara University, Tirupati, Andhra Pradesh, India on 21st September, 2022.
- 2. Conducted Study-cum-Exposure visit to Indian Council of Agricultural Research, Umiam on 4th June 2022, 45 students of 2nd Semester M.A. in Adult & Continuing Education were engaged for exposure to different extension farming systems and to acquaint with the extension and outreach activities of the Institute.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

Details of	Name		1	Prof. E.	Dr. Jemino	Dr. W.	Dr. Jacinta I.	Mrs. N.M
Faculties				Jyrwa	Mawthoh	Mylliemga p	Rapthap	Shadani Devi
	Date of Joining		2		10th April 2010	10th April 2002	3rd June 2002	18.06.2012
	Field of specialisation		3	Perspective of Adult and Lifelong Learning, Rural Development	Waste Management, Disaster Management, Research Methodology, Human Resource Management, Sustainable Development, Population Education	Adult and Continuing Education, Material Developme nt	Guidance and Counselling, Community Organization and Empowerment, Inclusive Education, Women Empowerment through Self-Help Groups	Rural Development
(A)	UG		4			No	No	-
Teaching Experience (in Years)	PG, including PhD		5		21 Years	21 years	21Years	11 years
	Basic Research		6		Yes	Yes	Yes	Yes
	Applied Research		7		No	No	No	No
	Action Research		8		No	No	No	No
	Project Submitted		9		No	No	No	No
(B)	Ongoing Project		10		No	No	No	No
Research	Research	Group I	11		No	No	No	No
activities	Paper in UGC care list journals	Group II	12		No	No	No	No
	Books /Books	Books	13		No	No	No	No
	chapters Published	Book Chapters	14		No	No	No	No
	Popular Articles (News Paper/ Magazines)		15		No	No	No	No
	Seminar /	National	16		No	No	No	No
	Conference/ Symposia organized	International	17		No	No	No	No
	Seminar /	National	18		Yes	Yes	Yes	No
	Conference/ Symposia attended	International	19		No	No	No	No
	Conference Proceedings		20		No	No	No	No
(6)	Consultancy		21		No	No	No	No
(C) Patent	Applied		22		No	No	No	No
	Published		23		No	No	No	No
	Granted MOOC/SWA		24 25		No No	No No	No No	No No
(D) E-Content	YAM/ E- content developed							
(E) Any Other	Teaching /Extension /outreach activities		26		Yes	Yes	Yes	Yes

DEPARTMENT OF EDUCATION (SHILLONG CAMPUS)

Head: Prof. B. B. Kharbirymbai **Telephone:** +91-364-272 2720

E-mail: hodedu@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
Professor	Dr. B. B. Kharbirymbai	Higher Education, Comparative Education, Research
	M.Phil & Ph.D.	Methodology
	Dr. S.M. Sungoh	Teacher Education, Higher Education, Psychology, Early
	M.Phil & Ph.D.	Childhood; Research Methodology
	Prof. C. Nongbri, M.Phil & Ph.D.	Curriculum Development, Teacher Education
	Dr. Ibadani S. Syiem	Educational Psychology, Early Childhood Education,
	M.A. & Ph.D.	Environmental Education, Guidance& Counselling,
		Teacher Education, Research Methodology
Assistant	Dr. Rihunlang Rymbai	Teacher Education, Science Education, Curriculum
Professor	M.Sc. & Ph.D.	Development, Research Methodology
	Dr. Ashok Kumar	Psychological and Sociological aspects of Education,
	Erigala, M.Phil & Ph.D.	Constructivist Pedagogy, Educational Exclusion of
		disadvantaged sections
	Dr. Vandana, M.A &	Research Methodology, Mental Health
	Ph.D.	
	Dr. Euodia B. Myrthong,	Mental Health Education, Educational Psychology,
	M.A & Ph.D.	Research Methodology, Teacher Education
	Dr. Naraginti	ICT in Education, Teacher Education, Inclusive Education,
	Amareswaran, M.Phil &	Philosophy of Education, Research Methodology in
	Ph.D.	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. The current intake capacity for MA is 51 and M. Ed is 50.

Students' Profile

> Enrolment Capacity: M.A.: 47, M. Ed.:34, Ph.D.: Variable

> Enrolment of students from different States of India and Abroad (M. A. Education

	Gen		ST		SC		OBC	7	EWS	5	TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	-	-	1	-	-	-	-	-	-	-	1
Manipur	1	-	-	1	-	-	-	-	-	-	1	1
Meghalaya	-	-	3	36	-	-	-	-	-	-	3	36
Mizoram	-	-	1	2	-	-	-	-	-	-	1	2
Nagaland	-	-	-	1	-	-	-	-	-	-	-	1
Tripura	-	-	1	-	-	-	-	-	-	-	1	-
Sub Total	1	-	5	41	-	-	-	-	-	-	6	41
Total	1		46		-		-		-		47	

> Enrolment of students from different States of India and Abroad (M. Ed)

	Gen		ST		SC		OBC	7	EWS	5	TO	ΓAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal	-	-	-	1	-	-	-	-	-	-	-	1
Pradesh												
Assam	1	1	-	-	-	-	-	-	-	-	1	1
Kerala	1	-	-	-	-	-	-	-	-	-	1	-
Meghalaya	-	-	5	25	-	-	-	-	-	-	5	25
Sub Total	2	1	5	26	-	-	-	-	-	-	7	27
Total	3		31		-		-		-		34	

> Enrolment of students from different States of India and Abroad (Ph.D)

	Gen		ST		SC		OBC	7	EWS	S	PWD		TOT	ΆL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	1	-	1	-	-	-	1	-	-	-	-	-	3
Meghalaya	-	-	1	-	-	-	-	-	-	_	-	-	1	-
Sub Total	-	1	1	1	-	-	-	1	-	-	-	-	1	3
Total	1		2		_		1		_		-		4	

Degrees Awarded

- > M.A.: 47, M.Ed: 33, Ph.D.: 07
- > Degrees Awarded to students from different States of India and Abroad (M. A.)

	Gen		ST		SC		OBC	7	EWS	5	TOTA	A L
STATES	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal	-	-	-	1	-	-	-	_	-	-	-	1
Pradesh												
Assam	-	-	_	-	-	-	-	1	-	-	-	1
Manipur	-	-	-	3	-	-	-	-	-	-	-	3
Meghalaya	-	1	1	33	-	-	-	-	-	-	-	34
Mizoram	-	-	-	4	-	-	-	-	-	-	-	4
Nagaland	-	-	-	1	-	-	-	-	-	-	-	1
Tripura	-	-	-	2	-	-	-	_	-	-	-	2
Sub Total	-	1	1	44	-	-	-	1	-	-	1	46
Total		1		45		0		1		0	0	47

Degrees Awarded to students from different States of India and Abroad (M.Ed)

	Gen		ST		SC		OBC	7	EWS	5	TOT	ΆL
STATES	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal	-	-	-	1	-	-	-	-	-	-	-	1
Pradesh												
Assam	-	1	-	1	-	-	-	-	-	-	-	2
Meghalaya	-	-	8	21	-	-	-	-	-	1	8	22
Sub Total	-	1	8	23	-	-	-	-	-	1	8	25
Total	1		31		-		-		1		33	

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Ge	en	S	Γ	S	С	OF	3C	EV	VS	PW	V D	To	tal
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Manipur	-	-	1	1	-	-	-	-	-	-	-	-	-	1
Meghalaya	1	-	1	2	-	-	-	-	-	-	-	-	2	2
Sikkim	-	-	-	-	-	-	1	-	-	-	-	-	1	-
W. Bengal	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Total	2	,	4	ļ.	-		1		-		-		7	7

Name of Student	Title of Thesis	Name(s) of Supervisor(s)
Mr Wankyrshan Rymbai	Effect of Ecopedagogy on Pro Environmental Behaviour among Student Teachers of Elementary Teacher Education programme in Meghalaya	Prof S. M Sungoh
Mr. Mamunur R.M Willy	Status and Problems of Secondary Education in Garo Hills, Meghalaya	Prof B.B. Kharbirymbai
Ms. Ruwndar Lastny Anal	Practice of Information & Communication Technology (ICT) in Teacher Education Programme in Manipur	Dr N. Amareswaran
Mr. Kishor Kumar Rai	Life Skills in relation to Attitude towards Alcohol Abuse and Academic Achievements of Senior Secondary Students of Sikkim	Dr Vandana
Md. Nawaz Sarif	Development of Psychological Capital amongst students: A Cross-Sectional Study in West Bengal	Dr Vandana
Ms. Vaneccia Grace Wahlang	Attitude of Higher Secondary Students Towards Life Skills in Relation to their Educational and Vocational Aspirations in Meghalaya	Prof S.M Sungoh
Ms. Caroline Lyngdoh Tron	Educational Interest and Vocational Interest in relation to Academic Achievement of the Secondary School Students in Meghalaya	Prof B.B. Kharbirymbai

Placement of Students

Name of the Student(s)	Organization	Place of Work
Deigratia Neemin Ranee	Synod College	Shillong
Sahtympang Dhar	Topcem Public School	Thangskai
Rapdaphisha Nadon	Presbyterian Secondary School	Laitkor
IbansukjanaiWahlang	Mairang Khatsawphra College	Mairang
Jylliewty Syiemlieh	Synod College	Shillong
Daphira Khymdeit	Government L.P. School	Pahamri-oh
Christy Ekka	Don Bosco School,	Guahati, Assam
Daphira Dhar	Thadlaboh Higher Secondary School	Jowai
Biltimai Blah	Little Blossom School	Shillong
Lucy Beihrozi Lapi	Grace Academy	Siaha Mizoram
Evanisha Ïawphniaw	Nongkasen Eastern	West Khasi Hills
		District
Jennifer Muksor	Umladang UP SSA and RMSA	Jowai
	Secondary School,	
Marchita Sengatchi R Marak	St. Mary's College of Teacher	Shillong
	Education,	
Kimbri Dingman R Sangma	NEHU	TURA Campus
Cecilia Kharnongrum	St Paul higher secondary school	Marbisu,
		Meghalaya
Chimchim Janet Sangma	Euro kids,	Tura
Blessa Ch Momin	K L Bajoria college,	Shillong

Silte R Marak	Loyola College	Williamnagar
Cristin Ch. Momin	Mallangkona Govt. Hr. Sec. School	West Khasi Hills,
		Meghalaya
Wanskhem Langstang	Maitdein RMSA Sec School	Laskein,
		Meghalaya
Sharmistha Ghosh	KVS CRPF	Amerigog,
		Guwahati

Students Selected for Higher Studies

Name of the Student(s)	Name of the Programme	Institution/Organization
Wanshailang Khongstid	Ph.D.	NEHU
Sanjita Devi	Ph.D.	NEHU

Research Fellowship

UGC- NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others
21	3	6	0	1	0

Field Work/Educational Tour of Students

Teacher-in-Charge: Dr Vandana and Dr R.

Rymbai

Places/Institutions Visited: Kolkatta
Duration of Tour (Dates and number of days): 16th January 2023-23rd January, 2023
Purpose of Tour: To enable the students to come in contact with research workers, students and teachers in the field of Education and Environmental Education in other institutions, etc

Courses Conducted

> Postgraduate – M. A. (Education)

MA Education (New Syllabus NEP 2020)

Semester I (NEP2020): Philosophical Foundations of Education, Advanced Educational Psychology, Educational Management and Change, Research Methodology in Education (I&II).

Semester II (NEP 2020): 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 Though-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 Though-II (Western), Teacher Education-II, Economics of Education.

M.Ed.

Semester I (NEP 2020): Education in Philosophical Perspective, Psychology of Learning and Development, Teacher Education in India, Theory and Practice of Teaching, Personality Development and Communication Skills, Inclusive Education, Teaching Competencies

Semester II (NEP 2020)

: Mental Health Education, Education in Social Perspective, Curriculum Development, Internship, Research Methodology and Proposal Writing, Information and Communication Technology in Teacher Education

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.

> PhD Courses

Research Methodology, Statistical Analysis & Computer Application, Higher Education, Research and Publication Ethics.

Seminars/Conferences/Workshops/Symposia/ Extension Programmes

- 1. Two Days National cum NEIES Annual Conference on the theme" Implementation of the National Education Policy NEP 2020: Issue and Challenges "on the 20th & 21st October, 2022 in collaboration with Department of Education, NEHU and the North East India Education Society (NEIES) [Organizer: Prof. I. Syiem].
- 2. 31stInternational Workshop on War & Peace, and Philosophical Way of Life for Happy Worldorganised by the Internal Quality Assurance Cell (IQAC), North-Eastern Hill University, Shillong, Meghalaya, India in collaboration with the Department of Philosophy & IQAC, Moran College (Affiliated To Dibrugarh University), Moranhat, Assam, India, and Department of Philosophy, Sri Venkateswara University (SVU), Tirupati, Andhra Pradesh, India 30th April 2022 [Organizer: Dr.NaragintiAmareswaran].
- 3. 35th International Workshop on *Pareto Principle* (80/20 Rule) and Pomodoro Time Management Technique for Personal and Professional Development organised by the Internal Quality Assurance Cell (IQAC), North-Eastern Hill University, Shillong, Meghalaya, India in collaboration with the Department of Philosophy & IQAC, Moran College (Affiliated To Dibrugarh University), Moranhat, Assam, India, Department of Philosophy, Sri Venkateswara University (SVU), Tirupati, Andhra Pradesh, India Mav 2022 [Organizer: Dr. Naraginti Amareswaran].
- 4. 8th International Conference on Cultural Quotient, Intercultural Competence and Multicultural

- Education Bridging Divides and Knowledge Gaps in an Organization jointly organized by the Internal Quality Assurance Cell (IQAC), North-Eastern Hill University (NEHU), Shillong, Meghalaya, India, and the Indian Society for Training and Development (ISTD), Shillong Chapter, Meghalaya, India in collaboration with the Department of Philosophy, and IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India, and the Department of Philosophy, Sri Venkateswara University (SVU), Tirupati, Andhra Pradesh, India on 5th June 2022 [Organizer: Dr.NaragintiAmareswaran].
- 5. 7th Doctoral Research International Conference on Social Sciences, Humanities, and Interdisciplinary Researchjointly organized by the Internal Quality Assurance Cell (IQAC), North-Eastern Hill University (NEHU), Shillong, Meghalaya, India, andthe Indian Society for Training and Development (ISTD), Shillong Chapter, Shillong collaboration with the Department Philosophy, and IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India, and the Department Philosophy, Sri Venkateswara of University, Tirupati, Andhra Pradesh, Indiaon28thJuly 2022 [Organizer: Dr.NaragintiAmareswaran].
- 6. 8th Doctoral Research International Conference on Social Sciences, Humanities, and Interdisciplinary Research jointly organized by the Internal Quality Assurance Cell (IQAC), North-Eastern Hill University (NEHU), Shillong, Meghalaya, India, andthe Indian Society for Training and Development (ISTD), Shillong Chapter, Shillong in collaboration with the Department of Philosophy, and IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India, and the Department of Philosophy, SriVenkateswara University, Tirupati, Andhra Pradesh, Indiaon29th August 2022 [Organizer: Dr. Naraginti Amareswaran].
- 7. 11th International Conference on *Professional* Development of Teachers Higher Education jointly organized by the Internal Quality Assurance Cell (IQAC), North-Eastern Hill University (NEHU), Shillong, Meghalaya, India, Indian Society for Training Development (ISTD), Shillong Chapter, Shillong collaboration with the Department of Philosophy, and IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India, and the Department Philosophy, Sri Venkateswara University, Tirupati, Andhra Pradesh, Indiaon5th September 2022 [Organizer: Dr.NaragintiAmareswaran].
- 8. 66th International Workshop on *Great Life Lessons* from Herbert Spencerjointly organized by the Internal Quality Assurance Cell (IQAC), North-

- University (NEHU), Eastern Hill Shillong, Meghalaya, India, and the Indian Society for Training and Development (ISTD), Shillong Chapter, Shillong in collaboration with the Department of Philosophy, and IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India, the Department of Philosophy, Venkateswara University, Tirupati, Pradesh, India on 31stDecember 2022 [Organizer: Dr.NaragintiAmareswaran].
- 70th International Workshop on Philosophical Foundations of Education for Professional Development of Teachers jointly organized by the Internal Quality Assurance Cell (IQAC), North-Eastern Hill University (NEHU), Shillong, Meghalaya, India, and the Indian Society for Training and Development (ISTD), Shillong Chapter, Shillong in collaboration with the Department of Philosophy, and IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India, the Department of Philosophy, Venkateswara University, Tirupati, Pradesh, India on 28th January 2023. [Organizer: Dr.NaragintiAmareswaran].
- 10.16th International Conference on Science and Technology for National Development jointly organized by the Internal Quality Assurance Cell (IQAC), North-Eastern Hill University (NEHU), Shillong, Meghalaya, India, and the Indian Society for Training and Development (ISTD), Shillong Chapter, Shillong in collaboration with the Department of Philosophy, and IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India, of the Department Philosophy, and Venkateswara University, Tirupati, Pradesh, India on 28th February 2023. [Organizer: Dr. Naraginti Amareswaran].
- 11. 15th Doctoral Research International Conference on Social Sciences. Humanities, Interdisciplinary Research jointly organized by the Internal Quality Assurance Cell (IQAC), North-Eastern Hill University (NEHU), Shillong, Meghalaya, India, and the Indian Society for Training and Development (ISTD), Shillong Chapter, Shillong in collaboration with the Department of Philosophy, and IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India, Department of Philosophy, University, Tirupati, Venkateswara Andhra Pradesh, India on 31st March 2023. [Organizer: Dr. Naraginti Amareswaran].

Publications

> Research papers (27)

- 1. Kharbirymbai (April 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
- 2. Kharbirymbai (July 2022) "Self-Regulated learning through technology-A study review" at the Indian Journal of Educational technology,ISSN:2581-8325,Vol: 4,issue 2, UGC CARE. Central institute of Educational technology, NCERT, New Delhi.
- 3. Kharbirymbai (December 2022) "Academic Procrastination and Intelligence in predicting Self-Regulated Learning of Higher Secondary at the Bharatiya Shiksha Shodh Students" Patrika, ISSN:0970-7603, UGC- CARE, Lucknow.
- 4. Wahlang V.G. & Sungoh S. M. "A Study on Attitude towards Life Skills and its relationship with educational and vocational Aspiration of Higher Secondary School Students in Meghalaya,' International Journal of Scientific Development and Research, Vol 7 Issue 11, November 2022. (ISSN: 2455-2631).
- 5. Sungoh S.M.& Cal "A Comparative Analysis of the Science Higher Secondary Question Papers of Meghalaya Board of School Education (MBOSE) and the Central Board of School Education (CBSE)", in Aruhu Kuruhu Bi-lingual Journal, Vol.13, JnanaBinduSpl Issue:52, January 2023.
- 6. Sungoh S.M. & Calmy Rosette Kharlukhi "Class 12 Science Question papers of MBOSE and CBSE: A comparative Analysis", in Aruhu Kuruhu Bilingual Journal, Vol.13, Jnana Bindu Spl Issue:52, January 2023. (ISSN: 2347/5048) pp202-214
- 7. Sungoh S.M.& Calmy Rosette Kharlukhi. Science Textbooks of MBOSE and Local Context as per NEP 2020.in Aruhu Kuruhu Bi-lingual Journal, Vol.13, Jnana Bindu Spl Issue:52, January 2023. (ISSN: 2347/5048) pp 215-218
- 8. Syiem, I. & Simsong, A. (2022) Intercultural Sensitivity in India: Literature Review. Third Concept: An international journal of Ideas. 36(429) pp 98-99
- 9. Syiem, I. & Simsong, A. (2022) Intercultural Sensitivity and its role in the field of Education: A study of post graduate students of North- Eastern Hill University, Shillong. Aruhu Kuruhu lingual monthly journal, 13(52) pp 206-214
- 10. Rymbai, R. (2022). Grit, Resilience and Vitality of University Student. Aruhu Kuruhu, 12(48), 406 – 412. (UGCCARE List Journal, ISSN 2347-5048).

- 11. Rymbai, R. (2022). Gratitude, Psychological Wellbeing, Life Satisfaction and Flourishing of Student Teachers. *Aruhu Kuruhu*, 12(48), 422 429. (UGCCARE List Journal, ISSN 2347-5048).
- 12. Rymbai, R. (2022). Hope, Happiness, and Meaning in Life of Post Graduate Students. *Third Concept*, 36(429), 147 149. (UGCCARE List Journal, ISSN 0970-7247).
- 13. Rymbai, R.& Rymbai, K.A. (2022). Problems of Teacher-Counsellors in the Secondary Schools of Mawkynroh. *AruhuKuruhu*, 13(48), 278 282. (UGCCARE List Journal, ISSN 2347-5048).
- 14. Rymbai, R.& Iangrai, P. (2022). Problems of Science Students in Higher Secondary Schools of Shillong. *AruhuKuruhu*, 13(49), 283 287. (UGCCARE List Journal, ISSN 2347-5048).
- 15. Kharmawshun, W. & Rymbai, R. (2022). Creative Teaching: A Teaching Approach. *JuniKhyat*, Jul-Dec 2022,201 210. (UGCCARE List Journal, ISSN 2278-4632).
- 16. Ashok Kumar. E and Rupam Das (2022). Influence of COVID-19 Pandemic on Various Aspects of School Education in India: An Appraisal. *International Journal of Educational Sciences*. 38(1-3): 105-112. http://DOI: 10.31901/24566322.2022/38.1-3.1240,Web of Science,July-sept, 2022
- 17. Chittibabu Putcha and Ashok Kumar. E (2022). Challenges in implementing National Education Policy 2020: a critical Analysis. *International Journal of Early Childhood Special Education (INT-JECSE)*. 14(1), 3926-3931. http://DOI: 10.48047/INTJECSE/V14I1.47, Scopus Jan-June, 2022
- 18. Ashok Kumar. E and K. Nongkynrih (2022). Impact of Exclusion from Regular Education in

- Rural Areas. *Third Concept: An International Journal of Ideas*, 36(425), 35-38. (UGC-CARE)
- 19. Ashok Kumar. E and Vandana (2022). Homework Practices in Elementary schools of Meghalaya-A Perspective Analysis. *Aruhu Kuruhu*, *12(48)*, 366-377. (UGC-CARE)
- 20. Vandana and Ashok Kumar. E(2022). Value Education in Schools: Role of Teacher and Parents. *AruhuKuruhu*, *12(48)*, 360-365. (UGC-CARE)
- 21. Vandana, & Erigala, AK. (2022). Value Education in Schools-Role of Teachers and Parents. Aruhu Kurhu.
- 22. Erigala, AK &Vandana (2022). Homework Practices in Elementary Schools of Meghalaya-A perspective Analysis. Aruhu Kurhu.
- 23. Rai, KK & Vandana. (2022). Role of life-skills and attitude toward alcohol abuse in predicting academic achievement of school students. J Edu Health Promot.11:369.
- 24. Sarif, N., &Vandana. (2022).Correlates and Antecedents of Academic Achievement: A Systematic Review. Int J Edu Sciences. 36 (1-3).
- 25. Sarif, N., &Vandana. (2022). Psychological Capital, Its Correlates, and Antecedents: A Systematic Review. Education India Journal: A Quarterly Referred Journal of Dialogues on Education, ISSN 2278-2435.11 (3).
- 26. Aier, R. and Myrthong, E.B. (2022). Causes of Burnout among College Teachers with reference to Nagaland. *Aruhu Kuruhu*, 13(49):311-315.
- 27. Begum, D. and Myrthong, E.B. (2022). Women's Empowerment and Education- A Conceptual Framework. *Education and Society*, 45 (4): 53-57.

Book Chapters (10)

- 1. Kharbirymbai B. B (2022) chapter-1, Empowering women through higher Education for Sustainable Development, Pages-158-162 in the book titled-Identification of Abusive relationship and prevention of Domestic Violence, Edited by Dr. Abul Foyes MD Malik, Published by- Akhand Publishing House (online), ISBN: 978-93-90870-70-7.
- 2. Kharbirymbai, B.B (2022) chapter-1,"Understanding Mental Health and Learners Participation –Role of teachers during Pandemic situation", Pages-1-14 in the book titled-Emerging issues and recent trends in Indian
- Education' Edited by Dr. Phunu Das Sarma and Dr. Sehnaz Sultana, Published by- Research and Publication Cell and Anundoram Borooah Academy Degree College, Guwahati (India) ISBN: 978-93-90706-41-9
- 3. Kharbirymbai, B.B (2022) chapter-4,"Development of Higher Education in Meghalaya since Statehood" Pages-41-80 in the book titled-" A Retrospection into Meghalaya's 50 years Journey of Statehood" Edited by David Arnold Kharchandi, Published by- Lakshi Publishers & Distributors, New Delhi (India)-110002 ISBN: 978-81-94893-61-5(HB)
- 4. Kharbirymbai, B.B (2023) chapter-1, "Use of ICT in Teacher Education" Pages-1-17 in the book

- titled-"Higher Education In India" Edited by Dr. Phunu Das Sarma & Dr. Sehnaz Sultana, Published by- Research and Publication Cell, Anundoram Borooah Academy Degree College, Guwahati (India)-3 ISBN: 978-93-90706-23-5(HB)
- 5. Kharbirymbai, B.B(2023)chapter-9,"Globalization and Cross Border Higher Education in India " Pages-83-93 in the book titled-" Cross Border Connectivity and Inclusive Growth Vol-1, Edited Dr.SankarSarma, Dr.EKharkongor, Dr.S.Khyriemmujat, Published by-**EBH** publishers(India) Guwahati (India)-781001 ISBN: 978-93-92038-49-5(set)
- 6. Kharbirymbai, B. B. (2023) chapter-16,"How critical is critical and creative thinking" "Pages-207-212 in the book titled-"Recent Concerns in Humanities and social sciences", A Research Based peer reviewed book, Edited by BimanDutta, Md.AktarHussain, Simismita Borah, Published by-SUNBEAM publishers,Rupnagar,Guwahati-32 ISBN:978-93-5891-717-8

Book (02)

1. Laurence Kharluni and Ashok Kumar. E(2023). Social Intelligence, Pro-social behaviour and Academic Achievement: A Correlation Study on Higher Secondary

- 7. Sungoh S.M. (2023), "Interview and Questionnaire" in *Research Methodology*, Khyriemmujat, S; Laloo B.M.; Khongwir S.; (Ed). EBH Publishers, Guwahati. ISBN no 978- 93-92038- 23- 5. Chapter 4, pp 42-56.
- 8. Syiem, I. (2022) Gender stereotyping and Gender based violence. In Recent trends in Education . S. Agarwalla(Ed) Publication Board , Dispur College, Guwahati . ISBN: 978-81-958446-1-6, pp11-1
- 9. Atul Chandra Baroand Ashok Kumar. E(2022)Education: A Panacea for National Integration in India. In Sandhan. Mohanthy, P. and Baro, R(Eds). Gigabytes Press Publication, Assam.ISBN. 978-93-5737-092-9, pp. 195-202.
- 10. Myrthong, E.B. (2023). Role of Education in Developing Human Resources and Enhancing Quality of Life in the Border Areas of Meghalaya. In Cross Border Connectivity and Inclusive Growth (Vol.1). Sarma, S., Kharkongor, E. and Khryiemmujat, S. (Eds). EBH Publishers, Guwahati, ISBN: 978-93-92038-49-5, Chapter 13, pp. 121-127.
 - Students of Meghalaya. Ashish Books, New Delhi.ISBN: 978-93-91979-81-
- 2. Tamang, R. & Reddy, N.A. (2022). *Blended Learnin gIn Higher Education*. LapLamber, Academic Publishing, Germany, ISBN: 978-620-0552-7672

Funds received during current year

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

Sr. No.	Funding Agency	Amount (Rs. In Lakhs),
01	NEHU	1.0
02	Govt. of Meghalaya (for NEIES seminar)	2.5

Seminar/Conference/Symposium/Extension Programme etc.

Prof. B. B. Kharbirymbai

1. Presented paper at the International seminar titled "Sustainability and Live hood: North East perspective" on the 26th of August,2022 organized by Synod College Shillong, supported by State Council of Science, Technology and Environment, Government of Meghalaya on the theme-"Sustainability towards a renewing existence" (25th -26th of August,2022)

- 2. Presented paper titled- "Human Rights and Gender Equality" the International Multi-Disciplinary Conference titled "Eco-Psychology: A silver line for sustainable development" on the 14th& 15th of October,2022 organized by SreeAyappa College of women, KanyaKumari District, Tamil Nadu, India.
- 3. Presented a paper titled:" ICT for professional development of teachers-Issues and challenges with special reference to Meghalaya" at the two day National Seminar cum conference of North East India Education society (NEIES) held on the

- 20th& 21stOctober,2022 organized by the department of Education, NEHU, Shillong in collaboration with NEIES.
- 4. Presented a paper titled:" ICT for professional development of teachers-Issues and challenges with special reference to Meghalaya" at the two day National Seminar cum conference of North East India Education society (NEIES) held on the 20th& 21st October,2022 organized by the department of Education, NEHU, Shillong in collaboration with NEIES.
- 5. Presented a (joint) paper titled:" ICT Competencies of College Teachers in Ri-Bhoi District, Meghalaya" at the two day National Seminar cum conference of North East India Education society (NEIES) held on the 20th& 21st October,2022 organized by the department of Education, NEHU, Shillong in collaboration with NEIES.
- 6. Presented a (joint) paper titled:" Empowering women for Sustainable Development" at the two day National Seminar cum conference of North East India Education society (NEIES) held on the 20th& 21st October,2022 organized by the department of Education, NEHU, Shillong in collaboration with NEIES
- 7. Presented a (joint) paper titled:"A study on relationship between academic procrastination and intelligence among tribal higher secondary students in Nagaland" in the Multidisciplinary International Conference on Eco-psychology: A silver line for sustainable development organized on October 14-15, 2022 at SreeAyyappa College for women, Nagercoil, Tamil Nadu
- 8. Attended the lecture by Prof. Andrew May, University of Melbourne entitled the "Three seasons in Shillong: Staging empire in a British Colonial Enclave in the late Nineteenth Century" organized by The OIA and NEHUAA at NEHU lecture series on the occasion of the Golden Jubilee celebration on 22nd of March at 2PM at VC Conference Hall.
- 9. Attended the meeting regarding the interaction comprising a delegation of MPs, academicians, policy thinkers and other leaders from 18 different countries across the world (New iii. Zealand, Kenya, Mexico, Chile, Equador, Surinam, Switzerland etc.) at 10-30 AM to 11 AM

- on Monday, 13 th March, 2023.organized by Office of International Affairs(OIA), NEHU Shillong.
- 10. Attended the emergent School Board meeting of IGNOU with delegations and academicians at IGNOU, Maidangrahi ,New Delhi on the 6th of March,2023

Prof. S. M. Sungoh

- 1. Attended A Meeting of the Departmental Advisory Board as an expert from the North East on 3rd April, 2022, in The Division of Educational Research, NCERT, New Delhi.
- 2. Attended a meeting in the Division of Educational Research (DER) as an expert, on 16 December, 2022 in NCERT, New Delhi.
- 3. Attended a meeting in the Division of Educational Research (DER) as an expert, on 6-7th March, 2023 in NCERT, New Delhi.
- 4. Attended a Meeting on NIOS at Guwahati Regional Office, Guwahati, as a Chairperson of the Regional Committee on 13th March 2023.

Prof. I. Syiem

- i. Presented a paper titled-" Gender Equality and Women Empowerment for Sustainable Development" on 23rd September, 2022 at the Two Days National Seminar on Education held from the 22nd & 23rd September, 2022, on the theme- Affirmative Action and Inclusion in North- East India organized by Department of Education, Rajiv Gandhi University, Arunachal Pradesh in collaboration with ICSSR- NERC,
- ii. Presented jointly a paper titled -"Intercultural Sensitivity of tribal and non-tribal post graduate students of North- Eastern Hill University, Shillong" on 22nd September, 2022 at the Two Days National Seminar on Education held from the 22nd & 23rd September, 2022, on the theme-Affirmative Action and Inclusion in North- East India organized by Department of Education, Rajiv Gandhi University ,Arunachal Pradesh in collaboration with ICSSR- NERC, Shillong.
 - Presented jointly a paper titled-" Educational problems in North East India with reference to Governance and Leadership in Meghalaya" on

- 22nd September, 2022 at the Two Days National Seminar on Education held from the 22nd & 23rd September, 2022, on the theme-Affirmative Action and Inclusion in North-East India organized by Department of Education, Rajiv Gandhi University, Arunachal Pradesh in collaboration with ICSSR-NERC, Shillong.
- iv. Presented jointly a paper titled-" Academic stress and coping strategies among secondary school students of Shillong during Covid 19 pandemic " on 9th November, 2022 at the Three Days International Seminar cum AIAER Annual Conference on Education held from the 9th 11th November, 2022, on the theme-Reconstruction of Education for Sustainable Tomorrow, organized by Department of Education, Rajiv Gandhi University, Arunachal Pradesh in collaboration.
- Presented jointly a paper titled-"Problems of Online learning faced by the Post Graduate students of North- Eastern Hill University, Shillong during Covid 19 Pandemic. Academic stress and coping strategies among secondary school students of Shillong" on 10th November, 2022 at the Three Days International Seminar cum AIAER Annual Conference on Education held from the 9th-11th November, 2022, on the theme-Reconstruction of Education for Sustainable Tomorrow organized by Department of Education, Rajiv Gandhi University ,Arunachal Pradesh in collaboration

Dr. R. Rymbai

- 1. Conducted the online Short-term Course on Restructuring of Indian Education System through NEP 2020 during 30/08/2022 to 05/09/2022.
- Acted as Resource Person in Manodarpan, Paricharcha on Catch 'em Young: Importance of starting early for Mental Health Promotion on 14th October, 2022, on a topic entitled, "Preparing Teachers to Work for Mental Health Promotion" organised NCERT, NERIE, Nongsder, Meghalaya.
- 3. Presented paper on "Leadership Competencies of Elementary School Teachers in East Khasi Hills District of Meghalaya" in a 7th Doctoral Research

- International Conference on Social Sciences, Humanities and Interdisciplinary Research, jointly organized by the Internal Quality Assurance Cell (IQAC), NEHU, Shillong; Indian Society for Training and Development (ISTD), Shillong Chapter, Shillong; in collaboration with Department of Philosphy and IQAC, Moran College, Moranhat, Assam; Department of Philosphy and SVU Computer Centre, Sri Venkateshwara University, Tirupati, Andhra Pradesh on 28th July, 2022.
- 4. Presented paper on "Significance of Service Learning: A Review" in a Two-Day National Seminar cum Annual Conference of the North East India Education Society (NEIES) organized by the Department of Education, NEHU, Shillong in collaboration with the North East India Education Society (NEIES) on the theme Implementation of NEP 2020 with special reference to North East India and the way forward held on 20th and 21st October, 2022.
- 5. Presented paper on "Blended Learning: An Attention in NEP 2020" in a Two-Day National Seminar cum Annual Conference of the North East India Education Society (NEIES) organized by the Department of Education, NEHU, Shillong in collaboration with the North East India Education Society (NEIES) on the theme Implementation of NEP 2020 with special reference to North East India and the way forward held on 20th and 21st, October, 2022.
- 6. Presented paper on "NEP 2020and Professional Development of Teachers" in a Two-Day National Seminar cum Annual Conference of the North East India Education Society (NEIES) organized by the Department of Education, NEHU, Shillong in collaboration with the North East India Education Society (NEIES) on the theme Implementation of NEP 2020 with special reference to North East India and the way forward held on 20thand 21st October, 2022.
- 7. Presented paper on "Continuous Professional Development in National Education Policy 2020: A Critical Analysis" in a Two-Day National Seminar cum Annual Conference of the North East India Education Society (NEIES) organized by the Department of Education, NEHU, Shillong in collaboration with the North East India

- Education Society (NEIES) on the theme Implementation of NEP 2020 with special reference to North East India and the way forward held on 20th and 21st October, 2022.
- 8. Presented paper on "Total Quality Management in Higher Education: An Analysis" in theThree-Day International Seminar cum AIAER Annual Conference of the North East India Education Society (NEIES) organized by the Department of Education, Rajiv Gandhi University, Arunachal Pradesh, India, on Reconstruction of Education for Sustainable Tomorrow, held on9th -11th November, 2022.
- Presented paper on "Creative Teaching: Personal Qualities of a Creative Teacher" in the Three-Day International Seminar cum AIAER Annual Conference of the North East India Education Society (NEIES) organized by the Department of Education, Rajiv Gandhi University, Arunachal Pradesh, India, on Reconstruction of Education for Sustainable Tomorrow, held on9th -11th November, 2022.
- 10. Presented paper on "Blended Learning: A Momentous Approach towards Education in the 21st Century" in the Three-Day International Seminar cum AIAER Annual Conference of the North East India Education Society (NEIES) organized by the Department of Education, Rajiv Gandhi University, Arunachal Pradesh, India, on Reconstruction of Education for Sustainable Tomorrow, held on 9th -11th November, 2022.

Dr. Vandana

- 1. Presented a paper on 'Structural Reforms in School Education-Challenges in Implementation of NEP 2020' in the national seminar organized by NEIES on 20-21 October 2022.
- 2. Presented a paper on 'Innovative methods of Teaching Mathematics at School level-An India Perspective' in the national seminar organized by NEIES on 20-21 October 2022.

Dr. Euodia B. Myrthong

 Coordinator: One Day National Webinar on NEP 2020- Need for Equity and Inclusion in Higher Education Institutions in India. Organized by UGC-HRDC, NEHU Shillong on 15th March, 2023. Myrthong, E.B. (2022). Teacher Education Institutions for Inclusive Education in Meghalaya

 An Analysis. In Two- Day National Conference on Implementation of NEP 2020 with reference to North-East India: Issues and the Way Forward, 20th and 21st October, Department of Education North-Eastern Hill University Shillong.

Dr. NaragintiAmareswaran

- 1. Presented a paper on Information Communication Technology Infrastructure in North-Eastern Hill University in the 6th International Conference on Information and Communication Technology (ICT) in Education jointly organized by the Internal Quality Assurance Cell (IQAC), North-Eastern Hill University (NEHU), Shillong, Meghalaya, India, andthe Indian Society for Training and Development (ISTD), Shillong Chapter, Meghalaya, India in collaboration with the Department of Philosophy, and IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India, and the Department of Philosophy, Sri Venkateswara University (SVU), Tirupati, Andhra Pradesh, India on 29th April 2022.
- 2. Presented a paper on Attitude on Practice of Information and Communication Technology (ICT) in Teacher Education Programme in Manipur in the 5th Doctoral Research International Conference on Social Sciences, Humanities, and Interdisciplinary Research jointly organized by the Internal Quality Assurance Cell (IQAC), North-Eastern Hill University (NEHU), Shillong, Meghalaya, India, andthe Indian Society for Training and Development (ISTD), Shillong Chapter, Shillong in collaboration with the Department of Philosophy, and IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India, and the Department of Philosophy, and SVU Computer Centre, Sri Venkateswara University, Tirupati, Andhra Pradesh, Indiaon20th May 2022.
- 3. Presented a paper on Environmental Education for Sustainable Development: Role of Information and Communication Technologyin the 8thInternational Conference on Cultural Quotient, Intercultural Competence and Multicultural Education Bridging Divides and

- Knowledge Gaps in an Organization jointly organized by the Internal Quality Assurance Cell (IQAC), North-Eastern Hill University (NEHU), Shillong, Meghalaya, India, andthe Indian Society for Training and Development (ISTD), Shillong Chapter, Meghalaya, India in collaboration with the Department of Philosophy, and IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India, and the Department of Philosophy, Sri Venkateswara University (SVU), Tirupati, Andhra Pradesh, Indiaon5th June 2022.
- 4. Presented a paper on SPSS in Educational Research: Innovative Approaches in the 7th Doctoral Research International Conference on Social Sciences. Humanities. Interdisciplinary Research jointly organized by the Internal Quality Assurance Cell (IQAC), North-Eastern Hill University (NEHU), Shillong, Meghalaya, India, andthe Indian Society for Training and Development (ISTD), Shillong Chapter, Shillong in collaboration with the Department of Philosophy, and IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India, and the Department of Philosophy, Sri Venkateswara University, Tirupati, Andhra Pradesh, Indiaon28th July 2022.
- 5. Presented a paper on Attitude of Pre-Service towards Information **Teachers** Communication Technology in the 8th Doctoral Research International Conference on Social Sciences, Humanities, and Interdisciplinary Research jointly organized by the Internal Quality Assurance Cell (IQAC), North-Eastern Hill University (NEHU), Shillong, Meghalaya, India, andthe Indian Society for Training and Development (ISTD), Shillong Chapter, Shillong in collaboration with the Department of Philosophy, IQAC, Moran College, and Moranhat, Charaideo Dist., Assam, India, and the Philosophy, Sri Venkateswara Department of University, Tirupati, Andhra Pradesh, Indiaon29th August 2022.
- 6. Presented a paper on *Professional Development* of Science Teachers in Higher Education: Global Perspective in the 11th International Conference on *Professional Development of Teachers in Higher Education* jointly organized by the Internal Quality Assurance Cell (IQAC), North-

- Eastern Hill University (NEHU), Shillong, Meghalaya, India, and the Indian Society for Training and Development (ISTD), Shillong Chapter, Shillong in collaboration with the Department of Philosophy, and IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India, and the Department of Philosophy, SriVenkateswara University, Tirupati, Andhra Pradesh, Indiaon5th September 2022.
- 7. Presented a paper on Gandhian Philosophy for World's Peace and Non-violencein the 10th Doctoral Research International Conference on Social Sciences. Humanities, and Interdisciplinary Research jointly organized by the Internal Quality Assurance Cell (IQAC), North-Eastern Hill University (NEHU), Shillong, Meghalaya, India, andthe Indian Society for Training and Development (ISTD), Shillong Chapter, Shillong in collaboration with the Department of Philosophy, and IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India. and the Department Philosophy, Sri Venkateswara University, Tirupati, Andhra Pradesh, Indiaon2nd October 2022.
- 8. Presented a paper on *Post-Graduate Students' Purpose, Challenges, and Support System towards Online Learning* in the International Seminar cum AIAER Annual Conference on *Reconstruction of Education for Sustainable Tomorrow*, organized by the Department of Education, Rajiv Gandhi University, Arunachal Pradesh, India, held during 9th -11th November 2022.
- 9. Presented a paper on Elements of Child Development in the 13th International Conference on Role of Education in Child Development: Approaches, Issues and Challengesjointly organized by the Internal Quality Assurance Cell (IQAC), North-Eastern Hill University (NEHU), Shillong, Meghalaya, India, andthe Indian Society for Training and Development (ISTD), Shillong Chapter, Shillong in collaboration with the Department of Philosophy, and IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India. and the Department of Philosophy, Sri Venkateswara University,

- Tirupati, Andhra Pradesh, Indiaon14th November 2022.
- 10. Presented a paper on Research Designin the 12th Doctoral Research International Conference on Sciences. Humanities. Social and Interdisciplinary Researchjointly organized by the Internal Quality Assurance Cell (IQAC), North-Eastern Hill University (NEHU), Shillong, Meghalaya, India, andthe Indian Society for Training and Development (ISTD), Shillong Chapter, Shillong in collaboration with the Department of Philosophy, and IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India, and the Department Philosophy, Sri Venkateswara University, Tirupati, Andhra Pradesh, Indiaon13th December 2022.

Honours/Awards/Recognition/Membership/ Fellowship

Prof. B. B. Kharbirymbai

- 1. Received the National Award for Teacher Educator-2022, awarded on the 14th of October,2022 by Council of Teacher Education Foundation (CTEF) India, South zone (Professional National Organization of Teacher Education), Thiruvananthapuram, Kerela.
- 2. 1 .Commonwealth Council for Educational Administration and
- 3. Management (CCEAM) Waterloo, Ontario, Canada.(Life member)
- 4. Life member of Council for Educational Administration and Management(CEAM)India North East India Educational Society.(Life member)
- 5. Association of Indian University, New Delhi.(Member)All India Association of Educational Research, Bhubaneswar.(Life Membership)
- 6. National University of Educational Planning and Management (NUEPA).
- 7. Indian academy of social sciences, Allahabad(Life fellowship)
- 8. Indian Association of Gerontology, Banaras(Life membership)
- 9. All India Association of Educational Research, Bhubaneswar.
- 10. Review member Indian Journal of Educational technology(IJET),ISSN:2581-8325,Vol: 4,issue 2, UGC CARE, Central institute of Educational technology, NCERT, New Delhi.

- 11. Head, Department of Education, NEHU Shillong
- 12. Vice President-Council of Educational Administration and Management (CEAM)India (a National Professional organization to strengthen educational organization and management)
- 13. Member of School Board, IGNOU, New Delhi
- 14. Coordinator of Career Guidance and Placement Cell-NEHU, Shillong.
- 15. Member of School Board, School of Humanities and Education, Nagaland University, Kohima, Nagaland
- 16. Member of School Board, School of Humanities and Education, Mizoram University,
- 17. Member of School Board, School of Education, NEHU, Shillong.
- 18. Member of Board of Studies, Department of Commerce, NEHU, Shillong
- 19. Member of Board of Studies, William Carrey University, Shillong.
- 20. Editorial Board member of NEIES Journal
- 21. Managing Editor of Red Flower publications. Editorial Board of 'RFP Journal
- 22. Editorial Board member of Tetso Journal of Educational Research Faculty Profile

Prof. I. Syiem

- Member of Interviews: An Interdisciplinary Journal in Social Sciences. Peer reviewed international journal of St. Claret College, ZiroIndia ISSN: 2349-400X
- 2. Member & Treasurer of North-East India Educational Society (NEIES).Peer reviewed Journal of Dept of Education, NEHU Shillong .ISSN:
- 3. Member of All India Association of Educational Research, Bhubaneswar.
- 4. Member of Indian academy of social sciences, Allahabad (Life fellowship)

Dr. Naraginti Amareswaran

- 1. Life Member of TTD Saptagiri, Tirupati, AndhraPradesh, India.
- 2. Life Member of North East India Education Society (NEISE), Shillong, Meghalaya, India.
- 3. Life Member of All India Association for Educational Research (AISER), Bhubaneswar,Odissa.
- 4. Life Member of Council For Teacher Education Foundation (CTEF), Meghalaya Chapter, Shillong.
- 5. Life Member of Commonwealth Council for Educational Administration and Management

- (CCEAM) Waterloo, Ontario, Canada.
- 6. Life Member of Council for Educational Administration and Management (CEAM), Thiruvananthapuram, Kerala, India.
- 7. Life Member of Indian Society for Training and Development (ISTD), New Delhi, India.

Dr. A. K. Erigala

- 1. Coordinator for One day *National webinar on NEP 2020: Multidisciplinary and Holistic Education.* Organised by UGC-HRDC, NEHU Shillong. On 14.03.2023
- 2. Presented a paper on Challenges in addressing digital divide in education with reference to NEP 2020,in anICSSR Sponsored Nation Seminar on National Education Policy 2020: Challenges and Opportunities in Higher Education organised by Dept of Education, Dimoria College, Kamrup Metro, on 19-11-2022
- 3. Member, State Evaluation committee, VidyaAmritMahostav (VAM), Meghalaya (2022-23).
- 4. Member, Psychologist, State Monitoring Committee, Govt. of Meghalaya, from 2022-24.
- 5. Life Member in NEIES form 2012.
- 6. Life Member, Indian Society For Training & Development from March 2021
- 7. Governing body member, St.Francis D Assissi College, Nongstian, Meghalaya
- 8. Reviewer for International Journal of Educational Sciences. ISSN: 0975-1122, Web of Science
- 9. Reviewer for Indian Journal of Educational Technology. ISSN: 2581-8325, CARE.

Other Activities

Prof. B.B Kharbirymbai

- 1. Resource person on the topic "Sampling Design" at the Faculty induction programme on the 5th of September,2022 organized by UGC-HRDC-.NEHU,Shillong.
- 2. Resource person on the topic "Learning Theories" at the Faculty induction programme on the 5th September, 2022 organized by Mizoram University, Mizoram.
- 3. Resource person on the topic "Development of Higher Education in Meghalaya" at the Faculty induction programme on the 9th September, 2022 organized by UGC-HRDC Burdwan University, Burdwan.
- 4. Resource person on the topic "Empowering women through ICT" at the Faculty induction programme on the 13th of September,2022 organized by UGC-HRDC-NEHU, Shillong.

- 5. Resource person on the topic-NEP-2020 and its challenges at the NEP- 2020 Conclave and District 3240 literacy seminar organized by Rotary Club Shillong Heritage on the 17th September 2022, in Shillong.
- 6. Resource person on the topic-"Future of Teacher Education Programme" at the International Conference on the theme-"Futuristic Trends in Education, Research& Development in Global Scenario" (27th& 28th April,2023) organized by Faculty of Education, Swami Vivekanand Subharti University, Meerut (UP) in collaboration with IQAC,SVSU & CEAM, India
- 7. Resource person on the topic "Learning theories (Part-1 and part-2)" at the Faculty induction programme on the 22nd February,2023 organized by UGC-HRDC Jadavpur University,Jadavpur.
- 8. Resource person on the topic "NEP-2020 in Higher Education (Part-1 and Part-2)" at the Faculty induction programme on the 24th November,2022 organized by UGC-HRDC Jadavpur University, Jadavpur.
- 9. Resource person on the topic "NEP-2020 and its Challenges (Part-1 and Part-2)" at the Faculty induction programme on the 22nd February,2023 organized by UGC-HRDC Jadavpur University, Jadavpur
- 10. Resource person on the topic "Learning Theories-Behaviourism, Cognitivism and Constructivism" at the 9thFaculty induction programme on the 7th of June, 2022 organized by UGC-HRDC NEHU Shillong.

Prof. S. M Sungoh

- 1. Lectures on "NEP 2020 implementation in Higher Educational Institutions" and "Problems and Challenges in the implementation of NEP 2020 in Higher Educational Institutions" for the 9th Faculty Induction Programme on 9th June and 23rd June 2022 respectively, at HRDC, NEHU, Shillong.
- 2. Lecture on "Administrative Skills" in a short-term course for Academic Administrator on 2nsd June, 2022 at HRDC, NEHU, Shillong
- 3. Lecture on "Academic Leadership in Higher Education Institutions in India" in a One-day National Webinar on 23rd September, 2022 at HRDC, NEHU, Shillong.
- 4. Lecture on "NEP 2020: Global Outreach of Higher Education -Indian Perspective" in a One Day National Webinar on 3rd November, 2022, at HRDC, NEHU, Shillong.

- 5. Lecture on "Implementation of NEP 2020 in6. Colleges" on 6th March, 2023 at St Anthony's College Shillong.
- Lecture on "NEP 2020: Multidisciplinary and Holistic Education" in a One Day National Webinar on 14th March, 2023, at HRDC, NEHU, Shillong.
- 7. Lecture on "Reforms in Colleges and Universities" in a National webinar organized by Principal's Council on March 15th 2023 at Shillong College Shillong.
- 8. Lecture on "Teaching and Learning Pedagogy" in the 12th Faculty Induction Programme on 16th March, 2023, at HRDC, NEHU, Shillong.
- 9. Lecture on "StressManagement" in the 12th Faculty Induction Programme on 16th March, 2023, at HRDC, NEHU, Shillong.
- 10. Speech on "The Role and Functions of Internal Complaint's Committee" at an International Women's Day Celebration on 10th March, 2023, at NEHU, Shillong.

Prof. I. Syiem

- 1. Acted as Resource Person in the Refresher Course on Linguistics on the topic "NEP 2020 and Multilingualism, on 31st may, 2022 organised by UGC- HRDC NehuShillongwef 25th May-7th June 2022 on the theme "Promotion, preservation and Documentation of Indian Languages"
- 2. Acted as Resource Person in the 9th Faculty Induction programme on the topic "Sustainable Development Goals in Higher Education "on 20th June, 2022 organised by UGC- HRDC NEHU Shillong wef 30th-28th June, 2022
- 3. Acted as Resource Person in the 10th Faculty Induction programme on the topic "Sustainable Development Goals in Higher Education" on 19th July, 2022 organised by UGC-HRDC NEHU, Shillong wef 29th June-28th July, 2022
- 4. Acted as Resource Person in the 11th Faculty Induction programme on the topic "Sustainable Development Goals in Higher Education (Activity based) " on 7th February, 2023 organised by UGC- HRDC NEHU Shillong wef 10th January-8th February 2023
- 5. Acted as Resource Person in the One Day National Webinar on New Education Policy 2020 on the topic "Focussing on Diversity, Equity and Inclusion- A Priority "on 15th March, 2023 organised by UGC- HRDC NEHU Shillong on 15th March, 2023 on the theme Need for Equity and Inclusion in Higher Education Institutions in India

Acted as Resource Person in the Two Days National Seminar on the topic "Standard Setting and Accreditation for School Education " on 17th November 2022 organised by Synod College on the theme NEP 2020: The Way forward on 17th& 18th November 2022.

Chaired Technical session IV in the Two Days National Seminar on 18th November 2022 organised by Synod College on the theme NEP 2020: The Way forward on 17th & 18th November 2022.

Dr. Euodia B. Myrthong

- 1. Lecturer delivered: Mental Health for Teachers of Higher Education Institutions,
- 2. Programme: 10th Faculty Induction Programme, Place: UGC-HRDC, NEHU, Shillong Date: 27th July, 2022
- 3. Lecturer delivered: Mental Health for Teachers of Higher Education Institutions,
- 4. Programme: 11th Faculty Induction Programme, Place: UGC-HRDC, NEHU, Shillong Date: 2nd February, 2023
- 5. Lecturer delivered: Mental Health for Teachers of Higher Education Institutions,
- 6. Programme: 12th Faculty Induction Programme, Place: UGC-HRDC, NEHU, Shillong Date: 29th March, 2023

Prof. A. K. Erigala

- 1. Lectures delivered on Using Action Research for Better student learning, 10th Faculty Induction Program, organized by UGCHRDC, NEHU, Shillong.:2022-07-01
- 2. Lectures delivered on Action Research for Better Learning, 11th Faculty Induction Program, organized by UGCHRDC, NEHU, Shillong. 2023-01-10.
- 3. Lectures delivered on STC on Restructuring of Indian Education System through NEP 2020, organized by UGC-HRDC, NEHU. :2022-09-21
- 4. Lectures delivered on Computing Descriptive Statistics. Short-term Course in Statistical Analysis, HRDC, NEHU. 2022-09-23.
- 5. Lectures delivered on 1Short-term Course in Research methodology, HRDC, NEHU. 2022-09-

Dr. Naraginti Amareswaran

1. Delivered a lecture with hands-on activities on "Qualitative Research Methods: An Overview" in the 21st International Workshop on "Qualitative Research Methods: An Overview"

- jointly organized by the IQAC, NEHU, and the Indian Society for Training and Development (ISTD), Shillong Chapter, Shillong, Meghalaya, India in collaboration with the Department of Philosophy, and the IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India, and the Department of Philosophy, Sri Venkateswara University (SVU), Tirupati, Andhra Pradesh, Indiaon 1st April 2022.
- 2. Delivered a lecture with hands-on activities on "Phenomenology - Qualitative Research Method" in the 22nd International Workshop "Phenomenology - Qualitative Research Method" jointly organized by the IQAC, NEHU, Shillong, Meghalaya, India, and the Indian Society for Training and Development (ISTD), Shillong Chapter, Shillong, Meghalaya, India collaboration with the Department of Philosophy, and the IQAC, Moran College, Moranhat, Charaide Dist., Assam, India, and the Department of Philosophy, Sri Venkateswara University (SVU), Tirupati, Andhra Pradesh, India on 8th April 2022.
- 3. Delivered a lecture with hands-on activities on "Types of Interviews Qualitative Research Method" in the 23rd International Workshop on "TYPES OF INTERVIEWS QUALITATIVE RESEARCH METHOD" jointly organized by the IQAC, NEHU, Shillong, Meghalaya, India, and the Indian Society for Training and Development (ISTD), Shillong Chapter, Shillong, Meghalaya, India in collaboration with the Department of Philosophy, and the IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India, and the Department of Philosophy, Sri Venkateswara University (SVU), Tirupati, Andhra Pradesh, Indiaon 15th April 2022.
- Delivered a lecture with hands-on activities on "Grounded Theory - Qualitative Research Method" in the 24th International Workshop on "Grounded Theory - Qualitative Research Method" jointly organized by the Internal Quality Assurance Cell (IQAC), North-Eastern Hill University (NEHU), Shillong, Meghalaya, India, and the Indian Society for Training and Development (ISTD), Shillong Chapter, Shillong, Meghalaya, India in collaboration with the Department of Philosophy, and the IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India, and the Department of Philosophy, Sri Venkateswara University (SVU), Tirupati, Andhra Pradesh, Indiaon 22nd April 2022.
- 5. Delivered a lecture with hands-on activities on "Ethnography Qualitative Research Method" in the 25th International Workshop on

- "ETHNOGRAPHY QUALITATIVE RESEARCH METHOD" jointly organized by the IQAC, NEHU, Shillong, Meghalaya, India, and the Indian Society for Training and Development (ISTD), Shillong Chapter, Shillong, Meghalaya, India in collaboration with the Department of Philosophy, and the IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India, and the Department of Philosophy, Sri Venkateswara University (SVU), Tirupati, Andhra Pradesh, Indiaon 29th April 2022.
- 6. Delivered a lecture with hands-on activities on "Case Study - Qualitative Research Method" in the 26th International Workshop on "Case Study - Qualitative Research Method" jointly organized by the Internal Quality Assurance Cell (IQAC), North-Eastern Hill University (NEHU), Shillong, Meghalaya, India, and the Indian Society for Training and Development (ISTD), Shillong Shillong, Meghalaya, India collaboration with the Department of Philosophy, and the IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India, and Department of Philosophy, Sri Venkateswara University (SVU), Tirupati, Andhra Pradesh, Indiaon 6th May 2022.
- 7. Delivered a lecture with hands-on activities on "Observation Research and Types Observations - Qualitative Research Method" in the 27th International Workshop on "Observation Research and Types of Observations - Qualitative Research Method" jointly organized by the Internal Quality Assurance Cell (IQAC), North-Eastern Hill University (NEHU), Shillong, Meghalaya, India, and the Indian Society for Training and Development (ISTD), Shillong Shillong, Meghalaya, collaboration with the Department of Philosophy, and the IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India, and Department of Philosophy, Sri Venkateswara University (SVU), Tirupati, Andhra Pradesh, Indiaon13th May 2022.
- 8. Delivered a lecture with hands-on activities on "Narrative Qualitative Research Method" in the 28th International Workshop on "Narrative Qualitative Research Method" jointly organized by the Internal Quality Assurance Cell (IQAC), North-Eastern Hill University (NEHU), Shillong, Meghalaya, India, and the Indian Society for Training and Development (ISTD), Shillong Chapter, Shillong, Meghalaya, India in collaboration with the Department of Philosophy, and the IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India, and the

- Department of Philosophy, Sri Venkateswara University (SVU), Tirupati, Andhra Pradesh, Indiaon 20th May 2022.
- 9. Delivered two lectures on (i) LMS and CMS for delivering e-learning applications, and (ii) Addressing Problems of Students in the 7th FDP
- organized by the UGC-HRDC, Pondicherry University, Puducherry, on 3rd June 2022.
- 10. Delivered a lecture on Decision Making Skills organized by the NIRDPR-NERC, Guwahati, on 14th June 2022.

SUMMARY SHEET FOR THE ACADEMIC YEAR $1^{\rm ST}$ APRIL 2022 TO $31^{\rm ST}$ MARCH 2023

Details	1	Name		Prof B.	Prof S.	Prof I.	Dr.	Dr.	Dr.	Dr.	Dr.
of Faculties	1	Name		B. Kharbiry mbai	M. Sungoh	Syiem	Rihunlan g Rymbai	Ashok Kumar Erigala	Vandan a	Euodia B. Myrtho	Naragi nti Amares waran
	2	Date of Joining		13.07.20 06	19.12.19 96	15.12.2 005	12.06.201	29.6.20 12	02.07.2 012	11.04.2 013	25.04.2 013
	3	Field of specialisati on		Higher Educatio n, ICT in Educatio n, Research Methodo logy	Teacher Educatio n, Higher Educatio n, Psycholo gy	Educati onal Psychol ogy, Enviro nmenta 1 Educati on,	Teacher Education Research Methodol ogy	Educati on Psychol ogy	Sociolo gy of Educati on, Mental Health,	Mental Health Educati on, Educati onal Psycho logy	Philoso phy of Educati on and Researc h Method ology
(A)	4	UG			06	7.5yrs	7.2	NA			
Teaching Experien ce (in Years)	5	PG, including PhD		17 yrs	28	17.5 yrs	10.9	11 years	11 Years	10 years	11 years 3 months
	6	Basic Research		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	7	Applied Research		-	-	-	Yes	YES	Yes		
	8	Action Research		-	-	-	No	YES	-	-	-
	9	Project Submitted		-	-	-	1	NO	-	-	-
	10	Ongoing Project		-	-	-	-	NO	1		
	11	Research	Group I	3			6	3	1	1	
(B) Research activities	12	Paper in UGC care list journals	Group II			1	-	2	3	1	7
	13	Books	Books				-	NO	2		1
	14	/Books chapters Published	Book Chapters	6		1	-	1		1	
	15	Popular Articles		-	-		-	NO			
	16		National	-	-	1	1	1		1	1

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	17	Seminar /	Internation	-	-		-	NO			141
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		organized									
	18	Seminar /	National	-	-	5	10	1		1	1
		Conferenc									
	19	e/	Internation	-	-		1	NO	2		145
		Symposia	al								
		attended									
	20	Conferenc		7			-	NO	_	_	-
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		Proceeding									
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	21	Consultanc		-	-	-		NO	-	-	-
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	22	Applied		 -	-	-	No	NO	-	_	_
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	23	Published		-	-	-	No	NO	-	-	-
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(C)	24	Granted		-	-	-	No	NO	-	-	-
Patent											
(D)	25	MOOC/S			-	-	No	NO	_		Yes
(D)	23	WAYAM/		-	_	-	INO	NO	-		1 68
E-		E-content									
Content		developed									
	26	Teaching		-	-	-	Yes	YES-5	-	Yes	Yes
		/Extension									
	27	Responsibi		-	-	-	Yes	NO	_	Yes	Yes
	21	lities other		-	-	-	1 68	NO	-	1 68	1 68
		than									
		teaching									
(E)					<u> </u>	<u> </u>	<u> </u>				
	28	Awards/		1			Yes	NO		Yes	
Any		Honours/									
Other		Recognitio									
		n/									
		Membershi									
		p/ Fellowship									
		Fellowship									
	29	Collaborati	National	-	-	-	No	NO	-	-	1
		ons									
	30		Internation	-	-	-	No	NO	-	-	
			al								
				L						1	

DEPARTMENT OF EDUCATION (TURA CAMPUS)

Head: Prof. S. C. Subudhi **Telephone:** +91

9436703629/7005927638

E-mail:

sibasubudhi.nehu@rediffmail.com; sibasubudhi.nehu25@gmail.com

Faculty Profile

Designation	Name and 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. NikmeS.C.Momin, MA & Ph.D. NEHU.	Educational Psychology, Early Childhood Care and Education, Environmental Education

Thrust Areas 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.

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. Department has well-established The a Psychological Laboratory with adequate number of psychological tests and equipments where students conduct tests and experiment as a part of their course work.

Brief Statement of Academic Activities and Achievements

Students' Profile

- > Enrolment Capacity: M. A.: 30, Ph.D.: Variable
- > Enrolment of students from different States of India and Abroad (M. A.)

	Gen		ST		SC		OBC		EWS		TOTA	L
STATES	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	1	-	7	22	-	-	-	-	-	-	8	22
Sub Total	1	-	7	22	-	-	-	-	-	-	8	22
Total	1		29		-		-		-		30	

Degrees Awarded

> M. A.: 30, Ph.D.: 02

Degrees Awarded to students from different States of India and Abroad (M. A.)

	Gen		ST		SC		OBC		EWS		TOTA	L
STATES	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	-	-	-	-	1	-	-	-	-	-	01
Meghalaya	-	-	6	23	-	-		-	-	-	6	23
Total	-		29		1		_		-		30	

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Ger	n	ST		SC		OBC		EWS		PWD		TOTA	\ L
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	_	-	-	1	-	_	-	-	-	-	-	-	-	1
Meghalaya	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Total	0		2		0		0		0		0		2	

Name of	Title of Thesis	Name(s) of Supervisor(s)
Student		/ Joint Supervisor
Ms.	"Implementation Strategies of Inclusive	Prof. S. C. Subudhi
Kyntiewhunlang	Education for differently Abled Children in	
Lyngkhoi	West Khasi Hills District Meghalaya".	
Ms. Rangana	"Goal Orientation, Educational Aspiration,	Prof. Nikme S.C. Momin
Koch	and Parent-Child Relationship amongst the	
	Secondary School Students belonging to	
	Koch Community of Garo Hills,	
	Meghalaya."	

Placement of Students

Name of the Student(s)	Organization	Place of Work
Dr Kasaatchi K Marak	Baghmara College	Baghmara, Meghalaya
Dr Tengchira T Sangma	Williamnagar College	Meghalaya
Dr. Ms. Kyntiewhunlang Lyngkhoi	Nongstoin College	Meghalaya
Dr. Rangana Koch	Katuligri Deficit School, Ampati	South-West Garo Hills, Meghalaya
Dr. Tengchira T Sangma	Williamnagar College	Meghalaya
Barul J Sangma	Ampati Govt. Higher Secondary School	South-West Garo Hills, Meghalaya
Daniel Debbharma	Government College,	Tripura

Research Fellowship

CSIR-UGC- NET	UGC Non-Net	Rajiv Gandhi	ICPR Fellowship	Meritorious Maulana Azad Minority Fellowship	JRF	Other
-	07	-	-	_	_	-

Field Work/Educational Tour of Students

Charge: Prof. S.C.Subudhi, HOD, Department of

Education, NEHU, Tura Campus, Tura.

Places/Institution Visited: Gangtok (Sikkim)

and Darjeeling

Duration of Tour: 09 days

Purpose of Tour: The Study Tour of the Department had in its objective to learn about the overall activities concerning the Educational as well as the Cultural, Economical, Sociological, Environmental and the Scientific Advancement of the people from the places of West Bengal in general. To visit Educational Institutes and Universities, Museum, Places of Historical, Economical, Aesthetical, Cultural and Political as well as literary importance and to observe and learn about the socio-economic cultural heritage and progression of the country in relation to Education, Modernization and Advancement.

Courses Conducted

> Postgraduate –M.A. (Education)

Semester I: Philosophical Foundations of Education, Advanced Educational Psychology, Early Childhood, Care and Education, Inclusive Education, Curriculum Development and Instruction, Elementary Statistics in Education.

Semester II: Educational Management and Change, Sociology of Education, Open Learning and Distance Education, Research Methodology and Proposal Writing, Information and Communication Technology (ICT) in Education.

Semester III: Information & Communication Technology (ICT) in Education, Comparative Educations, Early Childhood Education, Inclusive Education, Teacher Education-1, Education in Political Perspective

Semester IV: Laboratory Practical, Higher Education in India, Guidance and Counselling, Inclusive Education-I, Teacher Education-II, Economics of Education

> Ph.D. Courses

Research Methodology, Statistic Analysis and Computer Application, Higher Education, Research and Publication Ethic.

Publications

> Research papers (06)

- 1. Subudhi, S.C. (Sept. 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).
- 2. Subudhi, S.C. (Oct, 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).
- Subudhi.S, C. &Sangma JDK (Nov., 2022). 'Professional awareness among secondary school teachers in North Garo Hills district of Meghalaya'. International Journal of Creative Research Thoughts (IJCRT), Vol-10, Issue-11/11/2022. ISSN- 2320-2882, Pp- 176-180, Impact factor-7.97, UGC approved no-49023(18).
- 4. Subudhi.S, C. &Sangma JDK (Dec., 2022). 'A study on SES among secondary school teachers North Garo Hills district of Meghalaya'. International Journal of Creative Research Thoughts (IJCRT), Vol-10, Issue-12/12/2022. ISSN- 2320-2882, Pp- 116-122, Impact factor-7.97, UGC approved no-49023(18).
- 5. Momin, N., Marak, J. (2022). Designing Checklist for Teachers' Teaching Strategies of Secondary School.International Journal of Creative Research Thoughts, Vol.10.Issue 12. ISSN: 2320-2882
- Momin, N., Marak, J. (2022). Teaching Strategies for Social Science and Classroom Management of 21stcentury: A Case of Government Secondary Schools of Meghalaya, Vol 13, Issue 12. ISSN: 0976-3031

Policy Reports

- 1. National: Position Papers for the State Curriculum Framework (SCF, January to May, 2022) under the Directorate of Educational Research and Training, Government of Meghalaya.
- 2. **State:** *Meghalaya Early Childhood Development Mission (MECDM)* Master Trainer, Resource Person, Consultant and Content Developer in *Learn, Play, Grow Phase 2.* The Nodal Agency under Social Welfare Department, Government of Meghalaya for the Implementation of ECE Mission, Shillong, Meghalaya.

IPR Items

> 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)
Perception of Elementary School Teachers and Students towards physical punishments in West Garo Hills District of Meghalaya.	Ongoing	Prof. S.C.Subudhi	Single (2021-2023)	Government of Meghalaya	2.50
"A Study on the Extent and Causes of School Dropouts in Primary Schools of West Garo Hills, Meghalaya' Government of Meghalaya (INR 2.00L)	Ongoing	Prof. Nikme S C Momin	Single (2021-2023)	Government of Meghalaya	NIL

Seminar/Conference/Symposium/Extension Programme etc.

Prof. S.C.Subudhi

- 1. A Paper presented in two days National seminar on NEP 2020: Bridging the gaps in accessibility, equality and quality learning outcomes in school education on 23rd September, 2022. Sponsored by ICSSR and organized by PHQ, school of Education, USTM, Meghalaya on NEP 2020 its challenges to implement in higher education.
- 2. A Paper presented in National Seminar on "Entreprenurship development: A tribal Perspective" at Dept. of Management, NEHU, Tura Campus, Tura, Meghalaya on 28-29October, 2022. Topic Entitled "Creation of Entrepreneurship in School Education in semi urban areas of Garo Hills: An Analysis", Funded BY ICSSR-NERC, Shillong & NEHU, Tura Campus, Meghalaya.
- 3. A Paper presented in National Seminar on "A Few reflection on Teacher Education" at Govt. College of Teacher Education, Kokrajhar, Assam on 4th November, 2022. Topic Entitled "Issues and challenges of teacher education in India with reference to ICT".

Prof. Nikme S.C. Momin

- 1. Presented a paper "Assessment of the Teaching Strategies for Social Science Teachers in Secondary Schools of Meghalaya" in a two-day National Seminar on NEP, 2020: Bridging Gap in Accessibility, Equity and Quality Learning Outcomes in School Education, organized by the Department of Education, University of Science and Technology, Ribhoi District, Meghalaya on the 13th and 14thMay, 2022.
- 2. Presented a paper entitled as "School Socialization Practices in the Government Secondary Schools of West Garo Hills District of Meghalaya" in a two-day National Seminar on NEP, 2020: Bridging Gap in Accessibility, Equity and Quality Learning Outcomes in School Education, organized by the Department of Education, University of Science and Technology, Ribhoi District, Meghalaya on the 13th and 14th May, 2022.
- 3. Presented a paper entitled as "Exploring Early Literacy and Numeracy Teaching in Early Childhood Care and Education (ECCE) Centers of East Garo Hills, Meghalaya" in a two-day National Seminar on NEP, 2020: Bridging Gap in Accessibility, Equity and Quality Learning Outcomes in School Education, organized by the Department of Education, University of Science and

- Technology, Ri-bhoi District, Meghalaya on the 13th and 14th May, 2022.
- 4. Presented a paper entitled 'ICT-based for Pre-School Curriculum Transaction and Evaluation in West Bengal during Covid 19' in a National Seminar on Education: Affirmation Action and Inclusion in North-East India organized by the Department of Education, Rajiv Gandhi University, Arunachal Pradesh, India in collaboration with ICSSR-NERC, Shillong on the 22nd and 23rd of September 2022.
- 5. Presented a paper entitled "Governance of Elementary Education in Tripura with special reference to Local Self Governance and State Government Administrations" in a National Seminar on Education: Affirmation Action and Inclusion in North-East India organized by the Department of Education, Rajiv Gandhi University, Arunachal Pradesh, India in collaboration with ICSSR-NERC, Shillong on the 22nd and 23rd of September, 2022
- 6. Presented a Resource Paper on "Early Childhood Education in the NEP-2020" in a Community Extension Programme entitled as "National

- Education Policy, 2020 and the National Curriculum Framework-Foundational Stage, 2022" held on the 28th of October 2022 organized by the Department of Education, NEHU, Tura in collaboration with the Vineyard School, Resubelpara, North-Garo Hills, Meghalaya
- 7. Presented a Resource Paper on "Higher Education and New Assessment System" in a Community Extension Programme entitled as "National Education Policy, 2020 and the Roles and Policy of Higher Education and Reforms of Assessment in Higher Education" held on the 1st of November 2022 organized by the Department of Education, NEHU, Tura in collaboration with the Tura Christian College, Tura -Meghalaya.
- 8. Presented a Resource Paper on "A Closer look at the Purpose of Assessment in the Indian Context" in a Community Extension Programme entitled as "National Education Policy, 2020 and the Roles and Policy of Higher Education and Reforms of Assessment in Higher Education" held on the 22nd of March 2023 organized by the Department of Education, NEHU, Tura in collaboration with the Tura Christian College, Tura -Meghalaya.

Academic Collaborations

> National

Name of the Academic Activity	Name of the Programme	Date	Organizer	Collaborating Institutions
Community Extension Programme	"National Education Policy, 2020 and the National Curriculum Framework- Foundational Stage, 2022"	28 th of October 2022	Department of Education, NEHU, Tura Campus, Tura	Vineyard School, Resubelpara, North-Garo Hills, Meghalaya
Community Extension Programme	"National Education Policy, 2020 and the Roles and Policy of Higher Education and Reforms of Assessment in Higher Education"	1 st of November 2022	Department of Education, NEHU, Tura Campus, Tura	Mendipathar College, North Garo Hills - Meghalaya
Community Extension Programme	"National Education Policy, 2020 and the Roles and Policy of Higher Education and Reforms of Assessment in Higher Education"	22 nd of March 2023	Department of Education, NEHU, Tura Campus, Tura	Tura Christian College, Tura - Meghalaya.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

Details of Faculties	Name		1	Prof. S. C. Subudhi	Prof. N. S. C. Momin
	Date of Joining		2		10.04.2002
	Field of specialisation		3	Research Methodology & Statistics in Education, Educational Testing & Measurement and Inclusive Education	Educational Psychology, Early Childhood Care and Education, Environmental Education
(A)	UG		4	Yes at IGNOU	No
Teaching Experience (in Years)	PG, including PhD		5	yes	yes
	Basic Research		6	yes	No
	Applied Research		7	yes	yes
	Action Research		8	yes	yes
	Project Submitted		9	no	No
	Ongoing Project		10	yes	Yes
	Research Paper in UGC	Group I	11	no	Yes
	care list journals	Group II	12	yes	Yes
	Books /Books chapters	Books	13	no	Yes
(D)	Published	Book Chapters	14	no	Yes
(B) Research	Popular Articles (News Paper/ Magazines)		15	yes	
activities	Seminar / Conference/	National	16	yes	Yes
	Symposia organized	International	17	no	Yes
	Seminar / Conference/	National	18	yes	Yes
	Symposia attended	International	19	no	Yes
	Conference Proceedings		20	no	Yes
	Consultancy		21	yes	Yes
	Applied		22	no	No
(C)	Published		23	no	No
Patent	Granted		24	no	No
(D) E-Content	MOOC/SWAYAM/ E- content developed		25	no	No
	Teaching /Extension /outreach activities		26	yes	yes
	Responsibilities other than teaching		27	yes	yes
(E) Any Other	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	yes	yes
	Collaborations	National	29	yes	yes
	Condociations	International	30	no	No

CENTRE FOR DISTANCE EDUCATION

Head: Prof. B. P. Sahu **Telephone:** 0364-272 2961

E-mail: hodcde@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
Professor	Dr. B.P. Sahu, MSW & Ph.D. (Kurukshetra)	Human Resource Development, PMIR Group Work in Adult Education, Disaster Management
	Dr.R. N. Rai* (M.A., Ph.D)	Psychological Testing and Social Psychology of Aging

^{*}Superannuated on 31st October, 2022

Thrust Areas of Research

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. The Centre offers Degree, Diploma and Certificate Courses through distance mode relevant to the region.

Brief Statement of Academic Activities and Achievements

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 counsellors 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 1500 distance learners are enrolled under this Study Centre.

Students' Profile

- > Enrolment Capacity: FC-SEDE 150, Ph.D: Variable
- > Enrolment of students from different States of India and Abroad (FC-SEDE)

	Gen	Gen		ST		SC		OBC		EWS		TOTAL	
STATES	M	F	M	F	M	F	M	F	M	F	M	F	
Assam	2	6	-	-	-	1	1	-	-	-	3	7	
Meghalaya	2	3	6	15	-	-	-	-	-	-	8	18	
Nagaland	-	1	-	-	-	-	-	-	-	-		1	
Tripura	-	1	2	7	-	-	-	1	-	-	2	9	
Sub Total	4	11	8	22	-	1	1	1	-	-	13	35	
Total		15		30		1		2		-		48	

> Enrolment of students from different States of India and Abroad (Ph.D.): NIL

Degrees Awarded

- > FC-SEDE.:31, Ph.D.: 1
- > Degrees Awarded to students from different States of India and Abroad (FC-SEDE)

	Gen		ST		SC		OBC	:	EWS	1	TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F
Assam	2	4			-	-	-	-	-	-	2	4
Meghalaya	1	4	1	12	-	-	-	-	-	-	2	16
Tripura	-	1	1	4	-	-	-	1	-	-	1	6
Sub Total	3	9	2	16	-	-	-	1	-	-	5	26
Total		12		18		-		1		-		31

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC		EWS	5	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Manipur	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Total	-		1	1	,	-	•	-	,	=	-		1	1

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Ms. Wetshololu Wezah	"Quality of Life of Maram Naga and Lodha Primitive Tribal Groups: A Comparative Study"	Prof. B .P. Sahu

Courses Conducted

- ➤ Postgraduate M. A. in 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.

Seminars/Conferences/Workshops/Symposia/ Extension Programmes

- 1. One day National webinar with UGC-Human Resource Development Centre NEHU on 8th August 2022 on the topic "Promotion of Indigenous Knowledge System" under National Education Policy:2020 (Organizer: Prof. B. P. Sahu).
- 2. Faculty Development Programme on "Mentoring Institutional Social Responsibility and Facilitation

- for Community Engagement" at North Eastern Hill University, Shillong from 12th to 17th September 2022 Organized under MGNCRE Project (Organizer: Prof. B. P. Sahu).
- 3. One day Workshop on "Indigenous Knowledge System in the State of Meghalaya" to finalize a tool for testing the Knowledge of teachers and students of Class IX-XII on the Indigenous Knowledge System of Meghalaya held on July 15, 2022 (Organizer: Prof. B. P. Sahu).

Publications

> Research papers (06)

- 1. Sahu, B.P. Climate Change and its impact on forestry in North East India: A Social Forestry and Ecological Perspective, Vistas de Society, USTM, Vol-2, No.1, 2017-18
- Sahu, B.P. Personal well-being of Maram and Ladha Tribes (PTGS) of Manipur and Odisha, Indian Journal of Lifelong learning And Development, Vol-8, No-2, April-June 2020
- 3. Sahu, B.P. Family well-being of Maram and Ladha Tribes (PTGS) of Manipur and Odisha, Indian Journal of Lifelong learning and development, Vol-8,No-4, October-December 2020

- 4. Sahu, B.P. Socio-Economic impact on cardiovascular factors and diseases in India, Vistas de Society. Issue 4, 2021
- 5. Sahu, B.P. Cultural well-being of Maram Naga and Lodha Tribes (PTGS) of Manipur and Odisha, Journal of Engineering, Computing and Architecture, Vol-II, Issue-II, November 2021.
- 6. Sen. Subrata and Sahu. B.P. (2022). Stress of Parents with Differently Abled Children in Kolkata District of West Bengal. *Indian Journal of Adult Education*, 83 (2):122-145

Books/Book Chapters/Proceedings

1. Agarwala, S. and Sahu, B.P. (2022). Corporate Social Responsibility and Effective Corporate Governance: A Literature Review. In Khuran, L and Acharya A. (*Ist Edition*) Proceedings of 8th Biennial International Conference on Energy and Infrastructure Management. ISBN 978-93-90951-06-2, pp 164-182. Ahmedabad: Allied Publishers Pvt. Ltd.

Funds received during current year

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

Sr. No.	Funding Agency	Amount (Rs. In Lakhs),
01	NEHU	0.50

(B) Research Projects

Title of Project	(Pl/Co-Pl)	Funding Agency	Amount(Rs)
"Skill Integrated Education through Integration of Indigenous Knowledge System, Teacher Training and ICT: Current Status and Future Directions".	Prof. B. P. Sahu (Principal Investigator)	MGNCRE (Mahatma Gandhi National Council of Rural Education)	6,95,000/-
"Life Satisfaction and Quality of Life of the Elderly Living in Old Age Homes: A Comparative Study of Western India and North East India "	Prof. B. P. Sahu (Principal Investigator)	NHRC (National Human Rights Commission)	13,82,535/-

Seminars/Conferences/Workshops/Symposia/ Extension Programmes

- 1. Delivered an expert talk as the speaker for the Extramural Lecture Series on "Personality Development through Community Engagement and Services" organized by Fakir Mohan University, Odisha on 4th February 2023
- 2. Presented a paper entitled "Best Practices of Corporate Social Responsibility for Corporate Sustainability: A Case Study of Tata Steel Ltd." In the International E-Conference on Inter Disciplinary Approaches towards Socio-Economic Inclusiveness for Sustainable Development (ICSISD-2022) organized by School of Business, Chandigharh University, Mohali (India): 3rd and 4th June 2022.
- 3. Acted as key note Speaker on "Generating Livelihood for tribal Youth of Assam through Entrepreneurship Development, Retrospect, Constraints and Strategies" on the occasion of National Seminar organized by USTM, Meghalaya on 24th and 25th June 2022.
- 4. Presented a paper "Corporate Social Responsibility and **Effective** Corporate Governance: A Literature Review" in the Conference International on Energy and *Infrastructure Management* at School of Petroleum Management, PanditDeendayal Energy University, Gandhinagar, Gujarat from 27th to 29th July 2022.
- 5. Participated in the National Workshop on Rural Management and Rural Engagement at Guwahati

- University, Guwahati organized by MGNCRE, Hyderabad from 1st- 2nd August 2022.
- 6. Participated and Presented a paper on "Life skill Education" in the National Seminar on "Necessity of Life Skill Education at Every Stage of Learning at Institute of Education" organized by Institute of Education, Haldia on 21st December, 2022.
- 7. Participated and Presented a paper on "Corporate Social Responsibility: A study of Historical and Present Evidence" on 5th January 2023 in theInternational Seminar on Professionalization of Adult Education And Lifelong Learningin Indian Universities under NewIndia Literacy Program (2022-2027) and National Education Policy 2020, at DACEE, University of Delhifrom 4th to 6th January, 2023.

Academic Collaborations

Prof. B. P. Sahu of the centre is conducting the Foundation Course on Education of Children with Disabilities(FC-SEDE) course in collaboration with Rehabilitation Council of India, New Delhi.

Other Activities Prof. B. P. Sahu

1. Delivered series of lectures at Parul Institute of Social Work, Gujarat from 12th August 2022 to 20th

- August 2022 to BSW, MSW, MSW-HRM and Ph.D Research Scholar on the topics 'Field Work Practicum in Social Work & HRM', 'Academic Writing', 'Qualitative and Quantitative Research', 'Research Methodology & Analysis' and a Webinar on "Value based Education"
- 2. Delivered a lectures at UGC-Human Resource Development Centre, NEHU on 8th August, 2022 on the topic "Promotion of Indian Knowledge Systems"
- 3. Acted as Resource Person for the Workshop entitled "Indigenous Knowledge System in Meghalaya" organized by Jaintia Eastern College, Khliehriat and delivered a lecture on Integration of IKS in School Curriculum as per NEP 2020 on 30th September 2022.
- 4. Appointed as Member, Asian Society of Disaster Management Professionals
- Acted as Resource Person for the Online Short Term Course on Community Engagement on the topics "Rural Immersion" organized by UGC-Human Resource Development Centre, Kurukshetra University, Kurukshetra on 2nd March 2023.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

Faculties 2	dult
Development, PM Group Work in Ad Education, Disaster Management	dult
Teaching Experience (in Years) 5 PG, including PhD 32 years 6 Basic Research Yes 7 Applied Research Yes 8 Action Research - 9 Project Submitted -	
Experience (in Years) 6 Basic Research Yes 7 Applied Research Yes 8 Action Research - 9 Project Submitted -	
Experience (in Years) 6 Basic Research Yes 7 Applied Research Yes 8 Action Research - 9 Project Submitted -	
7 Applied Research Yes 8 Action Research - 9 Project Submitted -	
8 Action Research - 9 Project Submitted -	
9 Project Submitted -	
,j	
10 0 1 7 1	
10 Ongoing Project Yes	
11 Research Paper in UGC care Group I yes	
12 list journals Group II -	
13 Books /Books chapters Books -	
(B) Published Book Yes	
Research Chapters	
activities 15 Popular Articles (Newspaper/ - Magazines) -	
16 Seminar / Conference/ National yes	
17 Symposia organized International	
18 Seminar / Conference/ National Yes	
19 Symposia attended (✓) International -	
20 Conference Proceedings -	
21 Consultancy -	
22 Applied -	
(C) Published -	
Patent 24 Granted -	
(D) 25 MOOC/SWAYAM/ E-content - developed	
26 Teaching /Extension /outreach Yes activities	
27 Responsibilities other than teaching	
(E) Awards/ Honours/ Yes Any Other Recognition/ Membership/ Fellowship	
29 Collaborations National Yes	
30 International -	

III. SCHOOL OF HUMANITIES

Dref Vendelnehek	Dean:	DEPARTMENTS UNDER THE SCHOOL
E-mail: vanlalnghak@yahoo.co.uk Telephone: +91-364-272 3501; 0364-2551722 Department of English (Shillong Campus) Department of English (Tura Campus) Department of Garo (Tura Campus) Department of Hindi Department of Khasi Department of Linguistics Department of Philosophy	vanlalnghak@yahoo.co.uk Telephone: +91-364-272 3501;	 Department of English (Tura Campus) Department of Garo (Tura Campus) Department of Hindi Department of Khasi Department of Linguistics

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, Hindi, 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, development of creativity and imbibing scientific temperament in the fields of philosophical discourses, language learning and literature studies and linguistics. The school also has the mission to take initiatives to facilitate research and studies in the ethnic and marginal languages, particularly focussing on the cultures and literatures of the region and indigenous philosophical and critical discourses of the North East.

2. Major Achievements/Highlights

- (i) Prof. K.S. Nongkynrih of the Department of English, Shillong has been **a**warded *The SPARROW Literary Award 2022* for poetry, by the Sound & Picture Archives for Research on Women, Mumbai.
- (ii) Dr. Suranjana Choudhury of the Department of English Shillong has been awarded Charles Wallace India Trust Fellowship 2022-2023.
- (iii) Prof. Jyotirmoy Prodhani of the Department of English Shillong has been nominated as a member of the English Advisory Board of Sahitya Akademi, New Delhi.
- (iv) Mr. Lang Kupar Kharpuri War of the Department of English Shillong has been awarded 2nd place by Artdemic India for Short Film "Leaving Home" (Producer).
- (v) Dr. Namrata Pathak of the Department of English Tura has been awarded Charles Wallace India Trust Fellowship 2022-2023.
- (vi) Prof. Xavier Mao of the Department of Philosophy became Joint Secretary IPC & Governing Body Member of Asia and Africa Philosophy Society.
- (vii) The Khasi Department is one of the collaborators for a project of the Khasi Authors' Society funded by the Department of Arts and Culture, Government of Meghalaya to produce a Khasi-Khasi-English Dictionary with phonetic transcription. The project is on-going and it is expected to be completed in 2025.
- (viii) Prof. Streamlet Dkhar of the Department of Khasi has been nominated as University Representative to the General Council of Sahitya Akademi New Delhi from 2023. She has also been awarded "The Woman of the Year 2022" for her contribution to Education and literature at the Transcontinental Poetry Congress held at Turkey on 4th November, 2022 by Prof. Lari Azad, Founder of AIPC.
- (ix) Prof. Fameline K. Marak of the Department of Garo has been awarded the "Blessed Lady of Our Time' award/recognition given by All India Poetess Conference on 4th November, 2022 during the 16th Transcontinental All India Poetess Conference (AIPC) at Istanbul, Turkey.

3. Future Plans

- (i) Advancement of faculty research initiatives in the latest innovative knowledge systems and impart new courses in various departments of the school.
- (ii) Enhancement of the level of teaching and research programmes to develop the next generation of academics and leaders in all walks of life.
- (iii) Greater collaboration with other Universities and create opportunities for students and faculties of the State, region and the nation at large.
- (iv) Encourage interdisciplinary research endeavours, creativity and performances that draw on and add to the applied research base within the university and create start-ups opportunities.

4. Salient Data of the School [2022-2023]

Number of Students awarded Ph.D. Degree	29
Number fo Students awarded M.Phil. Degree	10
Number of Research Publications	27
Number of Books, Book Chapters, and Proceedings	31
Number of Research Projects (Fund Received)	
Completed (03)	5.5 Lakhs
On-going (2)	5.0 Lakhs
New (1)	2.0 Lakhs
Number of Consultancy Projects (Fund Received)	
National	NIL
International	NIL
Number of Students Placed	05
Number of Students Selected for Higher Studies	28
Total Number of Patents	
Filed	NIL
Published	1 (jointly with School of Technology, NEHU)
Granted	NIL
Policy Documents: Status (Name of the Agency) and Nu	ımber
(i) Applied	NIL
(ii) Approved	NIL

DEPARTMENT OF ENGLISH

Head: Prof. Jyotirmoy Prodhani **Telephone:** +91-364-272-3503

E-mail: hodeng@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
	Dr. Jyotirmoy Prodhani, MA (Pune Univ), PhD (NEHU)	Shakespeare, Theatre and Performance Studies, Translation, Decolonial Studies, Northeast Literature
Professor	Dr. Esther Syiem MA (Delhi Univ), MPhil & PhD (NEHU)	American Literature, Literature of North East India
	Dr. Moon Moon Mazumdar, MA & PhD (NEHU), DDE (IGNOU)	Shakespeare Studies, Modern British Literature, Colonial and PostcolonialLiterature 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 (MK Univ)	Drama / Theatre Studies. Tagore Studies, Terror & South Asian Literature
	Dr. Kynpham Sing Nongkynrih, MA & PhD (NEHU)	World Poetry in English Translation, English Poetry, Indian Poetry in English and English Translation, Northeast Literature in English Translation Classical Literary Criticism English Literary Criticism up to the Romantics Haiku/Senryu/Haibun Poetry
	Mr. Rabindra Singh Ngangom, MA (NEHU)	Modern Poetry, World Literature in Translation, Indian Writing in English
Associate	Mr. Lang KuparKharpuri War, MA (NEHU)	Modern Fiction, Postcolonial Literature and Visual Studies
Professor	Dr. Suranjana Choudhury, MA (Assam Univ, Silchar), MPhil (Jadavpur Univ) & PhD (Calcutta Univ)	Partition Writings, Women's Studies, South Asian Literatures, Cultural Studies
Assistant Professor	Dr. Rimi Nath, MA & PhD (Gauhati Univ)	South Asian Literature, Indian Writing in English, Migration/ Diaspora Studies, Partition Studies, Creative Writing.
	Dr. Somjyoti Mridha, MA, MPhil & PhD (JNU)	Indian English Literature, Literatures of Kashmir Conflict, Post-Colonial Literature

Thrust Areas of Research

New Literatures in English particularly South Asian Diasporic Fiction in English; Literature in English and in Translation from North-East India; Comparative Literature constituting various literatures in translation; Theories of Gender and Culture Studies, Ethnic and Cultural Studies and Theatre, with special focus on the theatre traditions of Europe, America, and India in general and North East India in particular.

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. Regular Seminars on progress of PhD scholars are held in the Department. Scholars from areas of literary, gender and cultural studies

and eminent creative writers have been invited to the Department to present their talks and interact with the students. The Department also conducts workshop on pedagogy and performance in collaboration with other literary bodies and institutions and has a Wall Magazine and a Film Club.

Students' Profile

- > Enrolment Capacity: M.A.: 59, Ph.D.: Variable
- > Enrolment of students from different States of India and Abroad (M.A.)

	Gen		ST		SC		OBC	7	EWS	8	TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal	-	-	-	2	_	-	-	-	-	-		2
Pradesh												
Assam	3	9	-	4	-	-	-	-	-	-	3	13
Jharkhand	1	-	-	-	-	-	-	-	-	-	1	-
Kerala	2	-	-	-	-	-	-	-	-	-	2	-
Manipur	-	2		4	-	1	-	-	-	-	-	7
Meghalaya	-	2	3	19	-	-	-	-	-	-	3	21
Mizoram	-	-	-	2	-	-	-	-	-	-	-	2
Nagaland	-	-	-	1	-	-	-	-	-	-	-	1
Tripura	-	-	1		-	-	-	-	-	-	1	-
West Bengal	1	1	-	-	_	-	-	-	-	-	1	1
Sub-Total	7	14	4	32	_	1	-	-	-	-	11	47
International	-	1	-	-	_		-	-	-	-		1
Total	22		36		1		-		-			59

> Enrolment of students from different States of India and Abroad (Ph.D.)

	Gen	1	ST		SC	SC		OBC		EWS		PWD		TOTAL	
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Kerala	-	1	-	-	-	-	-	-	-	-	-	-	-	1	
Manipur	-	-	-	1	-	-	-	-	-	-	-	-	-	1	
Meghalaya	-	-	-	1	-	-	-	-	-	-	-	-	-	1	
Nagaland	-	1	-	-	-	-	-	-	-	-	-	-	-	1	
Total	2		2	2		-		-		_		_			

Degrees Awarded

- > M. A.:44, Ph.D.: 5
- > Degrees Awarded to students from different States of India and Abroad (M.A)

	Gen		ST		SC		OBC		PWD		TOTA	L
STATES	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal	-	-	-	1	-	-	-	-	-	-	-	1
Pradesh												
Assam	4	3	_	1	-	-	-	-	-	-	4	4
Manipur	-	2	3	3	-	-	-	-	-	-	3	5
Meghalaya	-	3	7	22	-	-	-	-	-	-	7	25
Mizoram	-	-	-	3	-	-	-	-	-	-	-	3
Nagaland	-	-	-	5	-	-	-	-	-	-	-	5
Sub-Total	4	8	10	35	-	-	-	-	-	-	14	43
International	-	1	-	-	-	-	-	-	-	-	-	1
Total	13	13 45						_		58		

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Gen	Gen		ST		SC		OBC		EWS		PWD		AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	1	-	-	-	-	-	1	-	-	-	-	-	2
Manipur	-	1	1	-	-	-	-	-	-	-	-	-	1	1
Meghalaya	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Sub Total	-	-	-	-	-	-	-	-	-	-	-	-	2	3
Total	2		2		-		1		-		_		5	

> Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Padumi Singha	The Politics of 'Otherness' in Select	Prof. S. Bhattacharjee
(Registration No.	Novels of John Maxwell Coetzee: A	-
2301 of 19.02.2014)	Critical Study	
Andreas Treki	The Abyss of Divine Comedy:	Prof. K. S. Nongkynrih
Dohtdong	Existentialist concerns in the Film	
(Registration No.	Narratives of Woody Allen	
2365 of 19.02.2014)		
WungreiyonMoinao	War, Violence, Memory: Politics of	Prof. M. Renganathan
(Registration No.	the Absurd in Samuel Beckett's Plays	_
2551 of 19.02.2015)		
Akoijam Rebica	Interrelatedness of Creation: An Eco-	Prof. M.M. Mazumdar
(Registration No.	Critical Study of Select Works of	
2550 of 19.02.2015)	Ruskin Bond	
Vipasha Bhardwaj	Understanding Trauma:	Prof. K. S. Nongkynrih
(Registration No.	Literary Representations of 9/11	
2553 of 19.02.2015)		

Students Selected for Higher Studies

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
Naomi Z. Faiheng	PhD	North-Eastern Hill University	India
Hmar		Shillong	
DaphilatngenKharmujai	PhD	North-Eastern Hill University	India
		Shillong	

Research Fellowship

UGC-NET JRF	UGC Non- Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	NFST
11	07				02

Courses Conducted

> Postgraduate – M. A. (English)

SEMESTER I, Semester I (NEP-2020):British

Poetry, British Fiction, Indian Fiction in

Translation, Asian Literary Cultures & Communicative English.

Semester II (NEP-2020): British Drama, Literary Criticism & Contemporary Theory, World Literature in Translation, Decolonial Studies, Research Methodology & Proposal Writing & Creative Writing /Drama in Performance.

Semester III (CBCS): Poetry (Yeats to Duffy), Shakespeare I Literary Theory and Criticism: Romantic Age to Structuralism, Contemporary Indian Fiction in Translation, Women and Travel, Drama in Performance, Women's Writings, River Narratives from India & Literature from India's North East.

Semester IV (CBCS): Fiction: Late Twentieth Century and Beyond, Contemporary American Literature, Postcolonial Literatures, Shakespeare II, Contemporary Theory & Modern Drama.

PhD Courses

Research Methodology, Research Writing and Presentation& Literature of North-East India.

Seminars/Conferences/Workshops/Symposia/ Extension Programmes

- 1. The Department of English, NEHU, Shillong and the Research Scholars' Forum and The Shillong Forum for English Studies organised a programme, "Meet the Author: Live Interaction with Dhruba Hazarika." on 26th April 2022 (Coordinator Dr. Suranjana Choudhury).
- 2. Students of the Department participated in the celebration of Hindi Day (Hindi Divas) on the theme of "Importance of the three-language formula in the context of North East India" on 21st September 2022.
- 3. The Department of English, NEHU, Shillong and the Research Scholars' Forum and The Shillong Forum for English Studies organised a programme inviting Prof. Nandana Dutta, Professor, Department of English, Gauhati University to deliver a Special Talk on "The Discipline of English and Literary Public Spheres" on 28th September 2022 (Co- Ordinator: Prof. J Prodhani)
- 4. Open Mic Poetry, Music, Comedy, Songs, Stories, Dance, Drama was organised by the Forum of Research Scholars, Department of

English, NEHU, Shillong in the Cluster Classrooms on 14th October 2022.

Publications

> Research papers (14)

- 1. Prodhani. J. (2022). The Saga of the A·bridal·gipa: The ontological turn in Northeast studieshttps://doi.org/10.21659/rupkatha.v14n2.ne00. In the Themed Issue on Literature from Northeast India of *Rupkatha Journal on Interdisciplinary Studies in Humanities*. E-ISSN 0975 2935, Indexed by Web Science, Scopus, ERIHPLUS, EBSCO
- 2. Prodhani, J., Das, S. (2022) "Theatre is not a casual engagement, it is a daily ritual": Imphal and Chorus Repertory Theatre as the Site of Performance.https://doi.org/10.21659/rupkatha.v14n2.ne46.

In the Themed Issue on Literature from Northeast India of *Rupkatha Journal on Interdisciplinary Studies in Humanities*. E-ISSN 0975 2935, Indexed by Web Science, Scopus, ERIHPLUS, EBSCO

- 3. Prodhani, J., Kuhad, U. (2022).Critical Dialogue with Mamang Dai https://doi.org/10.21659/rupkatha.v14n2.ne44. In the Themed Issue on Literature from Northeast India of Rupkatha Journal on Interdisciplinary Studies in Humanities. E-ISSN 0975 2935, Indexed by Web Science, Scopus, ERIHPLUS, EBSCO
- 4. Prodhani, J. (2023). Book Review. A Decolonial Allegory: A Review of *The Living Mountain: A Fable for Our Time* (2022) in *English Forum* (UGC CARE Listed Journal of the Department of English, Gauhati University) ISSN2279-0446, Vol-10&11, 2022-23, pp237-240.
- 5. Renganathan, Mala & Deboshree Bhattacharjee. Book Review. New Postcolonial Dialectics: An Intercultural Comparison of Indian and Nigerian English Plays. By Sarbani Sen Vengadasalam. Cambridge Scholars Publishing: 2018. In IACLALS Journal. V. 6 (2020-23): 239-42.
- 6. Nongkynrih, Kynpham Sing. (2022). "The Writer and the Community: A Case for Literary Ambidexterity". *Indian Writing in English Online at The University of Hyderabad*: https://indianwritinginenglish.uohyd.ac.in.

- 7. Nongkynrih, Kynpham Sing. (2022). "Reflections on Poetry and a 'Quiet Friendship' with the Award-winning Poet Jayanta Mahapatra". Scroll.in: https://scroll.in/author/19831.
- 8. Nongkynrih, Kynpham Sing. (2022). "Conflict and Concord: Despatches From a Fractured Land". *Open, The Magazine*: https://openthemagazine.com.
- 9. Nongkynrih, Kynpham Sing. (2022). 'The Lesson of the Quilt' *SamanvayPoorvottar*, 5(3):80-85.
- 10. Choudhury, S (2022). Partition and its afterlife: tracing home, memory and longing in the imagination of the displaced sylhetis. *Rupkatha Journal*, 14(2): https://doi.org/10.21659/rupkatha.v14n2.ne26
- 11. Nath, Rimi. (2022). The question of the 'foreigners' in select fictional narratives from Assam. *Rupkatha Journal on Interdisciplinary Studies in Humanities* 14 (2): 1-9. https://doi.org/10.21659/rupkatha.v14n1.ne25.
- 12. Mridha, S. (2023). "Situating Anglophone Kashmiri Literature within Indian Writing in English: Interrogating Nation, Narration and Dissent". *Journal of the Department of English, Vidyasagar University.* Vol 16. 346-358.
- 13. Syiem, E. "In Memoriam: Remembering Prof Temsula Ao". *Indian Literature* No.332 (Nov.-Dec., 2022).
- 14. Mazumdar, M. M. & Narzary R."Bodies Beyond Boundaries: Historicizing Hijras in Khushwant Singh's Delhi" *Literaria* Vol. IX, 2020-2022, ISSN: 2278-2710.

> Books (02)

- 1. Nongkynrih, Kynpham Sing. (2022). *Ka Jingngiew ka MynsiemBriew: Ka Sawangka ha ki Lai Bynta* (Heart of Horror: A Play in Three Acts). Pine Cones Publications, Shillong, ISBN: 978-93-5680-2.
- 2. Ngangom, R.S. (2023). *My Invented Land*. Speaking Tiger, New Delhi, ISBN: 978-93-5447-401-9.

Edited Books/Volumes (01)

1. Bhattacharjee, A., Choudhury, S., editors. (2023) *Women's Voices: Representation and Resistance*. Worldview, New Delhi, ISBN: 9382267980

➤ Book Chapters (08)

- 1. Prodhani, J. (2022). Accounts of Inferno: A Reading of Indira Goswami's select novels (Translated from original Assamese article of Hiren Gohain into English). In *Indira Goswami and Beyond (Writer in Context Series)*, Namrata Pathak and Dibyajyoti Sarma (Eds.), Routledge, New York, ISBN978-1-032-42527, Chapter 18, pp, 73-81.
- 2. Prodhani, J. (2022). Bhawaiya songs and Pratima Barua Pandey in *Reading Inidia's Northeast: Folktales, Literature, Society and Community,* Garima Kalita (Ed) MRB Publishers, Guwahati, ISBN, 978-93-83403-28-8, Chapter 7. Pp 84-94.
- 3. Bhattacharjee, Sukalpa (2022). Gendering Religion: A Feminist Perspective. C.A Mawlong and T.Gurung (Eds.). *Religion and Society in Northeast India: An Interface.* DVS Publishers, Guwahati:. pp 32-45.ISBN: 978-93-85839-68-9.
- 4. Bhattacharjee, Sukalpa (2023). Body-Reparation-Invention: Cixous and Derrida on "Feminine Writing". Anirban Bhattacharjee and Suranjana Choudhury (Eds.). Women's Voices: Representation and Resistance. Worldview Publications, Delhi. ISBN: 978-93-82267-98-0.
- 5. Nongkynrih, Kynpham Sing. (2022). "Temple", "Dystopian", "Oldness", "By the Roadside", "A Letter to the Sky". In *Converse: Contemporary Poetry by Indians*. Sudeep Sen (Ed.). Pippa Rann, London, ISBN: 978-1-913738-31-0, pp. 330-334.
- 6. Nongkynrih, Kynpham Sing. (2022). "Truth", "Dreams" and "Laughter".In, Voices Now: World Poetry Today-Poetry-Anthology. Braja K Sorkar and , Binay Laha (Eds.). Tristoop Books, Kolkata, ISBN: 978-8195502714, pp. 225-231.
- 7. Dev, Choudhury (2023) "Shanku versus Shanku" (S. Choudhury, Trans.) (pp.18-24) In Ghosh, S. & Ghosh, S. (Ed.) *Redolent Rush: Contemporary Indian Short Fiction in Translation*. Hawakal, New Delhi.

8. Nath, Rimi (2022). Reflection, Confessions and Reverie (poems). In *Voices Now: World Poetry Today*. Braja K Sorkar and BinayLaha (Eds.). Tristoop Books, Kolkata, ISBN: 978-81-955027-1-4, pp. 217-220.

Proceedings of Seminar/Conferences.(01)

1. Prodhani, J. (2022). The Indigenous People: Challenges to their Rights and Counter Strategies. in the Proceeding of *International Day of the World's Indigenous Peoples*. 9 August 2022, Sonapur, Guwahati, Organised by Northeast Indigenous People's Forum and Indigenous Forum, Assam, Chapter 5, pp 56-71

Popular Articles (News Paper and Magazines)(25)

- 1. J. Prodhani (2022). English as a Social Capital of Northeast India. Special Article in *The Shillong Times*, (22 April) Shillong, p 6
- 2. J. Prodhani (2022).Mahatma Gandhi at Golakganj, Assam in *Kajingshai*, Ramkrishna Mission, Shillong, https://kajingshai.rkmshillong.org/author/jyio/
- 3. J. Prodhani (2022).Durga: As the Goddess of the East in *Mahabahu online magazine*, https://mahabahu.com/durga-as-the-goddess-of-the-east/
- 4. Prodhani, J. (2022). *Khilonjia Manuhar Bhu-Sankritik Adhikar* (The Geo-Cultureal Rights of the Indigenous People) in *Asomiya Pratidin*, Guwahati (10 June), p 4
- 5. J. Prodhani (2022). CoochberorItikotha: AbibhaktaGoalparaJilarOtitiaruBhabishyat (History of Coochbehar: The Past and Future of Undivided Goalpara District) in Asomiya Pratidin, Guwahati (24 Sept), p 4.
- 6. Prodhani, J. (2022). *Shillongor Durga Puja* (Durga Puja of Shillong) in *Asomiya Pratidin*, Guwahati (3 Oct), p 13
- 7. Prodhani, J. (2022).FilmReview:*Brahmastra* in Talkingfilmsonlne.wordpress.com, (21 Sept)
- 8. Prodhani, J. (2022). Grasshopper Chronicle: A New Battle Begins, (a Novel Chapter 16) in *The Beautifulmind* online magazine (October) https://thebeautifulmind.org/?p=5005
- 9. Prodhani, J. (2022). Grasshopper Chronicle: Royal Fancy Store, (a Novel, Chapter 17) in *The Beautifulmind*online magazine (November) https://thebeautifulmind.org/?p=5005
- 10. Prodhani, J. (2022). Grasshopper Chronicle: Photographs from East Pakistan, (a Novel

- Chapter 18) in *The Beautifulmind*online magazine (September) https://thebeautifulmind.org/?p=5005
- 11. Prodhani, J. (2022). Grasshopper Chronicle: Indira Gandhi and Jyoti Basu, (a Novel Chapter 19) in *The Beautifulmind*online magazine (October) https://thebeautifulmind.org/?p=5005
- 12. Prodhani, J. (2022). Grasshopper Chronicle: Indira Gandhi and Jyoti Basu, (a Novel Chapter 20) in *The Beautifulmind*online magazine (November) https://thebeautifulmind.org/?p=5005
- 13. Prodhani, J. (2022). Grasshopper Chronicle: Cotton versus Carmichael, (a Novel, Chapter 21) in *The Beautifulmind*online magazine (November) https://thebeautifulmind.org/?p=5005
- 14. Nongkynrih, Kynpham Sing. (2022). "Jayantada Our 'Quiet Friendship'". *Muse India: The Literary Journal*: https://museindia.com.
- 15. Nongkynrih, Kynpham Sing. (2022). "Temple". *Planet, The Welsh Internationalist*, 247: 63-64.
- 16. Nongkynrih, Kynpham Sing. (2022). "Oldness" and "Laughter". *Pratik Magazine: South Asian WritingSpecial Issue*, Vol XVII No. 1-2: 214-216.
- 17. Nongkynrih, Kynpham Sing. (2022). "Consolation"; "Festering Wound". *Malla Sahitya*, June 2022.
- 18. Nongkynrih, Kynpham Sing. (2022). "The Green Grass" and "Pearls" (Translations of Soso Tham's Poems). *The Shillong Times*, July 22.
- 19. Choudhury,S (2002) Book Review of Sayan A Bhowmick's poetry collection "I will come with a lighthouse" published in *Café Dissensus* (ISSN 2373-177X) cafedissensuseveryday.com/2022/04/05/book-review-sayan-aich-bhowmiks-i-will-come-with-a-lighthouse/
- 20. Choudhury,S (2002) Translation of Bangla song "Sadh her Lau" published in On Eating: A Multilingual Journal of Food and Eating https://www.oneating.in/suranjana-choudhury-song/
- 21. Nath, R.(2002)Poems 'Reflection' and 'Confessions' published in *Malla Sahitya* (emagazine) on 30th June, 2022.
- 22. Nath, R.(2002) A haiku published in *Under the Basho* on 5th Sept. 2022
- 23. Nath, R.(2002) A haiku published in *Asahi Haikuist* on 30th Dec, 2022.
- 24. Mridha, S. "Forgotten Poetry". *The Meghalayan*. 16 Aug, 2022. (Newspaper).
- 25. Mridha, S. Book Review of *The Black Magic Woman. Scroll.* October, 2022.

Funds received during current year

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

Sr. No.	Funding Agency	Amount (Rs. In Lakhs),
01	NEHU	1.0

Seminars/Conferences/Workshops/Symposia/ Extension Programmes

Prof. Jyotirmoy Prodhani

- 1. Presented a paper entitled 'Influences of epics in Indian theatre' in the Sahitya Akademi National Seminar on *Epic and Legend Based Modern Literature* organised by the Department of Assamese, Kumar Bhaskar Varma Sanskrit and Ancient Studies University, Nalbari, Assam on 17th June, 2022.
- 2. Presented a paper entitled, "Redefining Nature and Culture in the Contemporary Literature from Northeast" in the Plenary session of the ICSSR sponsored National Seminar on *Nature, Culture and Literature in Northeast India*, organised by Department of English, Rajiv Gandhi University, Arunachal Pradesh, 20th -21st March 2023.

Prof. Sukalpa Bhattacharjee

- Presented a paper entitled "Academic Leadership in Higher Education: Issues and Contexts" in the One Day National Webinar on "Academic Leadership in Higher Education Institutions in India" held on the 23rd of September 2022 organized by the UGC-HRDC, NEHU Shillong on the 23rd of September 2022.
- 2. Presented a paper entitled "The importance of Three Language formula in the context of Northeast India" on the 21st of September 2022 at the one-day Seminar organized by the School of Humanities, NEHU Shillong on the 21st of September 2022.
- 3. Presented a paper entitled "Critical Pedagogy and Ethical Engagement in a Postcolonial Literature Classroom" in the 23rd International Conference on Ethics Across the Curriculum at the University of Mississippi, Oxford, Mississippi, USA, held between October 6th 8th, 2022.

Honours/Awards/Recognition/Membership/ Fellowship

Prof. JyotirmoyProdhani

- 1. Nominated as a member of the English Advisory Board of Sahitya Akademi, New Delhi. Member of the Editorial Advisory Board of *Rupkatha Journal on Interdisciplinary Studies in Humanities*. June 2022. E-ISSN 0975 2935, Indexed by Web Science, Scopus, ERIHPLUS, EBSCO.
- 2. Member, North East Writer's Forum, Guwahati.
- 3. Life Member, Forum on Contemporary Theory, Baroda.
- 4. Life Member, Asom Sahitya Sabha, Assam.
- 5. Reviewer of Book Proposals for Routledge (Taylor & Francis), New York.
- 6. Peer Reviewer of English Forum, Journal of Department of English, Gauhati University (A UGC Care List Journal).
- 7. Member, Research Advisory Committee, Department of English, Bodoland University.
- 8. Member, Research Advisory Committee, Department of English, Tripura University.

Prof. Sukalpa Bhattacharjee

- 1. Member, Board of Studies, Department of English, Sikkim University.
- 2. Member, Board of Studies, Department of English, Assam University.
- 3. Advisory Board Member, Dibrugarh University Journal of English Studies.
- 4. Member, Research Advisory Committee, Department of English, Bodoland University
- 5. Member, Research Advisory Committee, Department of English, Tripura University
- 6. Life Member, North East India History Association (NEIHA)
- 7. Peer Reviewer for the *Indian Journal for Gender Studies* (SAGE Journals) *Asian Ethnicity* (Taylor & Francis) *SAGE Open*.

Prof. Mala Renganathan

1. Member of the Jury for the 2022 Sahitya Akademi Yuva Puraskar Award, Sahitya Akademi. External Member, School Board of Humanities, Assam University, Silchar.

Prof. K.S. Nongkynrih

1. Awarded *The SPARROW Literary Award 2022* for poetry, by the Sound & Picture Archives for Research on Women, Mumbai.

Mr. Lang KuparKharpuri War:

1. Awarded 2nd place by Artdemic India for Short Film "Leaving Home" (Producer).

Dr. Suranjana Choudhury

1. Awarded Charles Wallace Foundation Short Term Research Fellowship to the United Kingdom (2022-23).

Other Activities

Prof. Jyotirmov Prodhani

- 1. Guest Edited the Themed Issue on Literature of Northeast India of *Rupkatha Journal on Interdisciplinary Studies in Humanities*. June 2022. E-ISSN 0975 2935, Indexed by Web Science, Scopus, ERIHPLUS, EBSCO.
- 2. Refresher Course Lecture on "Northeast Literature and Translation" in RC on *Literatures of NE India, Translation and National Integration* organsied by Teaching Learning Centre (TLC), Tezpur University, on 15 December, 2022.
- 3. Refresher Course Lecture on "Translation Theory and Praxis" in RC on Translation organsied by Assamese Department, Gauhati University, on *Translation Studies and Assamese Literature*on 2nd February 2023.
- 4. Refresher Course Lecture on "Translating Rajbanshi Poetry" in RC on Translation organsied by Assamese Department, Gauhati University, on *Translation Studies and Assamese Literature* on 14th February 2023.
- 5. Keynote Speaker in the National Seminar on Gargaon College ICSSR Sponsored Two Day National Seminar on "Writings from NorthEast India: Trends and Issues" organised by Gargaon College, Gargaon, Sivasagar, Assam on 24 & 25 February 2023.
- 6. Keynote Speaker in the ICSSR Sponsored National Seminar on Revisiting the Indian freedom struggle of Northeast Bharat: Prolegomenon of undivided Goalpara District of Assam at Chilarai College, Golakganj, Assam, 15 & 16 June 2022.
- 7. Invited speaker on Book Discussion with Ravi Singh of Speaking Tiger on Mamang Dai's Legends of PensamIn Arunachal Lit Fest 2022,

- Organised by Dept of Information and Public Relations, Govt of Arunachal Pradesh, at Namsai on 4 Nov 2022.
- 8. Panel Speaker on *Crossing Boundaries through Translation* in *Arunachal Lit Fest 2022*, Organised by Dept of Information and Public Relations, Govt of Arunachal Pradesh, at Namsai on 5 Nov 2022.
- 9. Delivered lecture in the Special Programme on the book, Modi@20: Dreams Meet Delivery organised by the School of Humanities, NEHU, Shillong on 12 August 2022.

Prof. Esther Syiem

- 1. Participated as a panelist at the festival entitled "Manik Raitong: Festival of Legacy and Kinship" organized by the Mass Media Department St. Anthony's College Shillong on 4th November 2022
- 2. Participated as a panelist at a panel discussion on Temsula Ao "A Tribute to Her Life and Work" on 21st November 2022 at the Shillong Literary Festival.
- 3. Delivered a lecture on "Literature from North East India" on 6th June 2022 at the Refresher Course on Languages, Literature and Linguistics conducted by Mizoram University-UGC HRDC (online mode via Zoom).
- 4. Participated as Resource Person on International Mother Language Day in an invited talk organized by the Department of English St Mary's College on 21st of February 2023 on "Literature of North East India".
- 5. Delivered the Rev. Dr. John Roberts Annual Memorial Lecture for 2022, on 23rd July 2022 at the John Roberts Theological College, Mawklot, Shillong. Title of paper: "Voices of Resistance: Literatures in English from North East India".
- 6. Presented a paper on "The Power of Orality; Lore, the Loristic and Living Memory" at the Dhaka Art Summit Dhaka on 3rd February 2023 as part of the theTranscultural Folklore Research Forum for Very Small Feelings exhibition co-curated by Samdani Art Foundation, Kiran Nadar Museum of Art and Samdani Art Foundation.

Prof. Moon Moon Mazumdar

 Invited lecture (Annual Lecture Series) at G.C.College, Silchar on 24th February, 2022 on "Tragic Structure of *Macbeth* and Adaptations from India's Northeast".

Prof. Sukalpa Bhattacharjee

- 1. Delivered Lectures on "Feminist Research Methods" at the Dept. of Political Science, Delhi University on the 20th of June 2022.
- 2. Delivered a lecture on "Academic writing for the Humanities" on the 4th of July 2022 at the 10th Faculty Induction Programme (FIP) held from the 29th June to 28th Jul, 2022 at the UGC-HRDC, NEHU Shillong.
- 3. Delivered a lecture on "Translation as Transcreation" on the 6th of September 2022 at the at the Short Term Course in Research Methodology for Social Sciences and Humanities held from the 1st of September to 7th of September 2022 at the UGC-HRDC, NEHU Shillong and organized by the UGC-HRDC, NEHU Shillong.
- 4. Delivered a lecture on "Gender Justice and Human Rights" on the 14th of September 2022 at the Short Term Course in Gender Sensitization held from the 13th of September to 19th of September 2022, at the UGC-HRDC, NEHU Shillong.
- 5. Delivered 2 lectures on "History and Women's Writing" on the 6th of December 2022 in the Refresher Course organized by the Department of History from the 24th November to 7th on the theme of "An Interdisciplinary Approach to the Study of the History of North-East India-Prospects and Challenges".
- 6. Delivered an Invited lecture on "The Life and works of Temsula Ao: *These Hills Called Home*" organized by the Northeast Reading Circle on the 24th of November 2022.
- 7. Chaired a session entitled "Gender and Literature" on the 27th of March 2023 at the 2 Day National Seminar on "Gender, Society and Development in the Context of North-East India" (Virtual Mode) organized by the Department of Sociology, NEHU Shillong, on the 27th and 28th of March 2023.
- 8. Delivered lecture in the Special Programme on the book, Modi@20: Dreams Meet Delivery organised by the School of Humanities, NEHU, Shillong on 12 August 2022.

Prof. Mala Renganathan

- 1. Resource Person, Online Refresher Course in English (from 2nd to 17th November 2022) organized by UGC-HRDC Osmania University, Hyderabad, and delivered a lecture on "Relevance of Folk Drama in the Modern World" on 15th November, 2022 at 1.40-1.10 pm.
- 2. Coordinator / Chairperson, Editorial Board, NEHU Compendium, NEHU, Shillong
- 3. Member, Annual Report Committee, 2021-22.

Dr. K.S. Nongkynrih

- 1. A *Meet the Author Programme* organised by Reading Northeast Collective on 25 August 2022 and discussed the novel *Funeral Nights* as the author.
- 2. Tata Literature Live! Mumbai International Literary Festival, organised by the Tata Literature Live Committee from 11 to 13 November 2022 and took part in several panel discussions as a resource person.
- 3. Poetry Chair Evenings, Kolkata's International Poetry Festival, organised by the Poetry Chair Evenings Festival Coordination Team from 26th to 28th November 2022 and read self-composed poems and took part in panel discussions as a resource person.
- 4. *Ka Workshop halorKumno ban ThohPoitri*, organised by St. Anthony's, Khasi Department, on 24 September 2022 and delivered a lecture as a resource person.
- 5. The Eleventh Annual Rev Fr N J Kenny Memorial Lecture 2022, organised by St. Anthony's, English Department, on 5 November 2022 and delivered a lecture as a resource person.

Mr. Ngangom R. Singh

- 1. Read "Northeast Poetry in English" at the Department of English, Cotton University, Guwahati, 28.4.2023.
- 2. Read "self-composed poems" at the Eastern Regional Poets' Meet, Sahitya Akademi, Cotton University, Guwahati, 29.4.2023.

Mr. Lang KuparKharpuri War

- 1. Produced a short film "Leaving Home", selected to be part of Wild Vueing Weekend Online Short Film Festival.
- 2. Produced a short film "Leaving Home", screening of which was held by Harkat Studios, Mumbai and Artdemic India.

Dr. Suranjana Choudhury

- 1. Delivered a talk as a resource person on "Poetics and politics of displacement and belonging: partition and its literary responses in India's northeast" in a National Seminar organized by School of social Sciences and Languages, Vellore Institute of Technology, Chennai on the topic *Tryst with Destiny: Literary Portrayal of the Partition of India* on 10th& 11th November 2022.
- 2. Delivered plenary lecture on "Disorder, dilemma and suffering: the mother and her child in Cynthia Ozick's 'The Shawl' " in a two- day National Conference organised by Department of Humanities and Social Sciences, National institute of technology, Shillong in collaboration with Department of English literature, The English and Foreign Languages University, Shillong on the topic *Genocides and Oppression: Interpretations, Intersections, and Interstices* on 19th& 20th November 2022.
- 3. Delivered a virtual talk on the topic "Charles Dickens's Hard Times" on 15th December, 2022 at Midnapore College (autonomous) affiliated to Vidyasagar University, West Bengal
- 4. Delivered series of virtual lectures on "The Partition and the Pakistani English Novel" in the first week of June, 2022 on the course "South Asian Writings in English" at the Department of English, Jadavpur University.
- 5. Delivered the 12th Usha Bhattacharyya Memorial Lecture on the title "What the tongue remembers: understanding culinary culture, memory and home" organized by the Department of Philosophy, Lady Keane College, Shillong on 8th September, 2022.
- 6. Chaired a session in the Two Day International Virtual Conference on Post Pandemic Perspectives: Reflections and Realities, organized by the Department of Management, Humanities and Social Sciences, National Institute of Technology Agartala on 5th and 6th August 2022.
- 7. Invited as a judge in Debate Competition organized by Women's College, Shillong on 10th September, 2022
- 8. Invited as a judge in Extempore Speech Competition organized by NEHU Students' Union on 11th March 2023.

9. Delivered an invited lecture titled "Representation of Fallen Women in Literary Discourses" on 14th September 2022 in Short Term Course in Gender Sensitization organized by NEHU UGC HRDC.

Dr. Rimi Nath

- 1. Participated a Refresher in Course on 'Biodiversity and conservation' (Interdisciplinary) organised by HRDC, NEHU, Shillong from 3rd August to 18th August, a session 2022.Chaired on 'Environment protection, conservation and sustainability" organised by J. B. College, Jorhat, Assam on 16th March, 2023.
- 2. Reviewed an article for *KEMANUSIAAN: The Asian Journal of Humanities* (Malaysia) in April, 2022.
- 3. Adjudicated an inter-school essay writing competition organised by the Income Tax department, Meghalaya, in August, 2022.
- 4. Participated in a one day workshop on developing MOOCs organised by MOOCs Centre, NEHU, on 1st Sept, 2022.
- 5. Reviewed an article for the journal *Southeast* Asian Review of English, Department of English, Universiti Malaya, in March, 2023.

Dr. Somjyoti Mridha

- Delivered an online Special Lecture entitled "Translation in India, India in Translation: A Literary Perspective" on the 2nd of December, 2022 for the students of Vidyasagar Metropolitan College, Kolkata.
- 2. Delivered an Online lecture entitled "Translation In India, India in Translation: A Literary Perspective" for the participants of Online Refresher Course on *Literature and Literary Works in the Post Modern Era* on the 16th of February, 2023 conducted by the UGC Human Resource Development Centre (HRDC) of University of North Bengal.
- 3. Delivered an Online lecture entitled "Writing Nation, Writing Resistance: An overview of Anglophone Kashmiri Literature Post 1990s" for the participants of Online Refresher Course on *Literature and Literary Works in the Post Modern Era* on the 16th of February, 2023 conducted by the UGC Human Resource Development Centre (HRDC) of University of North Bengal.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2021 TO 31ST MARCH 2022

Details	Name	HEET FOR TH	1	Prof. J.	Prof. E.	Prof. M. M.	Prof. S.	Prof. M.	Prof. K. S.
of				Prodhani	Syiem	Mazumdar	Bhattacharj	Rengana	Nongkynrih
Facultie							ee	than	
S	Date of Joining		2	1 -8- 2012	1-5- 1987	15-02-2002	12-06-2003	11.6.03	10-10-2001
	Field of specialisation		3	Shakespear	American	Fiction,	Critical	Drama	World Poetry in
				e, Theatre and	Literature, Literature	Shakespear	Theory, Gender		English Translation,
				Performanc	of North		Studies,		English Poetry,
				e Studies,	East India		Postcolonial		Indian Poetry in
				Translation,	2000		&		English and
				Decolonial			Decolonial		English
				Studies,			Literatures		Translation,
				Northeast					Northeast
				Literature.					Literature in
									English Translation
(A)	UG		4	13 years	6 years	13 years	08 years		11 years
Teachin	PG, including PhD		5	17 years	PG: 36	25 years	21 years	28 years	17 years, six
g				-	years				months
Experie					PhD: 25				
nce (in					years				
Years)	Basic Research		6	Yes	Yes	Yes	Yes	Yes	Yes
	Applied Research		7	-	-	-	Yes	-	-
	Action Research		8	-	=	-	Yes	-	-
	Project Submitted		9	-	-	-	-	Yes	-
	Ongoing Project		10	-	-	-	-		-
	Research Paper in UGC	Group I	11	4	-	1	-	1	4
	care list journals	Group II	12	-	-	-	-	-	1
	Books /Books chapters Published	Books Book Chapters	13 14	2	-	-	2	-	2
(B)	Popular Articles (News	Book Chapters	15	13	-	_	-	-	5
Researc h	Paper/ Magazines)								
activitie	Seminar / Conference/	National	16	-	-	-	-	-	-
S	Symposia organized	International	17	-	-	-	-	-	-
	Seminar / Conference/ Symposia attended	National International	18 19	5	-	1	2	-	3
	Conference	International	20	_	_	_	-	_	-
	Proceedings		20						
	Consultancy		21	-	-	-	-	-	-
	Applied		22	-	-	-	-	-	-
(C) Patent	Published		23	-	-	-	-	_	-
ratent			2.4					_	
(D)	Granted MOOC/SWAYAM/ E-		24 25	-	-	-	-	-	-
(D) E-	content developed		23	_		-	-	-	
Content	content developed								
	Teaching /Extension		26	-	-	-	-	-	-
	/outreach activities								
	Responsibilities other		27	Headship	-	-	-	-	-
/E)	than teaching		30	(2) Manuta					Awarded The
(E) Any	Awards/ Honours/ Recognition/		28	(2) Member, EAB, Sahitya	-	-	-	2	SPARROW Literary
Other	Membership/			Akademi					Award 2022 for
	Fellowship			Member					poetry, by the
				Editorial					Sound & Picture
				Advisory Board					Archives for Research on
				(Rupkatha					Women, Mumbai.
				Journal)					
	Collaborations	National	29		-	-	-	-	-
		International	30		-	-	-	-	=

Details of Faculties	Name		1	Mr. N. R. Singh	Mr. L. K. Kharpuri War	Dr. S. Choudhury	Dr. R. Nath	Dr. S. Mridha
	Date of Joining		2	02-11-1988	12-07- 2006	06-4-2009	18-04-2013	29-04- 2013
	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	South Asian Literature, Indian Writing in English, Migration/ Diaspora Studies,	Indian English Literature
(A)	UG		4	2 years	3 years	Studies		
Teaching Experience (in Years)	PG, including PhD		5	34 years	16 years	13 years	10 years	10 years
	Basic Research		6	Yes	Yes	Yes	Yes	Yes
	Applied Research		7	-	-	-	-	Yes
	Action Research		8	-	-	-	-	-
	Project Submitted		9	-	-	-	-	-
	Ongoing Project		10	-	-	-	-	-
	Research Paper in	Group I	11	-	-	1	1	-
	UGC care list journals	Group II	12	-	-	-	-	1
(B)	Books /Books	Books	13	1	-	1	-	-
Research activities	chapters Published	Book Chapters	14	-	-	1	1	
	Popular Articles (News Paper/ Magazines)	Chapters	15	-	-	2	3	2
	Seminar /	National	16	-	-	1	-	-
	Conference/ Symposia organized	International	17	-	-		-	-
	Seminar /	National	18	2		2	1	
	Conference/ Symposia attended	International	19	-	-	-	2	-
	Conference Proceedings		20	-	-	-	-	-
	Consultancy		21	-	-	-	-	-
(C) Patent	Applied		22	-	-	-	-	-
1 atent	Published		23	-	-	-	-	-
	Granted		24	-	-	-	-	-
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	-	-	-	-	-
(E) Any Other	Teaching /Extension /outreach activities		26	-	-	-	4	-
	Responsibilities other than teaching		27	-	College inspection, Admission Committee	1	-	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	-	Awarded 2nd place by Artdemic India for Short Film "Leaving Home"	Charles Wallace Foundation Short Term Research Fellowship to the UK	-	-
	Collaborations	National	29	-	-	-	1	-
		International	30	-	-	-	-	=

DEPARTMENT OF ENGLISH (Tura Campus)

Head: Prof. Prof. Dwijen Sharma; **Telephone:** 8414075571

E-mail: englishtura.nehu@gmail.com

Faculty Profile

Designation	Name and Qualification	Specialization
Professor	Dr. Sujata Gurudev, M.Phil. & Ph.D. (NEHU)	American Literature, Modern British Literature
	Dwijen Sharma, M.Phil., Ph.D.(Dibrugarh)	Indian English Literature, Literary & Cultural Theory
Associate Professor	Dr. Ramona M. Sangma, M. A. & Ph.D. (NEHU)	Postcolonial Literature, Cultural Studies
Assistant	Namrata Pathak, M. Phil. & Ph.D. (EFLU)	Performance Studies, Indian Writing in English, Crtical Theory
Professor	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 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.

Students' Profile

- > Enrolment Capacity: M. A.: 38, Ph.D.: Variable
- > Enrolment of students from different States of India and Abroad (M. A.)

	Gen	Gen		ST		SC		OBC		EWS		L
STATES	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	2	-	-	-	-	-	1	-	-	-	3
Kerala	1	-	-	-	-	-	-	-	-	-	1	-
Meghalaya	-	3	6	25	-	-	-	-	-	-	6	28

Sub Total	1	5	6	25	-	-	-	1	-	-	7	31
International	-	-	-	-	-	-	-	-	-	-	-	-
Total	6		31	31		-		1		-		

> Enrolment of students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC	7	EWS	5	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Sub Total	-	-	1	-	-	-	-	-	-	-	-	-	1	-
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-		1		-		-		-		-		1	

Degrees Awarded

> M. A.:34, Ph.D.: 03

> Degrees Awarded to students from different States of India and Abroad (M. A.)

	Gen		ST		SC		OBC	7	EWS	5	TOT	ΊΑL
STATES	M	F	M	F	M	F	M	F	M	F	M	F
Assam	1	-	-	-	-	-	-	-	-	-	1	-
Meghalaya	1	1	6	25	-	-	-	-	_	_	7	26
Sub Total	2	1	6	25	-	-	-	-	-	-	8	26
Total	3		31		-		-		-		34	

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC	7	EWS	5	PWD		TOT	A L
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	1	-	-	-	-	-	-	1	-	-	-	-	1	1
Meghalaya	-	-	-	1	-	-	-		-	-	-	-	-	1
Total	1		1		-		1		-		-		3	

Name of Student	Title of Thesis	Name(s) of
		Supervisor(s)
Ms.Padmini	The New Age Paradigm in Aurobindo Ghosh's	Prof. S. Gurudev
Vaikunth Roy	Savitri, Walt Whitman's Leaves of Grass, Marie	
	Corelli's Life Everlasting and Edgar Allan Poe's	
	Eureka: a Prose Poem	
Ms. Sudipta	Mapping Terrains and Locating Memory: A	Dr. N. Pathak
Phukan	Study of Select Narratives of Roma Tearne	
Mr. Subhendu Dutta	A Journey from Margin to Centre: A Select Study of Dalit Narratives	Dr. N. Pathak

Students Selected for Higher Studies

Name of the Student(s)	Institution/Organization	Place of Work
Alkanur Nehar	College of Teacher Education	Rongkhon, Tura, West Garo Hills Meghalaya
Kasaan Chokchim M Sangma	College of Teacher Education	Rongkhon, Tura, West Garo Hills Meghalaya

Ignasius S Marak	College of Teacher Education	Rongkhon, Tura, West Garo Hills
		Meghalaya

Research Fellowship

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others (to be mentioned)
NIL	01	NIL	NIL	NIL	NIL

Field Work/Educational Tour of Students

Teacher-in-Charge: Dr. Tilok Thakuria

Places/Institutions Visited: Bhubaneswar and

Kolkata

Duration of Tour: 10 Days, 5th Feb 2023 to 16th

Feb 2023

Purpose of Tour: To visit Educational Institutions, Museums, Historical places of interest and to learn and observe the socio-economic progress and diversity of the country especially pertaining to Orissa and West Bengal.

Courses Conducted

> Postgraduate – M.A. (English)

Semester I (NEP-2020): Core Course: British Drama, Literary Criticism and Contemporary Theory; World Literature in Translation, Decolonial Studies; Research Methodology and Proposal Writing; SEC: Creative Writing, Drama in Performance.

Semester II: Poetry (Blake to Browning), Fiction (Early 20th Century to Mid 20th Century), Environmental & Indian Writing in English, The Beginnings of English Literary Criticism, Open Course: World Literature in Translation, South Asian Literature, Modern Indian Drama.

Semester III (CBCS): Poetry (Yeats to Duffy), Shakespeare I, Literary Theory and Criticism (Romantic Age to Structuralism), Contemporary Indian Fiction in Translation, Women and Travel, Drama in Performance.

Semester-IV (CBCS): Fiction (late 20th Century and Beyond), Contemporary American Literature, Postcolonial Literatures, Shakespeare II, Contemporary Theory, Modern Drama.

> PhD Courses

Research Methodology, Research Writing and Presentation, Theory and Text, Research & Publication Ethics.

Seminars/Conferences/Workshops/Symposia/E xtension Programmes

- 1. Organized a special talk, *The Craft of Translation: Now and Then* by eminent writer and Sahitya Akademi awardee, Ambai on 13th October, 2022 at NEHU (organized by Dr. N. Pathak).
- 2. Organized a special talk, *How to De-Racialize Research Works? Critical Race Study (CRT) as a Methodological Framework* by Sayan Dey, Faculty Fellow at Harriet Tubman Institute, York University, Canada and Post-Doctoral Fellow at WITS Centre for Diversity Studies, Johannesburg on 24th August, 2022 at NEHU (organized by Dr. N. Pathak).

Publications

> Research papers (04)

- Sharma, D. (2022). Buranji in North East India: A 13th Century History Project of Assam. *Rupkatha Journal on Interdisciplinary Studies in Humanities*, 14 (2): 1-11. https://doi.org/10.21659/rupkatha.v14n2.ne01
- 2. Sharma, D., Marak, S. R. (2022) Aldous Huxley, Freud and Sexology: The Figure of Trans Femininity. *DUJES*, 30(1): 326-42
- 3. Pathak, N. (2022) Female 'alterity' and the non-human: the transformative significance of 'laughter' and 'leisure' in Nitoo Das's "Jokhini". *Drishti: The Sight*, X(II): 79-83
- 4. Pathak, N. (2022). Under the canopy of sal trees: a new vocabulary of performance in Sukracharya Rabha's minimal theatre. *Rupkatha Journal on*

Interdisciplinary Studies in Humanities, 14 (2): 1-12.

Books (01)

1. Sangma, R. (2022). *Urbanscapes of Meghalaya: This is Tura*. Bidawe Media for Meghalaya Tourism, Govt. of Meghalaya, Shillong, ISBN 978-81-951116-9-5

Edited Books/Volumes (01)

1. Pathak, N., Sarma, D., editors. (2022). *Indira Goswami: Margins and Beyond*. Routledge, UK and South Asia. ISBN: 9781032425276

> Book Chapters (03)

- 1. Sharma, D., Barman, P. (2022). Alternative Masculinity in Indira Goswami's Fiction. In *Indira Goswami: Margins and Beyond*. Pathak, N. and Sarma, D. (Eds.). Routledge, New Delhi, ISBN 978-03-67705-46-6, pp. 247-59.
- 2. Sharma, D., Anish, S. (2022). Alternative Archive of Partition: Revisiting Manto. In *Revisiting Partition: Identity, History and Memory*. Ara, Arzuman. (Ed.). Pencraft, New Delhi, ISBN 978-93-82178-39-2, pp. 156-72.
- 3. Gracy, L. K., Sharma, D. (2023). Women, Violence and the Matrilineal Society: A Study of the *A·Chik* Women of Meghalaya. In *The Shifting Role of Women: From Chores to Cores*. Dwivedi, V. K. (Ed.). Cambridge Scholars Publishing, Cambridge, UK, ISBN 978-1-5275-0154-6, pp.1-17.

Popular Articles (News Paper and Magazines) (06)

- 1. Pathak, N. (2022). Where the Cobbled Path Leads, A Review. https://www.usawa.in/issue-8/Book-Reviews/Where-The-Cobbled-Path-Leads-By-Aditi-Yadav.html
- 2. Pathak, N. (2022). A conversation between Avinuo Kire and Namrata Pathak. https://www.usawa.in/issue-8/interview/A-Conversation-between-Avinuo-Kire-and-Namrata-Pathak.html
- 3. Pathak, N. (2022). On Love and Lovers: A Few Snippets on Vibha Malhotra's 'Loveflakes: Memories of Mirages'. https://cafedissensuseveryday.com/2022/09/17/on-love-and-lovers-a-few-snippets-on-vibha-malhotras-loveflakes-memories-of-mirages/
- 4. Pathak, N. (2022). Outlook weekender, elegy of an origami crow. https://www.outlookindia.com/culture-society/poems-elegy-of-an-origami-crow-weekender-story-209736
- 5. Pathak, N. (2022). In conversation with an academic voice.
- 6. https://theshillongtimes.com/2022/11/27/inconversation-with-the-academic-voice/
- 7. Pathak, N. (2022). Featured in Women Plus of Assam Tribune, Sunday Reading, her world of words. https://assamtribune.com/full-page-pdf/epaper/pdf/2022/07/31/dainik-asam/4121

Funds received during current year

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

Sr. No.	Funding Agency	Amount (Rs. In Lakhs),
01	NEHU	02

(D) EMR Research Projects to individual faculty members

Title of Project (Total outlay in Lakhs)	Current Status (New / on-going/ completed	Name of Investigator (Pl/Co-Pl)	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)	8 8	Dr Ramona M. Sangma (PI) Dr. L K Gracy (Co-PI)	Single 2021-23	Meghalayan Age Ltd, Govt. of Meghalaya	Via INTACH, Meghalaya Chapter 5 lac	
Urbanscapes of Meghalaya: This is Tura (Book Project)	1	Dr. Ramona M Sangma (PI)	Single 2022-23	Tourism Dept., Govt. of Meghalaya	Via INTACH, Meghalaya Chapter 1.5 lac	

Curation of Iconic Exhibition: Photos of Interest, Celebrating 50 years of Statehood	Completed	Dr. Ramona M Sangma (PI)	Single 2022-23	Tourism Dept., Govt. of Meghalaya	Via INTACH, Meghalaya Chapter 2.5 lac
Restoration and Digitization of DC's Archives, West Garo Hills, Tura. (30 lac)	Ongoing	Dr Ramona M. Sangma (PI) Dr. L. K. Gracy (Co-PI)	Single 2022-23	Meghalayan Age Ltd, Govt. of Meghalaya	Via INTACH, Meghalaya Chapter
The Emergence of Bhaona in the Popular Culture of Assam: Understanding its Transition from the 'Sacred' to the 'Profane' (INR 5 L)	New	Dr. Namrata Pathak (PI)	Single (2023-24)	ICSSR, New Delhi	INR 2 L

Seminar/Conference/Symposium/Extension Programme etc.

Prof. Dwijen Sharma

- D. Sharma. Presented a Plenary paper entitled "Indigenous Faith and Institutionalized Religions: A Philosophical Discourse" in the National Seminar on Faith and Identity: Traditional Worldviews and Institutionalized Religions in Arunachal Pradesh organized by J N College, Pasighat, Arunachal Pradesh in collaboration with MAKAIAS, Kolkata on 5th and 6th September 2022
- 2. D. Sharma. Presented a Plenary paper entitled "Digital Divide and the Knowledge Gap" in the National Seminar on *The Role of Mass Media in Education* Organized by Bajali T. T. College, Patacharkuchi, Assam on 16th and 17th December, 2022.

Dr. Ramona Sangma

- R. Sangma. Presented paper on "Fridina K. Marak- Ahead of her Times" at the National Seminar on *Women and Poetry* organised by the Dept. of Garo, NEHU, Tura Campus, on 29th-30th April. 2022.
- 2. R. Sangma. Presented paper on "Women and Autobiography- Poems from the Periphery" at the

- All India Poetess Conference, 20th-21st Mega Conference, Meghalaya, Tura on 26-28th May, 2022.
- 3. R. Sangma. Presented paper on "Workings of the Garo Hills District Council" at the *41st Annual Conference of NEIHA*, Tura Christian College, Meghalaya on 10th-12th Nov. 2022.

Dr. Namrata Pathak

- 1. N. Pathak. Invited as a Resource Person in the second technical session in the one week FDP organized by Mahapurush Srimanta Sankardeva Vishwavidyalaya, Nagaon and spoke on "'Ecospectations' on the stage in the context of the North East" on 2nd August, 2022.
- 2. N. Pathak. Presented a paper titled, "Rebellion and voice of dissent in Nabina Das' *Sanskarnaama*" in a national seminar on *Women and Poetry* organized by ICSSR. AIPC, and Dept. of Garo, NEHU, Tura Campus from 29th to 30th April, 2022.
- 3. N. Pathak. Presented a paper titled, "Speculative deaths and ecocides: interrogating eschatological desires in I am Mother" in the XXV International Conference on *A Requiem for Theory* organized by FCT, Vadodhara, Cotton University, Guwahati, and International Lincoln Center for

- American Studies, Louisiana State University in Shreveport, USA from 20-22nd December, 2022.
- 4. N. Pathak. Invited Speaker in the session, *Moons, Melons and Mint: Verses of Earthly Delight*, in the Chandrabhaga Poetry Festival, Orissa, from 14th to 15th January, 2023.

Dr. L.K. Gracy

1. L.K Gracy. Presented a paper titled, "Anna Akhmatova-A Poet-Witness of Stalinist Regime" in a national seminar on *Women and Poetry* organized by ICSSR. AIPC, and Dept. of Garo, NEHU, Tura Campus from 29th to 30th April, 2022

Academic Collaborations

National

Dr. Namrata Pathak

- 1. N. Pathak. Collaborated with Zubaan and Sasakawa Peace Foundation (SPF) for a Project titled, "Covid Stories" (2021-2022).
- 2. N. Pathak. Collaborated (ongoing) with Zubaan for a Project titled, "Cultures of Peace: Festival of the North-East."

Honours/Awards/Recognition/Membership/Fe llowship

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 (iii) *The Critique*, a peer reviewed journal (iii) *Creative Saplings*, a peer reviewed journal, Member, Advisory Board, *Drishti- the sight*, a UGC care list journal

Ramona Sangma

Co-Convenor, Indian National Trust of Art and Cultural Heritage, Meghalaya Chapter

Namrata Pathak

Selected for the Charles Wallace India Trust Fellowship (CWIT, 2022-23) at SOAS-University of London. (International Level), Visiting Fellow at SOAS-University of London, UK; University of Stirling, Scotland; University of Kent, UK etc. Member of IFTR, NEWF, FCT & GS, MELUS MELOW etc.; member of the editorial board of NEWF publication, *New Frontiers* and *Ensemble*, the NEWF Meghalaya Chapter Anthology; member of the editorial board of *Me Gong* and *Agri Vision* of NEHU; journal *Sonsophia* etc.

Other Activities

Dr. Dwijen Sharma

- 1. Delivered One Lecture on 'The Project of Bharat Nirman through Comparative Indian Literature' in the Refresher Course on *Comparative Indian Literature & Culture and Bharat Nirman* organised by the HRDC, Gauhati University on 4th November, 2022.
- 2. D. Sharma. Attended UGC Approved Professional Development Programme on 'Implementation of NEP2020 for University and College Teachers' conducted by IGNOU, New Delhi from 21-29 September, 2022

Dr. Sujata Gurudev

- 1. Chaired a special Lecture at the two-day International Webinar on "TheInterface of Indigenous and Global: Re-structuring Culture, Economy and Society" conducted by the Department of English, Bodoland University, Kokrajhar on the 16th-17th of March, 2023.
- 2. Chairperson of E-Magazine committee of "me gong", E-Magazine, NEHU, Tura Campus, Meghalaya.
- 3. Advisor of Editorial Committee of "AGRI Vision" Magazine of Biotech KISAN Hub & Bio-Resources Development Hub, NEHU, Tura Campus, Meghalaya.
- 4. Chairman of "Entrepreneurship Awareness Programme (EAP) on Food Processing" organized by Branch MSME-DFO, Tura, Ministry of MSME, Govt. of India, in association with BIRAC Bio NEST Bio incubator Facility, NEHU, Tura on September 16, 2022 at NEHU, Tura Campus.
- 5. Chairman of webinar on "Compliances & Certifications in Food & Nutrition" as a part of the sensitization series on "Bio-entrepreneurship opportunities in Meghalaya" jointly organised by BIRAC BioNEST Bioincubator (B3I) Facility, NEHU, Tura Campus & PRIME Start-up Hub, Government of Meghalaya on September 28, 2022.

- 6. Chairman of "National Seminar on Conservation of Biodiversity (NSCB 2022)" together with Kisan Mela 2022 organized by Biotech KISAN Hub, North-Eastern Hill University, Tura Campus, Meghalaya on 2nd and 3rd September 2022 at the NEHU, Tura Campus, Meghalaya.
- 7. Chairman of "Bio-Entrepreneurship Development Training Programme" conducted and organized by Biotech KISAN Hub, NEHU, Tura Campus, Meghalaya on 18th November
- 8. Chairman of "Idea Presentation Seminar" organised jointly by Branch MSMEDFO, Tura, Ministry of MSME, Govt of India, and BIRAC BioNEST Bioincubator (B3I) Facility, NEHU, Tura on October 11, 2022 at NEHU, Tura Campus.
- 9. Chairman of "International Conference on Environment and Sustainable Development (ICESD 2022)" organized by Biotech KISAN Hub, North-Eastern Hill University, Tura Campus, Meghalaya in collaboration with Department of Computer Application, NEHU, Tura Campus, Meghalaya on 24th and 25th November 2022 at NEHU, Tura Campus, Meghalaya.
- 10. Chairman of Workshop on "Loin Loom Training, an Entrepreneurial Initiative to Learn & Preserve Traditional Garo Weaving" organized by the Department of Garo, NEHU, Tura Campus from 26th July to 5th August, 2022.
- 11. Chairman of "Certificate Course in Soft Skill, Personality Development and Basic Computer Skills" organized by the Department of Garo, NEHU, Tura Campus from 12th August to 12th September, 2022.
- 12. Chairman of "2-day Regional Seminar on Garo Language, Literature and Culture" organized by the A chik Literature Society in collaboration with theDepartment of Garo, NEHU, Tura Campus on 21st and 22nd October, 2022.
- 13. Chairman of Workshop on: "Applications of Artificial Intelligence in Healthcare" organized

- by Dept. of Computer Application, NEHU, Tura Campus during 19th to 24th September, 2022.
- 14. Chairman of "Start up & Entrepreneurs Exhibition 2023" organized by Biotech KISAN Hub, NEHU, Tura Campus, Meghalaya on 20th March, 2023 at NEHU, Tura Campus, Meghalaya.
- 15. Chairman of "Capacity Development Programme for Entrepreneurship Development" organized by Biotech KISAN Hub, NEHU, Tura Campus, Meghalaya on 20th March, 2023 at NEHU, Tura Campus, Meghalaya.
- 16. Chairman of "Training cum input distribution programme for farmers" organized by Biotech KISAN Hub, NEHU, Tura Campus, Meghalaya on 11th March 2023 at Cherong SHG, Katuli Walkamgre, South West Garo Hills, Meghalaya and at Bandalkona Training Centre, South West Garo Hills, Meghalaya.
- 17. Chairman of "Training cum planting material distribution programme for farmers" organized by Biotech KISAN Hub, NEHU, Tura Campus, Meghalaya on 23rd March 2023 at village, Darechikgre, Block: Rongram, Meghalaya.
- 18. Chairman of "Village adoption and Entrepreneurship Development programme" organized conducted and organized by Biotech KISAN Hub, NEHU, Tura Campus, Meghalaya on 8th December, 2022.
- 19. Signed MoA on behalf of NEHU Tura Campus with Darechikgre Village on 8th December 2022 **Dr. R. Sangma**
- 1. Reviewer, Fazl Ali College Journal, Nagaland **Dr. N. Pathak.**
- 2. N. Pathak. Invited as a Resource Person in an Azadi ka Amrit Mahotsav session on '*Poetry and patriotism*' organized by Publication Board, Assam and Down Town University, Guwahati on 9th August, 2022.
- 3. Reviewer of *Drishti: The Sight*, Reviewer of *DUJES*, Reviewer of *The Transcript* etc.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

Details of Faculties	Name		1	S. Gurudev	D. Sharma	R. Sangma	N. Pathak	L. K. Gracy
raculues	Date of Joining		2	6.6.1996	27.6.2012	20.4.2009	7.8.2012	16.4.2013
	Field of		3	American	Indian	Post	IWE and	British
	specialisation			Literature,	English	Colonial	Performan	Fiction &
	specialisation			Modern	Literature,	Studies;	ce Studies	Poetry
				British	Literary and	Cultural	ec Studies	Today
				Literature	Cultural	Studies		
				Literature	Theory	Studies		
(A)	UG		4	8	12	10	2	12
Teaching	PG, including PhD		5	27	13	14	10	10
Experienc	, 8							-
e (in								
Years)								
	Basic Research		6	Yes	Yes	Yes	Yes	Yes
	Applied Research		7	-	-	-	-	-
	Action Research		8	-	-	-	-	-
	Project Submitted		9	-		2	-	1
	Ongoing Project		10	-		2	-	1
	Research Paper in	Group I	11	-	1	-	1	-
	UGC care list	Group II	12	-	1	-	1	-
	journals							
(D)	Books /Books	Books	13	-		1	1	-
(B)	chapters Published	Book	14	-	3			1
Research activities		Chapters						
activities	Popular Articles		15	-	-	-	6	-
	(News Paper/							
	Magazines)	27 1 1	1.5				1	
	Seminar /	National	16	-	-	-	2	-
	Conference/	International	17	-	-	-		-
	Symposia							
	organized	National	1.0		2	2		1
	Seminar / Conference/		18 19	-	2	3	3	1
		International	19	-	-	-	-	-
	Symposia attended							
	Conference		20	_	_	_	_	_
	Proceedings		20	_				_
	Consultancy		21	_	_	_	-	-
(C)	Applied		22	_	_	-	-	_
Patent								
1 dtClit	Published		23	-	-	-	-	-
	Granted		24	_	_	_	_	_
	MOOC/SWAYA		25	-	-	-	-	-
(D)	M/ E-content		43	_	1 -	-	-	I -
E-Content	developed							
	Teaching		26	_	Yes	_	_	_
	/Extension		20		103			
	/outreach activities							
	Responsibilities		27	19	Head of the	Yes	Yes	Yes
(E)	other than teaching				Department			
Any Other	Awards/ Honours/		28			Yes	Yes	-
	Recognition/							
	Membership/							
	Fellowship							
	Collaborations	National	29	-	-	-	Yes	-
		International	30	-	-	-	-	-
	ı		1	1	1	1	1	ı

DEPARTMENT OF GARO

Head: :Dr. (Mrs.) Jacqueline R. Marak **Mobile:** + **91-**9436108468 (M)

E-mail: hodgaro@nehu.ac.in; garodeptnehu@gmail.com

Faculty Profile

Designation	Name and Qualification	Specialization		
	Prof. Fameline K. Marak, M.A. (Socio.)	Traditional & Modern Poetry,		
Professor	NEHU & PhD. (NEHU)	Folk Literature &Garo Folklore		
	Dr. Jacqueline R. Marak, M.Ed (Utkal)	Garo Literature, Fiction, Drama,		
Associate	PhD. (NEHU)	Literature in Translation		
Professor	Dr.Dokatchi Ch. Marak, M.A.(Garo&	Linguistics		
	Linguistics) & Ph.D. (NEHU)			
Assistant	Dr. Crystal Cornelious D. Marak, M.A.	Garo Literature, Literature in		
Professor	(Garo) & Ph.D. (NEHU)	Translation, Environmental		
		Studies and Fictional 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 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 Seminars, workshops and training on traditional skills and knowledge are conducted Department. regularly in the 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.

Students' Profile

- > Enrolment Capacity: MA:33, Ph.D.: Variable
- > Enrolment of students from different States of India and Abroad

	Gen		ST		SC		OBC	7	EWS	3	TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	-	-	2	-	-	-	-	-	-	-	2
Meghalaya	-	-	13	18	-	-	-	-	-	-	13	18
Sub Total	-	-	13	20	-	-	-	-	-	-	13	20
Total	-		33	-	-		-		-		33	-

Degrees Awarded

- > Degree:M.A.:34 M.Phil. :2, Ph.D.: 5
- > Degrees Awarded to students from different States of India and Abroad (M.A)

	Gen	Gen			SC		OBC PW		PWD)	TOT	TOTAL	
STATES	M	F	M	F	M	F	M	F	M	F	M	F	
Assam	-	2	-	-	-	-	-	-	-	-	-	2	
Meghalaya	-	-	7	25	-	-	-	-	-	-	7	25	
Sub Total	-	2	7	25	-	-	-	-	-	-	7	27	
Total	2		32		-		-		-		34		

> Degrees Awarded to students from different States of India and Abroad (M. Phil)

	Gen		ST		SC		OBC	7	EWS	5	PWD		TOT	ΆL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Total	-		2		-		-		-		-		2	

Name of Student	Title of Dissertation	Name(s) of
		Supervisor(s)/
JakmatchiM.Sangma	Achik Machong: Jarikaniaro Uni	Dr.JacquelineR.Marak
	Gamchataniko Sea Jotao Pangchake Niani	
Christina D.Snagma	Wangalao Nangchapgipa Minga-Ring	Prof.
	anirangko Amsandia	FamelineK.Marak

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC	7	EWS	5	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	3	2	-	-	-	-	-	-	-	-	3	2
Total	-		5		-		-		-		-		5	

Name of	Title of Thesis	Name(s) of Supervisor(s)/
Student		Joint Supervisor
Bellvydha S.	Religion in A·chiks Folk Literature: An	Prof. Fameline K. Marak
Momin	Analytical Study.	
Rinkle M. Marak	Material Culture of the A-chiks: A Study	Prof. Fameline K. Marak
	of its Significance and Transmission.	
Colnat B. Marak	A·chik Houses as Cultural Narratives	Prof. Fameline K. Marak
Bilnang K.	A Descriptive Study of the Dual Variety	Dr.Dokatchi Ch. Marak
Sangma	of A·chik	
Cassie Neelam	KattaAgana: A Study of Select A·chik	Prof. Fameline K. Marak
M. Momin	Epic	

Placement of Students

Name of the	Name of the	Post Held	Place of Work
Student(s)	Programme		
Sengsime A. Sangma	Assistant Professor	Tura	AbongNoga College, Tura
Christina D. Sangma	Assistant Professor	Tura	AbongNoga College, Tura

Students Selected for Higher Studies

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
Christina D. Sangma	Ph.D.	Department of Garo, NEHU,	India
		Tura Campus, Tura	
Jakmatchi M. Sangma	Ph.D.	Department of Garo, NEHU,	India
		Tura Campus, Tura	
Salning R. Sangma	Ph.D.	Department of Garo, NEHU,	India
		Tura Campus, Tura	
Thamalisha W. Sangma	Ph.D.	Department of Garo, NEHU,	India
		Tura Campus, Tura	
Nambebalche S. Sangma	Ph.D.	Department of Garo, NEHU,	India
_		Tura Campus, Tura	

Research Fellowship

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	NFST
	01				01

Fieldwork/Educational Tour of Students:

(a) Fieldwork of the 4th Semester students:

Teacher-in-charge: Prof.J.Marak

Places/Institutions visited: Balpakram, South

Garo Hills, Meghalaya

Duration of the tour/trip: 4 days (20th to 23rd

April, 2023)

Purpose of Tour: The purpose of the fieldwork was to collect folklore materials in connection with

Course No. GAR: C 402- Folklore II.

(b) Educational Tour of the 3rd Semester Students

Teacher-in-Charge: Yankitina Goldiva D. Sangma

Places/Institutions Visited: Kolkata: Science City, Victoria Memorial, Eco-Park, Wax Musuem, Birla Planetarium, St. Paul Church, AliporeZoological Garden.

Sikkim: Nathula pass, Gangtok City, Banjhakri Falls, Namchi, Ravangla, Char Dam, Buddha Park, Rumtek Monastery

Duration of Tour (Dates and number of days): 18 days (6th January, 2023 to 18th January, 2023) **Purpose of Tour:** The purpose of the Academic tour was to provide opportunities to the students to

learn new experiences and knowledge by visiting Educational Institutions and Historical places.

Courses Conducted

> Postgraduate – M. A. (Garo)

Semester I (NEP2020): History of Garo Language and Literature, Traditional Poetry, Introduction to Linguistics, Folklore – I & Environmental Studies.

Semester II (NEP2020): Fiction- I, Drama – I, Literary Theory and Criticism, Literature in Translation, Research Methodology & Proposal Writing, Ethnographic and Computational Studies Semester III (CBCS): Literary Theory & Criticism, Epic, Drama II, Linguistics IV & Folklore I

Semester-IV (CBCS): Poetry II, Folklore II, Tragedy, Indian Literature in English and in Translation & Poetry III

> PhD Course work

Research Methodology, Literary Themes, Literary Theory and Criticism, Language and Folklore, Seminar Paper-Literature Review & Research Paper and Presentation, Research and Publication Ethics

Seminars/Conferences/Workshops/Symposia/E xtension Programmes

- 1. National Seminar on "Women & Poetry" organized by Department of Garo in collaboration with All India Poet Conference AIPC on 29th 30th April, 2022.
- 2. Ten Day Workshop on "Loin-loom Training, An Entrepreneurial Initiative to Learn and Preserve Traditional Garo Weaving" organised by Department of Garo on 26th July 5th August, 2022.
- 3. Certificate Course in "Soft Skill, Personality Development and Basic Computer Skills" organized by Department of Garo, NEHU Campus, Tura from 12th August-12th September, 2022
- 4. Two Day Regional Writers' Workshop A·chik Literature Society was organized at Mendipathar College, North Garo Hills in collaboration with the Department of Garo, NEHU Tura Campus, Tura and Department of Garo, Mendipathar College on the 26th and 27th August, 2022.
- 5. One Day Programme on Promotion and Preservation of Language & Literature Organised

- by Department of Garo, NEHU, Tura Campus, Tura on 19th September, 2022.
- 6. Two Day Regional Writers' Meet organized by the A chik Literature Society, Tura in collaboration with Department of Garo NEHU, Tura with Don Bosco College of Teacher Education, Tura from 14th 15th October, 2022.
- 7. Two Day Regional Seminar on Language, Literature and Culture organized by the A-chik Literature Society, Tura in collaboration with Department of Garo on 21st – 22nd October, 2022.
- 8. International Mother Language Day organized by the A·chik Literature Society, Tura in collaboration with Department of Garo, NEHU, Tura Campus, Tura on 21st February, 2023.
- 9. The National Seminar on "Language, Literature and Culture" organized by the A chik Literature Society, Tura, in collaboration with the Department of Garo, NEHU Tura Campus, concluded with a Valedictory function at the NEHU Tura Campus premises on 22nd February, 2023.
- 10. Regional Workshop on Traditional Musical Instruments and Performing Arts organized by the A·chik Literature Society, Tura in collaboration with Department of Garo, NEHU, Tura Campus, Tura on 27th 31st March, 2023.

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	3.0

Seminar/Conference/Symposium/Extension Programme etc.

Dr. Jacqueline R. Marak

- 1. Presented paper on "A·chikMe·chikPoedo SegiparangniGisikni Gita JanggiTangani"in National Seminar on *Women and Poetry* organized by Department of Garo in collaboration with All India Poet Conference AIPC on 29th 30th April, 2022.
- 2. Attended a Ten Day Workshop on "Loin-loam Training, An Entrepreneurial initiative to learn and preserve Traditional Garo Weaving" organised by Department of Garo on 26th July 5th August, 2022.
- 3. Attended Certificate Course in Soft Skill, Personality Development and Basic Computer

- Skills organized by Department of Garo, NEHU Campus, Tura from 12th August-12th September, 2022
- 4. Presented paper on "Prose Writing" in *A Two Day Regional Writers Workshop* organized by Department of Garo in collaboration with A·chik Literature Society, Tura on 26th -27th August, 2022.
- 5. Talk on the "Preservation and Promotion of Mother Language and its Importance" in One Day Programme on *Promotion and Preservation of Language & Literature* Organised by Department of Garo with Achik Literature Society, Tura on 19th September, 2022.
- 6. Presented a self-composed poem "Da·nangMe ·chik" at the *Two Day Regional WritersMeet* organized by A·chik Literature Society, Tura in collaboration with Department of Garo NEHU,

- Tura and Don Bosco College, Tura on 14th 15th October, 2022.
- Presented paper on "A·chikAgan-Meaparang oA·chikrangniJanggitangbewal/dakbewalkoMeso kani"in A Two Day Regional Seminar on Language, Literature and Culture organized by Department of Garo in collaboration with A·chik Literature Society, Tura on 21st 22nd October, 2022.
- 8. Presented paper on "JakkalronggijagipaA-chikkuKattarang" in *International Mother Language Day* organized by Department of Garo in collaboration with A-chik Literature Society, Tura on 21st February, 2023.
- 9. Presented a paper on "KringDakmesokanioA chikDakbewalkoMesokani" at the National Seminar on *Language, Literature and Culture* organized by the A-chik Literature Society, Tura, in collaboration with the Department of Garo, NEHU Tura Campus, on 22nd February, 2023.
- 10. Attended the *International Women's Day*or ganised by the Department of Garo, NEHU, Tura in collaboration with AIPC, Tura on 8thMarch, 2023.
- 11. Attended the *Regional Workshop on Traditional Musical Instruments and Performing Arts* organized by Department of Garo in collaboration with A·chik Literature Society, Tura on 27th 31st March, 2023.

Prof. Fameline K. Marak

- 1. Attended the National Seminar on *Women and Poetry* organized by Department of Garo in collaboration with All India Poet Conference (AIPC) on 29th& 30th April, 2022.
- 2. Resource Person in a*Three-Day International Literature Festival* organised by the Ministry of Culture, Government of India and SahityaAkademi at Shimla, Himachal Pradesh, on 17th and 18th June, 2022.
- 3. Resource Person in a *Two Day Regional Writers' Workshop* of the A•chik Literature Society (ALS), Tura organized in collaboration with Department of Garo, NEHU, Tura Campus, Tura & Department of Garo, Mendipathar College, North Garo Hills at Mendipathar College, North Garo Hills, Meghalayaon 26th & 27th August, 2022.
- 4. Resource Person in the Certificate Course in Soft Skill, Personality Development and Basic Computer Skills organised by the Department of Garo, NEHU, Tura Campus, Tura during 12th August 12th September, 2022.
- 5. Resource Person in a One Day Programme on Promotion and Preservation of Language &

- Literature organised by Department of Garo, NEHU, Tura in collaboration with A-chik Literature Society (ALS), Tura on 19th September 2022.
- 6. Resource Person in the *Regional Writers' Workshop* organised by Durama College, Tura in collaboration with Achik Literature Society (ALS) Tura at Durama College, Tura.on 29th September, 2022.
- 7. Resource Person in 16th Transcontinental All India Poetess Conferenceheld on 1st 14th November, 2022 at Istanbul Turkey.
- 8. Attended as Resource Person in the *2 Day Regional Writers' Meet* organized by A·chik Literature Society (ALS), Tura in collaboration with Department of Garo NEHU, Tura and Don Bosco College, Tura on 14th& 15th October, 2022 at Don Bosco College of Teachers' College, Tura.
- 9. Attended in the *International Mother Language Day* organized by Department of Garo in collaboration with A·chik Literature Society (ALS), Tura on 21st February, 2023 at Tura.
- 10. Attended *International Women's' Day* organised by the Department of Garo, NEHU, Tura in collaboration with AIPC, Tura on 8thMarch, 2023.

Dr. Dokatchi Ch. Marak

- Presented paper on "Contribution of Garo Women to the growth & Development of Garo Poetry" in National Seminar on Women & Poetry organized by Department of Garo in collaboration with All India Poet Conference AIPC on 29th – 30th April, 2022
- 2. Attended a Ten Day Workshop on Loin-loom Training, An Entrepreneurial initiative to learn and preserve Traditional Garo Weaving organised by Department of Garo on 26th July 5th August, 2022.
- 3. Delivered a talk on the topic "Importance of Research" at a *Two Day Regional Writers' Workshop* organized by Department of Garo in collaboration with A·chik Literature Society, Tura on 26th -27th August, 2022.
- 4. Delivered a talk on the "Importance of Language in Research" at the *Regional Writers Workshop* at Durama College on 29th September, 2022
- 5. Attended Certificate Course in *Soft Skill, Personality Development and Basic Computer Skills* organized by Department of Garo, NEHU Campus, Tura from 12th August-12th September, 2022.
- 6. Talk on the "Promotion and Preservation of Mother Tongue" in 1 Day Programme on *Promotion and Preservation of Language & Literature* organised by Department of Garo with

- A·chik Literature Society, Tura on 19th September, 2022.
- 7. Talk on the topic *Field Research* at the 2 Day Regional Writers' Meet organized by A·chik Literature Society, Tura in collaboration with Department of Garo NEHU, Tura and Don Bosco College, Tura on 14th 15th October, 2022.
- 8. Presented paper on *D.S. Rongmuthuni* Sechimonggimin Apasong Aganao Seani Bewalaro Katta Jakkalaniko Niani in 2 Day Regional Seminar on Language, Literature and Culture organized by Department of Garo in collaboration with A-chik Literature Society, Tura on 21st 22nd October, 2022.
- 9. Presented paper "A·chik Me·chikrangni Jatninama Dakbewal rangko Ripingna Ja·kuDe·ani"in the *International Mother Language Day* organized by Department of Garo in collaboration with A·chik Literature Society, Tura on 21st February, 2023.
- 10. Talk on the topic "DigitALL: Innovation and Technology for Gender Equality at all India Radio Tura" on *International Women'sDay* on 8th March 2023.
- 11. Attended Regional Workshop on Traditional Musical Instruments and Performing Artsorganized by Department of Garo in collaboration with A·chik Literature Society, Tura on 27th 31st March, 2023.

Dr. Crystal Cornelious D. Marak

- 1. Attended the National Seminar on *Women and Poetry* organized by Department of Garo in collaboration with All India Poet Conference AIPC on 29th 30th April, 2022
- 2. Attended a Ten Day Workshop on *Loin-Loom Training, An Entrepreneurial Initiative to Learn & Preserve Traditional Garo Weaving* organized by Department of Garo, NEHU Tura Campus, Tura from 26th July -05th August, 2022
- 3. Resource person at the *Regional Writers' Workshop* of the A·chik Literature Society was organized at Mendipathar College, North Garo Hills in collaboration with the Department of Garo, NEHU Tura Campus, Tura and Department of Garo, Mendipathar College on the 26th and 27th August, 2022.
- 4. Attended the Certificate Course in Soft Skill, Personality Development and Basic Computer Skills organized by Department of Garo, NEHU Campus, Tura from 12th August-12th September, 2022

- 5. Attended the *Programme onPromotion and Preservation of Language & Literature* organized by Department of Garo, NEHU Tura Campus, Tura on 19th September, 2022.
- 6. Presented a self-composed poem "Nang·na" at the *Two- DayRegional Writers' Meet* organized by the A·chik Literature Society, Tura in collaboration with Department of Garo, NEHU Tura Campus, Tura at the Seminar Hall, Don Bosco College of Teacher Education, Tura from 14th -15th October, 2022.
- 7. Presented a paper on "A Study of Two Garo Novels DonnugiminDosi (2013), and DelhiniMe·tra (2016)" at a Two-day Regional Seminar on Garo Language, Literature and Culture organized by the A·chik Literature Society in collaboration with the Department of Garo, NEHU, Tura Campus on 21st and 22nd October, 2022.
- 8. Presented a paper on "A study on the Garo novels by Barnath A. Sangma and Ethelbirth A. Sangma" at the National Seminar on *Language*, *Literature and Culture*organized by the A chik Literature Society, Tura, in collaboration with the Department of Garo, NEHU Tura Campus, on 22nd February, 2023.
- 9. Attended the Regional Workshop on Traditional Musical Instruments and Performing Art organized by the A·chik Literature Society(ALS), Tura in collaboration with Department of Garo, North Eastern Hill University(NEHU), Tura Campus from 27th -31st March, 2023.
- 10. Attended as the General Council Member, the Annual Festival of Letters of the Akademi at New Delhi, from 11-14 March 2023.

Other Activities/achievements

Prof. Fameline K. Marak

- 1. Delivered a Key Note address on "Performing Folk Arts" on the inauguration day of the *Certificate Course in A-chik Folk Arts (CAFA)* on 8th September, 2022 at Don Bosco Degree College, Tura
- 2. Delivered a key note address at the Two *Day Regional Writers' Meet* organized by A·chik Literature Society (ALS), Tura in collaboration with Department of Garo NEHU, Tura & Department of Garo, Don Bosco College, Tura on 14th& 15th October, 2022 at Don Bosco Degree College, Tura.

3. 'Blessed Lady of Our Time' award/recognition given by All India Poetess Conference on 4th November, 2022 during 16th Transcontinental All India Poetess Conference (AIPC) at Istanbul, Turkey.

Dr. Crystal Cornelious D. Marak

1. Resource person at the 3- Day Regional Writers' Workshop organized by the A-chik Literature Society, Tura in collaboration with the Department of Garo, Don Bosco College, Tura

- from $8^{th} 10^{th}$ September, 2022 at Don Bosco College, Tura.
- 2. Delivered a talk on "Literature in Tribal Languages: Quest for Identity" at the *Tribal Writers' Meet* organized by SahityaAkademi at New from 13th -14th March, 2023
- 3. Resource person at the *Regional Writers' Workshop* organized by the A·chik Literature Society, Tura in collaboration with the Durama College, Tura on 29th September, 2022 at Durama College, Tura.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

Details of Faculties	Name		1	Dr. Jacqueline R. Marak	Prof. Fameline K. Marak	Dr.Dokatchi Ch. Marak	Dr. Crystal Cornelious D. Marak
	Date of Joining		2	01.06.1996	01.06. 1996	12t.04.02	09.08.2012
	Field of specialisation		3	Fictional Studies, Drama, Literature	Traditional Poetry, Oral Literature, Modern Poetry, A·chik Folklore, Epic, Cultural studies.	Linguistics	Garo Literature, Literature in Translation, Environmental Studies and Fictional Studies
(A)	UG		4				
Teaching Experience (in Yrs)	PG, including PhD		5	27 years	27 years	21 years	11 years
	Basic Research		6	Yes	Yes	Yes	Yes
	Applied Research		7	-	-	-	-
	Action Research		8	-	-	-	-
	Project Submitted		9	-	-	-	-
	Ongoing Project Research Paper	C I	10	-	-	-	-
	in UGC care list journals	Group I Group II	12	-	-	-	-
	Books /Books	Books	13	_	-	_	_
(B) Research	chapters Published	Book Chapters	14	-	-	-	-
activities	Popular Articles (News Paper/ Magazines)		15	2	-	2	-
	Seminar /	National	16	2	2	2	2
	Conference/ Symposia organized	International	17		2	-	-
	Seminar /	National	18	3	3	3	3
	Conference/ Symposia attended	International	19	-	-	-	-
	Conference Proceedings		20	-	-	-	-
	Consultancy		21	-	2 on-going	-	-
	Applied		22	-	-	-	-
(C) Patent	Published		23	-	-	-	-
1 atent	Granted		24	-	-	-	-
(D) E-Content	MOOC/SWAYA M/ E-content developed		25	-	-	-	-
	Teaching /Extension /outreach activities		26	Yes	Yes	Yes	Yes
(E) Any Other	Responsibilities other than teaching		27	Yes	Yes	Yes	yes
	Awards/ Honours/ Recognition/Mem bership/ Fellowship		28	Yes	Yes	Yes	Yes
	Collaborations	National	29	Yes	Yes	Yes	Yes
		International	30	-	-	-	-

DEPARTMENT OF HINDI

Head: Prof. H. K. Mishra **Telephone:** 0364-2723514, 2723515

E-mail: hodhin@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
	Dr. M. P. Pandey, M.Phil. & Ph.D.	Criticism & Poetics
	(MGKV, Varanasi)	
	Dr. D. K. Choubey, M.A. (Gauhati Univ.)	Medieval Literature &
Professor	Ph.D.(Manipur Univ.)	Comparative Study
	Dr. B. P. Tripathi	Contemporary Hindi Poetry
	M. Phil & Ph. D, (JNU)	
	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 and Achievements

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.

Students' Profile

- > Enrolment Capacity: M. A.: 69,Ph.D.: Variable
- > Enrolment of students from different States of India and Abroad (M. A.)

	Gen		ST	ST			OBC		TOTA	AL
STATES	M	F	M	F	M	F	M	F	M	F
Arunachal	-	1	-	-	-	-	-	-	-	1
Pradesh										
Assam	3	19	-	2	-	1	-	-	3	22
Bihar	1	-	-		-	-	-	-	1	-
Manipur	-	-	-	1	-	ı	-	-	-	1
Meghalaya	-	2	1	7	-	ı	-	-	1	9
Uttar Pradesh	1	-	-	-	-	ı	-	-	1	
Sub Total	5	22	1	10	-	1	-	-	6	33
Total	27 11		11	11		1		-		

> Enrolment of students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC	OBC		EWS		PWD		AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal	-	-	1	-	-	-	-	-	-	-	-	-	1	
Pradesh														
Assam	-	1	-	-	-	-	-	-	-	-	-	-		1
Bihar	1	-	-	-	-	-	-	-	-	-	-	-	1	
Meghalaya		-	2	-	-	-	-	-	-	-	-	-	2	
Uttar Pradesh	1	_	-	-	-	-	-	-	-	-	-	-	1	
Total	3 3							-				6		

Degrees Awarded

> M. A.:30, Ph.D.: 04

> Degrees Awarded to students from different States of India and Abroad (M. A.)

	Gen	1		ST		SC		OBC			TOTA	A L	
STATES	M	F	M	F	M	F	M	F	M	F	M	F	
Arunachal	-	-	3	3	-	-	-		-	-	3	3	
Pradesh													
Assam	1	8	-	-	-	-	-	6	-	-	1	14	
Bihar	-	1	-	-	-	ı	-		-	_		1	
Meghalaya	-	-	1	7	-	-	-		-	-	1	7	
Sub Total	1	9	4	10	-	-	-	6	-	-	5	25	
Total	10	10		14		-		6		-		30	

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Uttar Pradesh	4	-	-	-	-	-	-	-	-	-	-	-	4	-
Sub Total	4	-	-	-	-	-	-	-	-	-	-	-	4	-
Total	4		-		-		_		-		-		4	

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/
Mr.Alok Singh	'PushpadantVirachitMahapurankaSamajik-	Prof. M. P.
	SanskritikPariprekshya: AlochanatmakAdhyayan'	Pandey
Mr.Kuldeep Singh	EkkisavinSadike Hindi Dalit	Prof. B. P.
	UpanyaskaronkeUpanyasonmeinSamajikChetana'	Tripathi
Mr.PramodRajbhar	'PaumChariumeinAbhivyaktSamaj –Darshan:	Prof. M. P.
	EkVishleshnatmakAdhyayan'	Pandey
Mr.Hemant Prasad	Hindi AlochanakeVikasmeinKashikaYogdan'	Prof. D. K.
Nishad		Choubey

Research Fellowship

UGC-	UGC NET	Rajiv Gandhi National	Meritorious	Maulana Azad National	ICSSR
NET	&JRF	Fellowship (SC/ST)	Fellowship	Fellowship	
09	07	-	-	-	01

Courses Conducted

> Postgraduate – M. A. (Hindi)

Semester I (NEP-2020): Hindi Sahitya kaItihaas (Aarambha se reetikaalTak), Madhyakaleen Hindi Kavya, BharteeyKavyashastra, Hindi Katha Sahitya, Hindi Vyakaran evm Prayojan Moolak Hindi

Semester II (NEP-2020): BhaktikalinKavya, BhartyaKavyashastra-II, Hindi GadyaSahitya-II (UpanyasevamKahani), AadikalinKavya, Prayojanmoolak Hindi

Semester III (CBCS): Hindi Sahityaka Madhayakal, Ritikaleen Kavya, Hindi Natak, Anuvad-Sidhant evam Vyawhar, LokSahitya

Semester-IV (CBCS): Hindi Sahityaka Aadhunikkal, Chhayavadottar Kavya, Paschatya

Sahityalochana evam Hindi Aalochana, BhashaVigyan, Hindi Nibandh

> PhD Courses

Anusandhan ki Pravidhiaur Prakriya, Hindi Sahityaki Vaicharik Prishthbhoomi, SangosthievamSamiksha

Seminars/Conferences/Workshops/Symposia/E xtension Programmes

National Seminar: 02

- 1. 'BharteeyaBhashaonmeinShodhevmAkadamiLe khan' organized in collaboration with BharteeyBhashaSamiti,,Ministry of Education, New Delhi on 2-3 March 2023 in U Kiang Nongbah Guesthouse, NEHU.(Coordinator: Prof B.P.Tripathi)
- 2. 'SahityevmSamajmeinManavAdhikaarkeVividh Pariprekshya' organized in collaboration with National Human Rights Commission, New Delhi on 31st March & 1st April 2023 in U Kiang Nongbah Guesthouse, NEHU (Coordinator: Prof D. K. Choubey).

Regional Seminar: 02

- 1. 'VibhajankiTrasadi organized by Department of Hindi, NEHU on 12th October 2022 in U Kiang Nongbah Guesthouse, NEHU (Coordinator: Prof H.K.Mishra).
- 2. *'Premchand: ShodhaurSambhavnayein'* organized by Department of Hindi, NEHU on 27th October 2022 in U Kiang Nongbah Guesthouse, NEHU (Coordinator: Prof H.K.Mishra).

Invited Lecture: 02

- 1.A lecture on the topic 'Rastriya VikaskeSandarbhmein HindiBhashakaMa hatva' was delivered by Dr. Ashok Kadel, Director, Madhya Pradesh Hindi Granth Academy, Bhopal. On 26th September 2022 (Coordinator: The Head, Prof H.K.Mishra).
- 2. A lecture on the topic 'Samachar-Lekhan'was delivered by Shri HarendraPratap Singh, Joint Director, I.E.D.S., Govt. of India, New Delhi on 14th October 2022 (Coordinator: The Head, Prof H.K.Mishra).

Publications

Books: 02

- 1. Pandey, MP, 'Meghalaya ki Lok-Kathayein', ISBN 978-93-5521-051-7, Published by Prabhat Paperbacks, New Delhi.
- 2. Tripathi, BP, 'Thaka Suraj Chamakatahai', ISBN-978-93-92581-19-9, (2022): New Delhi (Poetry): Pustaknama, Ghaziabad, 201002.

Edited Books: 02

- 1. Choubey, D K, Shaw, S K, editors (2023). *VaividhyapurnaPurvottar Bharat*, Yash Publishers and Distributers, New Delhi, ISBN-978-93-85696-03-9.
- 2. Tripathi, BP, (2023) *LokSttakePrahari*:, Shilpayan Publishers and distributers, Shahadara, Delhi -110032: Total No. of pages- 223 (ISBN-978-93-92195-09-9)

> Book Chapters: 04

- 1. Pandey, M.P.(2023). 'Stri-Vimarsh banam Bharat meinStriyonkaChehara', in *Stri-Mukti: YatharthaurYoutopiya*, Ed. Rajiv Ranjan Giri, ISBN 978-93-90973-14-9.
- 2. Choubey, D. K.(2022) Chhayavad Ka Puunarpath , in *Asomiya Bhashamein Chhayavadi Kavya*', Ed.Rajesh Garg VaniPrkashnan Delhi, ISBN-978-93-55-184146, pp. 166-177.
- 3. Tripathi, B.P (2022) 'ManushyakiVikritiyonKeBhavishyaDarshi', in *Andhakarke us par*, Ed. Arunshitansh, Anand Prakashan Kolkata.ISBN 978-93-93378-03-3
- 4. Tripathi, B.P.(2022) 'NayiKhani Mein Premchand KaSankalp', in *Hindi KahaniVayaAlochana*, Ed. Nirajkhare, Lokabharati Prakashan, Nayi Delhi, ISBN 978-93-93603-19-7

> Research Papers: 03

- 1. Choubey, D. K.(2002). Arunachal Pradesh kiJanjatiyonmeinPrachalitRamkatha, *Annual. Bahuvachan*,Ed. Rajnishsh Kumar Shukla, (Jan-Dec 2021) MGAHV, Vardha, PrbhaatPrkashan, Delhi, (Issue- 68-69-70-71): 325-329.
- 2. Mishra, H. K. (2022). Santonki SamajikChetana, *Monthly. Shaikshik Manthan*.Ed. Rajendra Sharma, ISSN: 2581-4133, Issue 14(12): Page 59-61.
- 3. Mishra, H.K. (2023).Bharatiy Sanskritik Bahulata aur Poorvottar ki Bhashayen. *Annual*.

Bahubachan., Ed. Amit Viswas, ISSN - 2348-4586, Issue 68, 69, 70, 71: Page- 73-79.

> Popular Articles: 06

- 1. Choubey, DK.
 - 'SwadheenataAndolanmeinPurvottarKaSahityikY ogdaan' Samanvaya Purvottar, Central Hindi Institute, Dimapur Center, Issu-4, Oct-Dec 2022
- 2. Tripathi, BP. Gandhi se Bade Gandhi, *Srijan Sarokar*, New Delhi. Feb. 2022.

- 3. Tripathi, BP. Kavita Se Aage Kavi Ka Pata, *Anahad*, Gandhi Visheshank, Sept. 2022
- 4. Mishra, HK. BharatiyaNavjagarankaSitara, *Dainik Jagaran* Hindi Daily, 19 June, 2022.
- 5. Mishra, H.K. Virodh, Pradarshanaur Hinsaki Rajniti, *Dainik Poorvoday*, Hindi Daily, 23 June, 2022.
- 6. Mishra, H.K .Jati napuchhiye sadhu ki, *Sankalya*, Monthly, Editor: DrGorakhnath Tiwari, ISSN 2277-9264, October, 2022.

Funds received during 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
02	BharteeyBhashaSamiti, Lucknow, UP	2.94
03	Human Rights Commission, New Delhi	5.30

Seminar/Conference/Symposium/Extension Programme etc.

Prof M. P. Pandey

1. Attended and delivered a lecture on the topic 'Ramchandrika ke bahane Keshavdas' in an International seminar organized by Vidya-Shri Nyas, Varanasi on 13th&14th January, 2023.

Prof. Dinesh Kumar Choubey

- 2. Delivered a lecture on 'Aassam Mein Hindi shikasha Ka Itihas' Organized by Research Forum Madhya Kamrup College, Assam on 19.08.2022.
- 3. Delivered a lecture on 'purvottar Bharat mein Rajbhasha ki sthiti evam Chunautiyan' Organized by Central Sanskrit University at Eklarya Campus, Agartala on 06.09.2022.
- 4. Delivered a lecture on UGC HRDC Gauhati University, Guwahati on the topic "Comparative Literature: Swarup aur Vaishishtya in the NE Region India" on 31.10 -2022.
- 5. Delivered a lecture on 'Svadheenta Andolan mein Rashtriya Chetana Purvottar Bharat ka Sangharsh' Organized by Central Hindi Directorate, Delhi at Rajiv Gandhi University, Itanagar on 05.11.2022.
- 6. Paper Presented in two days' workshop 'shodhbhasha evamShabdavali ki samasyayen Evam Shamadhan' Organized by Bharatiya Bhashasamiti, MHRD Delhi and Dept. of Hindi, NEHU, Shillong on 02.03.2023.

Prof. Bharat Prasad Tripathi

- 1. Delivered a lecture on the topic 'Samkaaleen Stri Kavita' on 3rd April, 2022 organised by Gathantar Manch Uttar Pradesh.
- 2. Delivered a lecture on the topic 'Kavi Ki Samkaaleenta, on 23rd April, 2022, organised by Jan Sarokar Manch, Tonk- Rajasthan.
- 3. Delivered a lecture on the topic 'Bharatvarsh Men Bhasha ki Bhoomika' on 27th May, 2022 organised by JangadanaaKaryaaNideshalaya, aShillong-Meghalaya.
- 4. Delivered a lecture on the topic 'Prashasnik Kamkaj men Hindi Rajbhasha' on 16th Sept. 2022 organised by NERIE, Shillong:
- 5. Delivered a lecture on the topic 'Rajbhasha ki Upayogita' on 29th Sept. 2022 organised by Hindi Pakhwada Samaroh, NEEPCO, Shillong.
- Delivered a lecture on the topic 'Lambi Kavita Srijan Ki maanak Rekha' on 22nd January, 2023organised by Jansarokar Manch, Tonk-Rajasthan.

Prof. H.K.Mishra

1. Delivered a lecture in an International Seminar at Kamalabadi Satra, Majuli on 8-10 June, 2022 on the topic of "Bharatiya Bhakti aandolan mein Shrimant Shankardev ka Yogdan".

Honours/Awards/Recognition/Membership/ Fellowship

Prof. D K Choubey:

- 1. Member of Board of Study, Dept. of Hindi, Dibrugarh University Dibrugarh Assam.
- 2. Member of Hindi Advisory Board Ministry of Water Resources, Govt. of India, Delhi.
- 3. Member of Board of Study, Dept. of Hindi, Manipur University, Canchipur, Imphal.
- 4. Member of Board of Study, Dept. of Hindi, Assam University, Silchar, Assam

Prof. H.K. Mishra

- 1. Governing Body Member in NEGRIHMS, Shillong.
- 2. Member of Advisory Board of Ministry of Forestry, Environment and Climate Change, GOI.
- 3. Member: BOS Hindi, Tripura University, Agartala.
- 4. Member: BOS Hindi, Rajeev Gandhi University, Itanagar.

Other Activities

Prof. M.P. Pandey

 Chaired a session in a National seminar held on the topic 'Sahityaaur SamajmeinManav AdhikarkeVividh Pariprekshya' on 31st March &1st April 2023 organized by National Human Rights Commission, New Delhi in collaboration with Department of Hindi, NEHU.

Prof. Dinesh Kumar Choubey

- 1. Organized one day Yoga Lecture on 'Yoga and Health' Lecture delivered by Dr. Vijay Kumar (NEIHA, Shillong) on 09.03.2023
- 2. Organized three days Yoga Camp at Indoor Stadium, NEHU, Shillong, on 16.03.2023 to 18.03.2023
- 3. Attended as Chief Guest to Inauguration Programme of Central Hindi Institute Agra for BhashaSamvardhan in Oriental program on 02.03.2022.
- 4. Attended State Level Grants Committee meeting of Central Hindi Directorate Delhi at regional office Guwahati on 26.06.2022.
- 5. Attended the Meeting of Hindi advisory Committee of the ministry of Water Resources Govt. of India as Member at CGO Complex, Delhi on 15.06.2022.
- 6. Participated discussion on 'Vyvaharik Hindi ke Anupryog in North East region' by North East council Shillong on 07.09.2022

- 7. NACC Visit to Arts College Fatepura, Gujrat as Member Coordinator Peer Team from 13th to 14th Sept 2022.
- 8. Delivered lecture at BSNL NE Region, Shillong on Official Language implementation on 16.09.2022
- 9. Delivered lecture on importance of three language formula in the contacts of NE Region at Central Hindi Institute, Shillong Center on 21.09.2022.
- 10. Chaired the Convocation of Vaksetu (Translation) of Assam Rajya Bhasha Prachar Samiti at Guwahati, Science Auditorium on 08.11.2022.
- 11. Edited Magazine *Nehu Jyoti* (2022), NEHU, Shillong.
- 12. Visited to MAANU, Hyderabad as Member Coordinator, Peer Teem NAAC from 13.12.2022 to 15.12.2022.
- 13. Chaired the technical session on the topic "Purvottar Bharat ki Satatsvaadheen Chetana by Central Hindi Institute, Shillong Canter on 27.06.2022.
- 14. Workshop attended as an expert for 'Garo Folkore in Hindi at Central Hindi Institute, Agra from 18.07.2022 to 22.07.2022.
- 15. Workshop on 'Teaching and learning Khasi Language' organized jointly by Deptt. of Khasi & Hindi NEHU Shillong on 27.06.2022.

Prof. Hitendra Kumar Mishra

- 1. Chaired an online seminar on 24.05.2022 organised by Srijan Australia Global Foundation.
- 2. Delivered a lecture on 02.06.2022 in the refresher course in UGC HRDC, DDU Gorakhpur University, Gorakhpur on Research Methodology.
- 3. Delivered an inaugural lecture in a two days national workshop organised by MGNREC on 29-30 August, 2022, on the topic of Vocational Education, Experimental Learning and Skilling.
- 4. Delivered a lecture on the occasion of Hindi Diwas on 14th Sept, 2022 at KV NEHU, Shillong
- 5. Delivered a lecture on the occasion of Hindi Diwas on 14th Sept, 2022 at EFLU, Shillong.
- 6. Delivered the inaugural lecture on the occasion of Photo exhibition cum outreach programmeorganised by Central Bureau of Communication, Shillong on 29th Sept, 2022.
- 7. Delivered a lecture on the occasion of Hindi Pakhwada on 29th Sept, 2022 at Power Grid, Shillong.
- 8. Delivered a lecture in Hindi Pakhwada on 30th Sept, 2022 at NIFT, Shillong.

- 9. Delivered a lecture in Hindi Pakhwada on 30th Sept, 2022 at ICSSR, Shillong.
- 10. Delivered a lecture in Hindi Pakhwada organised by Hindi cell, NEHU on 12th Oct, 2022.
- 11. Delivered an inaugural speech in Refresher Course on Research Methodology at UGC-HRDC Jamia Millia Islamia University, New Delhi on 2nd Dec, 2022.
- 12. Delivered a lecture and chaired a session in a national Seminar on 4-5 February, 2023 organised by Bongaigaon College, Bongaigaon (Assam).
- 13. Delivered a lecture on NEP Implementation in NE in a national workshop in Tripura University, Agartala on 16-17 march, 2023.

- 14. Delivered a lecture in Majuli College, Majuli, Assam on 10th June, 2022 on Rashtriya Ekatmakatamein Hindi bhashakayogdan.
- 15. Attended a language learning workshop on 26.04.2022 in Khasi Department, NEHU
- 16. Attended a one day seminar on competition of India on 25th Feb, 2023 as coordinator

Prof. B. P. Tripathi

1. Recited poems in a Multi Lingual Writers Meet, organised by Sahitya Academy, New Delhi & Manipuri Sahitya Parishad on 17th Dec. 2022 in Old Guest House, NEHU.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

		HEET FOR THE			AI KIL 202		KC11 2023
Details of Faculties	1	Name		Prof. M. P. Pandey	Prof. D. K. Choubey	Prof. B. P. Tripathi	Prof. H. K. Mishra
1 dealties	2	Date of Joining		01.4.1997	30.01.2002	26.04.2002	01.05.2013
	3	Field of		Criticism	Medieval &	Contemporary	Hindi Journalism
	3	specialisation		& Poetics	Comparative	Hindi Poetry	& Modern
		specialisation		& I octics	Literature	11111di 1 octi y	Literature
(A)	4	UG			15		15
(A) Teaching	5	PG, including		26 Years	24	21	25
Experience	3	PhD		20 Years	24	21	23
(in Years)		מווח					
(III T cars)	6	Basic Research		Yes	Yes	Yes	Yes
	7	Applied		-	-	-	-
	'	Research		_	-	_	-
	8	Action Research					-
	9			-	-	-	
	9	Project		-	-	-	-
	10	Submitted					
	10	Ongoing Project		-	-	-	-
	11	Research Paper	Group I	-	-	-	-
(B)	12	in UGC care list	Group II	-	-	-	1
Research		journals					
activities	13	Books /Books	Books	1	1	2	-
activities	14	chapters	Book	01	1	2	-
		Published	Chapters				
	15	Popular Articles		-	1	-	3
		(Newspaper/					
		Magazines)					
	16	Seminar /	National	-	1	1	1
	17	Conference/	International	-			
		Symposia					
		organized					
	18	Seminar /	National	1	8	9	14
	19	Conference/	International	-	-	-	1
		Symposia					
		attended					
	20	Conference		-	-	-	-
		Proceedings					
	21	Consultancy		-	-	-	-
	22	Applied		-	-	-	-
	23	Published		_	_	-	-
(C)	23	rublished		-	-	-	-
Patent	24	Granted		-	-	-	-
(D)	25	MOOC/SWAYA		-	-	-	-
E-Content		M/ E-content					
E-Content		developed					
	26	Teaching		-	-	-	-
		/Extension					
		/outreach					
		activities					
(E)	27	Responsibilities		-	-	-	Head: Dept of
Any Other		other than					Hindi, & Director:
		teaching					UGC-HRDC
							NEHU
	28	Awards/		-	04	-	04
		Honours/					
		Recognition/					
		Membership/					
		Fellowship					
	29	Collaborations	National	-	-	-	-
	30		International	-	-	-	-
1		1					1

DEPARTMENT OF KHASI

Head: Prof. D.R.L Nonglait Telephone: +0364-2723301 (O) E-mail: hodkhasi@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization				
	Dr. S.Dkhar, M.A. (Khasi) (NEHU),	Khasi Drama, Khasi Culture,				
	M.Phil & Ph.D. (NEHU)	Khasi Poetry				
	Dr. A.Kharmalki, M.A.(Khasi) NEHU,	Language Teaching,				
	B.Ed.(NEHU), M.A. (Linguistics)	Translation, Sociolinguistics				
	Delhi University, M.Phil and PhD,					
Professor	(NEHU)					
	Dr. D.R.L.Nonglait, M.A. Khasi	Literary Theory and Criticism;				
	(NEHU), M.A. (Christian Stidies) IDE,	Postcolonial literature in Khasi,				
	University of Madras, M.Phil (NEHU),	Psychoanalytic studies in Khasi				
	PGDTE (EFL University), Ph.D	literary texts, Khasi Fiction				
	(NEHU).	-				
Assistant	Dr. B.Bairo, M.A. Khasi (NEHU), PhD	Khasi Fiction; Archetypal				
Professor	(NEHU)	Studies in Khasi Short Stories.				
	Dr. M.M.Khymdeit, M.A.Khasi	Khasi Poetry, Stylistics in Khasi				
	(NEHU), MPhil Folklore (GU), PhD	Poetry, Ecocriticism on Khasi				
	(NEHU)	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

The Department organized a workshop on "Teaching and Learning Khasi for the Non-Khasi Speakers" held on 26th April 2022 at the Non-Science Cluster Classroom Room 203, NEHU Shillong, ii) The Department organized a One Day

Seminar on "Ka Lyngwiar ïamir jingmut ha ka jingrakhe lyngkhuh snem ba sawphew wei jong ka Khasi Department" to commemorate the 41st Anniversary of the Department on the 29th September, 2022, iii) The Department organized a One-Day National Webinar on NEP 2020 on the theme "Languages, Culture and Values" jointly with UGC Human Resource Development Centre, North-Eastern Hill University, Shillong held on the 24th February, 2023, iv) The Department organizing a Special Lecture on the 23rd March, 2023, at the Auditorium of U Kiang Nangbah Guest House, NEHU, Shillong. The Lecture was delivered by eminent Educationist, Prof. Andrew May, School of Historical and Philosophical Studies, Melbourne University, Australia.

Students' Profile

- > Enrolment Capacity: M. A.:58, Ph.D.: Variable
- > Enrolment of students from different States of India and Abroad (M. A.)

			ST		SC		OBC		PWD		TOTAL	
STATES	M F		M	F	M F		M F		M F		M	F
Meghalaya	-	-	6	48	-	-	-	-	1	1	7	49
Total	-	•		54		-		-		2		•

> Enrolment of students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F

Meghalaya	-	-	4	4	-	-	-	-	-	-	-	-	4	4
Sub Total	_	-	-	-	-	-	-	-	-	-	-	-	1	-
Total	-		8		-		-		-		-		8	

Degrees Awarded

> M. A: 50, Ph.D:5

> Degrees Awarded to students from different States of India and Abroad (M. A.)

	Gen		ST		SC		EWS		PWD		TOTAL	
STATES	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	12	37	-	-	-	-	-	1	11	38
Total	-		49		-		-		1		50	

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Ger	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Meghalaya	-	-	2	3	-	_	-	_	-	_	-	_	2	3	
Total	-		5	•	-	•	-	•	-		-	•	5		

Name of Student	Title of Thesis	Name(s) of
		Supervisor(s)/
		Joint Supervisor
Ms.	Ka Bynta kaba Dum ha ka Mut ka Pyrkhat u	Dr. Bandarilin Bairo
Maybecalljane	Briew: Ka Bishar Bniah ïa ka Dur jong ka	
Marbaniang	Syrngiew kumba ka Paw ha ki Parom-Mutdur	
_	Ba La Jied.	
Mr. Walter	Ka jingling Kyrpang u Khasi: Ka Bishar Bniah	Prof. D.R.L.Nonglait
Thabah	ïa ka Poitri Khasi shuwa ka Jinglaitluid.	
Ms. Herina	Ka Kren ka Khana ha ki Dorbar: Ka Bishar	Prof. A.Kharmalki
Dohtdong	Bniah ïa ki Sawangka ba la jied.	
Ms.Dorismelincy	Halor kaba Mang Lypa bad ka Buit Pyntreikam	Prof. B.War
Byrsat	ïa ka Ktien: Ka Wadbniah halor ka Ktien Khasi	
	(Language Planning and Language Policy: A	
	Case Study of Khasi Language).	
Mr.Banniewkor	Ka Phawar bad ka Sur-Kynud jong ka: Ka	Dr. Marbhador
L.Nongbri	Bishar Bniah	M.Khymdeit
		(Supervisor)
		Dr. Lapynshai Syiem
		(Joint Supervisor)

Placement of Students

Name of the Student(s)	Post Held	Place of Work
Maybecalljane Marbaniang	Assistant Professor	Shillong College, Shillong.
Iateiskhem Kharsahnoh	Assistant Professor	Shillong College, Shillong

Students Selected for Higher Studies

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
Mr. Aiborlang Sylliang	Ph.D	Deptt. of Khasi, NEHU.	India
Mr. Bobby More Kharbani	Ph.D	Deptt. of Khasi, NEHU.	India
Mr. Remdor Lyngdoh	Ph.D	Deptt. of Khasi, NEHU.	India
Marshillong			
Ms. Evaliza Khongsit	Ph.D	Deptt. of Khasi, NEHU.	India
Ms. Lariti Lyngdoh	Ph.D	Deptt. of Khasi, NEHU.	India
Ms. Wadlang Mylliem	Ph.D	Deptt. of Khasi, NEHU.	India
Mr. Kolanjunes Diengdoh	Ph.D	Deptt. of Khasi, NEHU.	India
Ms. Pynkmenhunlang G.Sohtun	Ph.D	Deptt. of Khasi, NEHU.	India

Field Work/Educational Tour of Students

Teachers-in-Charge: Prof. S.Dkhar

Places/Institutions Visited: Delhi and Manali Duration of Tour (Dates and number of days): 5th-16th January, 2023; 12 days Purpose of Tour: As part of the course components on Environmental Studies and

Culture

Courses Conducted

> Postgraduate – M. A. (Khasi)

Semester I (NEP-2020): Khasi Linguistics I - Literary Theory and Criticism I; Khasi Drama I -; Khasi Poetry I Or MOOCs through SWAYAM -; Environmental Studies Or MOOCs through SWAYAM - Semester II (NEP-2020): Khasi Linguistics II - Literary Theory and Criticism II; Khasi Fiction II; Culture in Khasi Literature Lee MOOCs

Literary Theory and Criticism II; Khasi Fictio I; Culture in Khasi Literature I or MOOCs through SWAYAM; Research Methodology and Proposal Writing; Translation Studies

Semester III (CBCS):Khasi Linguistics-III; Literary Theory and Criticism; Environmental Awareness in Khasi Literature; Khasi Fiction-1; Literature in translation-1

Semester IV (CBCS): Khasi Linguistics IV; Khasi Poetry-III; Khasi Fiction II; Literary

Theory and Criticism IV; Aspects of Culture in Khasi Literature II

> PhD Courses

Research Methodology; Seminar Paper; Literary Theory and Criticism; Emerging Trends in Khasi Literature (Option B); Translation and Khasi Literature; Research and Publication Ethics

Seminars/Conferences/Workshops/Symposia/ Extension Programmes

- 1. Organized a One Day National Webinar on NEP2020 on the theme "Languages, Culture and Values" jointly organized by UGC-Human Resource Development Centre and Department of Khasi, NEHU, Shillong on the 24th February, 2023. (Coordinator- Dr.M.Khymdeit)
- 2. Workshop on "Teaching and Learning Khasi for the Non-Khasi Speakers" held on 26/4/22 at Non-Science Cluster Classroom Room 203, NEHU Shillong, organised by the Department of Khasi NEHU.(Coordinator-Prof.S.Dkhar)

Publications

> Research papers (4)

1. **Bairo**, **B**. (2022). Ka Jingkylladur ki sier kumba ka paw ha ka poim U Sier Lapalang. *Ka Thwet Jingstad (Quest for Knowledge)*, V (2): 36-39

- 2. **Dkhar, S.** (2023). A Translated Version of The Mahabharata in Khasi Part I. *The Light Ka Jingshai*, A Literary Journal, 4 (1):12-16.
- 3. **Dkhar, S.** (2023). Folklore of the Khasis. Folklore Studies in India Critical Regional Responses. 387-400
- 4. **Khymdeit, M M.** (2022). Ki Mat ba kongsan ba u Nongphawar u pynpaw lyngba ka Phawar. Thep-Mawbah ne 'Pepbah. *Ka Thwet Jingstad* (*Quest for Knowledge*), V (2): 40-46.

➤ Book Chapters (2)

- 1. **Dkhar, S.** (2022). Pankha Poems to Stir the Still Air. In A Pakha's Bond of Love. Compiled by J Das. Sahitya Akademi, New Delhi, ISBN: 978-93-5548-116-0 (pp. 115-116).
- 2. **Dkhar**, S. (2022). A translated version of three Khasi poems to Santhali "Ka Kyud Ïa Ki Para Kynthei", (An Ode to Women), "Ka Ïing jong ka Mariang" (Nature's Home) and "Ka Klop Bad ka Ngem" (The Corrupt). In *Onorhiya Kowak Arang* (*Voice of Poets*). *G.thakur(Ed)*. Dabanki, Manpur, Jamshedpur, ISBN: 978-93-95849-00-5 (pp. 140-142).

> Popular Articles (9)

- 1. Khymdeit, M. M. (2022). Ka jingshah pynjot ka mariang kumba ka paw ha ki poim jong u S.S.Majaw. In *The Light Ka Jingshai*, Vol.3, Issue 1 (pp. 21-23).
- Dkhar, S. (2022).Ki Kynthei bad ka Poitri: Ka Bishar ïa ki Poim jong ki myllung Kynthei Khasi ba la Jied (Women and Poetry: an analysis on the selected Poems of Khasi women poets). In the Souvenir of All India Poetess Conference 20th-21st National Mega Convention, Tura, Meghalaya.B.

- Sangma Ed).AIPC, Meghalaya (pp. 90-92). ISBN: 978-93-83508-03-7.
- 3. **Dkhar, S.** (2022). Who am I?. In the *Souvenir of All India Poetess Conference* 20th-21st National Mega Convention, Tura, Meghalaya. B. Sangma (Ed). AIPC, Meghalaya (p. 45). ISBN: 978-93-83508-03-7.
- 4. **Dkhar, S.** (2022).Ki Kjat Sngi ka Jingkyrmen. In *The Light, Ka Jingshai* Volume 3, Issue 2, (p. 25)
- 5. **Dkhar, S.** (2022). The Greedy Rich Man. In *Golden Jubilee Souvenir of Indian Council of Social Welfare*, Meghalaya State Branch. R. Tham (Ed). ICSW, Shillong (pp. 51-52). ISBN: 978-93-93281-00-5.
- 6. **Dkhar, S.** (2022). Myllung Nga Bynñiaw. In *Golden Jubilee Souvenir of Indian Council of Social Welfare*, Meghalaya State Branch. R. Tham (Ed). ICSW, Shillong (pp. 26-28). ISBN: 978-93-93281-00-5.
- 7. **Dkhar, S.** (2022).Ki Jingeh ba ki kmie ki kpa bad ki samla lud ki ïakynduh ha kane ka juk jong ka jingïakhing"In *Golden Jubilee Souvenir of Indian Council of Social Welfare*, Meghalaya State Branch. R. Tham (Ed). ICSW, Shillong (pp. 56-60). ISBN: 978-93-93281-00-5.
- 8. **Dkhar, S.** (2022). Recovery. In the *Souvenir of* 16th Transcontinental AIPC. P. Sharma (Eds). AIPC, Aligarh, UP. (p. nd)
- 9. **Dkhar, S.** (2022).Protection of Society for Security of Indigenous Women in India by Women Writers". In *Pehili Adiwasi Mahila Sahitya Samilan* (First Indigenous Women Writers Conference). Gatchiroli, Maharashtra (pp. 4-7).

Funds received during current year

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

Sr. No.	Funding Agency	Amount (Rs. In Lakhs),
01	NEHU	1 lakh

Seminar/Conference/Symposium/Extension Programme etc.

- Coordinator of the Poetry Reading sessions on International Women's Day Celebration 2022. Chaired the Inaugural session and the technical session held on 8/3/23 at Crèche Building, Lower Lachumiere, organised jointly by Indian Council Social Welfare (ICSW), Meghalaya State Branch
- and All India Poetess Conference (AIPC), Meghalaya.
- 2. Coordinator of the celebration of International Women's day 2023 with felicitation of Smti. Silbi Passah, Sangeet Natak Akademi Awardee and Smti Sweetymon Rynjah, State Awardee of Tirot Sing Award followed by Poetry reading sessions held on 8th March 2023 at Crèche Building, Lachumiere, Shillong, organised by AIPC, Shillong in collaboration with Indian Council of Social Welfare (ICSW), Meghalaya State Branch

- and Ka Thiar Lyngwiar Dpei Society(KTLDS), Shillong.
- 3. 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
- 4. Coordinator of the 20th-21st National Mega Convention held from 26th to 28th May, 2022, organised by AIPC, Meghalaya, Tura and Department of Garo, NEHU, Tura Campus and gave a Presidential Speech in the inaugural function.

Academic Collaborations

Prof. S.Dkhar

- 1. All India Poetess Conference, at Garo Department, NEHU, Tura Campus
- 2. Ministry of Culture and Sahitya Akademi, New Delhi.
- 3. Manipuri Sahitya Parishad, Phunga Heritage Shillong and ICCR, Regional Centre, Shillong.
- 4. Bhartiya Bhasha Samiti Shiksha Mantralay, Government of India.

Honours/Awards/Recognition/Membership/Fe llowship

Prof. S. Dkhar

- 1. Awarded the Navrattna Nariyan Lifetime Achievement Award for exemplary administrative (Govt/Non Govt.) Services given by Hema Proova Tasa, Dibrugarh in the 20th-21st National Mega Poetry Convention, held on 27th May 2022 at the Department of Garo, Tura campus, Meghalaya.
- 2. Awarded The Woman of the Year 2022 for the contribution to Education and literature at the Transcontinental Poetry Congress held at Turkey on 4th November, 2022 by Prof. Lari Azad, Founder of AIPC.
- 3. Felicitated by the Seng Kur Kharsyntiew for its recognition on the exemplary contribution to Khasi Literature and Education held on 16/12/2022 at the Hareth Resort Sumer, Ribhoi District, Meghalaya.
- 4. Nominated member as University Representative to General Council of Sahitya Akademi New Delhi from 2023
- 5. Nominated as State In-charge of All India Tribal Literary Forum from North East Socio Cultural Group belonging to Khasi/language community from Meghalaya State

- 6. Board of editors of the International Journal of Humanities and Social Sciences (IJHSS). Punjabian Khurja, Uttar Pradesh, India
- 7. Director in the Board of Directors of YMCA, Shillong
- 8. Member of Executive Committee, Khasi Authors' Society
- 9. Member Editorial Board of *Ka Thwet Jingstad* (*Quest for Knowledge*), a research journal with ISSN accreditation published by the Society for Khasi Studies, Shillong
- 10. President, Managing Committee, Kelian Memorial School, Dhanketi, Shillong
- 11. President, Ka Thiar Lyngwiar Dpei Society, A Registered Society for Preservation of Khasi Language and Culture, Golflinks, Khliehshnong, Shillong
- 12. Vice President of Indian Council of Social Welfare, All India level, Mumbai 2023
- 13. President of Indian Council of Social Welfare, Meghalaya State Branch

Prof. A. Kharmalki

1. Member, Editorial Board of *Ka Thwet Jingstad* (*Quest for Knowledge*), a research journal with ISSN accreditation published by the Society for Khasi Studies, Shillong.

Prof. D. R. L. Nonglait

- 1. President Khasi Authors' Society, Shillong
- 2. Secretary, Tribal Literary Forum of India, Shillong.
- 3. Chairman Publication Committee Khasi Author's Society Shillong.
- 4. Member, Editorial Board of *Ka Thwet Jingstad* (*Quest for Knowledge*) A Journal Published by Society for Khasi Studies Shillong.
- 5. Member Editorial Board of *Ka Thiar Ki Nongthoh*, A Journal Published by Khasi Authors' Society Shillong.
- 6. Member Editorial Board of *Ka Syngkhong Jingtip*, A Journal Published by Khasi Authors' Society Shillong.
- 7. President Managing Committee Nongshillong Secondary School, Nongshillong.
- 8. President Managing Committee Mid Changdong Secondary School, Lawbyrtun.
- 9. Secretary Managing Committee Wisdom Secondary School, Pariong.

Dr. B.Bairo

1. Member, Editorial Board of *Ka Thwet Jingstad* (*Quest for Knowledge*), a research journal with ISSN accreditation published by the Society for Khasi Studies, Shillong.

Dr. M.M.Khymdeit

- 2. Member of the Advisory Committee on the State Literary Award, Government of Meghalaya, 2022.
- 3. Member of the NSS State Advisory Committee, Government of Meghalaya, 2022.

Seminar/Conference/Symposium/Extension Programme etc.

Prof. S. Dkhar

- Resource Person in a Symposium on "Gender sensitization" for the teachers and students of St. Edmund's College organised by Social Work Department, St. Edmund's College held on 1st April 2022.
- 2. Resource Person in the two day National Seminar on *Women and Poetry* and presented a paper on "Contribution of Women Poets to Khasi Poetry" at the Department of Garo, NEHU, Tura Campus, organized by the Department of Garo, NEHU, Tura Campus in collaboration with ICSSR, NERC, Shillong on 29th April, 2022.
- 3. Resource person in the AIPC Foundation Day and participated in the Multilingual Poetry session and read out a self composed poem "I am a Transformed Woman" organised by AIPC, Tura Meghalaya at the Department of Garo, NEHU, Tura Campus on 30th April 2022.
- 4. Resource person in the Research Seminar session of the 20th-21st National Mega Convention and presented a paper on "Poetry as a tool to empower Women" organised by AIPC, Meghalaya, Tura and the Department of Garo, NEHU, Tura Campuson 27th May, 2022.
- 5. Resource Person in the Refresher Course organised by Department of Linguistics, NEHU. And UGC-HRDC, NEHU during 24th May-7th June 2023 and delivered a lecture on "Importance of Language and Culture in Human Society" on 7th June 2021.
- 6. Resource person in the 1st Unmesha *International Literature Festival* and gave a presentation on "Challenges before the Tribal writers" and a Poetry Reading of self Composed poems at Durbar Hall, Shimla, Himachal Pradesh organized by Ministry of Culture and Sahitya Akademi, New Delhi on 16th June 2022.
- 7. Chief Guest in the Inaugural Function of the Seminar on *The Perennial Independence Consciousness of North East India: Its various*

- *Dimensions* organised by Hindi Sansthan, Regional Office at its Permanent Campus at Mawdiangdiang on 27th June 2022.
- 8. Special Guest in the 81st Rabindranath Tagore Death AnniversaryCelebration and delivered a talk on "Khasi translation of Rabindranath Tagore's poems by Khasi writers" and read out a self composed poem "A tribute to Gurudev Rabindranath Tagore" and also read out the Khasi version of the Rabindra Sangeet, "Aguner Porushmoni" at Rabindranath Art Galeria, Brookside, Rilbong Shillong held on 8th August, 2022.
- 9. Resource person in the online 10th International Conference on "The Glory of 75 years of Indian Independence" and delivered a lecture on the "Role of Khasi unsung heroes in India's Freedom Struggle", organised by IQAC, NEHU, Shillong Meghalaya India, Indian Society for Training and Development (ISTD) Shillong Chapter in collaboration with the Department of Philosophy & IQAC, Moran College, Moranhat, Charaideo Dist. Assam, India and the Department of Philosophy, Shri Venkateswara Univ (SVU), Tirupati, Andhra Pradesh, India. Held on 15th August 2022.
- 10. Resource person in the *Multilingual Poets Meet* and presented self composed poems, "Women" and "What's there in a Name" at Phunga Heritage, Laitumkhrah, Shillong organised by Manipuri Sahitya Parishad, Meghalaya, Phunga Heritage, Shillong and ICCR, Regional Centre, Shillong held on 17th August, 2022.
- 11. Resource person in the *Celebration of 180 years* of Khasi Language and literature (1842-2022) and presented a paper on "Ki Phang Thoh kiba Thymmai ha ka Thoh Ka Pule Khasi" at AB Room St Edmund's College organised by the Department of Khasi, St. Edmund's College, Shillong held on 9th December, 2022.
- 12. Resource person in the Two Day National Workshop on *Bharatya Bhashaon Me Shodh Evam Academic Lekhan* and presented a paper on "Importance of Research work in Indian Languages" at U Kiang Nangbah Guest House, NEHU organised by the Department of Hindi, NEHU and Bhartiya Bhasha Samiti Shiksha Mantralay, Government of India held on 2nd March 2023.
- 13. Resource person in the One Day Orientation Workshop on *Institutionalizing Convergence of Rural Development Programmes and Resources* at SIRD, Nongsder Meghalaya, organised by National Institute of Rural Development & Panchayati Raj, North Eastern Regional Centre

- Khanapara, Guwahati in collaboration with the State Institute of Rural Development, Nongsder, Meghalaya held on 27th March 2023.
- 14. Chairperson in the technical session of the Two Day National Webinar on *Gender, Society and Development in the Context of Northeast India* organized by the Department of Sociology, NEHU on 28th March 2023.

Prof. A.Kharmalki

- 1. Resource Person at the Workshop organized by the Department of Khasi, NEHU, on "Teaching and Learning Khasi for Non-Khasi Speakers" held on the 26th April 2022.
- 2. Chaired one session in the Seminar organised by Khasi Authors' Society on "Ka Jingieit Ri U Khasi ha ka Mynnor bad ka Mynta" held on the 10th September 2022.
- 3. Resource Person in a One Day Seminar on the Celebration of Hindi Day (Hindi Divas) on the theme "Importance of the three-language formula in the context of North-East India" on the 21st Sepember 2022.
- Resource Person in a One Day District
 Workshop organized by Thomas Jones Synod
 College, Jowai on the theme "Ka Rukom Hikai ïa
 ka ktien Khasi ha ki jaka pule" held on the 20th
 October 2022.
- Resource Person in a One Day National Webinar on NEP 2020; Languages, Culture and Values, organized by Human Resource Development Centre, NEHU, Shillong and delivered a lecture on "Language and Culture: A Study of 'Ka Akor' in Khasi" on 24th Feb, 2023.

Dr. B.Bairo

- 1. Presented a paper entitled "Ka Jingim Bad U Synñiang Jong U H.W.Sten Sha Ka Literashor Khasi" in the One Day Seminar on "Ka Lyngwiar ïamir jingmut ha ka jingrakhe lyngkhuh snem ba sawphew wei jong ka Khasi Department" organized by the Department of Khasi, NEHU, held on the 29th September 2022.
- 2. Attended a One-Day National Webinar on NEP 2020 on the theme "Languages, Culture and Values jointly organized by UGC Human Resource Development Centre and the Department of Khasi, North-Eastern Hill University, Shillong held on the 24th February 2023.

Dr. M.M.Khymdeit

1. Presented a paper entitled "U Synniang jong u Bevan L.Swer sha ka Literashor Khasi" in "Ka Lyngwiar Jingmut ha ka Jingrakhe Lyngkhuh Snem ba Sawphew wei jong ka Khasi Department" organized by the Department of Khasi, NEHU, Shillong held on 29th September, 2022.

Other Activities

Prof. S.Dkhar

- 1. Attended the Annual Combined Meeting of Executive Board of Governing Body of NEZCC, Ministry of Culture, Govt. of India at NEZCC, Shilpgram, Guwahati held on 5th May 2022.
- Coordinator of the "Observance of International Environment Day", organised by The Indian Council of Social Welfare (ICSW) Meghalaya State Branch at Crèche Building on 11th June 2022
- 3. Chief Guest in the 40th anniversary of APSTA cum Celebration of Thomas Jones' Day 2022 at Jaiaw Lumpyllon Community Hall, organised by APSTA held on 22nd June
- 4. Coordinator of the Poetry Competition for school and college Students of Meghalaya on the theme "Children and Women" as part of the celebration of the Golden Jubilee of ICSW, Meghalaya State Branch held 5th August 2022.
- 5. Participate in the Livestream Webinar via FBLIVE the 2nd episode on Music featured by Vanessa Tomlinson from Australia and Sandeep Bhagawati from Canada organised by Ramanjit Kaur, Founder Director, Creative Arts held on 28th August 2022.
- 6. Supported the Bharatavani Project of the MoE, Government of India by giving permission to share all my publications through online portal of bharatavani app initiated by the Ministry of Education, Government of India, the CIIL, Mysuru.
- 7. Special Guest in the Meghalaya Nepali Sahitya Samilan, Shillong as part of the Celebration of the 113th Birth anniversary of Maha Kavi Lakshmi Prasad Devkota, and delivered a talk on "The Great poet Devkota" and presented two self composed poemsat Babu Manisingh Auditorium, Gurkha Patchala, Upper Mawprem, Shillong organised by Meghalaya Nepali Sahitya Samilan, Shillong held on 11th December 2022.

- 8. Chief Guest and Keynote Speaker in the "Multilingual Writers' Meet and Literary Forum on Shri Biren, Eminent Manipuri Writer" at NEHU Old Guest House Auditorium organised by Sahitya Akademi in collaboration with the Manipuri Sahitya Parishad, Meghalaya held on 17th December, 2022.
- Member of the Jury in the National the Elocution Competition for Ayurveda Students held at North Eastern Institute of Ayurveda and Homeopathy (NEIAH), Mawdiangdiang, New Shillong organised by Indian Council for Cultural Relations (ICCR) Zonal Office Shillong on 18 January 2023.
- 10. Attended the Stakeholders meeting on the draft Humanities manual via Cisco-Webex platform on 19th Jan 2023 and links: https://naac-web.webex.com/naac-web/j.php?MTID=m2324c944553e42751f1584d 5976cf4ad organised by NAAC ICT.
- 11. Participated in the Festivals of Letters from 12-15th March 2023 held at the Sahitya Akademi campus, Rabindra Bhavan, New Delhi, organised by Sahitya Akademi, New Delhi.
- 12. Participated in the First Meghalaya International Film festival as a **Reviewer** at Soso Tham auditorium, Shillong, organised by the Meghalaya Film Makers Association in collaboration with the Meghalaya Tourism during 16th -18th March 2023
- 13. Chief Guest and keynote speaker in the Special Poetry Evening and also read out three self-

- composed poems at River View Guest House, Numaligarh, Assam organised by Numaligarh Refinery Women Welfare Association held on 25th March 2023.
- 14. Chief Guest in the Valedictory function of the One day Orientation Workshop on "Institutionalising Convergence of Rural Development Programmes and Resources" at SIRD, Nongsder Meghalaya, organised by National Institute of Rural Development &Panchayati Raj, North eastern Regional Centre Khanapara, Guwahati in collaboration with the State Institute of Rural Development, Nongsder Meghalaya held on 27th March 2023.
- 15. Participated in the 1st meeting of the newly constituted body of the General Council of Sahitya Akademi, New Delhi as the University Representative held at the Sahitya Akademi Conference hall, Rabindra Bhavan, New Delhi, organised by Sahitya Akademi, New Delhi on 11th March 2023.

Dr. M.M.Khymdeit

1. Delivered a lecture at Workshop on "Teaching and Learning Khasi Language for Non-Khasi Speakers" organized by the Department of Khasi, NEHU, Shillong in Collaboration with the Department of Hindi, NEHU, Shillong held on the 26th April 2022.

	SUMMARY S	HEET FOR T	<u> </u>	<u>CADEMI</u>	C YEAR 1 ST A	APRIL 2022 TO 3	1 ST MARCH	2023
Details of	Name		1	Prof. S.Dkhar	Prof. A.Kharmalki	Prof. D.R.L. Nonglait	Dr. B.Bairo	Dr. M.M.Khymdeit
Faculties	Date of Joining		2	25.07.19 986	12.01.1998	20.12.2006	20.03.2007	25.03.2009
	Field of specialisation		3	Khasi Drama, Khasi Culture, Khasi Poetry	Khasi Language and Linguistic	Literary Theory and Criticism, Postcolonial Literature in Khasi,	Khasi Fiction, Archetypal Studies	Khasi Poetry, Stylistics and Ecocriticism
(A)	UG		4					
Teaching Experien ce (in Years)	PG, including PhD		5	37	25	16	16	14
	Basic Research		6	Yes	Yes	Yes	Yes	Yes
	Applied Research		7	-	-	-	-	-
	Action Research		8	-	-	-	-	-
	Project Submitted		9	-	-	-	-	-
	Ongoing Project		10	-	-	-	-	-
	Research Paper	Group I	11	-	-	-	-	-
(B)	in UGC care list journals	Group II	12	-	-	-	-	-
Research activities	Books /Books	Books	13	-	-	-	-	-
activities	chapters Published	Book Chapters	14	04	-	-	-	-
	Popular Articles (News Paper/ Magazines)		15	08	-	-	1	1
	Seminar /	National	16	06	05	-	-	1
	Conference/ Symposia organized	International	17	-	-	-	-	-
	Seminar /	National	18	15	_	2	_	1
	Conference/ Symposia attended	International	19	-	-	-	-	-
	Conference Proceedings		20	-	-	-	-	-
	Consultancy		21	-	-	-	-	-
(C) Patent	Applied		22	-	-	-	-	-
	Published		23	-	-	-	-	-
	Granted		24	-	-	-	-	-
(D) E- Content	MOOC/SWAY AM/ E-content developed		25	-	-	-	-	-
	Teaching /Extension /outreach activities		26	-	-	-	-	-
(E) Any Other	Responsibilities other than teaching		27	Yes	Yes	Yes	Yes	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	Yes	Yes	Yes	Yes	Yes
	Collaborations	National	29	Yes				
		International	30	Yes				

DEPARTMENT OF LINGUISTICS

Head: Prof Shailendra Kumar Singh

Telephone: +91-364-272 -3310

E-mail: hodling@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
Professor	Dr .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	Dr Saralin A. Lyngdoh, M.A. (English),	Syntax, Morpho-Syntax, Structure
Professor	NEHU, M.A. (Linguistics) NEHU, M.Phil (Linguistics), Delhi University, Ph.D (Linguistics), Delhi University.	of North East India Languages
Assistant	Dr. Barika Khyriem, M.A. (Linguistics),	Phonetics & Phonology,
Professor	NEHU; M.Phil (Linguistics), Delhi University. PhD (Linguistics), NEHU	Dialectology, Sociolinguistics, Austro-Asiatic Linguistics.

Thrust Areas of Research

The thrust areas of research is on Tibeto-Burman and Austro-Asiatic languages/dialects of the North-East of India with an aim to build up expertise for field work, data analysis, and description of languages. To achieve this aim, the department trains students through M.A, M.Phil, and PhD programmes in core courses like Phonetics andPhonology, Morphology, Syntax, Semantics and Pragmatics. Other courses likeLexicography, Computational Linguistics, Translation, Field Methods, Language Education, Ethnolinguistics, Sociolinguistics, Linguistic aspects of North-East Indian languages and language Ideology, etc., have

been emphasized upon in order to provide a wideoption for students of Linguistics.

Brief Statement of Academic Activities and Achievements

The Department offers M.A. degree under CBCS (for 3rd and 4th Semester) and NEP 2020 (1st and 2nd Semester) curriculum and Ph.D. program. The department admitted a total number of 36 students to its M.A. programme during the current year (2022-2023). A total of 29 students successfully completed their M.A. Programme (2022). The 3rd Semester Students have worked on Khasi language, literature, translation and media, which is part of MA Research Program.

Students' Profile

- > Enrolment Capacity: MA:36Ph.D.: Variable
- > Enrolment of students from different States of India and Abroad

	Gen		ST	ST		SC		EWS		PWD		ΊΑL
STATES	M	F	M	F	M	F	M	F	M	F	M	F
Manipur	-	-	-	2	-	-	-	-	-	-	-	2
Meghalaya	-	-	7	19	-	-	-	-	-	-	7	19
Mizoram	-	-	-	1	-	-	-	-	-	-	-	1
Nagaland	-	-	1	6	-	-	-	-	-	-	1	6
Sub total	-	-	8	28	-	-	-	-	-	-	8	28
Total	-	36		36		-		-		-		

➤ Enrolment of students from different States of India and Abroad (Ph.D.)

	Gen	Gen		ST		OBC		EWS		PWD		AL	
STATES	M	F	M	F	M	F	M	F	M	F	M	F	
Assam	-	-	-	-	-	-	-	1	-	-	-	1	
Manipur	-	-	-	1	-	-	-	-	-	-	-	1	
Meghalaya	-	-	-	1	-	-	-	-	1	-	1	1	
Mizoram	-	-	-	1	-	-	-	-	-	-	-	1	
Sub total	-	-	-	3	-	-	-	1	1	-	1	4	
Total	-	-		03		-		01		01		05	

Degrees Awarded

- > Degree:M.A:29M.Phil: 8, PhD: 3
- > Degrees Awarded to students from different States of India and Abroad (M.A)

	Gen		ST	ST		SC		OBC		PWD		AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	1	-	2	-	-	-	-	-	-	-	3
Manipur	-	-	1	-	-	-	-	-	-	-	1	-
Meghalaya	-	-	2	20	-	-	-	-	-	-	2	20
Mizoram	-	-	-	1	-	-	-	-	-	-	-	1
Nagaland	-	-	-	2	-	-	-	-	-	-	-	2
Sub Total	-	1	3	25	-	-	-	-	-	-	3	26
Total	01	01		28		-		-		-		•

> Degrees Awarded to students from different States of India and Abroad (M.Phil)

	Gen		ST		SC		EWS		PWD		TOTA	L
STATES	M	F	M	F	M	F	M	F	M	F	M	F
Manipur	-	-	-	1	-	-	-	-	-	-	-	1
Meghalaya	-	-	-	2	-	-	-	-	-	1	1	2
Nagaland	-	-	1	3	-	-	-	-	-	-	1	3
Total	-	•	7		-	•	-		1	•	8	•

Name of Student	Title of Dissertation	Name(s) of
		Supervisor(s)/
Cikumla Chang	Chang Tonal Phonology	Dr.B.Khyriem
Thangngaihching	A Phonological Description of Simte	Dr.B.Khyriem
DaphishishaKharmawlong	Ethnolinguistic Vitality of Biate	Prof.S.K.Singh
	Community in Meghalaya: A Study on Saipung village	
TsukhumlaYimchunger	Mapping of Linguistic Diversity of Yimchunger	Prof.S.K.Singh
Ferdinand L.Marshillong	Deaf Bilingualism in Meghalaya	D.S.A.Lyngdoh
TiakumzukAier	Sign Linguistic and Deaf Culture in	Dr.S.A.Lyngdoh
Graciously Kurbah	Nagaland Chang Phonology: A Generative Approach	Dr.B.Khyriem
Temjentola	Structure of Tense and Aspect in Langa Variety of Yimchunger	Dr.S.A.Lyngdoh

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC	7	EWS	5	PWD		TOT	CAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Nagaland	-	-	-	1	-	-	-	-	-	-	-	-	-	1

	1	-	-	-	-	-	-	-	-	-	-	1	-
Total	1		2	-		-		-		ı		3	

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/
		Joint Supervisor
Arvind Kumar	Trends and Turns of Translation in North East India:	Prof.S.K.Singh
Rawat	Paradigm and Shifting Viewpoints	/Dr.S.A.Lyngdoh
Ruth Rymbai	Some Aspects of Intonation in Khasi: An Autosegmental – Metrical Analysis	Dr.B.Khyriem
NarotiJamir	A Comparative Morphosyntax of Chungli and	(L)
	Mongsen	Dr.BijoyDhanwar

Placement of Students

Name of	Name of the Programme	Post Held	Place of Work
the			
Student(s)			
Arvind	Centre for Endangered	Research	Central University of
Kumar	Language	Associate	Karnataka, Karnataka
Rawat			India
NarotiJamir	SCERT	Research	Kohima, Nagaland
		Associate	
Gamidalah	Orthography Development	Junior Research	CIIL, Mysore
War	for Language of North East	Person	-
	India (Project)		
Ruth	Khasi –Khasi Dictionary, a	Research	Shillong, Meghalaya
Rymbai	Project of Khasi Authors'	Associate	
	Society helmed by State		
	Government of Meghalaya		

Students Selected for Higher Studies

Name of the	Name of the	Institution/Organization	Country
Student(s)	Programme		
MeghaliMisra	Ph.D	Department of Linguistics, NEHU	India
Graciously Kurbah	Ph.D	Department of Linguistics, NEHU	India
Ferdinand	Ph.D	Department of Linguistics, NEHU	India
L.Marshillong			
Sheen Nancy	Ph.D	Department of Linguistics, NEHU	India
LalhmingmawiiKhawlri	Ph.D	Department of Linguistics, NEHU	India
ng			

Research Fellowship

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

Fieldwork/Educational Tour of Students

Teacher -In- Charge: Dr.S.A. Lyngdoh and

Dr.B.Khyriem **Students:** 3rd Semester

Places/Institutions Visited: Nongkhnum in

West Khasi Hills, Nongstoiñ

Duration of Tour (Dates and number of days): from 21st to 22nd of October of 2022(Two days) **Purpose of Tour:** Fieldwork Training, this is compulsory part of the curriculum in their M.A Programme.

Courses Conducted

> Postgraduate – M. A. (Linguistics)

Semester I (NEP-2020):

Phonetics and Phonology; Morphology and Syntax; a) General Linguistics, b) History of Linguistics (MOOCs through SWAYAM); a) Semantics and Pragmatics b) Language and Mind (MOOCs through SWAYAM); Linguistic Ecology

Semester II (NEP-2020): Advanced Phonology; Intermediate Syntax; a) Historical and Comparative Linguistics b) (MOOCs through SWAYAM); a) Language Technology and Mass Media b) (MOOCs through SWAYAM; Research Methodology and Proposal Writing; a) Computer Application and Linguistic Analysis b) (MOOCs through SWAYAM)

Semester III (CBCS):a)Linguistic Ecology of N.E India or b) MOOCs through SWAYAM; a)Structure of Austro- Asiatic Languages or b) Structure of Tibeto-Burman Languages; Research Program and Dissertation; Generative Phonology; Language Technology

Semester IV (CBCS): Advanced Sociolinguistics; a) Historical and Comparative Linguistics or b) Minimalist Syntax or c) Syntactic Models, or d) Dialectology; a) Psycholinguistics and Neurolinguistics or b) Language Education and Language Teaching; Translation Theory, History and Practice; Language Conflict and Resolution Studies.

> PhD Courses

Current Trends in Linguistics (Optional 1), Current Trends In North East Linguistics (Optional 2), Advances in Natural Language Processing (Optional 3); Seminar Paper; Research Methodology; Research and Publication Ethics

Seminars/Conferences/Workshops/ Symposia/Extension Programmes:

1. Refresher Course on "on 'Promotion, Preservation and Documentation', conducted by the Dept. of Linguistics, NEHU, and UGC-HRDC, NEHU during 25th May to 7th June 2022. (Coordinator - Dr.S.A.Lyngdoh).

Publications

> Research Papers: 10

- 1. Borgohain, K.; **Khyriem, B.** (2022). Phonology of Sakachep. *International Journal of Science and Engineering Development Research*. 7(7): 168-181. ISSN:2455-2631.
- 2. Kapginlian,H,; **Lyngdoh,S.A.** (2022). Agreement Patterns in Sakachep Language, *Journal of Research in Humanities and Social Science*. Volume 10.Issue (4) 38-46. ISSN: 2321-946.
- 3. Misra,M,; Lyngdoh,S.A. (2022). A Case Study on Language Attitude among the tribal students in Radiant International School, Sonapur, Assam. *International Journal of Humanities and Social Science Invention (IJHSSI)*. Volume 11 Issue(7) 77-96. DOI: 10.35629/7722-1107017796. ISSN (Online): 2319 7722.
- 4. Rynjah, R. K.; Lyngdoh, S.A. (2022). Word Order in Standard Khasi and its Varieties: A Comparative study of Change and Variation. Journal of Research in Humanities and Social Science Volume 10. Issue (12) 279-287 ISSN (Online):2321-9467.
- 5. Rynjah, R. K.; **Lyngdoh,S.A.** (2023). The morphosyntactic processes of War-Khasi and War-Jaiñtia: a comparison with Standard Khasi. *Aligarh Journal of Linguistics (AJL)*. Volume 12.171-184. ISSN: 2249-1511.
- 6. Warjri, S.; Pakray,P,;Lyngdoh, S.A,; Maji,A. (2022).Part-of-Speech Tagging in Khasi Using Naïve Bayes and Support Vector Machine.Investigating.International Conference on Innovative Computing and Communications. 141-149. DOI: 10.1007/978-981-19-3679-1_11.
- 7. Warjri, S.; Pakray, P.; Lyngdoh, S.A.; Maji, A. (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).1-24.
- 8. Warjri, S.; Pakray,P,;**Lyngdoh, S.A**,; Maji,A. (2023).Fake news detection using social media

data for Khasi language.1-6..International Conference on Intelligent Systems, Advanced Computing and Communication Conference (ISACC). 1-6. DOI:10.1109/ISA CC56298.2023.10083518.

- 9. Singh, S.K. (2022). purvottarbhaarat ki bhaashik sampadaa. In: bahuvachan VOI: 68-69-70-71. p 63-72.
- 10. Y, Ngullie and Khyriem, B. (2022). Palatalization in Lotha. Journal of Research in Humanities and Social Sciences. 10 (5): 35-38. ISSN:2312-9467

Funds received during current year

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

Sr. No.	Funding Agency	Amount (Rs. In Lakhs),
01	NEHU	1.0

(B) EMR Research Projects to individual faculty members

Title of Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of Investigator (Pl/Co-Pl)	Multi/Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report
Linguistic Mapping of the Regional Dialects of Khasi	Completed Project	Dr S.A.Lyngdoh (PI) Dr B.Khyriem (Co-Pl)	Single (2022-2023)	ICSSR- NER NEHU Campus Shillong	INR 1.50

Seminar/Conference/Symposium/Extension Programme etc.

Prof. S.K.Singh

- 1. Delivered a lecture as a resource person on MOOC's: Adoption, Promotion and Government's Initiatives in the 8th Faculty Induction Programme organized by HRDC, NEHU from 28th February to 29th March 2023.
- 2. Presented a theme paper on: Bharat kabhashik paryavaasaurbharatiybhashao me shodh" in a Two Day National Workshop on bhartiyabhasho me shodhevam academic lekhan, organized by Department of Hindi in collaboration with bharatiyabhashasamiti at NEHU on 02nd-03rd March 2023.
- 3. Delivered a keynote address entitled `Linguistic Habitat of India and Indian Logical Agreement system in Language in the National Workshop on "Indian Logical Agreement System in Languages, held between 14th-16th March, 2023 at the Department of Dravidian and Computational Linguistics, Dravidian University, Kuppam, Andhra Pradesh.
- 4. Delivered a talk on 'Language for young generation: Aspiration and inspiration' in a One Day Seminar on "Importance of Language and Creative writings", organized by Lady Keane College, Shillong on 21st March 2023.

- 5. Delivered a talk as a resource person on 'Promotion, Preservation and Documentation', in a Refresher Course organized by the Department of Linguistics, NEHU in collaboration with HRDC, NEHU, during 25th May to 7th June, 2022.
- 6. Delivered a talk on A Overview of MOOCs: Government of India Initiative, in the 8thFaculty Induction Programme, organized by HRDC, NEHU from 30thMay to 28thJune 2022.
- 7. Delivered a talk on `Standardization of Sign and SoP, in `A two day Workshop' organized by CIET, NCERT, Delhi on 23rd -24th June, 2022.
- 8. Presented a theme paper on 'purvotarkibhashikpaaristhitikievamsvadhinchetn a in a One Day National Conference titled purvottarbharatkisatatsvaadhincetna, organized by Central Institute of Hindi, Shillong, on 27thJune 2022.
- 9. Delivered a talk on National Educational Policy and Role of Teachers, in the ShikshakParv Lecture Series, organized by HRDC, NEHU, 5th-9thSeptember, 2022.
- 10. Delivered a theme talk on `Field Linguistics and Normative Ethics' in the Workshop on Field Linguistics held at ISDL campus, Thiruvanathapuram from 10th -15th October 2022.

- 11. Delivered a talk on 'Contexts of Translation in India' at the Centre for Applied Linguistics and Translation Studies on November 4, 2022.
- 12. Presented a theme paper on "NEP 2020 and **Dr.B.Khyriem**Linguistics: Prospects and Challenges for 1. Delivered Students" in the Induction Program of Department of Linguistics, Central University of Kerala on 7th
 November 22nd 2022. Department
- 13. Presented a theme paper entitled "Ethnicity and linguistic Survival in the Training Workshop for the Empanelment of Field Enumerators" at the Centre for Endangered Languages, Visva-Bharati, held on 29th-30th November, 2022.
- 14. Delivered a talk entitled bharat. I bhashaaurbhashiin the Online Refresher Course in Humanities on 8th December, 2022, organized by the the Human Resource Development Centre (HRDC), PanditRavishankarShukla University (PRSU), Raipur during 5th to 17th December, 2022.
- 15. Delivered a invited lecture on `Language in Time and Space', organized in the Department of Humanities and Social Sciences, IIT Patna, 20th Jan 2023.

Dr.S.A.Lyngdoh

1. Attended and delivered a keynote address on the Topic 'The Agreement – Word Order Corelation

in Khasi'in FASAL-12 organized by the University of UTAH Salt Lake City, U.S.A on 9thApril during 9th-10thApril 2022.

1. Delivered a talk on "Language Endangerment: the status of Austro-Asiatic Languages in India" at the National Seminar organized by

Department of English and Communication, Martin Luther Christian University, Shillong on 4th April 2022.

Other Activities

bharat Pr S.K.Singh

1. Invited as Moderator for Linguistics by the National Testing Agency for the development of test items from 27 February 2023 to 02March 2023 at National Testing Agency (NTA), First Floor, NSIC-MDBP Building, Okhla Industrial Estate, New Delhi.

Dr.B.Khvriem

 Attended the Refresher Course on "on 'Promotion, Preservation and Documentation', organized by the Dept. of Linguistics, NEHU, and UGC-HRDC, NEHU during 25th May to 7th June 2022.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

Details of Faculties	Name		1	S. K. Singh	S. A. Lyngdoh	B. Khyriem
	Date of Joining		2	2/01/2007	2/04/2002	19-02-2006
	Field of specialisation		3	New Linguistics World Order, Alternative- Sociolinguistics Translation, Deep Multilingualism,North- East India Linguistics & Linguistics Landscaping	Syntax, Morpho- Syntax, Structure of North East India Languages	Phonetics & Phonology, Dialectology, Sociolinguistics, Austro-Asiatic Linguistics.
(A)	UG		4			
Teaching Experience (in Years)	PG, including PhD		5	16	21	16
	Basic Research		6	Yes	Yes	Yes
	Applied Research		7	No	No	No
	Action Research		8	No	No	No
	Project Submitted		9	No	1	1
	Ongoing Project		10	No	No	No
	Research Paper in	Group I	11	1	8	2
	UGC care list journals	Group II	12	-	-	-
	Books /Books chapters	Books	13	-	-	-
(B)	Published	Book Chapters	14	-	-	-
Research activities	Popular Articles (News Paper/ Magazines)		15	-	-	-
	Seminar / Conference/	National	16	-	-	-
	Symposia organized	International	17	-	-	-
	Seminar / Conference/	National	18	-		1
	Symposia attended	International	19	-	1	-
	Conference Proceedings		20	-	-	-
	Consultancy		21	-	-	-
	Applied		22	-	-	-
(C)	Published		23	-	1	-
Patent	Granted		24	-	-	-
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	-	-	-
	Teaching /Extension /outreach activities		26	Yes	Yes	Yes
(E)	Responsibilities other than teaching		27	Yes	Yes	-
Any Other	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	-	-	-
	Collaborations	National	29	No	No	No
		International	30	No	No	No

DEPARTMENT OF PHILOSOPHY

Head: : Prof. X. P. Mao Telephone: 272 -3552

E-mail: : philosophynehu@gmail.com

Faculty Profile

Designation	Name and Qualification	Specialization
	Vanlalnghak, MA(NEHU)	Philosophy of Culture, Moral Philosophy,
	PhD(IIT Kanpur)	Analytic Philosophy
Professor	Xavier P Mao, M. Phi (Delhi),	Existentialism, Ethics
	M.Lett.(Sydney), PhD (NEHU)	
	Prasenjit Biswas, MA &	Phenomenology & Continental Philosophy,
	PhD(NEHU)	Philosophy of Mind, Philosophy of Tribes of NE
		India
Associate	Basil Pohlong, MA &	Philosophy of Religion, Philosophical
Professor	PhD(NEHU)	Anthropology, Philosophy of Culture, Ethics
Assistant	AribamUttam Sharma,	Logic and Epistemology
Professor	MA(Manipur) PhD(NEHU)	

Thrust Areas of Research

Philosophy of Culture with special reference to the tribal thought of the North-Eastern region.

Brief Statement of Academic Activities and Achievements

The Department conducts M.A programme in Philosophy, with emphasis on the thrust areas and

aims at developing logical and analytical ability of students to critically reflect on issues they confront. The Department also runs the Ph.D programme to enrich research activities in the various fields of Philosophy. Both in teaching and research, special attention is given to the areas of analytic philosophy and philosophy of culture with special reference to the tribal thought of the North Eastern Region.

Students' Profile

- > Enrolment Capacity: M. A.: 52,Ph.D.: Variable
- > Enrolment of students from different States of India and Abroad (M. A.)

	Gen		ST		SC		EWS	S	PWI)	TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	-	-	1	-	-	-	-	-	-		1
Manipur	-	-	-	1	-	ı	-	-	-	-		1
Meghalaya	-	1	11	47	-	ı	-	-	-	-	11	48
Mizoram	-	-	-	1	-	-	-	-	-	-		1
Nagaland	-	-	-	1	-	-	-	-	-	-		1
Sub Total		1	11	51	-	-	-	-	-	-	11	52
Total	1		62		-	-	-	-	-	-	-	

> Enrolment of students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC		PWD		TOTA	L
STATES	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	-	1	-	-	-	-	-	-	-	1
Assam	-	3	-	1	-	-	-	-	-	-	-	4
Sub Total	-	3	-	2	-	-	-	-	-	-	-	5
Total	3		2				-	-	-	-	-	

Degrees Awarded

> M. A.: 54, Ph.D.: 05

> Degrees Awarded to students from different States of India and Abroad (M. A.)

	Gen		ST		SC		OBC		EWS	S	TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	2	-	-	-	-	-	-	-	-	-	2
Manipur	-	2	-	-	-	-	-	-	-	-	-	2
Meghalaya	-	-	14	30	-	-	-	-	-	-	14	30
Mizoram	-	-		3	-	-	-	-	-	-	-	3
Nagaland	-	-		3	-	-	-	-	-	-	-	3
Sub Total	-	4	14	36	-	-	-	-	-	-	14	40
International	0	0	0	0	-	-	-	-	-	-	0	0
Total	4		50		-		-		-		54	

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC	7	PWI)	TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	2		-	-	-	-	-	-	2	
Mizoram	-	-	-	1	-	-	-	-	-	-		1
Tamil Nadu	-	-	-	_	-	-	1	-	-	-	1	
Arunachal	-	-	-	1	-	-	-	-	-	-		1
Pradesh												
Sub Total	-	-	2	2	-	-	-	-	-	-	3	2
Total	-	ı	4	1	-	l .	1	<u> </u>	-	ı	05	ı

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
W Maria Joseph Vianney	Mysticism in the Bhagavadgita and the Gospel according to St. John: A Study in	Prof. X P Mao
	the Philosophy of Religion	
Lunneihoi Thangeo	The Problem of Evil in Christianity: A Critical Study	Prof. X. P. mao
Reter Badak	Understanding of Self with special reference to <i>The Second Sex</i> of Simone de Beauvoir	Prof. Vanlalnghak
Shaiborlang Kharsynteng	Creatin Myth in Judeo-Christian and Khasi Religion	Prof. Vanlalnghak
Batskhem Mawlein	Multifaceted Approaches in Contemporary Hermeneutics: A Critical Study	Prof. Prasenjit Biswas

Students Selected for Higher Studies

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
Sudiksha Paul	PhD	Depp. of Philosophy NEHU	India
Svetlena Hujon	PhD	-Do-	India

Field Work/Educational Tour of Students

Teacher-in-Charge: Prof. X P Mao

Places/Institutions Visited: Nagpur & Goa

Duration of Tour (Dates and number of days): 14

days 24.12.2022 to 6.1.2023

Purpose of Tour: Attended the Indian

Philosophy Congress

Courses Conducted

Semester-I (NEP-2020): Indian Metaphysics, Western Metaphysics, Symbolic Logic, Philosophy of Religion, Philosophy of Science Semester-II (NEP-2020): **Ethics** and Environment, Indian Epistemology, Introduction of Practical Logic, Western Epistemology, Research Methodology and Proposal Writing **Semester-III (CBCS):**

Philosophy of Social Sciences, Phenomenology & Existentialism, Philosophy of Post Modernism-I, Analytic Philosophy, Contemporary Philosophy of Religion & Tribal Thought and Culture Semester-IV (CBCS): Modernism & Responses, Philosophy of Culture, Philosophy of Post-Modernism-II, Western Moral Philosophy, Applied Ethics & Philosophy of Wittgenstein

PhD Courses

Research and Publication Ethics, Research Methodology, Seminar Paper, Philosophy of Culture and Religion

Funds received during current year

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

Sr. No.	Funding Agency	Amount (Rs. In Lakhs),
01	NEHU	1.0

Seminar/Conference/Symposium/Extension Programme etc.

Prof. P. Biswas

- 1. Delivered a Talk entitled, "Buddhism and Deconstruction", Department of Philosophy, Chiang-Mai University, Chiang Mai, Thailand on 23rd December, 2002.
- 2. Presented a paper entitled, "Teaching Ethics of decolonization: Gandhi, Tagore and Enrique Dussel" at University of Mississippi, USA on 7th October, 2002.

Honours/Awards/Recognition/Membership/Fe llowship

Prof. X P Mao

1. Joint Secretary IPC& Governing Body and Member of Asia and Africa Philosophy Society

Other Activities Prof. Vanlalnghak

1. Chaired a session of International Paper Presentation on "The Concept of Race and Racism" Presented by Prof. Sonia Kikka,

Publications

> Research papers (01)

Biswas, P., Umlong, L.M. (2023). Is Justice beyond Law? A Derridean Perspective. Jadavpur Journal of Philosophy, 30(1), 73-94.

➤ Book Chapters (02)

- 2. Vanlalnghak.(2023) Impact of Christianity among the North-East Tribes in Saji Varghese(ed) Living with Other Faiths: Indian Challenges and Musings, Authors Press, New Delhi. pp.217-225 ISBN:978-93-5529-553-8
- 3. Sharma, A.U. (2022) Is and Ought: Where the Two Shall Meet (?). In Philosophy and the calling of Global Responsibility. S. Panneerselvan and Saji Verghese (Eds.). Authors Press. New Delhi, ISBN:978-93-5529-469-2, Chapter 6, pp. 71-78.

> Popular Articles (News Paper and Magazines (01) Dr. A. U. Sharma

1. Five days lecture on "Critical Thinking", at NIFT, Shillong, 12th – 16th September, 2022

University of Ottawa, at NEHU on 23rd March, 2023 and organised by the Office of International Affairs, NEHU.

Prof. X P Mao

- 2. Delivered a public lecture at Feranus Hall, Shillong on human values at the Students' Seminar on 15th April, 2022.
- 3. Delivered a public lecture in Philosophy department on the importance of the preservation of environment, on the eve of the world environment day on 4th June 2022.
- 4. Delivered a lecture on the topic "The oneness of humanity" at M/s Taste Complex Jingkieng Main on 18 – 20 October 2022.
- 5. Participated in the Webinar organized by Ananda Magi, Kolkata from 26-27 October 2022.

Prof. P. Biswas

1. Chaired a session of Meta-cognitive Ethics at the International conference on "Ethics across Curriculum" on 6th October 2022 at University of Mississippi, USA.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2022

Details of Faculties	Name		1	Xavier Mao	Vanlalnghak	Prasenjit Biswas	Basil Pohlong	Aribam U.Sharma
	Date of Joining		2	27.9.1988	6.5.2002	2.8.2005	6.5.2005	9.2.2010
	Field of specialisation		3	Existentiali sm & Ethics	Philosophy of Culture, Ethics, Analytic Religion	Philosophy: Phenomenolo gy and Continental Philosophy	Philosophy of Culture, Ethics , Tribal Philosophy, Philosophy of Religion	Logic and Epistemolo gy
(A)	UG		4	N.A			10	
Teaching Experience (in Years)	PG, including PhD		5	34	31	13	17	12
	Basic Research		6	Yes	Yes	Yes	Yes	Yes
	Applied Research		7	-			yes	
	Action Research		8					
	Project Submitted		9					
	Ongoing Project		10					
	Research Paper in	Group I	11				1	
	UGC care list journals	Group II	12					
	Books /Books	Books	13					
(B) Research	chapters Published	Book Chapters	14	1			1	
activities	Popular Articles (News Paper/ Magazines)	Chapters	15		2	3		1
	Seminar /	National	16					1
	Conference/	International	17					1
	Symposia organized	International	1					
	Seminar /	National	18	1	1		2	1
	Conference/ Symposia attended	International	19					1
	Conference Proceedings		20					
	Consultancy		21					
(C)	Applied		22					
Patent	Published		23					
	Granted		24					
(D) E-Content	MOOC/SWAYAM/ E-content		25					
	developed Teaching /Extension /outreach activities		26		1		1	
(E) Any Other	Responsibilities other than teaching		27		Head and Dean	In-charge Office of International Affairs		Warden, Hostel No.17 (Arbella Halls of Residence)
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	Joint Secretary IPC & Governing Body Member of Asia and Africa Philosophy of Society				Residence)
	Collaborations	National	29					
	1	International	30				1	<u> </u>

IV. SCHOOL OF HUMAN AND ENVIRONMENTAL SCIENCES

Dean: Prof. L. Zehol	DEPARTMENTS UNDER THE SCHOOL
E-mail: deanshes@nehu.ac.in Telephone: +91-364-272 3222	 Department of Anthropology Department of Environmental Studies Department of Forestry Department of Geography Department of Geology Department of Horticulture (Tura Campus) Department of Rural Development and Agricultural Production (Tura Campus)

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. Future Plans

- 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.

3. Salient Data of the School [2022-2023]

Number of Students awarded Ph.D. Degree	23
Number of Research Publications	48
Number of Books, Book Chapters, and Proceedings	20
Number of Research Projects (Fund Received)	
Completed (3)	NIL
On-going (5)	95.91 Lakhs
New (2)	102.13 Lakhs
Number of Consultancy Projects (Fund Received)	
National	NIL

International	NIL						
Number of Students Placed	13						
Number of Students Selected for Higher Studies	06						
Total Number of Patents							
Filed	NIL						
Published	NIL						
Granted	NIL						
Policy Documents: Status (Name of the Agency) and Number							
(i) Applied	NIL						
(ii) Approved	NIL						

DEPARTMENT OF ANTHROPOLOGY

Head: Prof. G. Ranjan (upto 13th Jan, 2023)

Prof. B.T. Langstieh (from 14th Jan 2023)

Telephone: 0364-272 3111

E-mail: hodant@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization					
	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 in the North East of India)					
	Dr. D.K. Limbu, M.Phil & Ph.D. (NEHU)	Biological Anthropology (Population Genetics, Dental Anthropology, Demography)					
Professor	Dr. G. Ranjan, M.A & Ph.D. (Lucknow)	Cultural Anthropology (Tribal development, Ethnography, Literary Anthropology, Anthropology of Politics)					
	Dr. B. T. Langstieh, M.Sc. (NEHU), Ph.D. (ISI, Calcutta)	Biological Anthropology (Anthropo-genetics, Molecular Anthropology, Demography - maternal & child health, elderly, reproductive health), etc.					
	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.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 Univ.)	Biological Anthropology (Human Adaptation and Physiology)					

^{*}Retired on 28.02.2023, ** Expired on 12.11.2022

Thrust Areas of Research

- 1. To promote and develop integrative thinking for consolidating anthropological teaching and research in identified thrust areas of Socio-Cultural, Biological and Archaeological Anthropology in Northeast India.
- 2. To develop partnership and collaboration locally, nationally, and internationally.

Brief Statement of Academic Activities and Achievements

The ongoing academic activities of the students and faculty in the Department includes the conduct of ethnographic fieldwork, report writing of field dissertation, attending workshops, seminars and conference outside the state and region as well as attending to deputed assignments of the state and central government. Student activities also include participation in various programs of the university such as sporting events, tree plantation, blood donation camps, Yuva Sangam, etc. In this golden jubilee year of the University, the Department of Anthropology has been able to revive and reintroduce the series on 'Verrier Elwin' by hosting

the 16th Verrier Elwin Memorial Endowment lecture on 18th November 2022. The invited speaker was retired Prof. Bapukan Choudhury,

from Guwahati University who spoke on "Opium Poppy Cultivation in Arunachal Pradesh and its impact on Culture and Biology".

Students' Profile

- > Enrolment Capacity: M.A./M.Sc.:30, Ph.D.: Variable
- > Enrolment of students from different States of India and Abroad (M.A./M.Sc.)

	Gen		ST		SC		OBC	7	EWS	5	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Assam	-	3	-	3	-	-	-	-	1	-	-	-	1	6
Manipur	-	1	1	2	-	1	-	-	-	-	-	-	1	4
Meghalaya	-	•	3	6	-	-	_	-	•	-	-	-	3	6
Mizoram	_	-	-	1	_	-	_	-	_	-	-	-	-	1
Nagaland	-	-	2	2	-	-	-	-	-	-	-	-	2	2
Orissa	1	-	-	-	-	-	-	-	-	-	-	-	1	-
West Bengal	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Total	6	•	21	•	1		-		1	•	-	•	29	

> Enrolment of students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC	7	EWS	5	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	-	-	1	_	-	-	-	-	-	-	-	-	1	-
Assam	-	1	-	2	1	-	-	-	-	-	-	-	1	3
Manipur	-	-	1	1	-	-	-	-	-	-	-	-	1	1
Nagaland	-	-	-	3	-	-	-	-	-	-	-	-	-	3
Total	1		8		1		-		-		-		10	

Degrees Awarded

- > Degree: M.A./M.Sc. (28)Ph.D: 11
- > Degrees Awarded to students from different States of India and Abroad (M.A./M.Sc.)

	Gen		ST		SC		OBO	C	EW	S	PWI)	TOT	ΓAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	-	1	-	-	-	-	-	-	-	-	-	-		1
Assam	-	3	2	3	-	1	-	-	-	-	-	-	2	7
Manipur	-	-	-	3	-	-	-	-	-	-	-	-		3
Mizoram	-	-	-	1	-	-	-	-	-	-	-	-		1
Nagaland	-	-	3	11	-	-	-	-	-	-	-	-	3	11
Total	4		23		1		-	•	-		-		28	

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBO	7)	EW	S	PWD)	TOT	`AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Manipur	-	-	3	1	-	-	-	-	-	-	-	-	3	1
Meghalaya	-	-	-	1	-	-	-	-	-	-	-	-		1
Nagaland	-	-	1	4	-	-	-	-	-	-	-	-	1	4
Total	-		11		-		-		-		-		11	

Name of Student	Title of Thesis	Name(s) of Supervisor(s)
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Rimonbasukshisha Rodborne	Evaluation of the Impact of the ICDS Programme on the Nutritional status of children and mothers in Mawsynram Development Block, Meghalaya"	Prof. R. Khongsdier
Moajungla	A Bio- Anthropological Study of Metabolic	Prof.
Longkumer	Syndrome Among the Ao Nagas of Nagaland	B.T.Langstieh
Ketousienuo	Ethno Medical Beliefs and Practices Among the	Prof.
Kuotsu	Angami Naga	H.Lamin
Jangkhomang	Youth Organisation among the Thodou-Kuki of Manipur: Continuity and Change	Prof. H.Lamin
Seigoumang	A Study on Traditional Music and Musical	Prof. Q.
Chongloi	Instruments of the Thadou-Kukis of Manipur	Marak
Gibson Marak	Women As Religious Leaders: An Anthropological	Prof.
Glosofi Ivlarak	Study of Christian Garos of Meghalaya	Q.Marak
Gin Khan Khual	Bio-cultural Correlates of Infant and Child	Prof.
Olli Kilali Kiluai	Mortality among the Zou of Manipur	D.K.Limbu
Tanuhata Vhiava	Body Composition Physiology and Energy	Dr.
Tepuhoto Khieya	Expenditure among the Adult Angami of Nagaland	J.W.Dkhar
Guangdikhuanliu Riamei	An Anthropological Study on Health and Nutritional Status among the Adult Rongmei Naga of Manipur	Dr. S. Ghosh
Zenia Thangjam	A Study on Growth And Nutritional Status of Orphan And Non-Orphan Children of Imphal Valley, Manipur	Dr. S.Ghosh
Viserano Peseyie	A Study on Body Physique, Nutritional and Physiological Status Among the Adult Angami Nagas of Kohima District, Nagaland	Dr. S.Ghosh

Placement of Students

Name of the Student(s)	Organization	Place of Work
Dr. Moajungla	Anthropological Survey of India	Mysore
Longkumer		
Dr. Abigail Lalnuneng	Department of Anthropology, Delhi University	New-Delhi
Ms. Bidya Devi	Education Department, Govt. of Assam,	Silchar
Mr. Vivoto Tsukru	Sports Authority of India	Bangalore

Students Selected for Higher Studies

Name of the Student(s)	Name of the	Institution/Organization
	Programme	_
Moiken Manong	Ph.D. in Anthropology	NEHU, Shillong
K. Losa	Ph.D. in Anthropology	NEHU, Shillong
Lalhriatpui	Ph.D. in Anthropology	NEHU, Shillong
Paizy Halam	Ph.D. in Anthropology	NEHU, Shillong
Anamika Nath	Ph.D. in Anthropology	NEHU, Shillong

Research Fellowship

CSIR-UGC- NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Savitri Bai Phule Fellowship
5	5	NIL	NIL	NIL	1

Fieldwork/Educational Tour of Students

➤ **Teacher-in-Charge:** Prof. D. K. Limbu and Prof. Q. Marak

- Places/Institutions Visited: Darjeeling (Botanical garden, tea gardens, HMI) and Sikkim (Gangtok, Changgu lake, Nathula pass, monasteries etc).
- > **Duration of Tour (Dates and number of days):** 20.12.2022 to 04.01.2023 (16 days)
- ➤ Purpose of Tour: For exposure of students to other parts of India, and to learn about the different cultures of the Himalayan regions.

Courses Conducted

Postgraduate – M.A./M.Sc.

Semester I (NEP-2020):

Social and Cultural Anthropology, Biological Anthropology, Archaeological Anthropology, Linguistic Anthropology, People of Northeast India.

Semester II (CBCS): Palaeo-anthropology, Prehistoric Cultures, Material Culture and Museum Method, Human Ecology and Adaptation, Anthropology of North East India.

Semester III (CBCS): Anthropology of India, Medical Anthropology, Field Work Methods and Techniques, Demography, Anthropology of Gender, Human Genetics, Practical in Biological Anthropology I, Human Growth and Body Composition.

Semester IV (CBCS): Theories in Anthropology, Development Anthropology, Economic Anthropology, Biostatistics, Dissertation and Viva-Voce, Biocultural Anthropology, Dental Anthropology, Practical in Biological Anthropology II.

> PhD Coursework

Research Methodology in Anthropology, Recent Developments in Social and Cultural Anthropology, Advanced Studies in Biological Anthropology, Review of Literature and Seminar, Research and publication ethics.

Publications

> Research Papers (11)

1. Limbu, D.K., Kamei, C., Haloi, H. (2022). The quality of antenatal care received by the Kabui Naga women of the Tamenglong district of Manipur, India and its impact on their infant and child mortality: A cross: sectional study. *Antrocom Journal of Anthropology*, 18 (2): 2011-2020.

- 2. Hadem, B.H.H., Khongsdier, R. (2022). Blood Pressure in Relation to Age, Body Mass Index and Socioeconomic Status among the Khasi Women of Sohra (Cherrapunji) of Meghalaya, India. *Anthropol. Ethnol. Open. Acc. Journal*, 5(2): http://doi: 10.23880/aeoaj-16000187.
- 3. Pojar, T., Langstieh, B. T., Hemphill, B. (2022). An initial investigation of dental morphology variation among three southern Naga ethnic groups of Northeast India. *American Journal of Biological Anthropology*, 179 (2): 184-210. DOI: 10.1002/ajpa.24605
- 4. Taid, R., Langstieh, B. T. (2022). Health Status of Menopausal Women: A Study on Menopausal Health of Mishing Women in Assam. *Antrocom: Online journal of Anthropology*, 18(2b): 427-437.
- 5. Malsawmkim, N., Dkhar, J. W. (2022). A Study on Nutritional Status and the Prevalence of Undernutrition among the Hmar Girls (4 To 12 Years) of Churachandpur District, Manipur. *Antrocom Online Journal of Anthropology*, 18(2):341-348.
- Nagi, T., Dkhar, J.W. (2022). Assessment of growth pattern and the age at menarche among the adolescent girls of Mising tribe, Assam, India. Antrocom Online journal of Anthropology, 18 (2):575-582.
- 7. Tsukru, V., Ghosh, S. (2023). Bio-social Correlates of Blood Pressure in Tribal population: A Case Study of the Mising Adults of North-East India. *South Asian Anthropologist*, 23(1): 1-11.
- 8. Ghosh, S. (2022). Biological Determinants of Blood Pressure among Marginalized Elderly Population. *Antrocom Online Journal of Anthropology*, 18(2): 545-557.
- 9. Ghosh, S., Peseyie, V. (2022). Prevalence of hypertension among the indigenous population in North-East India: Is this a consequence of "nutritional transition"? *American Journal of Human Biology*, 34(10): e23789. https://doi.org/10.1002/ajhb.23789.
- Peseyie, V., Ghosh, S. (2022). Association of socioeconomic status with obesity and hypertension among the adult Angami Naga of Nagaland, Northeast India. *Human Biology and*

- *Public Health*, 1. https://doi.org/10.52905/ hbph2022.1.27
- 11. Lohe, N., Ghosh, S. (2022). Occupational health hazards of stone quarry workers of Nagaland, India. *Human Biology and Public Health*, 1. https://doi.org/10.52905/hbph2022.1.25

> Book Chapters (3)

- 1. Marak, Q. (2023). Food. In *The Routledge Companion to Northeast India*. J.J.P. Wouters and T. B. Subba (Eds.). Routledge, London & New York, ISBN: 978-0-367-72566-2, Chapter 27, pp.169-173.
- 2. Marak, Q. (2023). Megalithic traditions. In *The Routledge Companion to Northeast India*. J.J.P. Wouters and T. B. Subba (Eds.). Routledge,

- London & New York, ISBN: 978-0-367-72566-2, Chapter 53, pp.324-329.
- 3. Marak, Q. (2023). Site museum as a strategy to protect archaeological sites: A case study from Garo Hills, Meghalaya. In *Global Concept of Cultural Heritage Management and Its Significance across the Ethnic Groups*. R. Ray Ed.). The Asiatic Society, Kolkata, ISBN: 978-81-946923-5-5, Chapter 1, pp. 22-37.

Proceedings (1)

1. Limbu, D.K (2023). Women empowerment in India: Need for sustainable development. In *Proceedings of the 108th Indian Science Congress*. RTM Nagpur University, Nagpur, pp.53.

EMR Research Projects to Individual Faculty Members

Title of Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of Investigator (Pl/Co-Pl)	Multi/Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Revisiting The Life and Works of Verrier Elwin in the North East India "Digital Preservation and propagation of Elwin's Work (46.64)	On-going	Prof. L.Zehol (PI)/ Prof. Q.Marak (Co-PI)	Single (2021-2024)	North Eastern Council- Shillong	NIL
G6PD Deficiency and Its Association with Arterial Hypertension Among the Angami Naga of North-East India (52.15)	On-going	Dr. Sudipta Ghosh (PI)	Multiple (2022-2025	SERB (DST), Govt. Of India.	31.90

Seminars/Conferences/Workshops/Symposia/ Extension Programmes

5. Attended

Prof. D. K. Limbu

Delivered lecture in the 108th Indian Science Congress held on January3-7, 2023 at Nagpur. Title of the presentation: "Women Empowerment in India: Need for Sustainable Development".

Dr. S. Ghosh

Presented a paper titled "Heterozygous advantage of angiotensin converting enzyme gene polymorphism among the Tawang Monpa of eastern Himalayan Mountains of India" in the 6th International Leh Symposium 2022 held at Leh, Ladakh organized by the CSIR-Institute of Genomics and Integrative Biology (IGIB), Delhi during 23rd-27th May, 2022.

Academic Collaborations

Annual Report (2022-2023)

National

1. Dr. S. Ghosh collaborated with Dr. Manish Kapoor, Department of Cardiology, NEIGRIHMS, Shillong, Meghalaya. Title of the project: G6PD Deficiency and Its Association with Arterial Hypertension among the Angami Naga of North-East India.

International

- 1. Prof. B. T. Langstieh collaborated with (i) Dr. Jeremy Koster, Associate Professor, Department of Anthropology, University of Cincinnati, Ohio (USA). (ii) Dr. Alexandra Alvergne, In-charge of Research (CNRS, France), Evolutionary Anthropology team, Institut des Sciences de l'Evolution de Montpellier (ISEM), Université de Montpellier, France in a NSF (US) project entitled "The Effect of Social Networks on Inequality: A Longitudinal Cross-Cultural Investigation".
- Dr. S. Ghosh collaborated with Prof. Vitalie Faoro, Université Libre de Bruxelles, Brussels, Belgium Title of the project: Exercise Capacity And Cardio-Pulmonary Responses Among Sherpa: Highlander Vs Migrant

Honours/Awards/Recognition/Membership/ Fellowship

Prof. G. Ranjan

- 1. Appointed Member of Curriculum Development Committee of the Department of Anthropology, Sikkim University.
- 2. Appointed External Subject Expert Member of the Board of Studies for the Department of Tribal Studies; Art, Culture & Folk literature, Indira Gandhi Tribal National University, Amarkantak.

Prof. B.T. Langstieh

- 1. United India Anthropological Forum (UIAF) Ex-Officio Joint Secretary Governing Council as Secretary, North East Zone.
- 2. Association for the promotion of DNA fingerprinting and other DNA technologies (ADNAT) Executive Council member 2023-2025.
- 3. Co-Supervision for PhD student (Ms. Loia Lamarque) 2022-2026 registered at Evolutionary Anthropology team, Institut des Sciences de l'Evolution de Montpellier (ISEM), Université de Montpellier, France.

Dr. Sudipta Ghosh

1. Awarded International Travel Award from Human Biology Association (HBA), USA on January 1st, 2023 for podium presentation in HBA

- meeting held in April, 2023 in Reno, Nevada, USA.
- 2. Awarded International Travel grant from Department of Science and Technology (DST), Govt. of India on March 17th, 2023 for podium presentations in AABA and HBA meeting held in April, 2023 in Reno, Nevada, USA.

Other Activities

Prof. G.Ranjan

- 1. Delivered the 2nd L.K. Mahapatra Memorial Lecture titled, "Historical Wrongs and the Aftermath: Journey of a Tribe" at Utkal University on 29th October 2022.
- 2. Delivered a lecture titled, "Language and Ethnicity" in the Refresher Course on Linguistics under the Theme "Promotion, Preservation and Documentation of Indian Languages', organized by UNHRDC, NEHU Shillong and Department of Linguistics, NEHU, Shillong on 4th June 2022.

Prof. B.T.Langstieh

- 1. Resource Person at the Orientation Programme for IAS (P) of 2021 Batch organized the Meghalaya Administrative Training Institute, Shillong (Dated 6th Sept 2022)
- 2. Reviewer for *International Journal of Human Biology*, John Wiley & Sons Publication, USA Scholar One Manuscripts.
- 3. Invited as visiting scholar to Institut des Sciences de l'Evolution de Montpellier (ISEM), Université de Montpellier, France (16th -30th July 2022)
- 4. Invited as Expert chairing a session at the 23rd International Symposium of Association for the promotion of DNA fingerprinting and other DNA technologies (ADNAT) held at the Banaras Hindu University (10th -12th March 2023).

Prof. Q. Marak

- 1. Resource person at the webinar organised by United Indian Anthropology Forum (UIAF), Gender Dialogue Series-II: Gender & Politics: Narratives from the Northeast of India, held on 30th April 2022., and presented a lecture titled, "Who is the 'Nokma'? A discourse on traditional leadership of the Garos".
- 2. Resource person at the UIAF webinar titled "Changing patterns of family and kinship in India" on 15th May, 2022 organised by UIAF CRD2 on the occasion of International day of family, and presented a lecture titled "The relevance of Matriliny today".
- 3. Delivered two lectures on the topic "Mapping the past: From sampling sites and landscapes to

- exploring the archaeological continuum" on 4th and 6th April, 2022 in the RET Coursework, 2022 organised by the Department of Anthropology, Calcutta University.
- 4. Reviewer of the following journals: (a) Journal of the Kolkata Society for Asian Studies, (b) Journal of Indian Anthropological Society, (c) Ancient Asia, (d) Journal of Indo-Pacific Archaeology, (e) Glocalism, (f) Indian Journal of Anthropological research, (g) Man in India, and (h) Journal of Anthropological Survey of India.

Dr. S. Ghosh

- 1. Delivered a talk titled "Bergmann's Rule and Thermoregulation: a Comparison between Human Adaptation to Cold and Warm Climatic Conditions" in the Indian Anthropology Congress under the aegis of Indian National Confederation and Academy of Anthropologists (INCAA) organized by the department of anthropology and tribal studies, Sidho-Kanho-Birsha University, Purulia, West Bengal, during February 21-23, 2023.
- Delivered a talk titled "Human Diversity and Variation: Comparison of two ethnically diverse tribal populations from India" in an International Conference on Contemporary trends in socio-

- cultural and Biological Variation: Revisiting Ethnographic methods of Human Diversity during February 13-14, 2023 organized by Department of Anthropology, Dr. Harisingh Gour Vishwavidyalaya, Sager (M.P), India and Palaeoanthropology Research Centre, Moscow, Russia.
- 3. Paper titled "Hypoxic Ventilatory Response in Relation to Hypobaric Hypoxia: Comparative Study between Peruvian Andean from America and Tawang Monpa from India" presented in the technical section 'Anthropology and Behavioral Sciences' held from 3-7 January, 2023 during the 108th Indian Science Congress held in Nagpur, Maharashtra.
- 4. Co-Chaired a scientific session in the section of Anthropological and Behavioural Sciences in the 108th Indian Science Congress held in Nagpur, Maharashtra, from 3-7 January, 2023.
- 5. Delivered an invited talk titled "Nutritional Status of Orphan and Non-Orphan Meitei Children and Adolescents of Manipur, North-East India" in Russian-Indian Workshop on "Children's Growth and Health" on 17 October 2022.
- 6. Reviewer of (a) Journal of Health, Population and Nutrition, BMC, Springer Nature (b) International Journal of Obesity.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

		1		Prof.	Prof. Lucy	Prof. D.K.
	Name		1	R.Khongsdier	T.V.Zehol	Limbu
			2		19.8.1993	26.07.2001
	Date of Joining		2	01.04 1997		
D-4-:1£	F:-14 - £			Biological	Cultural	Physical
Details of	Field of		2	Anthropology	Anthropol	Anthropolo
Faculties	specialisation		3		ogy	gy
(A)	UG		4	No	No	5
Teaching			'	110	110	<u> </u>
Experience	DC: 1 II DID		_	26	20	22
(in Years)	PG, including PhD Basic Research		5	26 Yes	30 Yes	22
			6 7			Yes
	Applied Research			Yes	Yes	Yes
	Action Research		8	Yes	Yes	Yes
	Project Submitted		9	No	No	No
	Ongoing Project		10	No	Yes	No
	Research Paper in	Group I	11	No	No	No
	UGC care list	G 11	1.0	3.7	3.7	
	journals	Group II	12	No	No	3
		Books	13	No	No	No
	Books /Books	Book		3.7	3.7	3.7
	chapters Published	Chapters	14	No	No	No
	Popular Articles					
	(News Paper/			3.7	3.7	3.7
	Magazines)	37.1.1	15	No	No	No
	Seminar /	National	16	No	No	No
	Conference/					
	Symposia	T	1.7	3.7	3.7	3.7
	organized	International	17	No	No	No
	Seminar /	National	18	No	No	No
	Conference/					
(D)	Symposia attended	Intomotional	10	No	No	Na
(B)	Conference	International	19	No	No	No
Research			20	NT-	NT-	NT-
activities	Proceedings		20	No	No	No
	Consultancy		21	No	No	No
	Applied		22	No	No	No
(C)						
Patent	Published		23	No	No	No
	Granted		24	No	No	No
(D)	MOOC/SWAYA					
(D)	M/ E-content		2.5	3.7	3.7	3.7
E-Content	developed		25	No	No	No
	Teaching					
	/Extension		26	NI.	W.	W.
	/outreach activities		26	No	Yes	Yes
	Responsibilities		27	N.T.		37
	other than teaching		27	No	Yes	Yes
	Awards/ Honours/					
	Recognition/					
	Membership/		20	NI.	V	N.
(E)	Fellowship	NT / 1	28	No	Yes	No
(E)	C 11 1 ···	National	29	No	No	No
Any Other	Collaborations	International	30	No	No	No

Details of Faculties	Name		1	Prof. G. Ranjan	Prof. B.T.Langstieh	Prof. Q. Marak
	Date of Joining		2	17.04.2009	28.06.2002	10.4.2002
	Field of specialisation		3	Social-cultural Anthropology	Biological Anthropology	Archaeologica l Anthropology
(A) Teaching	UG		4	10	No	No
Experience (in Years)	PG, including PhD		5	14	21	21
	Basic Research		6	Yes	Yes	Yes
	Applied Research		7	Yes	Yes	Yes
	Action Research		8	Yes	Yes	Yes
	Project Submitted		9	No	No	No
	Ongoing Project		10	No	Yes	Yes
	Research Paper in	Group I	11	No	1	No
	UGC care list journals	Group II	12	No	1	No
	Books /Books chapters	Books	13	No	No	No
(B)	Published	Book Chapters	14	No	No	3
Research activities	Popular Articles (News Paper/ Magazines)		15	No	No	No
	Seminar / Conference/	National	16	No	No	No
	Symposia organized	International	17	No	No	No
	Seminar / Conference/	National	18	No	No	No
	Symposia attended	International	19	No	1	2
	Conference Proceedings		20	No	No	No
	Consultancy		21	No	No	No
	Applied		22	No	No	No
(C)	Published		23	No	No	No
Patent	Granted		24	No	No	No
(D) E-Content	MOOC/SWAYAM/ E- content developed		25	No	Yes	No
	Teaching /Extension /outreach activities		26	No	Yes	Yes
	Responsibilities other than teaching		27	Yes	Yes	Yes
(E) Any Other	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	Yes	No
	Collaborations	National	29	No	No	No
		International	30	No	Yes	No

Details of	Name		1	Dr. J.W.Dkhar	Dr. Sudipta Ghosh
Faculties	Date of Joining		2	10.04. 2002	01.02.2010
	Field of		3	Physical	Biological
	specialisation			Anthropology	Anthropology
(A) Teaching	UG		4	No	1.5
Experience (in Years)	PG, including PhD		5	21	13
	Basic Research		6	Yes	Yes
	Applied Research		7	Yes	Yes
	Action Research		8	Yes	Yes
	Project Submitted		9	No	No
	Ongoing Project		10	No	Yes
	Research Paper in	Group I	11	2	5
	UGC care list	Group II	12	No	No
	journals	D1	1.2	NI.	NT.
(B)	Books /Books	Books	13	No	No
Research	chapters Published	Book Chapters	14	No	No
activities	Popular Articles (News Paper/ Magazines)		15	No	No
ı	Seminar /	National	16	No	No
	Conference/ Symposia organized	International	17	No	No
	Seminar /	National	18	No	2
	Conference/ Symposia attended	International	19	No	3
	Conference Proceedings		20	No	No
	Consultancy		21	No	No
	Applied		22	No	No
	11				
(C)	Published		23	No	No
Patent	Granted		24	No	No
(D) E-Content	MOOC/SWAYAM / E-content developed		25	No	No
	Teaching /Extension /outreach activities		26	No	No
(E)	Responsibilities other than teaching		27	No	Yes
(E) Any Other	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	Yes
	Collaborations	National	29	No	Yes
		International	30	No	Yes
	1	International	100	1 1 10	1 05

DEPARTMENT OF ENVIRONMENTAL STUDIES

Head: Dr. S. S. Chaturvedi

Telephone: +91-364-272 1160

E-mail: hodenv@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
	Dr. D. Paul, M.Sc. (NEHU)	Integrated Pest Management, Bio source utilization, EIA
Professor	Dr. M. S. Bisht, M.Sc. (Univ. of Jodhpur), PhD. (Delhi Univ.)	Environmental Impact Assessment and Radiation Biology
Associate Professor	Dr. S. S. Chaturvedi, M.Sc. (Gorakhpur Univ.), Ph.D. (BHU)	Environmental monitoring & abetment, climate change monitoring & mitigation and natural resource management.

Thrust Areas of Research

Natural Resource Management, Environmental Remediation Monitoring and of Degraded Ecosystems, Forest Management, Forest Biodiversity monitoring and management, land reclamation (Social/agro forestry) and rural development, policy Forests 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 microseismicity 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, and 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 Studies and 1 research scholar was awarded Doctorate degree.

Students' Profile

- > Enrolment Capacity: M.Sc.:28Ph.D.: Variable
- > Enrolment of students from different States of India and Abroad (M.Sc.)

	Gen		ST		SC		OBC	7	EWS	5	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	2	-	-	-	-	-	-	-	-	1	-	-	2	1
Manipur	1	1	2	2	-	-	-	-	-	-	-	-	3	3
Meghalaya	-	-	7	10	-	-	-	-	-	-	-	-	7	10
West Bengal	1	1	-	-	-	-	-	-	-	-	-	-	1	1
Total	6		21		-		-		1		-		28	

Degrees Awarded

- > Degree: M.Sc.: 27, Ph.D.: 01
- > Degrees Awarded to students from different States of India and Abroad (M. Sc.)

	Gen		ST		SC		OBC	7	EWS	5	PWD		TOT	AL
STATES	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	2		22		-		-		3		-		27	

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		ОВС		EWS		PWD		TOTAL	
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Total	-		_	•	1	-	-		-	•	-		1	

Name of Student	Title of Thesis	Name of Supervisor
Ms. Sumita Biswas	Isolation and Characterization of Cellulase Producing Bacteria from Gut Microbiota of Selected Herbivorous Insects	Prof. D. Paul

Placement of Students

Name of the Student(s)	Organization	Place of Work
Fluency Marbaniang	Science College Mairang	Mairang
Kitborlang Nongrum	External Expert (Environment	Basin Meghalaya
	Management)	
Trustina Kharmawlong	DTO Office	DTO Office Mairang
Shimtilin Lyndem	Field Assistant	BRDC (Bio Resources
		Development Centre)

Fieldwork/Educational Tour of Students

Teacher-in-Charge: Dr. S. S. Chaturvedi **Places/Institutions Visited:** Kanyakumari and Chennai

Duration of Tour (Dates and number of days): 14th to 27th January 2023 (14 days) **Purpose of Tour:** Visit to sites of Environmental Significance

Courses Conducted

Postgraduate – M.Sc.

Semester I (NEP-2020):

Environment, Ecology and Ecosystem
Dynamics; Environmental Pollution; Forest
Management; Remote Sensing and Geographical
Information System; Contemporary
Environmental Issues and Problems of India.
Semester II (CBCS): Environmental

Semester II (CBCS): Environmental Microbiology, Biotechnology and Toxicology; Environmental Impact and Risk Assessment; Natural Resource Management; Radiation Biology; Research Methods, Techniques and Statistical Analysis; Analytical Methods in Environmental Sciences.

Semester III (CBCS):Environmental Geo Science and Energy; Research Methods, Techniques and Statistical Analysis; Practicals;

Disaster Management; Environmental Issues and Problems of North East India.

Semester IV (CBCS): Environmental Economics and Sociology; Forest Management and Biodiversity Conservation; Practicals; Project Work and Field Work/ Study Tour

> PhD Coursework

Research and Publication Ethics; Research methodology in Environmental Science; Contemporary Environmental Science

Seminars/Conferences/Workshops/ Symposia/Extension Programmes:

- 1. One day workshop on Bird Monitoring on 3rd June 2022 in collaboration with Bird Count India.
- 2. One day webinar on Impact of climate change on polar regions on 11th June 2022 in collaboration with Indian Polar Research Network-Association of Early Career Scientists (IPRN-AECS), India.

Publications

6. Research papers (2)

1. Dubey, P., Chaturvedi, S. S., Jha, S. K., Hage, M., Pyngrope, W., Singh, S. S. (2022). Assessment of socio-ecological vulnerability to climate change:

- A demonstrative study from northeast India. *Hill Geographer*, XXXVIII (I): 19-34.
- 2. Dubey, P., Chaturvedi, S. S. (2022). Assessment of livelihood vulnerability to climate change: A study from northeast, India. *J. Himalayan Ecol. Sustain. Dev.*, 17: 1-16.

7. Book Chapters (4)

- 1. Paul, D., Alfred, J. R. B., Darlong, V.T., Vatsauliya, P.K., Nongmaithem, A. (2022). Diversity of soil Mesofauna under traditional Jhum and sedentary agro-ecosystems of Meghalaya. In A Tradition in transition: Understanding the role of Shifting cultivation for Sustainable development of North-East India. TERI, New Delhi, Chapter 9, pp. 198-218.
- Oinam, S., Bajwa, H.K., Aribam, I., Bano, S., Dolma, N., Bisht, M. S., Nirmala, C. (2023). Novel Food Product Development through Foodto-Food Fortification with Nutrient and Bioactive-Rich Bamboo Shoot. In *Bamboo*

- Science and Technology. F. L. Palombini and F. M. Nogueira (Eds.). Springer, Singapore, ISBN: 978-981-990014-5, 978-981-99-0015-2 (eBook), Chapter 4, pp. 67-88.
- 3. Saini, N., Nirmala, C., Bisht, M. S. (2023). Bamboo Shoot Processing: Conventional to Modern Optimization. In *Bamboo Science and Technology*. F. L. Palombini and F. M. Nogueira (Eds.). Springer, Singapore, ISBN: 978-981-990014-5, 978-981-99-0015-2 (eBook), Chapter 7, pp. 163-200.
- 4. Syiemiong, P., Chaturvedi, S. S. (2022). Application of allometric equations to estimate carbon stock and above ground biomass in Narpuh wildlife Sanctuary, Meghalaya. In Conservation of Biodiversity in the North Eastern Studies of India. R. V. S. Uppaluri and L. Rangan (Eds.). Springer, Singapore, ISBN: 978-981-99-0944-5, ISBN 978-981-99-0945-2 (eBook), Chapter 6, pp.99-111.

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	1.0

Other Activities

Prof. D. Paul

Delivered two invited lectures on "Environmental Governance" and "Management of different kinds of Environmental Pollution" at Regional training Institute in Mid-career Training programme (Level-3) on 04-06-2022.

Dr. S. S. Chaturvedi

Was Institutional Coordinator (NEHU) for Indian Institute of Remote Sensing (IIRS) & Indian Space Organization (ISRO) organized Out Reach Programs.

Prof. M. S. Bisht

Was Resource Person in Academic Staff College NEHU, Shillong on 8.05.2022. He delivered lecture on "Chromosomal Similarity and Diversity in the Evolution of Plants and Animals".

SUMMARY SHEET FOR THE ACADEMIC YEAR $1^{\rm ST}$ APRIL 2021 TO $31^{\rm ST}$ MARCH 2022

Details	Name		1	Prof. D.	Prof. M. S.	Dr. S. S. Chaturvedi
of				Paul	Bisht	
Faculties	Date of Joining		2	07-04-1997	04-09-2018	19-05-2003
	Field of specialisation		3	Entomology / Ecology	Environmental Impact Assessment and Radiation Biology	Environmental monitoring & abetment, climate change monitoring & mitigation and natural resource management
(A)	UG		4	No	No	No
Teachin g Experien ce (Yrs)	PG, including PhD		5	25	1	25
	Basic Research		6	Yes	Yes	Yes
	Applied Research		7	Yes	Yes	Yes
	Action Research		8	No	Yes	No
	Project Submitted		9	No	No	No
	Ongoing Project		10	No	No	No
	Research Paper in	Group I	11	No	No	2
	UGC care list journals	Group II	12	No	No	No
	Books /Books	Books	13	No	No	No
(B) Research	chapters Published	Book Chapters	14	1	2	1
activities	Popular Articles (News Paper/ Magazines)		15	No	No	No
	Seminar / Conference/	National	16	No	No	1
	Symposia organized	Internationa l	17	No	No	No
	Seminar / Conference/	National	18	No	No	No
	Symposia attended	Internationa l	19	No	No	No
	Conference Proceedings		20	No	No	No
	Consultancy		21	No	No	No
	Applied		22	No	No	No
(C)	Published		23	No	No	No
Patent	Granted		24	No	No	No
(D) E- Content	MOOC/SWAYAM/ E-content developed		25	No	No	No
	Teaching /Extension /outreach activities		26	Yes	Yes	Yes
	Responsibilities other than teaching		27	Yes	Yes	Yes
(E) Any Other	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	No	No
	Collaborations	National	29	No	No	No
		Internationa 1	30	No	No	No

DEPARTMENT OF FORESTRY (TURA CAMPUS)

Head-In-Charge: Prof. C.P. Suresh **Telephone:** +91-8974455216

E-mail: hodforestry@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
Professor	Dr. C.P. Suresh, M.Sc. (BCKV),	Fruits and Orchard Management, Post-
	Ph.D. (BCKV)	Harvest Technology of Horticultural Crops

Thrust Areas of Research

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.

- 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, socioeconomic 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.

Students' Profile

- > Enrolment Capacity: M.Sc.:15, Ph.D.: Variable
- > Enrolment of students from different States of India and Abroad (M.Sc.)

	Gen	Gen			SC		OBC		EWS		PWD		TOTA	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Assam	1	-	-	-	-	-	-	-	-	-	-	-	1	-

Bihar	1	-	-	-	-	-	-	-	1	-	-	-	2	-
Kerala	-	-	-	-	-	1	-	-	-	-	-	-	-	1
Manipur	-	-	-	-	-	1	-	-	-	-	-	-	-	1
Meghalaya	-	-	1	2	-	-	-	-	-	-	-	-	1	2
Mizoram	-	-	-	1	-	-	-	-	-	-	-	-	-	1
West Bengal	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Total	3		5		2		-		1		-		11	

Degrees Awarded

Degree: M.Sc. (8)

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

	Gen	Gen			SC		OBC	,	EWS	5	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Meghalaya	-	-	1	5	-	-	-	-	-	-	-	-	1	5
Total			1	7	-		-		-		-		8	

Fieldwork/Educational Tour of Students

Teacher-in-Charge: Prof. C. P. Suresh

Places/Institutions Visited: Trivandrum, Bangalore/CTCRI, KAU Trivandrum, Mangrove Forest Poovar Trivandrum, Low land paddy cultivation, Alapuezha, IIHR, CFTRI Mysore, TNAU, FCRI Mettupalayam, Fruit Research Station, Kanyakumari, NBPGR Thrissur, KAU Thrissur, Pineapple Research Institute, Banana Research Station Kannara, KFRI Pechi,

Duration of Tour (Dates and number of days):19 days (1st February to 20th February 2023).

Purpose of Tour: Educational

Courses Conducted

> Postgraduate – M.Sc.

Semester I (NEP 2020): Silviculture, Silvicultural Practices. Interactions Plantation, **Systems** Agroforestry Forestry Climate Change and Conservation Silviculture, General Statistical Methods and Computer Applications, Basic Concepts In Laboratory Techniques Agricultural Research, Research Ethics and Rural Development Programmes, Masters Seminar.

Semester-II (CBCS): 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 Property and Its Management in Agriculture, Masters seminar.

Semester-III (CBCS): Specializations Offered: Wood Science and Technology, Medicinal and Aromatic Plants, Plantation Technology, Watershed Management, Eco-Tourism, Agro-Forestry, Forest Genetic Resources, Forest Biotechnology, Environment Management, Forest Business Management

Semester-IV (CBCS): Masters Research, Masters Comprehensive Examination.

Deficiency course compulsory non-credit for B.Sc. Agri./Hort. Stream

Principles and Practices of Silviculture, Forest Mensuration, Principles of Tree Improvement, Wild Life Management, Wood Products and Utilization, Forest Management, Policy and Legislation.

Seminars/Conferences/Workshops/

Symposia/Extension Programmes

> Attended/Delivered Lecture Prof. C. P. Suresh

- 1. Acted as chairman of technical session "Technological advancement and innovation in allied sectors" and delivered a lead lecture on 2. "Horticultural entrepreneurship in India" at the National seminar on *Technological advancement, innovation and entrepreneurship development in agriculture and allied sectors* organised by NAHEP, UBKV Cooch Behar on 16th March 2023.
- 2. Acted as Co-chair of technical session and delivered invited expert talk on "Empowerment of

women through intervention for improved livelihood" at the stallholder organised by CCS, Central Agricultural University, Tura, dated 22nd March 2023.

- 3. Delivered short speech on career counselling on Science subject to students of Jawahar Navodaya Vidyalaya, West Garo Hills District on 27th March 2023.
- 4. Acted as a resource person for seminar on "National Education Policy- 2020- its

Implementation and Prospects on ABC" jointly by Department of Education, NEHU, Tura with the Mendipathar College, 17th March 2023.

> Academic Collaborations

 Prof. C.P. Suresh collaborated with Department of Forestry, Uttar Banga Krishi Vishwavidyalaya, West Bengal and ICAR, Research Complex for NEH Region, Umian, Meghalaya.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

Details of	Name		Prof. C. P. Suresh
Faculties	Date of Joining		28.06.2013
	Field of specialisation		Horticulture
(A)	UG		12
Teaching Experience (in Years)	PG, including PhD		22
(B)	Basic Research		Yes
Research activities	Applied Research		No
detivities	Action Research		No
	Project Submitted		No
	Ongoing Project		No
	Research Paper in	Group I	Yes
	UGC care list journals	Group II	No
	Books /Books chapters	Books	No
	Published	Book Chapters	Yes
	Popular Articles (News Paper/ Magazines)		Yes
	Seminar / Conference/	National	Yes
	Symposia organized	International	No
	Seminar / Conference/	National	08
	Symposia attended	International	No
	Conference Proceedings		Yes
	Consultancy		No
(C)	Applied		No
Patent	Published		No No
(D)	Granted MOOC/SWAYAM/ E-		No No
E-Content	content developed		
(E)	Teaching /Extension		No
Any Other	/outreach activities Responsibilities other		Yes
	than teaching Awards/ Honours/ Recognition/ Membership/ Fellowship		No
	Collaborations	National	Yes
		International	No

DEPARTMENT OF GEOGRAPHY

Head: Prof. L. Cajee

Telephone: +91-364- 272 3201
E-mail: hodgeo@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
	Dr. D. K. Nayak, M.Phil., Ph. D.	Population Geography
	(JNU)	
Professor	Dr. H. J. Syiemlieh, M.Phil., Ph.D.	Fluvial and Applied
	(NEHU)	Geomorphology
	Dr. Sunil Kumar De, M.Sc., Ph.D.	Environmental Geomorphology;
	(Calcutta University)	Geomorphological Hazards
	Dr. L.Cajee, M.Sc, Ph.D. (NEHU)	Biogeography and Geography of
		Tourism
	Dr. P. K. Ryngnga, M. Phil., Ph.D.	Regional Development, Urban
	(JNU)	Planning, Remote Sensing & GIS
Associate	Dr. S. Purkayastha, MA, Ph.D	Population Geography, Social
Professor	(NEHU)	Geography, NorthEast 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. **Students' Profile**

> Enrolment Capacity: M.A./M.Sc.:46, Ph.D.: Variable

> Enrolment of students from different States of India and Abroad (M.A./M.Sc.)

									•		,			
	Gen		ST		SC		OBC		EWS	5	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Assam	3	6	1	2	-	-	-	-	-	-	-	-	4	8
Meghalaya	-	-	9	5	-	-	-	-	-	-	-	-	9	5
Mizoram	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Chhattisgarh	-	1	-	-	-	_	-	-	-	-	-	-	-	1
Tripura	-	-	2	-	-	-	-	-	-	-	-	-	2	-
West Bengal	3	3	-	-	-	1	-	-	-	-	-	_	3	4
Total	16		21		1		-		-		-		38	

> Enrolment of students from different States of India and Abroad (P.G. Diploma)

STATES	Gen				SC	SC		C	EW	'S	PWD)	TO	ΓAL
M		F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	1	-	1	-	-	1	-	-	-	-	-	-	2	1
Meghalaya	-	-	12	16	-	-	-	-	-	-	-	-	12	16
Total	1	1		29		1			-		-		31	

> Enrolment of students from different States of India and Abroad (Ph.D.)

STATES	Gen			ST		SC		С	EW	S	PWD)	TO	ΓAL
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Pradesh														
Assam	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Meghalaya	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Nagaland	-	-	-	1	-	-	-	-	-	-	-	-	-	1
West Bengal	-	2	-	-	-	-	-	-	-	-	-	-	-	2
Total	2	•	4	•	-	•	-	•	-		-	•	6	

Degrees Awarded

- > Degrees Awarded to students from different States of India and Abroad
- > Degree: M.A./M.Sc. (45)

	Gen	Gen		ST			OB	C	EW	/S	PWI	D	TO	TAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Assam	2	6		1	-	1	-	-	-	-	-	-	2	8
Manipur	-	1	2		=	-	-	-	-	-	-	-	2	1
Meghalaya	-	-	11	14	-	-	-	-	-	-	-	-	11	14
Mizoram	-	-	1	1	-	-	-	-	-	-	-	-	1	1
Nagaland	-	-	-	3	-	-	-	-	-	-	-	-	-	3
West Bengal	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Sub Total	10		34		1		-	I.	-		-		45	-11

> Degree: P.G. Diploma

	Gen		ST		SC		OB	С	EW	S	PWI)	TO	ΓAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	1	2	-		-	-	-	-	-	-	-	-	1	2
Jharkhand	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Manipur	-	1	-	1	-	-	-	-	-	-	-	-	1	1
Meghalaya	-	-	5	13	-	-	-	-	-	-	-	-	5	13
Mizoram	-	-	1	1	-	-	-	-	-	-	-	-	1	1
Nagaland	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Total	-	-	1	7	-		-		-		-	•	29	

> Students Awarded Ph.D. Degree (9)

	Gen			ST		SC		7	EWS	6	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	1	-		-	-	-	-	-	-	-	-	-	1
Manipur	-	-	1	1	-	-	-	-	-	-	-	-	1	1
Meghalaya	-	-	2	2	-	-	-	-	-	-	-	-	2	2
West-Bengal	-	1	-	-	1	-	-	-	-	-	-	-	1	1
Total	2		6		1		-		-		-		9	

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Mr. Tumtin	Forest Ecosystem and crop productivity	Prof. A.C. Mohapatra/ Prof.
Sonmang Koren	Dynamics in Terrace Farms of Senapati	B.S. Mipun
	District, Manipur	-

Mr. Hiranmay	Adaptive Strategies Associated with	Dr. S. Purkayastha
Rishi	Floods in Tal and Diara Regions of	
	Malda District, West Bengal	
Mr. Preciouswell	Impact of the Widening of the Jorabat-	Prof. D.K. Nayak/
Nongsiej	Umiam National Highway-40 on Local	Prof. H.J. Syiemlieh
	Environment and Responses	-
Ms. Sarmistha	Assessment of River Health: A Study of	Prof. Sunil Kumar De
Mallick	Ranikhola River, Sikkim	
Ms. Amritee Bora	Land Degradation Vulnerability	Prof. B.S. Mipun
	Assessment in selected Micro-watersheds	_
	of West Khasi Hills District Meghalaya	
Mr. Repenstar	Distribution and Characteristics of Bed-	Prof. H.J. Syiemlieh
Khongjee	load in the Upper Umran River,	
	Meghalaya	
Ms. Phidalin	Intra-Urban Traffic Congestion and	Prof. P.K. Ryngnga
Kharmih	Management in Shillong Municipality.	
Ms. Niangpi	Livelihood Pattern of the Jhumias: A	Prof. B.S. Mipun
Guite	Comparative Study of the Karbis and the	_
	Kukis of Karbi Anglong District, Assam	
Ms. Baiaroihun	Political Economy of Resource Conflicts	Prof. A.C. Mohapatra/
War Shumbin	in North East India	Prof. P.K. Ryngnga

Research Fellowship

CSIR-UGC- NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others
5	-	-	-	1	1

Fieldwork/Educational Tour of Students

Teacher-in-Charge: Prof. H. J. Syiemlieh Places/Institutions Visited: Saiden, Meghalaya Duration of Tour (Dates and number of days): 10 days (11-20 Feb, 2023) Purpose of Tour: To enable students to understand how to observe and recognise natural features and its relationship. Field work is intended to help students learn to collect data from the field, team work as well as giving them experience to rural life.

Courses Conducted

> Postgraduate – M.A./M.Sc.

Semester I (NEP 2020): Geomorphology; Climatology, Economic Geography, Geographical Thought – 1, Quantitative Techniques in Geography-1, Cartography Semester II (CBCS): Geography of India; Principles of Ecology; Bio-Geography; **Population** & Settlement Geography; Geographical Thought-II; Quantitative Techniques in Geography-II; Cartography-II Semester III (CBCS): Regional Development & & Cultural Planning; Social Geography; Environment & Development; Research Methodology; Computer Aided Cartography; Remote Sensing & GIS

Semester IV (CBCS): Environmental Geomorphology; Tropical Geomorphology; Applied Geomorphology; Geography of Tourism; Urban Geography; Social Geography of India; Population & Development; Dissertation

> Ph.D. Coursework

Research and publications ethics; Research Methodology in Geography; Geo-hydrological Processes in Extreme Humid Tropics/Population, Development & Environment/Geographical Perspectives in Cultural Tourism

Seminars/Conferences/Workshops/Symposia/ Extension Programmes

> Attended/Delivered Lecture

D. K. Nayak

- 1. Key speaker in One-day National webinar on Research innovation and ranking in higher education institutions conducted by UGC-HRDC, North-Eastern Hill University, on 18th May 2022. Title of presentation: "Promoting multi-disciplinary approach in social science disciplines".
- 2. Delivered a lecture at the ICSSR sponsored Capacity Building programme for faculty members in social science at Nagindas Khandwala College, Mumbai, from 27th June 2022 to 9th July 2022. Title of presentation: "Formation and testing of hypothesis".
- 3. Delivered a plenary lecture in the International web-conference on *Understanding urban ecosystem and moving towards sustainability* at Patna Women's College, Patna, on 22-24 August, 2022. Title of presentation: "Urbanization and environment: Challenges and prospects".
- 4. Attended International seminar on *Sustainability* towards a renewing existence at Synod College, Shillong, on 25-26 August, 2022. Paper presented: "Challenges of sustainable environment".
- 5. Delivered plenary lecture in the International seminar on *Essence of Geography: What, Where, Why, and How* at Cooch Behar Panchanan Barma University, Cooch Behar, West Bengal on 11-12 November, 2022. Paper presented: "Essence of human geography".
- 6. Delivered a plenary lecture at the 43rd IIG international conference on *Challenges of future earth: social, economic and environmental sustainability* on 1-3 December 2022 at the Department of Geography, Osmania University, Hyderabad. Title of presentation: "The divide between indigenous and scientific knowledge in sustainable development discourse".
- 7. Attended One day national webinar on *New Education Policy 2020*, UGC-HRDC, North-Eastern Hill University, 9th December, 2022. Title of presentation: "NEP 2020: Assessment and evaluation in higher education institutions in India".
- 8. Panel discussion in North East regional consultation for *Knowledge building on health and family welfare in Northeast region* at Radisson Blu Hotel, Guwahati, on 10th February 2023, held by Population Council of India. Title of presentation: "Adolescent health".

9. Delivered plenary lecture in the 30th biennial conference of the North East India Geographical Society and ICSSR sponsored national seminar on *In quest of a sustainable earth*, at Sibsagar Girls College, Assam, on 24-25th March, 2023. Title of presentation: "Environmental sustainability under neo-liberal influence".

H.J. Syiemlieh

- 1. Attended Symposium on *Soft measures for Flood and Erosion control in Meghalaya*, Organised by Regional Office Brahmaputra Board, Shillong, on 5 August, 2022, Paper presented: "Long term Climate Variations on the Meghalaya Plateau and Recent observations".
- 2. International seminar on *Sustainability towards a renewing existence*, Synod College, Shillong, on 25-26 August, 2022. Paper presented: "Climate Uncertainty: How do we understand Sustainability in North East India?".
- 3. EJEA International Conference 2022 on Innovation and Action for Managing Urgent Future Local and Global Issues and Domains in Japan and Europe, hosted by Fraunhofer Institute for Applied Information Technology FIT, Germany, on 24 & 25 November 2022. Paper presented: "Reviving water resilient communities: An approach towards achieving SDGs in Meghalaya: A Case study of surviving Community forests".
- 4. International Workshop on *Indigenous Technologies*, at Kiel University, Germany, on 20 August, 2022. Paper presented: "Sacred groves and community protected forests in Khasi and Jaintia hills, Meghalaya, India: A Case study of few variants in Indigenous Knowledge Practices".
- 5. Seminar on *Climate Change: Its impact in rural areas, agriculture and food supply* and delivered a Keynote address on Climate Change at Nongstoin College, on 24th March 2023. Presented a paper titled, "Climate Change and its Impact on Rural areas".

S. K. De

1. Attended 10th International Conference on Geomorphology on 12-16 September, 2022, at Coimbra, Portugal. Presented two papers: "Quantifying the Rapid Expansion and Outburst Susceptibility of Cascading Moraine-dammed lakes in the Sikkim Himalaya: the case of Gurudongmar Lake Complex" and "Risk Analysis of Hydro-Power Projects along the Nagavali River, Odisha-Andhra Pradesh".

- 2. 34th National conference of the Indian Institute of Geomorphologists (IGI) on Geomorphology, Natural Hazards and Environment organized by the Department of Geography, Savitribai Phule Pune University, Pune on November 2-4, 2022. Delivered lecture as the Chief Gust in the session, Chaired the Young inaugural Geomorphologists Session and given lecture as a "75 panellist on Years of Indian Geomorphology".
- 3. EGCON 2022: International Conference on Engineering Geology and Geotechniques for Safe and Sustainable Infrastructures organized by the Indian Society of Engineering Geology (ISEG) in Novotel Hotel & Residences, New Town, Kolkata, 16-17 November, 2022. Keynote Lecture on "Application of Geomorphology in Sustainable Engineering Practices: Examples from Hilly Areas".
- 4. 43rd IIG Annual Meet and International Conference on *Challenges of Future Earth: Social, Economic and Environmental Sustainability* organized by the Department of Geography, Osmania University, Hyderabad during December 1-3, 2022. Plenary lecture topic: "Impact of human activities on the changing morphology and water quality of the Haora River, Tripura, India".
- 5. UGIT's International Conference on *Climate Change: Environmental and Soil Sustainability Advanced Geospatial Solutions* held in the Department of Geography, Bengaluru University during 9-11 December, 2022. Delivered lecture as a distinguished speaker on "Impact of Climate Change on Landslides".
- 6. 44th Indian Geography Congress on *Climate Change, Water Resource, Agriculture and Sustainable Development* hosted by the Department of Studies and Research in Geography, School of Applied Sciences, Rani Channamma University, Belagavi during December 19-21, 2022. Presented paper on "Human Interference on River Health".
- 7. Chaired the Plenary Session in XVII DGSI (The Geographical Society Deccan of India) International Geography Conference Monitoring and Management of Indigenous Resources for Self-Reliance and Environmental Sustainability using Geospatial Technology held in the Department of Geography, Banaras Hindu University, Varanasi during 25th-27th February, 2023. Lead Lecture on "Application Geomorphology in Sustainable Engineering Practices: Examples from Hilly Areas".

8. Chaired a technical session in the Online International Conference on *Environment, Water, Agriculture, Sustainability and Health (EWASH-2022): Strategizing a greener future* and 4th Annual Meet of STE jointly organized by the Save the Environment and Hindu College, University of Delhi, Delhi12-13 during January, 2023.

L. Cajee

1. Attended International seminar on Sustainability towards a renewing existence at Synod College, Shillong, on 25-26 August, 2022. Paper presented: "Scenario of urban transport and traffic congestion in hilly city: A case study in Kohima city, India".

P. K. Ryngnga

- 1. Attended National Conference cum Workshop on *Geo-Spatial Intelligence for Environmental Hazards and Disaster Management*, at Raja Narendra Lal Khan Women's College, Midnapore on 5th-6th March 2022. Presented a paper on "Identification of Flood prone areas in Lower Keleghai River Basin using GIS based Analysis".
- 2. 8th GOGREEN SUMMIT, International Society of Environmental relationship and Sustainability (ISERS) on 1st June 2022 at Bali Indonesia (Blended mode). Presented paper on "Positive Impact of Covid-19 lockdowns on environment for Sustainable Development".
- 3. International Seminar on Sustainability towards a renewing existence, Synod College, 25th-26th August 2022. Presented paper on "Organic Gardening: Building Urban self-Sustainability during Pandemic times in Shillong".
- 4. International seminar on Sustainability towards a renewing existence, Synod College, Shillong, 25-26 August, 2022. Paper presented: "Border Markets along Southern Slopes of Meghalaya".
- 5. International Seminar on Environment management and Society in India with Special Focus on North East India held in Assam on 8th 9th December 2022. Presented paper on "Urbanization in Aizawl City: A Geographical Analysis of Population and land use and land cover dynamics".

Publications

> Research Papers (09)

1. Mitri, M., Jamir, T., Mepusangba, Syiemlieh, H.J., Darnei, L., Thakuria, T., Kharpuri, L. (2022). Recent research on the stone jars of Northeast India: Evidence from East Jaintia Hills

- of Meghalaya. *Archaeological Research in Asia*, 31: https://doi.org/10.1016/j.ara.2022.100393
- 2. Sarkar, S., Begum, K., De, S. K. (2022). Impact of sediment quarrying on the channel morphology of the Upper Mahananda River, West Bengal, India. *Annals of the National Association of Geographers of India*, 42(1):213-233.
- 3. Chowdhury, A., De, S. K., Sharma, M. C., Debnath, M. (2022). Potential Glacial Lake Outburst Flood Assessment in a changing environment, Chhombo Chhu Watershed, Sikkim Himalaya, Inida. *Geocarto International*, 37(27): 15627-15655 DOI: 10.1080/10106049.2022.2102219 (IF: 4.889)
- 4. Turconi, L., Tropeano, D., Savio, G., Bono, B., De, S. K., Frasca, M., Luino, F. (2022). Torrential Hazard Prevention in Alpine Small Basin through Historical, Empirical and Geomorphological Cross Analysis in NW Italy. *Land*, 11(5): 699 https://doi.org/10.3390/land11050699 (IF: 3.905)
- 5. Mitra, S., Chatterjee, A., De, S. K., Datta, D., Tamang, L. (2022). Assessing the hydromorphological condition of the Sub-Himalayan Mahananda-Balason system using the hydromorphological quality Index. *Advances in Space Research*, 71 (3): 1397-1417. https://doi.org/10.1016/j.asr.2022.09.037
- 6. Ryngnga, P.K. (2022). Green Roofs for healthy Living in Cities: A New Normal since Covid 19. *Technoarete Publishers*, 1-4, http://doi.org/10.36647/978-92106.6-1
- 7. Sar, N., Ryngnga, P.K. (2022). Identification of Flood Prone Zones in Lower Keleghai River basin by using Weighted Overlay Method in GIS. *Indian Journal of Applied Research*, 12(6): 10-12.
- 8. Imchen, Z., Ryngnga, P.K. (2002). Landscape Change in Aizawl City: A geospatial Approach to Assess Landscape Indices and Human-Induced Transformation. *Landscape & Environment*, 16(1): 65-81.
- 9. Ray, M., Ryngnga, P.K., Chetia, P. (2023). Willingness to pay and its determinants for improved solid waste management: A Case Study. *Int. Journal of Environment and Waste Management*, 31(1): 119-134.

> Book Chapters (05)

- 1. Nayak, D. K. (2022). Migration. In *The Routledge Companion to Northeast India*. J.J.P. Wouters and T. B. Subba (Eds.). Routledge, London/New York. ISBN 978-0-367-72566-2 (hbk), Chapter-4, pp. 330-335.
- Ghosh, K., De, S. K. (2022). Evaluation of Hydro-geomorphic Responses to Climate Change in North Sikkim District, Sikkim, India. In Climate Change, Disaster and Adaptations (Sustainable Development Goals Series). A. R. Siddiqui and A. Sahay (Eds.). ISBN: 978-3-030-91010-5, Springer, Cham., Chapter 3, pp.21-33 https://doi.org/10.1007/978-3-030-91010-5_3
- 3. Bhattacherjee, S., Bandyopadhyay, S., De, S.K. (2022). Significance of Channel Planform Change and Morphometric Indices in the Buri River Basin, India and Bangladesh. In *Himalayan Neotectonics and Channel Evolution* (Society of Earth Scientists Series). H.N. Bhattacharya, S. Bhattacharya, B.C. Das, A. Islam (Eds.). ISBN: 978-3-030-95434-5, Springer, Cham., Chapter No. 6, pp.151-174.
- 4. De, S. K. (2023). Geomorphology. In *The Routledge Companion to Northeast India*. J. J. Wouters and T. B. Subba (Eds.). Routledge, Routledge, London/New York. ISBN 978-0-367-72566-2 (hbk), Chapter 31, pp.190-196.
- Chandran, S., Purkayastha, S. (2022). Anthropogenic activities in Kuttanad Wetland of Alappuzha and vulnerability to floods. In *Social Morphology, Human welfare and sustainability*.
 M. I. Hassan, S. Roy, U. Chatterjee, S. Chakraborty and U. Sing (Eds.). Springer, Switzerland ISBN 978-3-030-96759-8, Chapter 21, pp. 527-547.

> Proceedings of Seminar/Conferences (01)

1. Imchen, Z., Ryngnga, P. K. (2023). Urbanization in Aizawl City: A Geographical Analysis of Population and landuse and landcover dynamics. In *Proceedings International Seminar on Environment management and Society in India with Special Focus on North East India*, 8th-9th December 2022, NEICSSR & Don Bosco Institute of Management Assam, pp. 21-22.

> E-Content developed (MOOCs/SWAYAM): 01 Funds Received during the current Year

► Bulk Grant to Department/Centre/Section etc. other than EMR grant

 an orang to be pur among control of section over other than better grant									
Sr. No.	Funding Agency	Amount (Rs. in Lakhs)							
01	NEHU	2.76							

Academic Collaborations

> International

A. Indo-Polish Collaboration: Prof. H. J. Syiemlieh with

Name of Collaborators	Collaborating Institution	Title of Project
Prof. Pawel Prokop	Department of Geo-environmental	Soil and river habitat
Dr. Lukasz Wiejaczka	Research, Institute of Geography	degradation in an area with
Dr.KatarzynaWasak-Sęk	and Spatial Organization, Polish	extreme rainfall
	Academy of Science, Kraków,	
	Poland	

B. Indo-Japan Collaboration: Prof. L. Cajee and Prof. H. J. Syiemlieh with

Name of Collaborators	Collaborating Institution	Title of Project
Prof. Toru Terao	Department of Education,	Climate Change in South
Dr. Fumie Murata	Kagawa Univiersity,	Asia
Prof. Taiichi Hayashi	Takamatsu, Japan	

Honours/Awards/Recognition/Membership/ Fellowship

- **D. K. Nayak**_was appointed member, Regional Direct Taxes Advisory Committee (RDTAC), North Eastern Region.
- H. J. Syiemlieh was appointed (a) Member State Environmental Impact Assessment, (b) Member State Committee on Climate Change, and (c) Editor *Journal of the North East India Hill* Geographer.
- S. K. De was elected as President of the International Association of Geomorphologists (2022-2026). He also received UGIT's Excellency AWARD, 2022 in the area of Geography and Geospatial Technologies. Received in the Department of Geography, Bengaluru University on 10.12.2022. He was also selected_Life Member, Indian Society of Engineering Geology (Taken on 17.11.2022).
- P.K. Ryngnga awarded Certificate of Professional Membership by Thrive Institute, Canada on 29th July 2022. She was also awarded a Certificate of Recognition as Certified Life Gardener For Community Development by Thrive Institute, Kenya on 20th March 2023.

Other Activities/Achievements

D.K.Navak

1. Resource person for 9th Faculty Induction Programme held at UGC-HRDC, NEHU, from 30th May to 28th June, 2022. Lecture Topics: "Academic writing and publications for

- professional growth", "Style Manuals in academic Writing", and "Assessment and evaluation".
- 2. Resource person for 10th Faculty Induction Programme, at UGC-HRDC, NEHU, from 29th June-28th July, 2022. Lecture Topics: "Academic writing and publications SCOPUS indexed journals and UGC care list for social sciences", "Style Manuals in academic Writing", and "Assessment and evaluation to enhance students' learning".
- 3. Resource person for Short Term course in research methodology for social sciences and humanities, held at UGC-HRDC, NEHU, on 1-7 September, 2022. Lecture Topics: "Academic writing and publications in SCOPUS indexed journals and UGC care list for social sciences", and "Style Manuals in academic writing".
- 4. Delivered an invited lecture at the Department of Geography, Savitribai Phule Pune University on 29.9.2022. Lecture topic: "Conducting empirical research in geography: Some case studies".
- 5. Refresher course on Articulating the Issues of Indigenous population and the development deficit in the Northeastern India held at HRDC, NEHU, 11-20 October, 2022. Lecture Topic: "Sustainable agricultural development: A case study of Meghalaya".
- 6. Resource person in Refresher course in *Geography and Development studies*, HRDC, Dr. HS Gaur University, Sagar on 15th November, 2022. Lecture topic: "The Young north and the old south: Implications of the great demographic divide in India".
- 7. Resource person in Refresher course on *Earth and the sustainable development goals*, UGC-HRDC,

- North Bengal University, 8-21, December, 2022. Lecture topic: "The Divide between Indigenous and Scientific Knowledge in Sustainable Development Discourse".
- 8. Resource person for 11th Faculty induction programme, UGC-HRDC, NEHU, 10th January-8th February, 2023. Lecture Topics: "Academic writing and publications SCOPUS indexed journals and UGC care list for social sciences", "NEP 2020: Assessment and evaluation to enhance students' learning".
- Resource person for Short Term course in research methodology for basic sciences, UGC-HRDC, NEHU, 14-20, February, 2023. Lecture Topics: "Process of Scientific research and critical thinking", "Academic writing and publications in SCOPUS indexed journals and UGC care list for social sciences".
- 10. Resource person in Refresher Course on Environmental Science and Disaster Management, HRDC Utkal University on 24th February, 2023. Lecture Topic: "Natural Disaster and Gender".
- 11. Resource person for 12th Faculty Induction Programme, UGC-HRDC, NEHU, 28th February-29th March, 2023. Lecture Topics: "Introduction to Research Methodology", "Academic writing and publications, Style manuals in Academic writing", and "Assessment and evaluation to enhance students' learning".
- 12. Delivered a lecture to IPS probationers of the North-eastern Police Academy, Government of India, Umshaw Meghalaya on 7th March 2023. Lecture Topic: "Demographic and geographical profile of Meghalaya".

S.K.De

- Delivered invited lecture on "How to write good research paper in Geography" in the ICSSR Sponsored Capacity Building Programme for Faculty Members in Social Science organized by NagindasKhandwala College, Mumbai on 2nd July, 2022.
- 2. Invited talk on "International Geodiversity Day and the IAG with some potential geoparks in India" in the IAG (International Association of Geomorphologists) Webinar entitled Contributions of Geomorphologists to the International Geodiversity Day held on 11th October 2022.
- 3. Panelist in the workshop on 'Nurturing Geodiversity: A Road to Sustainable Development' on the occasion of International Geodiversity Day and 6th international Geoethics

- day organized by the Geological Society of India, govt. of India on 14th October 2022.
- 4. Invited lecture on "Application of Remote Sensing in Geomorphology-Example of channel Planform Change in the Northern Chattagram-Tripura Fold Belt, India" in the High-end Forum on Innovative Application of Remote Sensing Technology jointly organized online by China Association of Remote Sensing Application, Shaanxi Natural Resources Society, Satellite Remote Sensing Application Center of China-SCO Geoscience Cooperation Research Center on November 25-27, 2022 in Kunming, Yunnan Province.
- 5. Inaugural address as the Chief Guest in the inaugural programme of the UGC-HRDC Refresher Course organized by the Department of Geography, University of Allahabad, Prayagraj on 28 November, 2022 followed by a lecture on "Recent trends in Geomorphology".
- 6. Delivered lecture on "How to write good paper in Geomorphology?" in the Department of Geography, Ashutosh College, Kolkata on 10th February 2023.
- 7. Delivered two lectures on "Causes and consequences of Landslides: Examples from Darjiling Himalayas and Tripura" in the UGC-HRDC, Calcutta University Short Term Course (STC) on *Hazards and Disaster Management* organized by the Department of Geology, Calcutta University on 2nd March 2023.

P.K.Ryngnga

- 1. Invited talk on "Urban Farming: An alternative to Sustainable Urban environment" in the Organic Farming Training held on 12th September 2022 organized by department of Horticulture, Government of Meghalaya, at Mylliem.
- 2. Panelist in the workshop on *Nurturing Urban Farming: A way to Urban Sustainable Development* organized by Govt. of Meghalaya on 15th November 2022.
- 3. Resource Person for developing interactive maps in Google map platform for the Officers of the Election Department, Jaintia Hills, Government Meghalaya on 11th-12th January 2023.
- 4. Invited Keynote Speaker on 'Sustainable way for Urban Living' in Global Farmers Get together organised by Thrive Institute Canada on 10th March 2023 (Online).

S. Purkayastha

1. Attended faculty development programme for teachers in Higher Education NEP 2020, Inter-University Center for Teachers' Education, B.H.U., from 13-17 February, 2023.

SUMMARY SHEET FOR THE ACADEMIC YEAR $1^{\rm ST}$ APRIL 2022 TO $31^{\rm ST}$ MARCH 2023

Details of	Name		1	D K Nayak	H. J. Syiemlieh	S. K. De
Faculties	Date of Joining		2	1.1.1986	23.02.1994	28.06.2013
	Field of		3	Social &	Fluvial &	Environmental
	specialisation			Population	Applied	Geomorphology
				Geography	Geomorphology	and Hazards
(A)	UG		4	No	No	6
Teaching	PG, including PhD		5	37	28	17
Experience						
(in Years)						
	Basic Research		6	Yes	Yes	Yes
	Applied Research		7	No	Yes	Yes
	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	01
	UGC care list journals	Group II	12	No	01	03
	Books /Books	Books	13	No	No	No
(B)	chapters Published	Book	14	1	0	03
Research	•	Chapters				
activities	Popular Articles		15	No	No	No
	(News Paper/					
	Magazines)					
	Seminar /	National	16	No	No	No
	Conference/	International	17	No	No	No
	Symposia organized					
	Seminar /	National	18	6	3	3
	Conference/ Symposia attended	International	19	3	2	5
	Conference		20	No	No	No
	Proceedings					
	Consultancy		21	No	No	No
	Applied		22	No	No	No
(C)	Published		23	No	No	No
Patent	Granted		24	No	No	No
(P)	1.0000000000000000000000000000000000000	ļ	10-			
(D)	MOOC/SWAYAM/		25	No	No	1
E-Content	E-content developed		26	NT.	NT.	37
	Teaching /Extension /outreach activities		26	No	No	Yes
	Responsibilities		27	No	3	8
(E) Any Other	other than teaching					
	Awards/ Honours/		28	No	No	3
	Recognition/					
	Membership/					
	Fellowship					
	Collaborations	National	29	No	No	No
<u> </u>		International	30	No	2	No

Details of Faculties	Name		1	L. Cajee	P. Ryngnga	S. Purkayastha
	Date of Joining		2	26-03-1997	21.05.2003	15.12.2005
	Field of specialisation		3	Biogeography &Geography of Tourism	Urban Planning, Rs & GIS	Human Geography
(A)	UG		4	3	No	15
Teaching Experience (in Years)	PG, including PhD		5	26	21	17
	Basic Research		6	Yes	Yes	Yes
	Applied Research		7	No	Yes	Yes
	Action Research		8	No	Yes	Yes
	Project Submitted		9	No	No	No
	Ongoing Project		10	No	Yes	No
	Research Paper in	Group I	11	No	2	No
	UGC care list journals	Group II	12	No	No	No
(D)	Books /Books	Books	13	No	No	No
(B) Research	chapters Published	Book Chapters	14	No	2	Yes
activities	Popular Articles (News Paper/ Magazines)		15	No	No	No
	Seminar /	National	16	No	No	No
	Conference/ Symposia organized	International	17	No	No	No
	Seminar /	National	18	No	1	No
	Conference/ Symposia attended	International	19	Yes	4	Yes
	Conference Proceedings		20	No	1	No
	Consultancy		21	No	No	No
	Applied		22	No	No	No
(C)	Published		23	No	No	No
Patent	Granted		24	No	No	No
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	No	No	No
	Teaching /Extension /outreach activities		26	No	Yes	No
	Responsibilities other than teaching		27	Yes	4	No
(E) Any Other	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	2	No
	Collaborations	National	29	No	No	No
		International	30	Yes	No	No

DEPARTMENT OF GEOLOGY

Head: Prof. Devesh Walia **Telephone:** +91-364-272 1150

E-mail: hodgeology@nehu.ac.in

Faculty Profile

	Name and	
Designation	Qualification	Specialization
Professor	Dr. Devesh Walia, M.	Structure and Tectonics of NE Indian region;
	Tech(DHSGU, Sagar),	Magnetotellurics; Radon Emanation Studies; Micro-
	Ph.D. (Gauhati	seismology; Hydrogeology; Global Positioning
	University)	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, 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 23rd February 2021 after sanction from the University Grants Commission, New Delhi and approval from the NEHU's Executive Council. The study of Geology is important in the region as Meghalaya is endowed with rich mineral resources and is one of the richest in the North-eastern Regions. Geology plays an important role in the meeting increased demands of mineral and energy resources; the economic and political power can be achieved through geological mapping and exploration if minerals; and Meghalaya represents geology in a nutshell and has almost all the metallogenic epochs and provinces. The envisioned response and mitigation for any disaster in such disaster-prone areas, and concerns over water, global climate change, ocean and mineral resources can only be fulfilled if a continuous stream of skilled persons with background knowledge of the geological sciences is provided by the Universities like NEHU to fill-up the shortage of trained manpower.

Students' Profile

> Enrolment Capacity: M.Sc.: 16; Ph.D.: Variable

> Enrolment of students from different States of India and Abroad

	Gen	l	ST		SC		OB	С	EW	S	PWI)	TOTAL	
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	2	-	1	-	-	-	-	1	1	-	-	1	4
Kerala	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Manipur	-	-	-	-	-	1	-	-	-	-	-	-	-	1
Meghalaya	-	-	6	-	-	-	-	-	-	-	-	-	6	-
Nagaland	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Sikkim	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Tripura	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Total	4		9		1	•	-	•	2		-	•	16	•

Degrees Awarded

Degree: M.Sc. (16)

> Degrees Awarded to students from different States of India

	Gen	l	ST		SC		OBO	C	EW	S	PWI)	TO	ΓAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal	-	-	1	-	-	-	-	-	_	-	-	-	1	-
Assam	-	2	1	-	-	-	-	-	2	-	-	-	3	2
Meghalaya	-	-	3	6	-	-	-	-	-	-	-	_	3	6
Nagaland		-	-	1	-	-	-	-	-	-	-	-	-	1
Total	2		12		-		-		2		-		16	

Placement of Students

Name of the Student(s)	Post Held	Place of Work
Cassandra Odami. B. Rynjah	Trainee Geologist	Novomine, Shillong
Amica L Nongrang	Trainee Geologist	Novomine, Shillong
K Ampleness Muksor	Trainee Geologist	Novomine, Shillong
Golfinstar Kharbani	Project Assistant	North- East Geophysical Research
		Laboratory (NEGRL), Shillong

Students selected for Higher Studies

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
Mrinal Kanti Pathak	Ph.D. Geology	North-Eastern Hill University	India

Research Fellowship

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

Fieldwork/Educational Tour of Students

Teacher-in-Charge: Prof. Devesh Walia **Places Visited**: Uttarakhand (Dehradun, Mussoorie, Rishikesh), New Delhi (Delhi), Uttar Pradesh (Agra), Meghalaya (Sohra, Mawngap, Umiam, Umroi, Nongpoh, Mawphlang, Mairang, Nongstoin).

Duration of Tour (Dates and number of

days): 12-11-2022 and 13-11-2022 (2 days), and 07-01-2023 to 22-01-2023 (16 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 – M.A./M.Sc.

Semester I (NEP 2020): Crystallography & Mineralogy, Structural Geology & Tectonics, Geomorphology & Geodynamics, Paleo-biology & Micropaleontology, Disaster Risk Resilience Semester II (CBCS): Igneous and Metamorphic Petrology, Sedimentology and Stratigraphy, Practical, Geochemistry and Geophysics, Disaster Risk Resilience

Semester III (CBCS): Economic Geology, Hydrogeology, Practical, Mineral Exploration and Mining Geology, Geoinformatics

Semester-IV (CBCS): Fuel Geology, Engineering Geology and Environmental

Geology, Practical, Dissertation, Field Work and Field Report

> PhD Course work

Research Methodology; Review of Literature; Report Writing; Research Problems inGeoscience; Research and Publication Ethics

Seminars/Conferences/Workshops/ Symposia/Extension Programmes

> Organized

Prof. Devesh Walia was the convenor for the following events organised by the Department of Geology at NEHU, Shillong.

- National Online Quiz Competition on Celebrating Earth Day 2022 on 22nd April 2022
- 2. Impact Lecture and Experience Sharing on Innovation, Communities and Decentralised future (Web3.0) on 22nd April 2022
- 3. Impact Lecture Series 2022 on 13th July 2022
- 4. STARTUP BOOTCAMP 2022-2023 by Numaligarh Refinery Limited (NRL) on 12th August 2022
- FIVE day Field Training cum implementation workshop on "Post Flood Reconstructions Measures using Nature based Solutions" in collaboration withNational Institute of Disaster Management(Ministry of Home Affairs, Govt. of India) from 23rd August to 27th August 2022
- 6. 3rd Online Geo Quiz Competition 2022 on 5th September 2022
- 7. Interaction with M.Sc. Geology Students on "Geological Science: Challenges & Job

- Opportunities" Dr. Deepak Kumar Sinha, Director, AMD on 27th September 2022
- 8. Felicitation Programme and Lecture & Interaction with Prof. Sunil Kumar De on 30th September 2022
- 9. Interaction with students on various issues and challenges in Geosicence Studies in NE region with signing of agreement by Sri G.K. Kesari, ADG GSI-NER on 5th October 2022
- Launch of India's G20 Presidency on 1st December 2022
- 11. Manthan on NEP 2020: Issues & Challenges on 17th February 2023
- 12. Talk on "Water Resources of Meghalaya" By Prof. Alan Fryar (Visiting Fellow, NEHU, Fulbright Kalam Climate Research Program)on 17th March 2023
- 13. ONE-day Consultative Workshop on "Improving Forest Policy and Governance in the Jaintia Hills, Meghalaya" on 31st March 2023.

> Attended

Prof. Devesh Walia

- 1. Resource Person for Geological Field Excursion, Shillong Plateau organized by Association of Petroleum Geologists, India, Jorhat Chapter, A&AA Basin and visited Shillong, Cherrapunji, Therria Ghat Traverse, Meghalaya on 2-04-2022 to 03-04-2022.
- 2. Resource person at *Training Programme on Long Term Recovery and Reconstruction Strategies* at MATI, Mawdiangdiang, Shillong, on 31.5.2022

- and presented "Challenges of managing a big earthquake like that of M8.6, 1897 in Shillong".
- 3. Invited speaker at Commemorating the '75th years of Indian Independence', Geological Survey of India (North Eastern Region) organised by Geological Survey of India (North Eastern Region), Shillong, on 15-07-2022, and spoke on "Geology of Himalaya".
- 4. Attended 59th Annual Convention of Indian Geophysical Union at Wadia Institute of Himalayan Geology (WIHG), Dehradun on 16-11-2022 to 18-11-2022, and spoke on "Geosciences of Himalaya for Sustainable Development".
- 5. Resource person at the 108th Indian Science Congress 2023 held at R.T.M. Nagpur University, Nagpur, Maharashtra on 03-01-2023 to 07-01-2023, and spoke on "Science and Technology for Sustainable Development with Women Empowerment".
- 6. Invited speaker at National workshop on Himalayas for Future organized by International Union for Conservation of Nature (IUCN) held at India Habitat Centre, New Delhi, on 03-02-2023, and spoke on "Himalayas for Future".

Publications

> Research Papers

1. Bora, A., Walia, D., Mipun, B.S. (2023). Land Use Land Cover Change and Hotspot Identification of Upper Meghna River Basin, India. *Indian Forester*, 149(2): 111-119.

Funds Received during the current Year

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

•	Grant to Dep	er than Errit grant	
	Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
	01	NIDM	5.0

(D) EMR Research Projects to individual faculty members

Title of Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of Investigato r (Pl/Co-Pl)	Multi/Sing le Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
"Tectono-Sedimentary Evolution of Miocene Bhuban Sediments of Banskandi Area, Cachar" (16.80)	New	Prof. D. Walia (PI)	Single (2022-2023)	Oil and Natural Gas Corporation (ONGC), Jorhat	9.00
GPS Survey of WAQF Properties & Updation in an Online WAQF Assets Management System of India (WAMSI) (93.13)	New	Prof. D. Walia (PI)	Single (2022-2023)	Central Waqf Council, New Delhi	93.13

SUMMARY SHEET FOR THE ACADEMIC YEAR $1^{\rm ST}$ APRIL 2022 TO $31^{\rm ST}$ MARCH 2023

Details of	Name		1	Devesh Walia
Faculties	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)	UG		4	11
Teaching Experienc e (in Years)	PG, including PhD		5	24
•	Basic Research		6	Yes
	Applied Research		7	Yes
	Action Research		8	Yes
	Project Submitted		9	Yes
	Ongoing Project		10	2
	Research Paper in	Group I	11	No
	UGC care list journals	Group II	12	1
	Books /Books	Books	13	No
(B) Research	chapters Published	Book Chapters	14	No
activities	Popular Articles (News Paper/ Magazines)		15	No
	Seminar /	National	16	12
	Conference/ Symposia organized	International	17	5
	Seminar /	National	18	11
	Conference/ Symposia attended	International	19	7
	Conference Proceedings		20	04
	Consultancy		21	02
	Applied		22	No
(C)	Published		23	No
Patent	Granted		24	No
(D)	MOOC/SWAYAM/		25	01
E-Content	E-content developed			_
	Teaching /Extension /outreach activities		26	Yes
	Responsibilities other than teaching		27	Yes
(E) Any Other	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	Yes
	Collaborations	National	29	Yes
		International	30	Yes

DEPARTMENT OF HORTICULTURE (TURA CAMPUS)

Telephone: +91-8974455216 Head: Prof. C. P. Suresh

E-mail: nehuhort@gmail.com

Faculty Profile

Designation	Name and Qualification	Specialization				
	Dr. C.P. Suresh, M.Sc. (Ag)	Fruits and Orchard Management,				
Professor	Horticulture (BCKV), Ph.D. (BCKV)	Post-Harvest Technology of				
		Horticultural Crops				
	Dr. Arvind Kumar Chaurasiya, M.Sc.	Post-Harvest Technology of				
Assistant	(Ag) Horticulture (NDUAT), Ph.D.	Horticultural Crops				
Professor	(BCKV)	-				
	Dr. Arindam Barman, M.Sc.	Vegetable Science				
	Vegetable Science (GBPUA&T), Ph.					
	D. (IIT-ISM)					
	Dr. Yumnam Somi Singh, M.Sc.	Fruit Science				
	(Hort) Fruit Science (UAS-Dharwad),					
	Ph.D. (BCKV)					

Thrust Areas of Research

The thrust area includes conservation of genetic biodiversity, sustainable green farming and to adapt 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 for academic excellence in Horticulture. The Department mainly concentrates on multi-disciplinary research and extension works with an aim to improve the aspects of Hill Horticultural System and to develop technical manpower in North-Eastern regions in general and Meghalaya state in particular.

Students' Profile

> Enrolment Capacity: M.Sc.: 15

> Enrolment of students from different States of India

	Gen		ST		SC		OBC	7	EWS	S	PWD		TOT	'AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Andhra Pradesh	-	1	-	1	-	-	-	-	-	-	-	-	-	2
Manipur	-	1	-	_	_	1	-	-	-	-	-	-	-	2
Meghalaya	-	-	2	1	_	-	-	-	-	-	-	-	2	1
Nagaland	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Rajasthan	1	-	1	_	_	-	-	-	-	-	-	-	2	-
Tamilnadu	1	-	-	_	_	-	-	-	-	-	-	-	1	-
West Bengal	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Total	5		6		1		-		-		-		12	

Degrees Awarded

Degree: M.Sc. (13)

> Degree Awarded to students from different States of India

	Gen		ST		SC		OBO		EW	S	PWI)	TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Bihar	-	-	-	-	-	-	-	-	1	-	-	-	1	-
Manipur	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Meghalaya	-	-	2	9	-	-	-	-	-	-	-	-	2	9
Total	1		11		-		-		1		-		13	

Research Fellowship

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

Educational Tour of Students

Teacher- In- Charge: Prof. C.P. Suresh

Places/ Institutions visited: Trivandrum, Bangalore/ CTCRI, KAU Trivandrum, Mangrove Forest Poovar Trivandrum, Low land paddy cultivation, Alapuezha, IIHR, CFTRI Mysore, TNAU, FCRI Mettupalayam, Fruit Research Station, Kanyakumari, NBPGR Thrissur, KAU Thrissur, Pineapple Research Institute, Banana Research Station Kannara, KFRI Pechi,

Duration of the tour: 19 days (1st February 2023

to 20th February 2023)

Purpose of the tour: Educational

Courses ConductedPostgraduate: MSc

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-1(Methodology and Seminar).

Semester IV: Research II (Field Laboratory Analysis); Research III (Data Analysis and Interpretation); Research IV Dissertation.

> PhD Coursework

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.

Seminars/Conferences/Workshops/ Symposia/ Extension Programmes

> Organized

Prof. C P Suresh

1. Co-Organising Chairman of 6th International symposium on minor fruits, medicinal and aromatic plants, organised by UBKV and COBACAS, dated 24-26 November, 2022.

> Attended Prof. C P Suresh

1. Acted as chairman of a technical session and delivered an invited lecture on "Lesser known plant species for food, nutritional security and medicinal benefits in North East India" at the National seminar on *Horticulture for sustainable development, nutritional and livelihood security*

- organised by NAHEP, UBKV Coochbehar on 26 27th May, 2022.
- 2. Delivered faculty upgradation lecture at the Faculty of Horticulture, organised by UBKV Coochbehar on the topic "Recent advances/trends in fruit production in context to agriculture 4.0" on dated 1st August 2022.
- 3. Attended North East agriculture and food processing summit and acted as a panellist and Chairman of a technical session and delivered speech on "Doubling farmers income for economic and social development of North East India through the policy initiatives of Central Government in Agri and food processing sectors for North Eastern region" organised by Indian chamber of food and agriculture, dated on 25-27th August, 2022.
- 4. Delivered Key Note presentation on the topic "Diverse Horticultural crops for livelihood development and nutritional security" at the National Seminar on *Conservation of Biodiversity (NSCB 2022)* dated 3rd September, 2022 at North-Eastern Hill University, Tura Campus, Meghalaya.
- 5. Attended National seminar on *Entrepreneurship development: A tribal perspective* and acted as a resource person and delivered an invited talk on "Horticulture entrepreneurship: A tribal perspective" organised by Department of Management, NEHU, Tura campus, dated on 28-29th October, 2022.
- 6. Acted as a panellist on a session "Technologies to transform agriculture" at 5th India Agribusiness summit 2022 and delivered speech on "Agriculture 4.0- The future of farming technology" organised by ICFA at NASC complex New Delhi, dated on 9th November 2022.
- 7. Acted as a chairman of a technical session and delivered a plenary lecture on "Minor, underutilized and lesser known plant species of North East India" at the 6th International symposium on minor fruits, medicinal and aromatic plants organised by UBKV and COBACAS dated 24-26 November, 2022.
- 8. Delivered an invited speech on the topic "Protections of plant varieties" at awareness programme on IPR organised by Ministry of MSME, Government of India at CCS, CAU, Tura, dated on 9th December 2022.
- 9. Acted as a resource person and delivered a speech on "Plant protection varieties and farmers rights" at the awareness program organised by MSME, Government of India at Ampati Degree College, dated 21st January, 2023.

10. Delivered a invited talk on "Overview of farmers producers organizations" organised by NABARD in collaboration Department of Agriculture, Meghalaya, on dated 22nd February, 2023.

Dr. A.K. Chaurasiya

1. Presented a paper on "Standardization of frozen pea and evaluation of its quality attributes" under the National Seminar on Conservation of Biodiversity (NSCB 2022) held on 2nd and 3rd September 2022 by Biotech Kishan Hub, NEHU, Tura Campus, Meghalaya.

Dr. Arindam Barman

- 1. Delivered Key Note presentation in "National Seminar on Conservation of Biodiversity (NSCB 2022)" from 2nd to 3rd September, 2022 at North-Eastern Hill University, Tura Campus, Meghalaya.
- 2. Delivered Key Note presentation in "International Conference on Environment and Sustainable Development (ICESD 2022)" from 24th to 25th November, 2022 at North-Eastern Hill University, Tura Campus, Meghalaya.

Dr. Yumnam Somi Singh

1. Attended and delivered oral presentation on the topic "Effect of bioformulations on growth, yield and quality of strawberry cv. Winter Dawn" in the International Conference on Natural Farming for Revitalizing Environment and Resilient Agriculture organized by Central Agricultural University, Imphal during 17-19th March, 2023 at College of Agriculture, Iroisemba, Imphal, Manipur.

Publications

> Research Papers (17)

- 1. War, E., Suresh, C.P. (2022). Studies on the Influence of Micronutrients and Potassium Sulphate on the Yield and Quality of Khasi Mandarin in Meghalaya through Foliar Application. *Environment and Ecology*, 40 (3A): 1325-1331.
- 2. Pasi, D., Suresh, C.P., Mathukmi, K., Singh, Y.S., Gurung, A. (2023). Effect of NAA on the Induction of Flowering in Pineapple Var Queen at Different Growth Stages. *Environment and Ecology*, 41(2): 741-745.
- 3. Sangma, T.J.T., Suresh, C.P., Pal, P., Rapunga, F.H., War, E. (2023). Standardization of jackfruit pickle based on traditional methods practiced by people of Garo Hills, Meghalaya. *Crop Research*, 58(1 & 2): 44-52.

- 4. Sangma, P.M., Choudhury, A., Hajong, A., Suresh, C.P., Rao, S.R. (2022). Evaluation of Genetic Diversity, Population Structure and Gene Flow Using SPAR Approach among *Citrus macrocarpa* Mont., an Endangered Species Collected from Garo Hills, Meghalaya. *IJARESM*, 10 (6): 3364-3377.
- 5. Sangma, P.M., Suresh, C.P. (2022). Study on Morphological Characterization of *Citrus macroptera* Mont Collected from Garo Hills District Meghalaya, India. IJSRA, 7(2): 344-356.
- 6. Mathukmi, K., Sarkar, A., Suresh, C.P. (2022). Physico-chemical Characteristics of Different Banana Genotypes in Nagaland. *International Journal of Plant & Soil Science*, 34(22): 882-889.
- 7. Panwar, P., Mahalingappa, D.G., Kaushal, R., Bhardwaj, D.R., Chakravarty, S., Shukla, G., Thakur, N.S., Chavan, S.B., Pal, S., Nayak, B.G., Suresh, C.P., Srinivasaiah, H.T. et al., (2022). Biomass production and carbon sequestration potential of different agroforestry systems in India: a critical review. *Forests*, 13(8):1274.
- 8. Rymbai, R.I.M., Chaurasiya, A. K. (2022). Quality Assessment of Mixed Pickle (Carrot, Pea and Ginger) Fermented by Lactic Acid Bacteria. *Asian Journal of Agricultural and Horticulture Research*, 9(4): 129-135.
- 9. Chakraborty, S., Chaurasiya, A. K. (2022). Evaluation of bottle gourd (*Lagenaria siceraria* (Mol.) Standl. germplasms for biochemical characters in Garo Hills, Meghalaya, India. *Plant Archives*, 22(2): 481-484.
- 10. Chakraborty, S., Chaurasiya, A. K. (2022). Agromorphological characterization of bottle gourd [*Lagenaria siceraria* (Mol.) Standl.] germplasms in Garo hills, Meghalaya. *Crop Research*, 57 (5 & 6): 391-398.
- 11. Chakraborty, S., Chaurasiya, A. K. (2022). Studies on Genetic Variability, Heritability and Genetic Advance in Bottle Gourd (*Lagenaria siceraria* (Mol.) Standl) Germplasms in West Garo Hills of Meghalaya, India. *Environment and Ecology*, 41 (1): 53-57.
- 12. Jamja, T., Chaurasiya, A. K., Ningombam, S. Devi, Tabing, R. (2022). Quality attributes of fermented beverages from rose (Rosa species) and cinnamon (Cinnamomum verum J. Presl). *Ecology Environment & Conservation*, 28: S442-S452.
- 13. Flory, H., Rapunga, Chaurasiya, A. K. (2023). Effect of Sugar Sources on Nutrient Retention and Organoleptic Characteristics of Blood Fruit and Aonla Fermented Beverages During Storage. *Environment and Ecology*, 41 (1): 168-173.

- 14. Flory, H., Rapunga and Chaurasiya, A. K (2023). Effect of blended fermented beverages from blood fruit and aonla with two types of organic sweetener. *Journal of Food Science & Technology*, 60(5): 1505-1512.
- 15. Barman, A., Haorongbam, S., Barman, R.M. (2022). Estimation of Cyanogenic glycoside content of some edible Bamboo Shoots from Meghalaya, India. *Stochastic modeling and applications*, 26 (3): 223-226.
- 16. Barman, A., Marboh, R. (2022). Genetic variability and correlation analysis in indigenous germplasm of okra (*Ablemoschus esculentus* L. Moench). *Annals of Plant and Soil Research*, 24 (3): 452-457.
- 17. Devi, O. B., Singh, Y. S. (2023). Effect of organic amendments on growth, yield and quality of papaya (*Carica papaya* L.) cv. Vinayak. *Environment and Ecology*, 41(1B): 522-531.

Book Chapters (6)

- 1. Sarkar, Shukla, B.C., G., Suresh, Chakravarty, S. (2022). A review on Structure, Floristic Diversity and Functions of Homegarden. In Conservation of Biodiversity Through Critical Environmental Factors and its Sensitivity **Towards** Urbanization and Holistic Methodologies. R. V. S. Uppaluri and L. Rangan (Eds.). Springer, ISBN 978-981-99-0944-5 ISBN 978-981-99-0945-2 (eBook), Chapter no. 16, 291-308.
- 2. Chakraborty, S., Chaurasiya, A. K. (2022). Morphological Characterization of Bottle Gourd [Lagenaria siceraria.(Mol). Standl.] Germplasms in Garo Hills of Meghalaya. In Conservation of Plant Bio-Diversity for Sustainable Species Utilization and Ecosystem. R. V. S. Uppaluri and L. Rangan (Eds.). Springer, ISBN 978-981-99-0944-5 ISBN 978-981-99-0945-2 (eBook), Chapter no. 1, pp. 3-24.
- 3. Mitra, S., Singh, A. K., Chaurasiya, A. K., Mani, A. (2023). Maturity, Ripening and Senescence. In *Postharvest Technology of Tropical Fruits and Vegetable*. S. Mitra and T. K. Bose (Eds.). Daya Publishing House, New Delhi, ISBN: 978-93-5461-429-3, Chapter no. 5, pp. 77-102.
- Barman, A., Sangma, N. M., Marboh, R. (2023). Diversity Analysis of Indigenous Germplasm of Abelmoschus Essculentus L. Moench (Okra) Under Garo Hills Condition of Meghalaya. In Conservation of Biodiversity in the North Eastern States of India. R. V. S. Uppaluri and L. Rangan (Eds.). Springer, ISBN 978-981-99-0944-5, ISBN 978-981-99-0945-2 (eBook), Chapter no. 2, pp. 25-42.

- Barman, A., Nillo, Y., Sangma, N. M. (2023). Phenotypic and Genotypic Characterization of Predominant Lactic Acid Bacteria Isolated from Traditionally Fermented Brassica Leaf (Gundruk). In Conservation of Biodiversity in the North Eastern States of India. R. V. S. Uppaluri and L. Rangan (Eds.). Springer, ISBN 978-981-99-0944-5, ISBN 978-981-99-0945-2 (eBook), Chapter no. 8, pp. 133-154.
- 6. Devi, O. B., Singh, Y. S., Devi, O. R., Devi, O. A. (2023). Nanofertilizers in sustainable fruit production. In *Modern Plant Biotechnology: Risks and Implications in Agriculture*. R. K. Rao (Ed.). Mahima Research Foundation and Social Welfare Publications, Varanasi, ISBN: 978-81-943375-5-3, Chapter 14, pp. 92-96.

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)
1	NEHU	8.75

(B) EMR Research Projects to individual faculty members

Title of Project (Total outlay in Lakhs)	Current Status (New /on- going/ complet ed)	Name of Investiga tor (Pl/Co- Pl)	Multi/Sin gle Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Value addition of Banana (Musa Sp.) and creating Small scale enterprises of Meghalaya Tribal Community Through Minimal Processing Technology (71.06)	Comple ted	Prof C.P. Suresh (Co-PI)	Multi- institute (2015- 2017)	Tribal cooperative marketing development federation of India (TRIFED) New Delhi.	Nil
Biotech-Krishi Innovation Science Application Network (Biotech-KISAN) in Meghalaya (Biotech Kisan Hub) (118.00)	Ongoin g	Dr. Arindam Barman (PI) Prof C.P. Suresh (Co-PI)	Multi- Institute 2022- 2024	DBT, Govt. of India	64.00
Phytochemical and molecular characterization, bioprospecting of genes, value addition and quality enrichment of Bamboo through plant tissue culture technique from North East India (30.0399)	Comple ted	Dr. Arindam Barman (PI)	Single (2017-2020)	SERB, New Delhi	Nil
Dissemination of farmers' varieties of different crops identified by NIF-India in Meghalaya for societal development (10.47226)	Comple ted	Dr. Arindam Barman (PI)	Single (2020-2022)	National Innovation Foundation, Govt. of India	Nil

Academic Collaborations

The Department collaborated with Dr. Muthu M. Vaganan, Principal Scientist, Biochemistry, National Research Centre for Banana, Trichy; Department of Horticulture, Central University of Tamilnadu, Thiruvarur; Faculty of Horticulture, UBKV, Coochbehar; ICAR, Barapani; CCS, CAU, Tura campus; Dr. Muthu Kumar, Department of Mechanical Engineering, IIT Guwahati.

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 antiurolithiatic potential region for 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".

$Honours/Awards/Recognition/Membership/Fe\\llowship$

Prof C.P. Suresh

- 1) Received the Springer Best Paper Award for the paper entitled "Biodiversity conservation and ecosystem services in traditional Homegarden of Eastern Himalayan region of West Bengal at North East research conclave IIT Guwahati, dated on 20-22nd May, 2022.
- 2) Member, Building Committee of Central University of Tamil Nadu, Thiruvarur for the duration of three years (12-08-2019 to 11-08-2022).

Dr. Yumnam Somi Singh

1) Awarded "Young Professional Award" by Mahima Research Foudation and Social Welfare, B.H.U., Varanasi, Uttar Pradesh during the International Conference 21-22 October, 2022.

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 Tamilnadu, Thiruvarur, (d) Board of Management Deen Dayal Upadhyaya Community College.

Dr. A.K. Chaurasiya evaluated for NRDC National Awards 2020 Programme as an Expert for two candidates (2022).

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

		FOR THE ACAL		1 ⁵¹ APRIL 2022 10		
Details of	Name		Prof. C P	Dr. A.K.	Dr. Arindam	Dr. Yumnam
Faculties			Suresh	Chaurasiya	Barman	Somi Singh
	Date of Joining		28.06.2013	26.06.2012	31.07.2012	21.08.2012
	Field of		Fruits and	Post-Harvest	Vegetable	Fruit science
	specialisation		post-	Technology of	crops	
			harvest	Horticulture crops		
(A)	UG		12	No	No	No
Teaching	PG, including		21	11	11	10
Experience	PhD					
(in Years)	<u> </u>					
	Basic Research		Yes	Yes	Yes	Yes
	Applied		Yes	Yes	Yes	No
	Research					
	Action Research		No	No	No	No
	Project		No	No	Yes	No
	Submitted					
	Ongoing Project		1	No	1	No
	Research Paper	Group I	7	6	4	1
(T)	in UGC care list	Group II	1	1	No	No
(B)	journals	_				
Research	Books /Books	Books	No	No	No	No
activities	chapters	Book Chapters	1	2	2	2
	Published	_				
	Popular Articles		No	No	No	No
	(News Paper/					
	Magazines)					
	Seminar /	National	No	No	1	No
	Conference/	International	1	No	1	No
	Symposia					
	organized					
	Seminar /	National	7	1	1	1
	Conference/	International	3	No	1	No
	Symposia					
	attended					
	Conference		No	No	No	No
	Proceedings					
	Consultancy		No	No	No	No
(C)	Applied		No	No	No	No
Patent						
	Published		No	No	No	No
	Granted		No	No	No	No
(D)	MOOC/SWAYA		No	No	No	No
E-Content	M/ E-content		1,0			110
L content	developed					
	Teaching		Yes	Yes	Yes	Yes
	/Extension		1 05	103	1 65	1 65
	/outreach					
	activities					
(E)	Responsibilities		Yes	Yes	Yes	Yes
Any Other	other than		1 03	1 03	1 03	103
Tilly Other	teaching					
	Awards/		Yes	No	Yes	Yes
			1 68	INO	1 68	1 68
	Honours/					
	Recognition/					
	Membership/					
	Fellowship	NI-4: 1	Mar.	No	Vac	Na
	Collaborations	National	Yes	No	Yes	No
	1	International	No	No	No	No

DEPARTMENT OF RURAL DEVELOPMENT AND AGRICULTURAL PRODUCTION (TURA CAMPUS)

Head: Dr. Birendra K. Mishra **Telephone:** +91-9436306259

E-mail: hodrdap@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
Professor	Dr. D.C. Kalita. M.Sc. (Agri.) (AAU, Jorhat), Ph.D. (AAU, Jorhat)	Agricultural Economics
Professor	Dr. S.C. Srivastava, MA (Allahabad University), Ph.D. (Allahabad University)	Rural Development
	Dr. B. K. Mishra, M.Sc. (Agri.) Ph.D. (Banaras Hindu University)	Dairy Science and Technology
Associate Professor	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, conservation of bio-resources, animal husbandry, dairy and food sciences, fruit and vegetables preservation, ethnobotanical studies horticulture, plant biotechnology, Biodiversity, Tissue Culture of fruits, Conservation of endangered plants, Biodiversity studies of fruits, Phenological studies of fruits.

Being multidisciplinary in nature the department undertakes both teaching and research in the areas concerning rural development, agronomy, horticulture and animal sciences. The department provides 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 programmes etc. The department also received external funds from NEC, Ministry of DONEAR, Govt. of India and Department of Biotechnology, Govt. of India, New Delhi.

Brief Statement of Academic Activities and Achievements

Students' Profile

(C) Enrolment Capacity: M.Sc.:25

(D) Enrolment of students from different States of India

	Gen		ST		SC		OBC	1	EWS	5	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Meghalaya	-	-	7	15	-	-	-	-	-	-	-	-	7	15
Total	-		23		-		-		-		-		23	

Degrees Awarded

> Degree: M.Sc. (24)

> Degrees Awarded to students from different States of India

	Gen		ST		SC		OBC	7	EWS	5	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Manipur	1	-	_	-	-	-	-	-	-	-	-	-	1	-
Meghalaya	-	-	7	14	-	-	-	-	-	-	-	-	7	14
Total	1		23		-		-		-		-		24	

> Students Awarded Ph.D. Degree (2)

	Gen		ST		SC		OBC		EWS		PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	-	-	1	-	-	-	-	-	-	-	-	-	1
West-Bengal	1	-	-	-	-	-	-	-	-	-	-	-	1	_
Total	1		1		-		-		-		-		2	

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Ms. Kiran Chhetri	Slow Growth Techniques for Intro- Vitro Conservation of Citrus India	Dr. Binu Mathew
Ms. Shayantani Das	In vitro propagation of Jackfruit (Artocarpushetrophyllus Lam)	Dr. Binu Mathew(Supervisor) Dr. J.C. Dang (Joint Supervisor)

Research Fellowship

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

Fieldwork/Educational Tour of Students

Teacher-in-Charge: Dr. B. K. Mishra and Prof. D. C. Kalita.

Places/Institutions Visited: Kolkata/ Bidhan Chandra Krishi Visva Vidhyalaya, Science City. Kolkata

Duration of Tour (Dates and number of days): 16.2.2023 to 21.2.2023 (5 days).

Purpose of Tour: To Enrich the Academic Knowledge.

Courses Conducted

> Postgraduate

Semester I (NEP 2020): Introduction to Rural Development and Animal Husbandry, Principles and Practices of Agronomy and Horticulture, Rural Development Approaches, Programmes and Policies, Plant Propagation and nursery Management, Swine Production, Rural Development Planning and Project Management, Commercial Floriculture and Landscaping

Processing of Livestock Products, Statistical Techniques and Software application.

Semester-II: (Old Syllabus): 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: (Old Syllabus): 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: (Old Syllabus): 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.

PhD Course work

Research Methodology, General Aspects of Rural Development and Agricultural Production, Rural Development and Sustainable Change; Agronomy: Principles and Practices; Horticultural Production and Management; Animal Production and Management; Research Publication and Ethics

Seminars/Conferences/Workshops/ Symposia/Extension Programmes

Organized

A two days webinar on "Fermentation: Interplay of Microbes, Immunity and Health" was organized by the Dept. of Rural Development and Agricultural Production (RDAP), North-Eastern Hill University (NEHU), Tura campus, with due support from the Biotechnology Industry Research Assistance Council (BIRAC), a Government of India initiative during February 3rd - 4th, 2023. Convenor: Dr. B. K. Mishra.

> Attended/Delivered Lecture Dr. B. K. Mishra

Delivered a lecture as Key Note Speaker at 26th
World Congress on Nutrition and Food Sciences
(Virtual mode) held during September29,2022,
Organized by Conference series and the Editors of
Journal of Food and Nutritional Disorders, UK.

Prof. D. C. Kalita

- 1. Attended the Capacity Building Programme entitled a "Research & Training-Learning Process for the Faculty in Social Sciences" and delivered a talk on "Data Analysis (Tools & Techniques, Chi-Square test, t-test) ANOVA, Co-relation, Regression and Factor Analysis" on 29th October 2022 at Department of Rural Development, USTM.
- 2. Attended Training programme on Organic Agriculture as a Resource Person at KVK, Dhudnoi, Golapara Assam on 25th March 2023.

3. Chaired the technical Session on 24th November 2022 in International Conferences on "International Conference on Environment and Sustainable Development (ICESD2022) conducted under the aegis of Biotech KISAN Hub, NEHU, Tura Campus.

Dr. Lolly S. Pereira

- 1. Delivered a talk on "Waste Management" in the Workshop entitled "Environmental Psychology, Environmental Behaviour& Role play in Higher Education for Sustainable Development" organized by NEHU, Tura Campus, on 6th June, 2022.
- 2. Served as resource person in the Refresher Course on "Biodiversity and Conservation" (Interdisciplinary), for College and University teachers (3rd-18th August, 2022) conducted by UGC-HRDC, NEHU, Shillong and delivered a Lecture on "Conservation of *Citrus indica* and *Citrus macroptera*using biotechnological methods" on 16th August, 2022.
- 3. Served as resource person in the "Entrepreneurship Awareness Programme (EAP) on Food Processing" organized by Branch MSME-DI, Tura, Ministry of MSME, Govt. Of India & BIRAC's BioNESTBioincubator Facility, NEHU, Tura Campus and delivered a Lecture on "Prospects of Food Processing in Meghalaya" on 16th September, 2022.
- 4. Served as resource person in the Workshop entitled "Gender Enabling Environment under VigyanJyoti for Meritorious Girl Students (STEM) organized by NEHU as Knowledge partner in collaboration with Women in Science and Engineering (WISE-KIRAN), DST, Ministry of Science and Technology, Govt. Of India along with Department of Education, Department of RDAP, Department of MCA and BIRAC's BioNESTBioincubator Facility, NEHU, Tura Campus, and delivered a talk on "Science Subject: Its selection and application" on 27th March, 2023.
- 5. Served as resource person in the "Skill Development Training Program on Pickle Preparation" for Rural Entrepreneurs on 22nd March and 3rd April, 2023 jointly organized by the Department of RDAP and BIRAC's BioNESTBioincubator (B31) Facility.

Dr. B. Mathew

1. Delivered lecture on the topic "Vermi composting using kitchen waste" in a workshop organised by NEHU Tura Campus entitled "Environmental psychology, environmental behaviour and role play in higher education for sustainable

- development" held on 6-6-2022 at NEHU Tura Campus, Tura, Meghalaya.
- 2. Delivered lecture on the topic "Potential Skill Development programmes in Agriculture under NEP 2020" in a one day Seminar on NEP 2020: Itsimplementation, Prospects and Challenges" organised by the Dept. of Education, Loyola College, Williamnagar and the Dept. of Education, NEHUTura Campus held on 22-10-2022 at Loyola College, Williamnagar, Meghalaya.
- 3. Delivered lecture on "CUET (UG)-2023 and other entrance exams" in the capacity of the Chairman, College Welfare Advisory Committee (CWAC), NEHU, Tura campus in the 3 day workshop on CUET (UG) 2023 organised by Don Bosco College (Higher Secondary Section), Tura from 9th to 11th January 2023.

Publications

> Research Papers (8)

- 1. Mansinhbhai, C. H., Sakure, A., Liu, Z., Maurya, R., Das, S., Basaiawmoit, B., Bishnoi, M., Kondepudi, K.K., Padhi, S., Rai, A.K., Mishra, B.K., Hati, S. (2023). Anti-Inflammatory, ACE Inhibitory, Antioxidative Activities and Release of Novel Antihypertensive and Antioxidative Peptides from Whey Protein Hydrolysate with Molecular Interactions. *Journal of the American Nutrition Association*, 42 (4): 371-385. https://doi.org/10.1080/07315724.2022.2052201
- Mishra, B. K., Das, S., Prajapati, J. B., Patel, M., Ghodasara, D. J., Pathan, M., Hati, S. (2022). Significance of fermented rice beverage on management of antibiotic associated diarrhea (AAD) on Wistar rats. *Indian Journal of Experimental Biology*, 60: 759-770. https://doi.org/10.56042/ijeb.v60i10.37145
- 3. Mishra, B. K., Das, S., Nandy, S. K., Patel, M., Hati, S. (2023). Genomic and Probiotic attributes

- of Lactobacillus strains from rice-based fermented foods of North Eastern India. *Journal of Food Science and Technology*, 60(2): 504-516. https://doi.org/ 10.1007/s13197-05633-8
- Chopada, K., Basaiawmoit, B., Sakure, A. A., Maurya, R., Bishnoi, M., Kondepudi, K. K., Solanki, Divyang., Singh, B.P., Padhi, S., Rai, A.K., Liu, Zhenbin., Mishra, B.K., Hati, S. (2022). Purification and Characterization of Novel Antihypertensive and Antioxidative Peptides From Whey Protein Fermentate: In Vitro, In Silico, and Molecular Interactions Studies. *Journal of the American Nutrition Association*, 42(6): 598-617. https://doi.org/10.1080/27697061.2022.2110966
- 5. Hati, S., Ramanuj, K., Basaiawmoit, B., Koringa, P., Desai, M., Ghodasara, D. J., Joshi, K.V., Pathan, M., V, S., Bhogora, N.J., Savaliya, P., Mishra, B. K. (2022).Significance of fermentum Limosilactobacillus and Saccharomyces cerevisiae on the Growth Performance, Haematological Traits, Serum Biochemistry, Faecal and Caeca Microbiota of Broiler Chickens. Journal of the American Nutrition Association. https://doi.org/10.10 80/27697061.2022.2149634
- 6. Basaiawmoit, B., Mishra, B. K., and Hati, S. (2023). Rice cakes of North-East region of India: A systematic review. *Indian Journal of Traditional Knowledge*, 22(1): 99-107:https://doi.org/10.56042/ijtk.v22i1.45636.
- 7. Chhetri, K., Mathew, B., Pereira, L.S. (2022). Standardization of protocol for sterilization of explants of Indian Wild Orange (Citrus indica Tanaka) for micropropagation. *Indian Journal of Hill Farming*, 35(1): 11-19.
- 8. Sangma Y. A. S., Pereira L. S., Dang J. C. (2022) Micropropagation of Citrus macropteraMontr. using explants from in vitro generated seedlings. *Indian Journal of Hill Farming*, 35:26-32.

Funds Received during the current Year

Bulk Grant to Department/Centre/Section etc. other than EMR grant

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	8.75

EMR Research Projects to individual faculty members

ENTIN INCOCATOR I TOJECIS IO	illulviuual lacult	y michibers			
Title of Project	Current Status	Name of	Multi/Sin	Funding	Fund received
(Total outlay in Lakhs)	(New /on-	Investigator	gle	Agency	by NEHU in
	going/	(Pl/Co-Pl)	Institute		the year under
	completed)		(Tenure)		report

Deployment and piloting of	Ongoing	Dr. B.K.	Multi-	DBT,	Nil
Improved Indigenous		Mishra	Institute	Govt. of	
Fermented Food Product,			2021-	India	
'Chubitchi' and			2023		
'Tungrymbai'					
for the sustainable Livelihood					
in Meghalaya, North-East					
India (76.63)					
STINER- Technology	Ongoing	Dr. B.	Multi	NEC,	NIL
Facility Centre (STINER-		Mathew(PI)	(March,2	Ministry	
TFC) at NEHU Tura Campus,		Dr. L. S.	022-	of	
Meghalaya. (198)		Pereira	March,	DONER	
		(Co-PI);	2025)	Govt. of	
		Dr. D.C.		India	
		Kalita			
		Kanta			

Academic Collaborations

Dr. Binu Mathew

Acted as Co-coordinator, Biotech Hub, Dept. of Botany, Don Bosco College, Tura, Meghalaya.

Dr. Lolly S. Pereira

Name of Collaborator	Collaborating	Title of Academic activity
	Institution	
Dr. L. S. Pereira,	Loyola College,	Skill Development Programme on
Associate Professor,	William Nagar,	Sustainable Agriculture and Allied
Dept. of RDAP(Coordinator)	East Garo Hills	activities.

Other Activities

Dr. Lolly S. Pereira

- 1. Serving as Alumni Association Advisor for Dept. of RDAP, since 3rd November, 2022 for a period of 3 years.
- 2. Serving as Management Committee member of the DBT sponsored BioNEST Bioincubator Facility at NEHU, Tura Campus.

Dr. B.Mathew

- 1. Reviewer of the journal entitled, "Indian Journal of Traditional Knowledge", published by National Institute of Science Communication and Policy Research (erstwhile NISCAIR), New Delhi.
- 2. Reviewer of the journal entitled, "Transient", Don Bosco College, Tura.
- 3. Serving as *Technical Consultant* for "Agriculture, Horticulture and Spice production and

Management" associated with BAKDIL (NGO), Tura, West Garo Hills, Meghalaya.

- 4. Serving as Agriculture/Horticulture Consultant" of All Garo Hills Multipurpose Co-operative Society Ltd., Babadam, West Garo Hills, Meghalaya.
- 5. Acting as 'NE Mentor/NE Ambassador' to support the innovators/startups across North East Region in their research activities, designing solutions, commercialization as well as screening/selection of applications from NER under various innovative grants by Bioincubator, KIIT Technology Business Incubator (KIIT-TBI), supported by BIRAC, DBT, Govt. of India.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

Details of	Name		Prof. D.C.	Prof. S.C.	Dr. B.K. Mishra
Faculties			Kalita	srivastava	
	Date of Joining		28.07.2003	09.08.2006	17.09.2023to20.12.2006
					(Guest Faculty)
					21.12.2006 (Full Time
					Assistant Professor)
	Field of		Agricultural	Rural	Dairy Science and
	specialisation		Economics	Development	Technology
(A)	UG		7 years	Nil	Nil
Teaching	PG, including PhD		20 years	15 years	21 years
Experience (in					
Years)					
	Basic Research		Yes	Yes	Yes
	Applied Research		No	No	Yes
	Action Research		No	No	No
	Project Submitted		No	No	1
	Ongoing Project		No	No	2
	Research Paper in	Group I	No	No	6
	UGC care list	Group II	No	No	No
	journals	- ·	3.7	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	3.7
(D)	Books /Books	Books	No	No	No
(B) Research	chapters Published	Book	No	No	No
activities		Chapters			
activities	Popular Articles		No	No	No
	(News Paper/				
	Magazines)	37.1	3.7	3.7	0.1
	Seminar /	National	No	No	01
	Conference/	International	No	No	No
	Symposia organized	37.1	0.2	3.7	27
	Seminar /	National	03	No	No
	Conference/	International	No	No	No
	Symposia attended		NT.	N) T
	Conference		No	No	No
	Proceedings		NT	N	
	Consultancy		No	No	No
	Applied		No	No	No
(C)	Published		No	No	No
Patent	Granted	+	No	No	No
1 divili	Granicu		INO	110	INO
(D)	MOOC/SWAYAM/		No	No	No
E-Content	E-content developed				
	Teaching /Extension		No	No	No
	/outreach activities				
	Responsibilities		8	3	Yes
	other than teaching			_	
(E)	Awards/ Honours/		No	No	No
Any Other	Recognition/			1.0	- 10
•	Membership/				
	Fellowship				
	Collaborations	National	1	No	2
	210010	International	No	No	No

Details of	Name		Dr. B. Mathew	Dr. L.S. Pereira
Faculties	Date of Joining		17.01.2007	26.03.2009
	Field of specialisation		Horticulture (Fruits	Horticulture (Fruits
	•		and Orchard	and Orchard
			Management)	Management)
(A)	UG		06 months	Nil
Teaching	PG, including PhD		16 years	14 years
Experience (in				
Years)				
	Basic Research		Yes	Yes
	Applied Research		Yes	Yes
	Action Research		No	No
	Project Submitted		1	1
	Ongoing Project		1	1
	Research Paper in UGC	Group I	3	2
	care list journals	Group II	No	1
	Books /Books chapters	Books	No	No
	Published	Book	No	No
(B)		Chapters		
Research	Popular Articles (News		No	No
activities	Paper/ Magazines)			
	Seminar / Conference/	National	No	No
	Symposia organized	International	No	No
	Seminar / Conference/	National	2	1
	Symposia attended	International	No	Yes
	Conference Proceedings		No	No
	Consultancy		1	No
	Applied		No	No
(C)	Published		No	No
Patent	Granted		No	No
(D)	MOOC/SWAYAM/ E-		No	No
E-Content	content developed			
	Teaching /Extension		Yes	No
	/outreach activities			
	Responsibilities other than		Yes	Yes
	teaching			
(E)	Awards/ Honours/		Yes	Yes
Any Other	Recognition/ Membership/			
	Fellowship			
	Collaborations	National	1	1
		International	No	No

V. SCHOOL OF LIFE SCIENCES

Dean: Prof. S.B. Prasad (till August 31, 2022)	DEPARTMENTS UNDER THE SCHOOL
Prof. N. Saha (since September 1, 2022)	
E-mail: deansls@nehu.ac.in Telephone: +91-364-2722001, +91-364 - 2551292	 Department of Biochemistry Department of Biotechnology and Bioinformatics Department of Botany Department of Zoology

1. Vision and Mission of the School

The School of Life Sciences 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, 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 equipment like Next Generation Sequencers, DNA Sequencer, DNA Synthesizer, Confocal Laser Scanning Microscope, Gamma Radiation Source, FACS, FPLC, 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 DBT, DST, SERB, CSIR, ICMR, DAE, ICAR, etc. and international agencies, such as IAEA, etc. The UGC, New Delhi has been financially supporting all the departments under its Special Assistance Program (SAP) as well as the COSIST Program. Further, these Departments have also received financial support under the DST-FIST Program. The departments under the school have attracted highly qualified faculty members, many of whom have been awarded national and international fellowships as recognitions of their significant research contributions made in various fields of biological research, as well as for undertaking collaborative research projects in the country and abroad. Many students under the school qualify every year in the eligibility tests such as INSPIRE, NET, GATE, SLET, etc. The postgraduates and research students of the school are quite successful in obtaining the employment in academic and research institutions in the country and abroad. The school has developed a Central Instrumentation Facility, a Seminar Hall, and a Conference Room for promoting research and academic activities.

2. Major Achievements/Highlights

From the School of Life Sciences, a total of 125 students have been awarded with M.Sc. degree, and 26 students have been awarded with the Ph.D. degree during the year 2022-2023. Further, 4 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 14 students cleared the UGC/CSIR-NET examination, 6 students have been awarded with the Rajiv Gandhi National fellowship, and 2 students awarded with the Maulana Azad National Fellowship in this financial year. A total of 82 original research papers were published in various peer reviewed well-reputed National (28) and International (54) journals. Additionally, various faculty members and research scholars from this School of Life Sciences also contributed 1 book chapter published by Indian publishers and 6 chapters in books published by international publishers. One faculty member published a book, edited two books, one by Springer,

Singapore, and another one by the Academic Press, USA. Different faculty members from the school are running 6 major research projects, and 3 new major research projects have also been sanctioned by different Govt. funding agencies to various faculties from this School in this financial year.

3. Future Plans

The NEP-2020 M.Sc. syllabus, introduced in all the four department from the academic year 2022-2023, will continue in subsequent years with multidisciplinary approach. 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 improve the skill development of the students. Maximum efforts will be made to increase the number of research publications in different journals of international reputes. 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.

4. Salient Data of the School [2022-2023]

	26
Number of Students awarded Ph.D. Degree Number of Research Publications	82
Number of Research Fublications	02
Number of Books, Book Chapters, and Proceedings	08
Number of Research Projects (Fund Received)	
Completed	NIL
Completed	INIL
On-going (6)	85.16 Lakhs
New (3)	73.5 Lakhs
Number of Consultancy Projects (Fund Received)	
National (1)	4.0 Lakhs
International	NIL
Number of Students Placed	34
Number of Students Selected for Higher Studies	
Total Number of Patents	
Filed	NIL
Published	NIL
Granted	NIL
Policy Documents: Status (Name of the Agency) and Num	nber
(i) Applied	NIL
(ii) Approved	NIL

DEPARTMENT OF BIOCHEMISTRY

Head: Prof. M.B. Syiem **Telephone:** 0364-272-2101

E-mail: hodbio@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
	Dr.D. Syiem, M.Sc.& Ph.D. (NEHU)	Medical Biochemistry, Diabetes and Natural Products
Professor	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
Associate	Dr.P.K. Ambasht, M.Sc.& Ph.D. (BHU)	Enzymology: Enzyme Purification, Kinetics and Immobilization
Professor	Dr.S. Bhan, M.Sc.& Ph.D. (BHU)	Medical Biochemistry, Nano- biomaterials
Assistant Professor	*Dr.T. Tripathi, M.Sc. (UOM), Ph.D. (JNU)	Biophysics, Molecular Biology

^{*} On lien (19.4.2022) to IGNOU Kohima, Nagaland as Regional Director.

Thrust Areas of Research

- 1. Medical Biochemistry (Diabetes, Medicinal Plants, Natural Products, Molecular Biology of Radiation Damage/Repair and Carcinogenesis, Nano-biomaterial)
- 2. Microbial Biochemistry (Plant-Microbe Interaction, Cyanobacterial Diversity and Nitrogen Fixation, Cyanobacteria Ibiofertilizer and Bioremediation)
- 3. Protein Chemistry (Enzymology: Purification, kinetics and immobilization; Molecular and Structural Biophysics)

Brief Statement of Academic Activitiesnand achievements:

The Department admitted twenty-four students for M.Sc. and nine students for Ph.D. programme. During this period, twenty-threestudents have successfully completed their M.Sc. and four 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/symposi a 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	7	EWS	5	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	-	-	-	1	-	-	-	-	-	-	-	-	_	1
Assam	-	3	-	-	-	-	-	1	-	-	-	-	-	4
Bihar	-	-	-	-	-	-	1	-	-	-	-	-	1	-
Manipur	-	-	1	2	_	-	-	_	-	-	-	-	1	2
Meghalaya	-	1	2	10	-	-	-	-	-	-	-	-	2	11
Mizoram	-	-	1		-	-	-	-	-	-	-	-	1	-
Nagaland	-	-	1		-	-	-	-	-	-	-	-	1	-

Sub Total	-	4	5	13	-	_	1	1	-	=	-	-	6	18
Total	4		18		-		2		_		-		24	

> Enrolment of students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC	7	EWS	S	PWD	1	TOT	ΆL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	2	5	-	-	-	-	-	-	-	-	2	5
Mizoram	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Nagaland	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Sub Total	-	-	2	7	-	-	-	-	-	-	-	-	2	7
Total	-		9		-		-		-		-		9	

Degrees Awarded

> M. Sc.: 23, Ph.D.: 02

> Degrees Awarded to students from different States of India and Abroad (M. Sc.)

	Gen		ST		SC		OBC	7	EWS	5	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	-	-	-	1	-	_	-	-	-	-	-	-	-	1
Assam	-	1	-	-	-	_	-	-	-	-	-	-	-	1
Manipur	-	-	1		-	_	-	-	-	-	-	-	1	-
Meghalaya	-	-	5	10	-	_	-	1	-	-	-	-	5	11
Mizoram	-	-	-	3	-	-	-	-	-	-	-	-	-	3
Nagaland	-	_	-	1	-	_	-	_	_	-	-	-	-	1
Sub Total	-	1	6	15	-	_	-	1	-	-	-	-	6	17
Total	1		21		-		1		-		-		23	

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC	7	EWS	S	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	-	-	-	-	-	-	1	-	-	-	-	-	1
Meghalaya	-		-	2	-	-	-	-	-	-	-	-	-	2
Uttar Pradesh	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Sub Total	-	-	-	2	-	1		1	-	-	-	-	-	4
Total	-		2		1		1		-		-		4	

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/
Ms.BabiangshishaKharbuli	Age-related Changes in Mediators of Inflammation and its Amelioration by Dietary Restriction in Mice	Prof. R. Sharma
Ms.Shelareen E. Sunn	Studies on Effects of Phytochemical Combinations of Pontentillafulgens L. Extract on Adipokine Expression and Insulin Signaling in Diabetic Mice	Prof. D. Syiem
Ms.NingombamAnjanaSingha	Development of Bacterial Consortia in Response to Temperature Variation for Biodegradation of Crude Oil	Prof. A.K. Singh

Ms.ShivaniPriya	Identification of Putative microRNAs for Cancer Detection in Diethylnitrosamine Induced Hepatocellular Carcinoma	Prof. L. Kma
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Placement of Students

Name of the Student(s)	Organization	Place of Work
Babiangshisha Kharbuli	Royal Global University	Guwahati
Casterland Marbaniang	Department of Biochemistry, NEHU	Shillong
Balakyntiewshisha Lyngdoh Kynshi	Department of Biochemistry, NEHU	Shillong
Pynskhembok Swer	Department of Biochemistry, NEHU	Shillong
Khetbadei L H Hadem	St. Edmund's College	Shillong

Students selected for Higher Studies

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
Careen Liza Pakyntein	Project Associate (ICAR)	Indian Council of Agricultural Research(ICAR), Umiam, Meghalaya	India

Research Fellowship

CSIR- UGC-NET	UGC Non-Net	IEAE Project	NFST	Maulana Azad National Fellowship	ICMR
1	12	1	2	1	1

Courses Conducted:

> Postgraduate – M. Sc

Semester I (NEP 2020): Enzymology; Practical-I; Intermediary Metabolism; Techniques in Biochemistry, Nutritional Biochemistry.

Semester II: Core courses Physiological Chemistry; Practical: Open courses Techniques in Biochemistry; Microbiology.

Semester III: Core courses Genetics; Medical Biochemistry; Practical.: Open courses Environmental Biochemistry; Nutritional and Clinical Biochemistry.

Semester IV: Core courses Molecular Biology; Immunology; Bioenergetics; Practical.

PhD Courses

Research Methodology; Research and Publication Ethics; Topics in Biochemistry; Review of Literature and Seminar.

Seminars/Conferences/Workshops/Symposia/Ext ension Programmes

- 1. International Seminar cum Workshop on Economics and Social Impact of Medical Devices on the Healthcare Sector in the Country. (28-30 April 2022) Prof. D. Syiem (Organizer)
- 2. Refresher Course in Life Sciences (July 26-August 8, 2022); Department of Biochemistry, NEHU, Shillong. Prof. A.K. Singh (Course Coordinator)
- 3. The Department of Biochemistry organized a discussion programme on the book Modi @

- Dreams meet Delivery. (August 11, 2022) Prof. L. Kma, Dr. P.K. Ambasht and Dr. S. Bhan
- 4. Hands on Training Program on Advances in Biochemical Techniques and Applications (September 1-8, 2022) under the aegis of Synergy Training Program Utilizing the Scientific and Technological Infrastructure (STUTI) at Department of Biochemistry, NEHU, Shillongin association with SAIF, Punjab University, Chandigarh. Prof. L. Kma (Chairman), Dr. S. Bhan and Dr. P.K. Ambasht (Organizing Secretaries)
- 5. Seminar on Contribution of Tribal Heroes in Freedom Struggle as part of 'Azadi Ka Amrit Mahotsav' (October 11, 2022) NEHU Shillong, in collaboration with National Commission for Scheduled Tribes (NCST), New Delhi. Prof. L. Kma

Publications

Research Papers (22)

- 1. Bora, J., Sahariah, P., Dey, A., Syiem, D., Bhan, S. (2022). *Phlogacanthusthyr siflorusNees*modulates hepatic and renal apoptosis via attenuation of oxidative stress in alloxan-administered mice. *Comp. Clin. Pathol*, https://doi.org/10.1007/s00580-022-03347-z.
- 2. Chettri, B., Chingkheihunba, A., Singh, A.K. (2022). Dynamics and prevalence of specific hydrocarbonoclastic bacterial population with respect to nutrient treatment levels in crude oil sludge. *Arch. Microbiol.*, 204: 1-14.
- 3. Dkhar, D.S., Kumari, R., Mahapatra, S., Divya Kumar, R., Tripathi, T., Chandra, P. (2022). Antibody-bioreceptor bioengineering and its implications in designing bioelectronic devices. *In. J. Biol. Macromol.*, 218: 225-242.
- 4. Joshi, A., Tripathi, T.,Singh, S.K., Padhi, A.K. (2023). Computational approaches for development of engineered therapeutics against SARS-CoV-2. *Biochemistry*, 62: 669-671.
- 5. Kalita, P., Tripathi, T., Padhi, A.K. (2023). Computational protein design for COVID-19 research and emerging therapeutics. *ACS Centr. Sc.*, 9: 602-613.
- 6. Kalita, P., Tripathi, T. (2022.)Methodological advances in the design of peptide-based vaccines. *Drug Discov. Today*, 27: 1367-1380.
- 7. Khadim, S.K.R., Mohanta, A., Singh, P., Maurya, P., Singh, A.K., Singh, A.K., Asthana, R.K. (2022). A study on *Dunaliellasalina* under selected nutrient manipulation with reference to the biomass, lipid content along with expression of *Accase*

- and Rubisco genes. BioEnergy Res., 16: 622-637.
- 8. Koner, D., Nag, N., Kalita, P., Padhi, A.K., Tripathi, T., Saha, N. (2023). Functional expression, localization, and biochemical characterization of thioredoxin glutathione reductase from air-breathing magur catfish, *Clariasmagur. Int. J. Biolog. Macromol.*, 230: 123126.
- 9. Kynshi, B. L., Sachu, M., Syiem, M. B. (2022). Unrestricted availability of α-ketoglutarate influences biomass production in the cyanobacterium*Nostocmuscorum* Meg 1 by impacting rates of photosynthesis, nitrogen fixayion and lipid synthesis. *J. Appl. Phycol.*, 34: 1363-1375.
- 10. Nag, N., Tripathi, T.(2023). Nup98 mislocalization is a common feature in primary tauopathies. *Brain Comm.*, 5: fcad097.
- 11. Nag, N., Tripathi, T. (2023).Tau–FG-nucleoporin98 interaction and impaired nucleocytoplasmic transport in Alzheimer's disease. *Brief. In Funct. Genom.*, 22: 161-167.
- 12. Nag, N., Tripathi, T. (2022). Mislocalization of Nup62 contributes to TDP-43 proteinopathy in ALS/FTLD. *ACS Chem. Neurosc.*, 13: 2544-2546.
- 13. Neihsial, R, Singha N.A., Singh A.K. (2022). Taxonomic diversity and predictive metabolic functions of a heavy metal tolerant multiple azo dye degrading bacterial consortium from textile effluents. *Int. Biodeter. Biodegrad.*, 171: 105421.
- 14. Nonglang, F. P., Khale, A., Bhan, S. (2022). Phytochemical characterization of the ethanolic extract of *Kaempferiagalanga* rhizome for anti-oxidant activities by HPTLC and GCMS, *Fut. J. Pharma. Sc.*, 8:9
- 15. Nonglang F.P., Khale, A., Wankhar, W., Bhan, S. (2022). Pharmacognostic evaluation of *Eranthemum indicum* extracts for its in-vitro antioxidant activity, acute toxicology, and investigation of potent bioactive phytocompounds using HPTLC and GCMS. *Beni-Suef Univ. J. Bas. Appl. Sc.*, 11:129
- 16. Padhi, A.K., Tripathi, T. (2023).A comprehensive protein design protocol to identify resistance mutations and signatures of adaptation in pathogens. *Brief. Funct. Genom.*, 22: 195-203.
- 17. Padhi, A.K., Tripathi, T. (2022). Hotspot residues and resistance mutations in the nirmatrelvir-binding site of SARS-CoV-2 main protease: Design, identification, and correlation

- with globally circulating viral genomes. *Biochem. Biophys. Res. Comm.*, 629: 54-60.
- 18. Padhi, A.K., Tripathi, T. (2022). High-throughput design of symmetrical dimeric SARS-CoV-2 main protease: Structural and physical insights into hotspots for adaptation and therapeutics. *Phys. Chem. Chemic. Phy.*, 24: 9141-9145.
- 19. Patar, A.K., Kma, L., Barman, J., Ghosh, S., Baruah, T.J. (2022). KRAS G12C as a target of naringenin for inducing cell death in NCI-H23 cells. *Pharmacog. Res.*, 14: 256-262.
- 20. Priya, S., Kma, L. (2022). Modulation of EphA7 and pEphA7 protein expression: Potential biomarkers for early detection of hepatocellular carcinoma. *Asian Pacif. J. Cancer Prevent.*, 23: 2843-2850.
- 21. 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. *Env. Sc. Poll. Res.*, 29: 36684-36698.
- Shukla, J.L., Husain, A.A., Lyngdoh, S.A., Nonglang, F.P., Sahai, N, Gogoi, M., Singh, L. R., Bhan, S., Kashyap, R. S.(2022). Seroepidemiological study of human brucellosis in the Northeast region of Meghalaya. *Ind. J. Fam. Med. Prim. Care*, 11: 5177.

Books (01)

1. Tripathi, T. (2023). *Introduction to Spectroscopic Methods*. Astral International (P) Ltd, New Delhi. ISBN: 978-93-5461-699-

Edited Books/Volumes (02)

- 1. Singh, D.B., Tripathi, T., (Eds.) (2023). *Protein-based Therapeutics*. Springer, Singapore. pp. 1-384. ISBN: 978-981-19-8248-4.
- 2. Saudagar, P., Tripathi, T., (Eds.) (2023). Advanced Spectroscopic Methods to Study Biomolecular Structure and Dynamics. Academic Press, USA. pp. 1-558. ISBN: 978-032-39-9127-8.

➤ Book Chapters (05)

1. Hadem, K.L.H., Kma, L., Sharan, R.N., Sen, A. (2022). Anticancer effect of *Aristolochiatagala* and *Curcuma caesia* acting through tumor necrosis factor-α: mediated nuclear factor κB pathway. In: *Handbook of Research onAdvanced Phytochemicals and Plant-Based Drug Discovery*. A. Singh (Ed.). IGI Global

- Publisher, Pennsylvania, USA, DOI: 10.4018/978-1-6684-5129-8.ch019, Chapter 19, pp. 366-394.
- Nag, N., Sasidharan, S., and Saudagar, P.,Tripathi, T. (2023) Fundamentals of spectroscopy for biomolecular structure and dynamics. In: Advanced Spectroscopic Methods to Study Biomolecular Structure and Dynamics. Saudagar, P., Tripathi, T.(Eds) Academic Press, USA. Chapter 1, [ISBN: 978-032-39-9127-8]. Pp. 1-35.
- 3. Prince, K., Sasidharan, S., Nag, N., Tripathi, T., Saudagar, P. (2023) Integration of spectroscopic and computational data to analyze protein structure, function, folding, and dynamics. In: *Advanced Spectroscopic Methods to Study Biomolecular Structure and Dynamics*. Saudagar, P., Tripathi, T.(Eds) Academic Press, USA. [ISBN: 978-032-39-9127-8]. Chapter 16, Pp. 483-520.
- 4. Sahu, R., Sooram, B., Sasidharan, S., Nag, N., Tripathi, T., Saudagar, P. (2023) Applications of infrared spectroscopy to study proteins. In: *Advanced Spectroscopic Methods to Study Biomolecular Structure and Dynamics*. Saudagar, P., Tripathi, T.(Eds) Academic Press, USA. [ISBN: 978-032-39-9127-8]. Chapter 6, Pp. 153-178.
- Sasidharan, S., Nag, N., Tripathi, T., Saudagar, P. (2023) Interactions and interplay of MLOs with classical membrane-bound organelles. In: Droplets of Life: Membrane-Less Organelles, Biomolecular Condensates, and Biological Liquid-Liquid Phase Separation. Uversky, V.N. (Ed). Academic Press, USA. [ISBN: 978-012-82-3967-4]. Chapter 12, pp. 375-395.

Proceedings of Seminar/Conferences (01)

1. Tripathi, T. (2022). Restructuring and Consolidating HEIs with NEP 2020. In: Proceedings of the Two-Day National Conference of Central University Vice-Chancellors on "Devising Action Plan for Faster and Smoother Implementation of NEP-2020". Central University of Tamil Nadu.pp. 61-62.

Popular Articles (News Paper and Magazines)

1. Prof. L. Kma Published 7 Articles in 'The Shillong Times, U Nongsain Hima, Mawphor and Kynjatshai'.

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	16 Lakh

(F) EMR Research Projects to individual faculty members:

Title of Project (Total outlay in Lakhs)	Current Status (New / on- going/ completed)	Name (Pl/ Co-Pl)	Multi/ Single Institute (Tenure)	Fnding 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)	Ongoing	Prof. RN Sharan (Retd.)(PI)/ Prof. L. Kma (Co-PI)	Single (2017-2023)	Internation al 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)	Ongoing	PI: Dr.Timir Tripathi Co-PI: Prof. AK Singh Co-PI: Dr.Pranjal Chandra, IIT BHU	Multi (2022- 2025)	Departme nt of Health Research (DHR), New Delhi	INR 45.61 L
Understanding the Specificity and Dynamics of the Interaction of Phospho-tau and Intrinsically Disordered FG-Nucleoporins in Alzheimer's Disease (INR 42.15 L)	Ongoing	PI: Dr.Timir Tripathi Co-PI: Prof. AK Singh	Single (2021- 2024)	Indian Council of Medical Research (ICMR), New Delhi	INR 22.05 L
Understanding the Early Events of α-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 Chattopadhy ay, CSIR- IICB, Kolkata	Multi (2019- 2022)	Departme nt of Biotechnol ogy (DBT), New Delhi	Nil

Academic Collaborations

Dr. T. Tripathi International

S.	Name of	Collaborating	Title of	Academic
no	collaborator	Institution	project	activity
1	Prof.Kam Zhang	RIKEN, Yokohama,	-	Research
		Japan		publications
2	Prof. Vladimir N	University of South	-	Research
	Uversky	Florida, USA		publications

Prof. A.K. Singh National

S. no.	Name of collaborator	Collaborating Institution	Title of project	Academic activity
1	Prof. R.K. Asthana	Dept. of Botany, BHU,	-	Research
		Varanasi		publications

Dr. P.K. Ambasht

National

S.	Name of	Collaborating Institution	Title of	Academic
no.	collaborator		project	activity
1	Prof. G. Bez	Dept. of Chemistry, NEHU,	-	Research
		Shillong		publications
2.	Dr. T. Tripathi	Dept. of Biochemistry,	-	Research
		NEHU, Shillong		publications

Dr. S. Bhan

National

S.	Name of	Collaborating	Title of	Academic
no.	collaborator	Institution	project	activity
1	Prof. Rajpal	CIIMS Nagpur	Brucellosis	Research
	Kashyap			Publication
2.	Prof. B Gupta	IIT, Delhi	Wound	Research
	_		healing and	Publication
			biomaterials	

Dr. T. Tripathi National

S.	Name of	Collaborating	Title of project	Academic
no	collaborator	Institution		activity
1	Dr. Aditya Padhi	IIT BHU,	-	Research
		Varanasi		publications
2	Dr. Prakash	NIT Warangal,	-	Research
	Saudagar	Warangal		publications
3	Dr.Krishnananda	CSIR-IICB,	Understanding the Early	Research
	Chattopadhyay	Kolkata	Events of α-Synuclein	publications
			Aggregation and its	
			Implications in	
			Parkinson's Disease	
			Related	
			Neurodegeneration	
4	Dr.Pranjal	IIT BHU,	Design and Validation of	Research
	Chandra	Varanasi	Field Deployable	publications

			Miniaturized Nano-Bio- Sensing System for Detection of the Parasitic Liver fluke Fasciolagigantica	
5	Dr Dev Bukhsh	Siddhartha	-	Research
	Singh	University		publications

Seminars/Conferences/Workshops/Symposia/ Extension Programmes

Prof. L. Kma

- 1. "Therapeutic roles of medicinal plants in amelioration of cardiovascular diseases" in *Live Conference on Atherosclerosis and Cardiovascular Diseases*, conducted online by Hadassah Medical Center Israel(April 4,2022);
- 2. "Cancer: Current status in therapeutics" in *Immuno-Oncology 2022 World Congress*, organized online byBioevents, Copenhagen, Denmark(May 12-13, 2022);
- 3. "Flavonoids act as radiosensitizer in non-small cell lung cancer cells" in 15th Annual Meeting of the Korean Society of Medical Oncology and International Conference 2022 (KSMO 2022), conducted online by KSMO(September 1-2, 2022);
- 4. "Flavonoids ameliorate radiation response in lung cancer cells" in 68th Annual International Meeting conducted by Radiation Research Society, USA, in Waikoloa Village, Hawaii (October 16-19, 2022).

Dr. T. Tripathi

- 1. Delivered the inaugural address "Teacher Education for Sustainable Development: A Roadmap for 21st Century"in a National Seminar at Unity College of Teacher Education, Dimapur (March 13-17, 2023)
- 2. Delivered invited lectures "NEP 2020: Role of Research and Innovation in Developing Multidisciplinary Institutions" in the *National Webinar* at Gwalior, MP (April 12, 2022); "NEP2020:
- 3. Technical Education and Flexible Academic Programs" at the *National Workshop on National Education Policy (NEP2020) for Technical Education*, at NEHU, Shillong (April 18, 2022);
- 4. "Restructuring and Consolidating HEIs with NEP 2020" in the Two-Day National Conference of Central University Vice-Chancellors on "Devising Action Plan for Faster and Smoother"

- *Implementation of NEP-2020*" at Thiruvarur (May 27-28 2022);
- 5. "Self-reliant India:Role of National Research Foundation" in *National Seminar on Self-reliant India: Role of Research and Innovation* at JNU, New Delhi (September 17 2022);
- 6. "Potential Drug Resistance in SARS-CoV-2: Importance of Mutational Surveillance in Pandemics" in 62nd Annual Meeting and International Conference of the Association of Microbiologists of India titled "Microbes and Society: Current Trends and Future Prospects," at Mysuru (September 21-23, 2022);
- 7. "Potential Drug Resistance in SARS-CoV-2: Importance of Mutational Surveillance in Pandemics" in 2nd International Conference cum Workshop on Recent Trends in "Structural Bioinformatics and Computer Aided Drug Design" (ICSBCADD'2022) at Alagappa University, Karaikudi (November 21-25, 2022);
- 8. "Potential Drug Resistance in SARS-CoV-2: Importance of Systematic Mutational Surveillance in Pandemics" in *International Conference on Biotechnology, Sustainable Bioresources and Bioeconomy*" (BSB2-2022) at IIT Guwahati (December 7-11, 2022);
- 9. "Status of Implementation of NEP 2020: Issues and Challenges" in a *Workshop on Implementation of NEP 2020 in North East*at Agartala(January 11-12, 2023).

$Honours/Awards/Recognition/Membership/F\\ellowship$

Dr. T. Tripathi

- 1. Member Extramural Project Grant evaluation committee of Israel Science Foundation (Israel), DBT-BIRAC, SERB, and ICMR (India), Research Advisory Committee, Mizoram University, Aizawl (2022-2024),NEP 2020 Implementation Committee, NEHU (2021-2024).
- 2. Expert Member Institution Innovation Council of IGNOU, IGNOU, New Delhi (2022-2023).

- 3. Editor International Journal of Biological Molecules, Elsevier, USA (2023 onwards).
- 4. Editorial Board Member International Journal of Biological Molecules, Elsevier, USA (2021-2023), ActaTropica, Elsevier, USA, (since 2020), Scientific Reports, Springer Nature, Singapore, (since 2017)
- 5. Elected Vice-President of the Bioinformatics and Drug Discovery Society, India (2023-2026).

Other Activities/achievements

Prof. D. Sviem

- 1. Delivered invited talk in Refresher course in Life Science and Botany as a Resource Person"Diabetes with special reference to medicinal plants and fasting" at Department of Biochemistry NEHU, Shillong (August 1, 2022); "Tapestry of Biodiversity, traditional knowledge and drug discovery" at Department of Botany NEHU, Shillong (August 17, 2022)
- 2. Delivered Talk as Resource Person "HPLC and applications" in the *Hands on Training Program on Advances in Biochemical Techniques and Applications* under the aegis of *Synergy Training Program Utilizing the Scientific and Technological Infrastructure (STUTI)* at Department of Biochemistry, NEHU, Shillong (September 1, 2022).

Prof. A.K. Singh

- 1. Delivered lectures as Resource Person "Application of GC in the analysis of hydrocarbons" in the in the Hands on Training Program on Advances in **Biochemical** Techniques and Applicationsunder the aegis of Synergy Training Program Utilizing the Scientific and Technological Infrastructure (STUTI) at Department of Biochemistry, NEHU, Shillong(September 1-8, 2022); "Microbiology of oil contaminated environment" at M.S. University, Vadodara, Baroda (November 19, 2022); "Oil Pollution scenario in the NE region of India" at Royal Global University, Guwahati (November 29-30, 2022)
- 2. VisitedCochin University of Science and Technology as Member coordinator of NAAC team (October 12-14, 2022)
- 3. Attended Brainstorming meeting at Royal Global University, Guwahati (November 29-30, 2022).
- 4. Reviewer Energy conservation and management, Scientific Reports, World J Microbiol and Biotechnol, Bioresource Technology Reports,

BMC Microbiology, Frontiers in Microbiology, Polycyclic Aromatic Compounds

Prof. M.B. Syiem

- 1. Invited talk as a Resource Person "The applications and practical uses of scanning electron microscopes" in the *Workshop* at SAIF, NEHU, Shillong(April 29, 2022);
- 2. "The applications and practical uses of transmission electron microscopes" in the Workshop at SAIF, NEHU, Shillong (May 04, 2022);
- 3. "Metabolism and Bioenergetics (Energy Flow)" in the *Refresher Course* organized by Department of Biochemistry, NEHU, Shillong (July 26, 2022):
- 4. "Water Pollution and Microbial Bioremediation" in the *Refresher Course* organized by Department of Biochemistry, NEHU, Shillong (July 28, 2022);
- 5. "Diversity and Conservation of Nature" in the *Refresher Course* organized by Department of Botany, NEHU, Shillong (August 08, 2022);
- 6. "Transmission Electron Microscopy and its Infinite Potential in Biological Sciences" in the in the Hands on Training Program on Advances in Biochemical Techniques and Applications under the aegis of Synergy Training Program Utilizing the Scientific and Technological Infrastructure (STUTI) at Department of Biochemistry, NEHU, Shillong (September 06, 2022);
- 7. "Importance of Energy in Metabolism" in the *Refresher Course* organized by Department of Zoology, NEHU, Shillong (November 22, 2022).
- 8. "Cyanobacterial Research" in Institute of Plant Science and Resources, Okayama University, Japan.
- 9. Visited Karnatak University, Dharwar, Karnataka as peer team member of NAAC (September 29-October 01, 2022);
- 10. Okayama University (Japan) for the course of Sakura Science Exchange Programme at (February 01- 07 2023) administered by Japan Science and Technology Agency; Institute of Plant Science and Resources, Okayama and Kyoto University.
- 11. Reviewer World Journal of Biology and Biological Sciences, CLEAN-Soil, Air and Water, Environment Monitoring and Assessment.

Prof. L. Kma

1. Member Governing Body, Lady Keane College, Shillong (2020-2023); Election Commission of

- the NEHU for NEHUSU Election (2023-2024); Organizing committee-ASEAN Music Festival in NEHU (November 22, 2022).
- 2. Organized A 'Free preventive oncology-cumawareness camp on screening and early detection/diagnosis of Oral Cavity Cancer', organised by Cancer & Radiation Countermeasures Unit, Department of Biochemistry, and NSS Cell, NEHU, Shillong in collaboration with North-East Cancer Hospital and Research Institute (NECHRI), Jorabat in Mawkynroh-Umshing village (May 28 2022).
- 3. Judge In a Singing Competition, organized by Central Bureau of Communication, Shillong, Ministry of Information & Broadcasting, Government of India, in collaboration with the Pro Bono Associates Club, Dept. Of Law, NEHU, Shillong, (September 29-30, 2022).
- 4. Attended a workshop as a delegate from NEHU Anusandhan-Asmita, Janiativa Astitvaevam Vikas, organized by the National Commission for Scheduled Tribes, 27-28 November 2022 in VigyanBhawan, New Delhi. The programme was concluded on the 28th of November with the address by the Hon'ble President of India, Her Excellency Smt. DroupadiMurmu RastrapatiBhawan and interacted with the delegates which was followed by the dinner hosted by her at RastrapatiBhawan complex. The workshop was organized by the Commission to open new avenues for further research on the issues concerning Janjati (Tribal) communities.
- 5. As the Director, Sports Department NEHU
- 6. Represented NEHU in the All India Conference of Vice-Chancellors of Universities on Sports Development, , held at NDMC Convention Centre, New Delhi, organized by Ministry of Youth Affairs ad Sports, Government of India for the overall upliftment of Games and Sports activities across all universities in the country (January 24, 2023).
- 7. Participated as a Panellist In panel discussion cum interactive session on 'Meghalaya election and government formation', organized by the Political Science Research Forum, NEHU, Shillong, in NEHU (March 132023).
- 8. Delivered lecture as Resource Person "Cancer stem cells" in *Refreshers course in Life Sciences*, NEHU, Shillong (July 26- August 8, 2022); "Research applications of ionizing radiation" in the *Hands on Training Program on Advances in Biochemical Techniques and Applications* under the aegis of *Synergy Training Program Utilizing*

- the Scientific and Technological Infrastructure (STUTI) at Department of Biochemistry, NEHU, Shillong(September 1-8, 2022); "21st Century Skills: With special emphasis on life skills," in State-level workshop at St. Mary's College, Shillong (March 24, 2023)
- 9. Chief Guest Valedictory programme in *State-level workshop* at St. Mary's College, Shillong (March 24, 2023).
- 10. Reviewer Cell Communication and Signalling, Journal of Cancer Science and Therapy, Journal of Pharmaceutical Research International, Current Molecular Medicine.

Dr. P.K. Ambasht

- 1. Delivered lecture as Resource Person "Enzyme activity assay and purification" in *Refresher Course in Life Sciences* at UGC-HRDC Centre, NEHU, Shillong (August 3, 2022)
- 2. "Salient features of the book Modi @ Dreams meet Delivery" in the *Discussion programme* in the Department of Biochemistry, NEHU, Shillong(August 11, 2022).
- 3. ReviewerJournal of Proteins & Proteomics, Journal of Plant Biochemistry & Biotechnology, Bioscience Journal, Protein Journal

Dr. S. Bhan

invited lectures "Chlorophyllin 1. Delivered suppresses oxidative stress and apoptosis in hepatocytes of diabetic mice" in the Refresher course in Life Sciences at HRDC, NEHU, (July Shillong 26-August 8, 2022); "Identification of diabetic biomarker by gel electrophoresis" in the Hands on Training Program Advances Biochemical in Techniques and Applicationsunder the aegis of Training Program Synergy Utilizing the Scientific and Technological Infrastructure (STUTI)at Department of Biochemistry, NEHU, Shillong (September 1-8, 2022)

Dr. T. Tripathi

1. Delivered invited lectures "From DNA Structure to Gene Editing: Historical Perspectives of Scientific Discoveries" before UG & PG students of Kongunadu Arts & Science College, Coimbatore (May 11 2022);

- 2. "Scientific Integrity: Research Misconduct, Ethics, and Misinformation" in the *Hands-on Training Programme on "Innovations in Healthcare Technologies"*, at Department of Biomedical Engineering, NEHU, Shillong (February 06-12, 2023);
- 3. "Scientific Integrity: Research Misconduct, Ethics, and Misinformation" in a Short-Term Course on "Computer-Aided Drug Design and Structural Bioinformatics (CADDSB-2023)" at IIT, BHU, Varanasi (March 13-17,2023);
- 4. "Rashtriya Shiksha Neeti 2020 Aur Atmanirbhar Uttarpurv" in "Purvottar Gyanotsav", at Tripura University, Agartala (March 17-18, 2023)
- 5. Delivered invited lecture and Demonstration session "The Importance of Passion, Persistence, and Probity in Science and Scientific Research" in the *SERB-sponsored VRITIKA Internship* programme 2022 on "Development of Innovative Healthcare Devices" at NEHU, Shillong (August 01-31,2022);
- 6. "Circular Dichroism Spectroscopy and its Applications" in the *Hands-on Training Workshop on "Advanced Biochemical Techniques and Applications"* at Department of Biochemistry, NEHU, Shillong(September 02, 2022);
- 7. "Circular Dichroism Spectroscopy Principles, Methods, and Applications" in the *Hands-on Training Workshop on "Advanced Analytical and Imaging Techniques"* at the Department of Zoology, NEHU, Shillong (November 05, 2022)
- 8. Invited Lecture in Faculty Development Programs "From DNA Structure to Genome Editing: Historical Perspectives of Scientific Discoveries" in the Refresher Course in Life Sciences, NEHU, Shillong (July 26- August 08, 2022); "Multidisciplinary and Interdisciplinary Research: Need of the Hour" in the Faculty Development Program on "National Education Policy - 2020: Scenario & Path ahead for Research in Bharat" at the Hansraj College, University of Delhi, Delhi (October 10-15, 2022); "NEP Foundational Principles 2020: Educational Reforms" in the Refresher Course on Life Sciences at University of Hyderabad, Hyderabad (October 17-30, 2022); "NEP 2020: 21st Century Skills, Vocational Education, Technology, and Innovation" in the National Faculty Development Programme (Virtual) on "Outcome-Based Education and Bloom's

- taxonomy" at Karur, Tamil Nadu (November 23, 2022); "Research Ethics: Integrity, Misconduct, and Misinformation" and "NEP 2020: Foundational Principles & Educational Reforms" in the *UGC Refresher Course in Biomedical Sciences* at NEHU, Shillong (March 01-14 2023);
- 9. Attended one-week online "Professional Development Programme on Implementation of NEP 2020 for University and College Teachers" organized by IGNOU, New Delhi (October 17-22, 2022).
- 10. Reviewer of Journal ACS Omega, Aging Medicine, BBA- Proteins and Proteomics, Biochemical Journal, Biomolecules, Biophysical Chemistry, Bioscience Reports, Biosensors, Briefings in Bioinformatics, Briefings in Functional Genomics, Cellular Signalling, ChemBioChem, Chemical Biology & Drug Design, ChemistrySelect, Computational and Structural Biotechnology Journal, Computational and Theoretical Chemistry, Computational Biology and Chemistry, Computers in Biology and Medicine, Current Research in Structural Biology, Expert Review of Vaccines, FEBS Open Bio, Free Radical Research, Frontiers In Aging Neuroscience, Frontiers in Bioinformatics, Frontiers in Cell and Developmental Biology, Frontiers in Chemistry, Frontiers in Genetics, Frontiers in Immunology, Medicine. Frontiers Frontiers in in Pharmacology, International Immunopharmacology, International Journal of Biological Macromolecules, Journal Biomolecular Structure & Dynamics, Journal of Cellular Biochemistry, Journal of Chemical Information and Modeling, Journal Microbiology, Immunology and Infection, Journal of Molecular Modeling, Journal of Molecular Structure, Journal of Physical Chemistry, Journal of Proteins and Proteomics, Metabolic Brain Disease, Microbial Pathogenesis, Molecules, NAR Genomics and Bioinformatics, Nature Communications, New Journal of Chemistry, Parasitology Research, Pathogens and Disease, PLOS Neglected Tropical Diseases, PLOS ONE, Process Biochemistry, Protein Science, PROTEINS: Structure, Function, and Bioinformatics, Science Advances, Veterinary Parasitology.
 - 11. Project Grant Reviewer Israel Science Foundation, ICMR, CSIR-FIRST, DBT-BIG.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

Details of Faculties	Name		1	D Syiem	A K Singh	MB Syiem	L Kma	PK Ambasht	S Bhan	T Tripathi
	Date of Joining		2	18.12.96	20.2.97	10.4.02	10.4.02	10.4.02	17.1.07	2.4.09
	Field of specialisation		3	Enzymology, Med. Biochem. Natural Products	Environ -mental Microbi o-logy	Cyanoba cterialBi oChemist ry	Cancer Biology and Radiation Counter measures	Enzymolo gy & Enzyme Biotech- nology	Medical Bio - chemistr y	Biophysics, Molecular Biology Bioinfor- matics
(A)	UG		4	0	0	7	0	0	0	0
Teaching Experience (in Years)	PG, including PhD		5	26	26	21	21	21	16	14
	Basic Research		6	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Applied Research		7	15 y	Yes	Yes	Yes	Yes	-	No
	Action Research		8	-	No	No	-	No	-	No
	Project Submitted		9	1	1	No	1	0	-	2
	Ongoing Project	C	10	No	No	No	01	0	-	3
	Research Paper in UGC care list journals	Group I Group II	11	-	No 3	No -	02	0	-	11
	Books /Books	Books	13	No	No	No	1	0	_	2
(B) Research	chapters Published	Book Chapters	14	No	No	No		0	-	4
activities	Popular Articles (News Paper/ Magazines)	•	15	No	No	No	7	0	-	0
	Seminar /	National	16	1	No	No	2	0	-	0
	Conference/ Symposia organized	International	17	No	No	No		0	-	0
	Seminar /	National	18	No	No	No	2	0	-	3
	Conference/ Symposia attended	International	19	No	No	No	4	0	-	-
	Conference Proceedings		20	No	No	No	-	0	-	1
	Consultancy		21	No	No	No	-	0	-	-
	Applied		22	No	No	No	-	0	-	-
(C) Patent	Published		23	No	No	No	-	0	-	-
	Granted		24	No	No	No	-	0	-	-
(D) E-Content	MOOC/SWAYA M/ E-content developed		25	No	No	No	-	0	-	-
(E)	Teaching /Extension /outreach activities		26	Yes	BOS Chairma n Microbi ology	No	12	Yes	-	-
Any Other	Responsibilities other than teaching		27	Director DIC	Member NAAC Visiting team	Yes	Yes	Yes	-	Member Sci. Bodies, Committees
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	No	No	-	0	-	Ed. Int. J. Biol. Macromol.
	Collaborations	National	29	Yes	1	No	-	2	2	4
		International	30	-	No	No	-	0		2

DEPARTMENT OF BIOTECHNOLOGY AND BIOINFORMATICS

Head: Prof. S.R. Joshi **Telephone:** +91-364-272-2401/2402

E-mail:hodbthbic@nehu.ac.in/biotechnologynehu@gmail.com

Faculty Profile

Designation	Name and Qualification	Specialization
D. C	Prof. Kripamoy Aguan M.Sc. (IARI), Ph.D. (Univ.of Birmingham)	Genetics & Neurobiology
Professor	Prof. Santa Ram Joshi M.Sc. & Ph.D. (NEHU)	Microbiology
Associate	Dr. Atanu Bhattacharjee M.Sc.(NEHU), M.Sc. (Annamalai Univ.), Ph.D. (NEHU)	Bioinformatics
Professor	Dr. (Mrs.) Suktilang Majaw M.Sc.(Tezpur), Ph.D. (NEHU)	Biochemistry & Immunology
Assistant Professor	Dr. (Mrs.) Neha Chaurasia M.Sc.& Ph.D. (BHU)	Environmental Biotechnology

Thrust Areas of Research

1. Molecular Genetics 2. Microbiology

Brief Statement of Academic Activities

Department of Biotechnology The and Bioinformatics started in 2005. It offers Post Ph.D.) Graduate (M.Sc. and programmes. North-Eastern Region of India is the hotspot of biodiversity which rich in flora and The department envisions for development of bio-resources, its exploration, conservation, and sustainable utilization coupled with the need of trained manpower in Biotechnology and Bioinformatics network. Therefore, 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" by the Department of Biotechnology, Government of India, New Delhi. The Department has taken

pride assixbatches of M.Sc. students have successfully completed their M.Sc. degree and some of them have already joined in different IITs, IMTECH, AIIMS, IISc, and others 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 research and development in 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 tribal people of the region. The Department has been receiving adequate extramural-financial support from various Central Government agencies, which include Special Assistance program of UGC-DRS-I (SAP), phase I and II programs of DST-FIST, besides regular support from DBT for teaching and research programs. The additional extramural support in the form of projects come from DBT, ICAR, DST, UGC, CSIR, Ministry of Environment & Forest etc., which are received by faculty members.

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	7	EWS	S	PWD		TOT	TAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	1	7	1	2	-	-	-	-	-	-	-	-	2	9
Bihar	-	1	-	_	_	-	-	-	-	-	-	-	-	1
Delhi	1	-	-	_	_	-	-	-	-	-	-	-	1	_
Jharkhand	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Manipur	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Meghalaya	-	-	1	5	-	-	-	-	-	-	-	-	1	5
Tripura	-	-	-	-	1	1	-	-	-	-	-	-	1	1
Uttar Pradesh	2	1	-	_	_	1	-	-	-	-	-	-	2	2
West Bengal	3	1	-	_	_		-	-	-	-	-	-	3	1
Sub Total	8	11	2	7	1	2	-	-	-	-	-	-	11	20
Total	19		9		3		-		-		-		31	

> Enrolment of students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC	1	EWS	5	PWD		TOT	'AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	1		1	-	-	-	-	-	-	-	-	=	2
Mizoram	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nagaland	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sub Total	-	1		1	-	-	-	-	-	-	-	-	-	2
Total	1		1		-		-		-		-		2	

Degrees Awarded

> M. Sc.: 21, Ph.D.: 04

> Degrees Awarded to students from different States of India and Abroad (M. Sc.)

	Gen	1	ST		SC		OB	С	EW	S	PWI)	TOT	ΓAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	2	-	2	-	-	-	-	-	-	-	-	-	4
Jharkhand	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Kerala	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Meghalaya	-	4	1	7	-	-	-	-	-	-	-	-	1	11
West Bengal	1	2	-	-	-	-	-	-	-	-	-	-	1	2
Total	11		10		_		-		_		_		21	•

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Gen	1	ST		SC		OBO	\mathbb{C}	EW	S	PWI)	TO	ΓAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Bihar	-	-	-	-	-	-	1	-	-	-	-	-	1	-
Manipur	-	-	-	-	-	-		1	-	-	-	-	-	1
Meghalaya	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Total	-		2	•	-	•	2	•	-	•	-		4	•

Name of Student	Title of Thesis	Name of Supervisor & Joint Supervisor
Mr. Madan Kumar Mandal	Study of lipids and its modulation under different strees conditions in selected microalage from Meghalaya	Dr. N. Chaurasia
Mr. Augustine Lamin Ka-Ot	Studies on bioremediation of heavy metals by Bacillus spp. Isolated from rat- hole coal mines of Meghalaya	Prof. S.R. Joshi
Ms.Pooja Swargiary	Understanding the epigenetic diversity of human oral and esophageal cancers in North-East India	Prof. A. Chatterjee, Dr. A. Bhattacharjee (Jt. Supervisor)
Ms. Ng. Kunjarani Chanu	Characterization of pesticide tolerant strains of microalgae from East Khasi Hill, Meghalaya	Dr. N. Chaurasia

Placement of Students

Name of the Student(s)	Name of the Programme	Place of Work
Ms. Sohena Laskar	DBT BITP research trainee	Assam
Ms. Gargi	Research Scholar in the Department of Basic Sciences & Social Sciences,	Meghalaya
Ms. Rija Kalita	National Forensic Sciences University, C/O- Central Forensic	Assam

Research fellowship

CSIR- UGC- NET/ GATE	UGC-Non- NET	National Fellowship for ST student	ICPR Fellowship	Meritorious Maulana Azad Fellowship	Others
03	04	-	-	-	-

Courses Conducted

> Postgraduate – M.Sc. (Biotechnology)

Semester-I (NEP – 2020): Cell Biology & Genetics, Microbiology, Biomolecules, Fundamentals of Bioinformatics and Biostatistics. Semester-II (NEP-2020): Molecular Biology, Immunology, Microbial Technology, Advanced Bioinformatics, Research Methodology & Project Writing and Laboratory Skills in Biotechnology. Semester-III: Animal Cell Science & Technology, Genetic Engineering, and Plant Biotechnology.

Semester-IV: Bioprocess Engineering & Technology, Environmental Biotechnology, Molecular Genetics, and Applied Microbiology.

> Ph.D. Courses

Research Methodology (School Level), Publication Ethics (School Level), Biotechnology in Medicine, Agriculture and Microbiology (Department Level), Review of literature (Department Level).

Seminars/Conferences/Symposia/Extension Programmes etc.

1. Member of Organizing Committee of a National Seminar on "Emerging Trends in Biological Sciences: A North-East Perspective", Feb 28-Mar 1, 2023 Organised by Department of Biotechnology and Bioinformatics, North-Eastern Hill University (NEHU), Shillong, in Collaboration with Bio-Resources Development Centre (BRDC), Shillong & BioNEST

- Bioincubator facility, NEHU, Tura, Meghalaya Prof. K. Aguan
- 2. Convener of a National Seminar on "Emerging Trends in Biological Sciences: A North-East Perspective", Feb 28-Mar 1, 2023 Organised by Department of Biotechnology and Bioinformatics, North-Eastern Hill University (NEHU), Shillong, in Collaboration with Bio-Resources Development Centre (BRDC), Shillong & BioNEST Bioincubator facility, NEHU, Tura, Meghalaya Prof. S.R.Joshi
- 3. Organising committee member in two days National Seminar on "Emerging Trends in Biological Sciences: A North East India Perspective" on 28th Feb-1st Mar, 2023 Organised by Department of Biotechnology and Bioinformatics, North-Eastern Hill University (NEHU), Shillong, in Collaboration with Bio-Resources Development Centre (BRDC), Shillong & BioNEST Bioincubator facility, NEHU, Tura, Meghalaya Dr. N. Chaurasia
- 4. Organizing Secretary of National Seminar on "Emerging Trends in Biological Sciences: A North East India Perspective" on 28th Feb-1st Mar, 2023 Organised by Department of Biotechnology and Bioinformatics, North-Eastern Hill University (NEHU), Shillong, in Collaboration with Bio-Resources Development Centre (BRDC), Shillong & BioNEST Bioincubator facility, NEHU, Tura, Meghalaya. Dr. S. Majaw

Publications

> Research Papers (17)

- 1. Baruah, P., Ray, D., Konthoujam, I., Das, A., Chakrabarty, S., Aguan, K., Mitra, S. (2022). Therapeutic opportunities of surface-active ionic liquids: a case study on acetylcholinesterase, citrate synthase and HeLa cell lines. *New J. Chem.*, **46**: https://doi.org/10.1039/D2NJ04365C.
- 2. Haque, M., Konthoujam, I., Lyndem, S., Koley, S., Aguan, K., Singha Roy, A. (2023). Formation of ZnS quantum dots using green tea extract: applications to protein binding, bio-sensing, anti-bacterial and cell cytotoxicity studies. *J. Mater. Chem. B*, 11: https://doi.org/10.1039/D2TB02265F.
- 3. Bhatia, R., Singh, S., Maurya, R., Bhadada, S.K., Bishnoi, M., Chopra, K., Joshi, S.R., Kondepudi, K.K. (2022). *In vitro* characterization of lactic acid bacterial strains isolated from fermented foods with anti-inflammatory and dipeptidyl peptidase-IV inhibition potential. *Braz. J.*

- *Microbiol.*, https://doi.org/10.1007/s42770-022-00872-5
- 4. Chettri, U., Chakrabarty, T.K., Joshi, S.R. (2022). Pollution index assessment of surface water and sediment quality with reference to heavy metals in Teesta River in Eastern Himalayan range, India. *Environ. Nanotechnol. Monit. Manag.*, 18 (2022) 100742. https://doi.org/10.1016/j.enmm.2022.100742
- 5. Gurung, A.B., Bhutia J.T., Bhattacharjee A. (2022). High-throughput virtual screening of novel potent inhibitor(s) for Human Vanin-1 enzyme, *J Biomol. Struct. Dyn.*, 40:9, 4208-4223. https://doi.org/10.1080/07391102.2020. 1854857
- 6. Biswas, S., Paul, D., Bhattacharjee A. (2022). The Cellulolytic Bacteria Associated with Gut of Longhorn Beetle, *Prionomma bigibbosum* (Coleoptera: Cerambycidae): an Electron Microscopic Study (2022). *J. Trop. Life Sci.*. 12(3): (3):357-365.
- 7. Yadav, S. K., Ganguly, R., Bhattacharjee, A. (2022). Discovery of repurposed FDA approved therapeutic drugs against SARS Cov2 omicron variant. *J. Adv. Sci. Res.*, 13(08): 20-26.
- 8. Ganguly, R., Ngoruh, A., Ingty, P., Bhattacharjee, A. (2022). Designing of multi-epitope based vaccine against SARS COV-2, using reverse vaccinology approach. *Int. J. Pharmaceut. Sc. Drug Res.*, 14(4): 485-492. https://doi.org/10.25004/IJPSDR.2022.140415
- 9. Baruah, K., Konthoujam, I., Lyndem, S., Aguan, K., Singha Roy, A. (2023). Complexation of turmeric and curcumin mediated silver nanoparticles with human serum albumin: Further investigation into the protein-corona formation, antibacterial effects and cell cytotoxicity studies. *Spectrochim. Acta A Mol. Biomol. Spectrosc.*, 294: https://doi.org/10.1016/j.saa.2023.122540.
- 10. Rabha, M., Sheet, SK., Sen, B., Konthoujam, I., Aguan, K., Khatua, K. (2023). Ruthenium(II) Complex-based Highly Specific Luminescence Light-up Probe for Detecting HOCl via C(sp²)-H Chlorination. *Chemistry Select*, 8(8): https://doi.org/10.1002/slct.202204643.
- 11. Patra, SK., Rabha, M., Sen, Bhaskar., Aguan, K., Khatua, S. (2023). An aggregation induced emission active bis-heteroleptic ruthenium(II) complex for luminescence light-up detection of pyrophosphate ions. *Dalton Trans.*, 52: https://doi.org/10.1039/D2DT03469G.
- 12. Paul, S., Bhagobaty, R.K., Nihalani, M.C., Joshi, S.R. (2023). Screening of biohydrogen producing endophytic fungi from biodiesel plants. *CLEAN-Soil, Air, Water*, https://doi.org/0.1002/clen.202300150

- 13. Chettri, U., Nongkhlaw, M., Joshi, S.R. (2023). Molecular evidence for the occurrence of heavy metal and antibiotic resistance genes among predominant metal tolerant *Pseudomonas* sp. and *Serratia* sp. prevalent in Teesta River. *Curr. Microbiol.*, https://doi.org/10.1007/s00284-023-03334-9
- 14. Akoijam, N., Joshi, S.R. (2023). Bioprospecting acid- and arsenic-tolerant plant growth-promoting rhizobacteria for mitigation of arsenic toxicity in acidic agricultural soils. *Arch. Microbiol.*, https://doi.org/10.1007/s00203-023-03567-z.
- 15. Bhattacharjee, K., Barua, K.S., Chrungoo, N.K., Joshi, S.R. (2023). Characterization of biomineralizing and plant growth-promoting attributes of lithobiontic bacteria. *Curr. Microbiol.*, https://doi.org/10.1007/s00284-022-03176-x
- 16. Ganguly, R., Ngoruh, A., Ingty, P., Yadav, S. K., Bhattacharjee, A. (2023). Identification of an inhibitor for atherosclerotic enzyme NOX-1 to inhibit ROS production. *Future J. Pharmaceut. Sc.*, 9(1): 1-14.
- 17. Chanu N.K., Mandal M.K., Srivastava, A., Mishra, Y., Chaurasia, N. (2023). Proteomics Reveals Damaging Efect of Alpha-Cypermethrin Exposure in a Non-Target Freshwater microalga *Chlorella* sp. NC-MKM. *Curr. Microbiol.*, 80:144.

➤ Books/Book Chapters/Proceedings (04)

- 1. Joshi, S.R., Kalita, D. (2022). Bioderived and bioconjugated materials for remediation of heavy metals and dyes from waste water. In *Recent Trends and Innovations in Sustainable Treatment Technologies for Heavy Metals, Dyes and Other Xenobiotics*. B. Bhunia and M. Muthuraj (Eds). Bentham Science Publishers Pte Ltd. Singapore. ISBN: 978-981-5049-72-5
- 2. Velmurugan, D., Bhattacharjee, A., Gayathri. D., editors. (2022). *Therapeutic Protein Targets for Drug Discovery and Clinical Evaluation: Biocrystallography and Drug Design*. World Scientific Publishing, ISBN: 9789811254789.
- 3. Pachaiappan, R., Vasudevan, V., Bhattacharjee, A., Velmurugan, D. (2022). Identification of Potent Inhibitors from Some Medicinally Important Plants for the Treatment Against Various Types of Cancers. In *Therapeutic Protein Targets for Drug Discovery and Clinical Evaluation*. D. Velmurugan, A. Bhattacharjee, D. Gayathri (Eds.). World Scientific Publishing, ISBN: 978-981-125-479-6, Chapter 10, pp. 273-313.
- 4. Lamare D.W., Chaurasia N. (2022). Microalgae and Cyanobacteria: A Potential Source for Drug Discovery Using Genome Mining Approach. In Micro-algae: Next-generation Feedstock for Biorefineries Contemporary Technologies and Future Outlook. P.Verma (Ed). Springer. pp. 177-204.

Funds Received from Agencies including NEHU/UGC:

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	17.0
02	DBT- M.Sc. Teaching	19.41
03	DBT (Project & Seminar)	10.10
05	NEC	5.0
06	SCSTE	1.0
07	BRDC, Govt. of Meghalaya	1.0
08	SERB	3.0
09	BIONEST	1.0

Research Projects:

Title of Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name (Pl/ Co- Pl)	Multi/Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Utilization Of Citrus Microbiome in Rejuvenating Khasi Mandarin Plants Affected by Important Citrus Diseases (49.55)	Ongoing	Prof. S.R. Joshi	Multi- institutional	Department of Biotechnology, Govt of India	8.60315

Exploration of Native Legumes and Characterization Of Associated Nitrogen Fixing Microsymbionts in North-Eastern India for Development of Biofertilizers (59.75)	New	Prof. S.R. Joshi	Multi- institutional	Department of Biotechnology, 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)	On-going	Dr. A. Bhatt achar jee	Multi- institutional (Nov 2019 till Sept 2023)	Department of Biotechnology, Govt. of India	Nil
To study the inhibition of angippoietin like protein-4 (ANGPTL4) secretion, a potential target of atherosclerotic-cardiovascular disease by ursolic acid and its synthetic derivatives" (19.08)	New	Dr. S.Maj aw (PI) Prof. R.L. Nong khla w (Co- PI)	Single Institute	Indian Council of Medical Research	13.022

Academic Collaborations

> National

Prof. K. Aguan

Prof. K. Aguan collaborating with Dr. Atanu Singha Roy of NIT, Meghalaya

Prof. S.R.Joshi

Prof S.R. Joshi collaborating with the following coolaborators in research projects:

Sl.	Name of	Affiliation of Collaborators	Research projects		
No	Collaborators				
1	Prof. Madhumita	Assam Agricultural	Utilization of Citrus		
	Barooah	University, Jorhat, Assam	microbiome in rejuvenating		
			Khasi mandarin plants affected		
			by important citrus diseases		
2	Prof. Piyush	Assam University, Silchar	Exploration of native legumes		
	Pandey		and characterization of		
3	Prof. P.R. Gajurel	NERIST, Arunachal Pradesh	associated nitrogen fixing		
4	Prof. H.S. Gehlot	JN Vyas University, Jodhpur	microsymbionts in North-		
	and Dr Nisha Tak		Eastern India for development		
5	Dr Suchi Srivastava	CSIR-NBRI, Lucknow	of biofertilizers		

6	Dr. Indira Devi	ISBD, Imphal, Manipur
7	Dr. Panna Das	Tripura University, Tripura

Dr. A. Bhattacharjee

Sl.	Name of	Affiliation of	Research projects	
No	Collaborators	Collaborators		
1	Dr. B. Salundi	Mysore	Development of Drug-seeds that target TFF3 in	
		University,	mammary gastric, and hepatocellular Carcinoma	
		Mysore		
2	Dr.	Sri.Ramachandra	Comparison of herbal and synthetic compounds for	
	A.M.Punnoose	University,	enhancement of the proliferation and potency of	
		Chennai	Mesenchymal Stem Cells derived from adult	
			dental pulp and adipose tissues for diabetic	
			wounds using 3D scaffolds.	

Dr. S.Majaw

Sl. No	Name of Collaborators	Affiliation of Collaborators (within institute)	Research projects
1	Prof. R.L. Nongkhlaw	Department of Chemistry, NEHU, Shillong	To study the inhibition of angippoietin like protein-4 (ANGPTL4) secretion, a potential target of atherosclerotic-cardiovascular disease by Ursolic acid and its synthetic derivatives

Seminars/Conferences/Symposia/ExtensionProgrammes etc.

Attended Dr. S. Majaw

- 1. Attended and Invited to deliver a lecture on "Immunological connections in metabolic diseases" in the 48th Annual Conference of Indian Immunology Society, Infections, Vaccines & Immuno-Innovations for human health, organised by the Department of Molecular and Human Genetics, BHU, Varanasi on 8th-9th Jul 2022 1. (Virtual).
- 2. Chaired a technical session in the 48th Annual conference of Indian Immunology Society, Infections, Vaccines & Immuno-Innovations for human health on 8TH-9TH Jul 2022 (Virtual).
- 3. Attended a Live webinar on Shaping of anti-tumor immunity in the tumor microenvironment by Wolf H. Fridman organised by International Union of Immunological Societies on 25.07.2022.
- 4. Attended Workshop on Developing MOOCs held on 01.09.2022 Organised by Massive Open Online Courses (MOOCs) Centre, North-Eastern Hill University, Shillong.

5. Attended and Invited as a resource person on "Development of herbal anti-inflammatory cream and its scientific validation" on 15th Dec 2023 in the Workshop on Traditional Medicine under the aegis of the **International Conference on Biodiversity & Conservation** at St. Anthony's College, Shillong organised by Bio-Resources Development Centre in collaboration with Department of Zoology and Fisheries Sciences, St. Anthony's College, Shillong.

Dr. N. Chaurasia

Attended, an UGC Sponsored Refresher course in Zoology held at Academic Staff College, North-Eastern Hill University, Shillong, India.21st Nov-5th Dec 2022

Honours/Awards/Recognition/Membership/ Fellowship

Prof. S.R.Joshi

- 1. Nominated Member of Task Force under EMEQ (Empowerment and Equity Opportunities for Excellence in Science) of SERB, Department of Science and Technology, Govt of India
- 2. Nominated Member, Board of Post Graduate Studies in Botany, Nagaland University, Lumami,

- Nagaland
- 3. Nominated Member, Scientific Advisory Committee, National Agri-Food Biotechnology Institute (NABI), Mohali
- 4. Nominated Member, Scientific Advisory Committee, Centre for Innovative and Applied Bioprocessing (CIAB), Mohali
- 5. Nominated Member of Governing Body, National Agri-Food Biotechnology Institute (NABI), Mohali
- 6. Nominated Member of Governing Body, Centre for Innovative and Applied Bioprocessing, Mohali.
- 7. Nominated Member, NEIGRIHMS Scientific Advisory Committee (NSAC), NEIGRIHMS Shillong.
- 8. Nominated memebr of the Institutional Ethics Committee of Pasteur Institute under Department of Health Services, Govt of Meghalaya.
- 9. Nominated as External Expert Member, Academic and Administrative Audit Committee 2022, Dibrugarh University, Assam
- 10. Nominated Member of Screening Committee, SERB-POWER (Promoting Opportunities for Women in Exploratory Research) Grant, Govt of India
- 11. Nominated Member of Screening Committee, SERB-SURE (State University Research Excellence) Scheme, Govt of India
- 12. Nominated Member, School Board of Life Sciences, Pondicherry University, Puducherry.

Dr. A. Bhattacharjee

- 1. Member of 'International Society for Computational Biology'
- 2. Associate Member of 'Bioinformatics.org society'
- 3. Member of 'International Association of Engineers (IAENG)'

Dr. S. Majaw

- 1. Elected Executive Member of Indian Immunology Society, New Delhi
- 2. Member of Mentorship Committee, NEHU, Shillong
- 3. Department Swayam mentor, NEHU, Shillong

Dr. N.Chaurasia

Member of NEP Implementation committee, NEHU, Shillong

Other Activities

Prof. K. Aguan

1. Acted as invited reviewer of Journal of Ethnopharmaclogy

Prof. S.R. Joshi

1. Delivered a popular talk on "Mother Earth and Conservation of Bioresources" at Pearly Dew

- Higher Secondary School, Shillong on 6th May 2022.
- 2. Delivered an invited talk on "Research and Paper Writing" at the workshop on "Research and Publications" organised by IQAC Research Cell, Synod College, Shillong on 23rd May 2022.
- 3. Conducted a session on "Activity-based learning and assessment strategies" during 'Science Teachers Orientation Programme' at Ram Krishna Mission Higher Secondary School, Sohra on 2nd Jul 2022
- 4. Delivered a lecture on "Microbiological Research and Relevance of Microscopy and Spectroscopy" on 28th Jun 2022 during the programme on "Applications of Sophisticated Instruments in Chemistry, Biology and Material Sciences" under 'Synergistic Training Program Utilizing Scientific and Technological Infrastructure (STUTI)' jointly organised by Amity University and NEHU, Shillong.
- 5. Delivered a lecture on "Protecting the Environment: Lets Show our Concern" in the 'One Day Discussion Programme" on "Protecting the Environment: A lesson for Shillong from Mawlynnong" organised by women's College, Shillong on 30th Jul 2022.
- 6. Delivered an invited talk on "Orientation on Linkage of Quality Research for Societal Benefits" during "Orientation Program for Ph.D. Scholars" organised by IQAC Cell of University of Science & Technology Meghalaya, on 24th Sep 2022.
- 7. Delivered an invited talk on "Wild mushrooms and bioeconomy: Northeast India perspectives" during the two National Seminar on "Bioeconomy based entrepreneurship development with biotechnological interventions" organised by Institute of Bioresources and Sustainable Development-Imphal and The National Academy of Sciences, India (NASI) Prayagraj during 11-12 Oct 2022.
- 8. Delivered an invited talk on "Native microbes for improving Soil health and productivity" during a two-day brainstorming session organised during 29-30th Nov 2022 at The Royal Global University, Guwahati.
- 9. Delivered an invited talk on "Bioprospecting wild mushrooms of Northeast India from nutraceutical

- and toxicity perspectives" during International Conference on Biotechnology, Sustainable Bioresources and Bioeconomy (BSBB-2022) organised at Indian Institute of Technology, Guwahati, India during Dec 7-10, 2022.
- 10. Delivered a popular talk on "Global Science for Global Well-being" on 6th Mar 2023 during a programme organised by DBT-Star College Unit of Synod College, Shillong to commemorate National Science Day 2023
- 11. Participated as a Panelist in the Panel Discussion on "New Education Policy 2020 and Libraries" on 17th Mar 2020 during the Indian Association of Special Libraries and Information Centres National Seminar on" Library and Information Centres in Digital India: Present Scenario and Future Strategies" held during 16th-17th Mar 2023 at NEHU, Shillong.
- 12. Delivered an invited talk on "Changing ecosystem of a Himalayan River: A case of microbial dynamics and their bahaviour along altitudinal gradient of Teesta river in eastern Himalayan range" on 22nd Mar 2023 during the International Conference on "Mountain Ecosystems: Biodiversity and adaptations under climate change scenario" organised by Graphic Era University, Dehradun, Uttarakhand during 22-24 Mar 2023.
- 13. Participated as a Special Invitee under "G-20 Research and Innovation Initiative Gathering (RIIG)" side event on 'Circular Bio-Economy' on 24th & 25th Mar 2023 at Dibrugarh and Itanagar organised by Department of Biotechnology, Ministry of Science & Technology, Ministry of Earth Sciences, Govt of India.
- 14. Participated as a Panelist in the Panel Discussion on "Millets and its benefits: Why do we need to revive the crop" on 29th Mar 2020 during the Commissionerate of Food Safety, Govt of Meghalaya organised "First Millet Mela" at Shillong during 28th-29th Mar 2023.
- 15. Acted as invited 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, Proceedings of National Academy of Sciences India, FEMS Microbiology Letters etc.
- 16. Delivered a lecture at Academic Staff College-HRDC, North-Eastern Hill University, Shillong.
- a. "Relationship between Nature of Disciplines and Research" on 30th May 2022

- b. "Roles and Responsibilities of Faculty of Higher Education" on 6th Jun 2022
- c. "Pedagogical principles of Effective Teaching-Learning" on 7th Jun 2022
- d. "Relationship between Nature of Disciplines and Research" on 11th Jul 2022 in UGC-HRDC 10th Faculty Induction Programme
- e. "Understanding Learning" on 21st Jul 2022 in UGC-HRDC 10th Faculty Induction Programme
- f. "Pedogogical Principles of Teaching-Learning" on 21st Jul 2022 in UGC-HRDC 10th Faculty Induction Programme
- g. "Roles and Responsibilities of Faculty in Higher Education Institutions" "One day National Webinar on New Education Policy 2020" under the theme" Motivated, Energized and Capable faculty" on 20th Jul 2022.
- h. "Nanobioremediation of contaminated Waters" on 27th Jul 2022 in the 'Refresher Course in Life Sciences'
- "Biodiversity: How does it hold relevance to us" on 3rd Aug 2022 in the Refresher Course in " Biodiversity & Conservation"
- j. "Relationship between Nature of Disciplines and Research"
- k. "Short Term Course in research Methodology for Social Sciences and Humanities" 1st Sep 2022
- Antimicrobial resistance and gene transfer" on 2nd Nov 2022 during the Refresher course in Zoology" on the theme "Recent Advances in Zoology", from Nov 21 –Dec 05, 2022
- m. "Relationship between Nature of Disciplines and Research" in the UGC-HRDC "Short Term Course in Research Methodology for Basic Sciences"
- n. "Roles and Responsibilities of Faculty in Higher Education Institutions" on 7th Mar 2023 in the UGC-HRDC 12th Faculty Induction Programme.
- o. "Pedagogical Principles of teaching Learning" on 15th Mar 2023 in the UGC-HRDC 12th Faculty Induction Programme.

Dr. A. Bhattacharjee

- 1. Delivered a talk online as a resource person at "Refresher course in Chemistry" held on 3rd Nov 2022 on topic "Computational tools and techniques in molecular modeling" organised by Department of Chemistry, sponsored by HRDC, NEHU.
- 2. Delivered a talk online as a resource person at "Recent Advances in Zoology" on 30th Nov 2022 on topic "Tools and techniques in inhibitor design" organised by Department of Zoology, sponsored by HRDC, NEHU.
- Have been an invited resource person to judge scientific posters at "National seminar on Emerging Trends in Biological Sciences - A North East India Perspective" organised by Department

- of Biotechnology & Bioinformatics, NEHU, Shillong from 28th Feb till 1st Mar 2023.
- 4. Editorial Board member of national journal: Journal of Enzymology and Metabolism. Open-source publications.

Dr. S. Majaw

- Invited as a resource person on "Immunometabolism" in a Refresher course in Life Sciences for College and University Teachers organised by School of Life Sciences, NEHU, Shillong on 1st Aug 2022 in collaboration with UGC-HRDC, NEHU, Shillong held during 26th Jul-8th Aug 2023.
- 2. Invited as a resource person on "Linking Biodiversity to human health" in a Refresher course on Biodiversity and Conservation (Inter-Disciplinary) on 18th Aug 2022 organised by the Department of Botany, NEHU, Shillong in collaboration with UGC-HRDC NEHU, Shillong held during 3rd 18th Aug, 2022.
- 3. Invited as a resource person on "Basics of Flow cytometry and its application" & Flow cytometry" Protocol, Setup and Analysis" in the Hands on Training Workshop on "Advanced Biochemical Techniques and Applications" on 7th Sep 2022 organised under the STUTI initiative of DST, GOI by the Department of Biochemistry, NEHU, Shillong during 1st Sep-8th Sep, 2022.

- 4. Invited as a resource person on "Immunometabolism in health and disease" in a Refresher course on Refresher Course in Zoology on the theme "Recent Advances in Zoology" on 2nd Dec 2022 organised by the Department of Zoology, NEHU, Shillong in collaboration with UGC-HRDC NEHU, Shillong held during Nov 21-Dec 05, 2022.
- 5. Teacher-in-charge for the Study Tour of M.Sc. students to Bhubaneswar and Puri from 15th Jan to 23rd Jan, 2023.

Dr. N. Chaurasia

- 1. Delivered a lecture on 4th Aug, 23 in an online refresher course on a theme Biodiversity and Conservation (Inter-Disciplinary) from 3rd Aug till 18th Aug, 2022 organised by department of Botany in collaboration with the UGC HRDC, NEHU.
- 2. Delivered a Guest lecture on 28th Mar 2023 in workshop organised lecture in seven days NICRA training programme entitled "Climatic Stress Adaptation and Management in Hill agriculture under changing climate" from 22nd Mar to 29th Mar, 2023 at ICAR Research Complex for NEH Region, Umiam, Meghalaya.
- 3. Teacher-in-charge for the Study Tour of M.Sc. students to Bhubaneswar and Puri from 15th Jan to 23rd Jan, 2023.

SUMMARY SHEET FOR THE ACADEMIC YEAR $1^{\rm ST}$ APR 2022 TO $31^{\rm ST}$ MAR 2023

Details of Faculties	1	Name		Prof. K. Aguan	Prof. S.R. Joshi	Dr. A. Bhattacharje	Dr. S. Majaw	Dr. N. Chaurasia
lacuities	2	Date of Joining		02.03.2010	14.05.2003	21.12.2006	14.12.2005	19.02.2010
	3	Field of specialisation		Genetics & Neurobiolog y	Microbiolo gy	Bioinformat ic	Biochemistry & Immunology	Environment al Biotechnolo gy
(A)	4	UG		No	17 years	-	2.5 years	-
Teaching Experien ce (in Years)	5	PG, including PhD		13 years 4 months	17 Years	16 years	17.6 years	14 years
	6	Basic Research		Yes	Yes	Yes	Yes	Yes
	7	Applied Research		Yes	Yes	Yes	No	No
	8	Action Research		No	No	No	No	No
	9	Project Submitted		No	Yes	No	No	No
	10	Ongoing Project		No	2	02	01	No
	11	Research Paper	Group I	06	No	04	No	01
	12	in UGC care list journals	Group II	No	06	02	No	No
(D)	13	Books /Books	Books	No	No	No	No	No
(B) Research	14	chapters Published	Book Chapters	No	1	2	No	1
activities	15	Popular Articles		No	No	No	No	No
	16	Seminar /	National	1	01		01	
	17	Conference/ Symposia organised	International	No	No	No	No	No
	18	Seminar /	National	1	3	No	2	-
	19	Conference/	International	No	2	No	2	-
	20	Conference Proceedings		No	No	No	No	No
	21	Consultancy		No	No	No	No	No
	22	Applied		No	No	No	No	No
	23	Published		No	No	No	No	No
(C) Patent	24	Granted		No	No	No	No	No
(D) E- Content	25	MOOC/ SWAYAM/E- content		No	No	No	No	No
	26	Teaching /Extension /		No	06	No	Yes	No
(E)	27	Responsibilities other than teaching		No	Yes	Yes	Yes	Yes
Any Other	28	Awards/ Honours/ Recognition/ Membership/ Fellowship		No	12	02	03	01
	29	Collaborations	National	01	07	02	01	No
	30		International	No	No	No	No	No

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. M. S. Dkhar*, M.Sc. & Ph.D.	Microbial Ecology and
	(NEHU)	Microbiology
	Dr. S. K. Barik**, M.Sc.	Plant Ecology and
	(Behrampur) & Ph.D. (NEHU)	Biodiversity Conservation
	Dr. Uma Shankar, M.Sc. (Agra) &	Ecology, Biosystematics,
	Ph.D. (NEHU)	Biodiversity Conservation
	Dr. H. Kayang, M.Sc. & Ph.D.	Soil Microbiology
	(NEHU)	
	Dr. S. Kumaria, M.Sc. & Ph.D.	Plant Biotechnology
	(NEHU)	
Associate	Dr. M. C. Das, M.Sc. & Ph.D.	Plant Tissue Culture, Plant
Professor	(NEHU)	Cryopreservation

^{*} Retired in September 30, 2022; ** Returned from Lien on November 06, 2022

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 34.00 lakhs (Rupees thirty-four lakhs) only from different funding agencies (including non-plan grant from the UGC) during 2022–23. 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-four students were admitted to M.Sc. in Botany and ten students to M.Sc. in Plant Molecular Biology during the year. Thirty-three students were awarded the M.Sc. degree in Botany and nine students were awarded the M.Sc. degree in Plant Molecular Biology. Eight students were admitted to the Ph.D. programme. 3 students were awarded the Ph.D. degree during the year. The research scholars participated in workshops and training programmes at universities/institutions, and presented papers at national and international seminars/symposia in India. A total of 20 research papers were published in peer-reviewed scientific journals of national and international repute, book chapters and conference proceedings.

Prof. M. S. Dkhar superannuated during the year.

Students' Profile:

- Enrolment Capacity: (1) M.Sc. in Botany: 34; Ph.D.: Variabl
 - (2) M.Sc. in Plant Molecular Biology (PMB):10
- Enrolment of students from different States of India and Abroad

1. M.Sc. Botany

	Gen		ST		SC		OBC	7	EWS	5	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Pradesh														
Assam	-	2	-	-	-	-	-	-	-	1	-	-	-	3

Manipur	-	-	1	1	-	-	-	-	-	-	-	-	1	1
Meghalaya	1	-	10	13	-	-	-	-	-	-	-	-	11	13
Sikkim	-	-	-	-	-	-	-	-	1	-	-	-	1	-
Tripura	-	-	1	1	-	-	-	-	-	-	-	-	1	1
West Bengal	-	1	-	-	-	-	-	-	-	_	ı	-	•	1
Sub Total	1	3	12	16	-	-	-	-	1	1	-	-	14	20
Total	4		28		-		-		2		-		34	

2. M.Sc. PMB (Plant Molecular Biology)

	Gen	1	ST		SC		OBO	7	EWS	S	PWD)	TOT	CAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Manipur	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Meghalaya	-	-	3	3	-	-	-	-	-	-	-	-	3	3
Tripura	1	-	-	-	-	-	-	-	-	-	-	-	1	-
West Bengal	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Sub Total	3	-	3	3	-	-	-	-	-	-	-	-	6	3
Total	3		6	•	-	•	-	•	-	•	-		9	•

> Enrolment of students from different States of India and Abroad Ph.D.

	Ger	1	ST		SC		OBO	C	EW	S	PWD	ı	TOT	ΓAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	1	2	-	-	-	-	-	-	-	-	-	-	1	2
Haryana	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Meghalaya	1	-	-	2	-	-	-	-	-	-	-	-	1	2
Nagaland	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Sub Total	2	4	-	2	-	-	-	-	-	-	-	-	2	6
Total	6		2		-		-		-		-		8	

Degrees Awarded

> M.Sc. (Botany)

	Gen	1	ST		SC		OB	С	EW	S	PWI)	TO	ΓAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	5	-	-	-	-	-	-	-	-	-	-	-	5
Manipur	-	-	1	1	-	-	1	-	-	-	-	-	2	1
Meghalaya	1	1	4	19	-	-	-	-	-	-	-	-	5	20
Sub Total	1	6	5	20	-	-	1	-	-	-	-	-	7	26
Total	7		25		-		1		-		-		33	

M. Sc (Plant Molecular Biology)

	Gen		ST		SC		OBC	•	EWS	3	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	3	5	-	-	-	-	-	-	-	-	3	5
Mizoram	-	-	1	-	-	-	-	-	-	-	-	-	1	1
Sub Total	-	-	4	5	-	-	-	-	-	-	-	-	4	5
Total	-		9		-		-		-		-		9	

> Ph.D.

	Gen		ST		SC		ОВС		EWS		PWD		TOTA	AL
STATES	М	F	М	F	М	F	М	F	М	F	M	F	M	F
Arunachal Pradesh	-	-	-	-	-	1	-	-	-	-	-	-	-	1
Meghalaya	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Sub Total	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Total	-		-		-		-		-		-		3	

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Ms. Licha Jeri	"Floristic studies on angiosperms of Talle Valley Wildlife Sanctuary; Arunachal Pradesh with emphasis on their phytogeographic and evolutionary affinities"	Dr. Yogendra Kumar
Ms. Alarisa Khyllep	"Characterization of rhizosperic and endophytic bacteria in selected crops of <i>Jhum</i> fields of Mokokchung district of Nagaland"	Prof. M. S. Dkhar (Supervisor) Dr. D. Thakuria
Ms. Ibadahun Mary Nonghuloo	"NPK cycling in a humid subtropical sacred forest of Meghalaya and its contribution to adjacent agro-ecosystem"	Prof. S. K. Barik (Supervisor) Dr. K. Upadhaya (Joint Supervisor)

Placement of Students

Name of the	Organization	Place of Work
Student (s)	D CD) (1 1
Dr. Kuno Chuzho	Department of Botany, University of Science &	Meghalaya
	Technology	
Dr. Upasna Chettry	Department of Botany, Royal global University,	Guwahati
Dr. Carefulness	Department of Botany, Lady Keane College	Shillong
Macnelson Dirborne		
Dr Nazir Ahmed	Department of Botany, University of Science &	Meghalaya
Bhat	Technology	
Dr. Ibadahun Mary	Department of Botany, St Edmund's College	Shillong
Nonghuloo		
Dr. Yarielyn Saio	Department of Botany, Synod College	Shillong
Dr. Blessing Roy	Department of Botany, Kiang Nangbah	Jowai
Suchiang	Government College	
Ms. Riwakani	Department of Botany, Thomas Jones College	, Jowai
Lapasam		
Dr. Manna Chibra	Tura Government College	Meghalaya
N. Marak	-	
Dr. Puranjoy Mipun	Department of Botany, Bhattadev University,	Assam.
	Bajali	

Students selected for Higher Studies

Name of the Student	Name of the	Institution/Organization	Country
(s)	Programme		
Ms. Fullmerries	Ph.D	Botany Department, North-	India
Puwein	Programme	Eastern Hill University	
Ms. Geetika Kalita	Ph.D	Botany Department, North-	India
	Programme	Eastern Hill University	
Mr. Vicky Sarmah	Ph.D	Botany Department, North-	India
	Programme	Eastern Hill University	
Ms Hepsiba	Ph.D	Botany Department, North-	India
Nongrum Shullai	Programme	Eastern Hill University	

Mr. Shiromoni	Ph.D	Botany Department, North-	India
Sharma	Programme	Eastern Hill University	
Ms. Anamika Datta	Ph.D	Botany Department, North-	India
	Programme	Eastern Hill University	

Research Fellowship

CSIR- UGC- NET	UGC Non- Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	SERB- DST	Others
5	19	-	-	1	1	2

Fieldwork/Educational Tour of Students

Teacher-in-Charge: Prof. H. Kayang & Dr.

M.C. Das

Places/Institutions Visited: Botanical survey of India, Kolkata, Digha and Sundarban National Park and Tiger Forest reserve

Duration of Tour (Dates and number of days): 8 days, w.e.f. 5–12 January, 2023

Purpose of Tour: A study tour of M. Sc. 3rd Semester students of Botany and Plant Molecular Biology was conducted under the guidance of Prof. H. Kayang and Dr. M. C. Das and with support from Mr. Kumar Sohlang. The places visited were Kolkata, Digha and Sunderban National Park. The purpose of the tour was to study the biodiversity characterization across vegetation types of different geographical regions, and to acquaint the students with marine and mangrove ecosystems of India. To expose the students to modern techniques and recent advances in plant sciences in National Institutions.

Courses Conducted

> Postgraduate (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.

➤ 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

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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.

Courses Conducted: NEP -2020 Syllabi Effective from 2022 onward

> Postgraduate (M.Sc. in Botany)

Semester I: Microbiology, Mycology and Plant Pathology, Algae, Bryophytes and Pteridophytes, Gymnosperms and Plant Anatomy /MOOC-1, Reproductive Biology and Embryology/MOOC - 2, Plant Resources in Human Life.

Semester II: Angiospermic Taxonomy and Biosystematics, Plant Physiology, Cell Biology and Plant Biochemistry/*MOOC-3*, Bioprocess Development /*MOOC-4*, Research Methodologies and Proposal Writing in Plant Sciences, Methods in Plant Sciences.

Semester III: Genetics and Plant Breeding, Plant Ecology and Ecosystem Analysis, Plant Biotechnology, Biodiversity and Bioprospection/ *MOOC-5*, Climate Change and Plant Adaptations/ *MOOC-6*, Advanced Genetic Engineering for Plant Improvement/ MOOC-7

Semester-IV: Problem identification, review of literature, proposal writing and presentation, Dissertation: Experiments, data collection, analysis, interpretation and discussion, Dissertation presentation and *Viva-Voce*.

> M.Sc. in Plant Molecular Biology

Semester I: Microbiology, Fundamentals of Genetic Engineering, Biomolecules /MOOC-1, Biosafety and Intellectual Property Rights /MOOC-2, Plant Resources in Human Life.

Semester II: Molecular Basis of Differentiation, Plant Physiology, Cell Biology and Plant

Biochemistry/MOOC-3, Bioprocess
Development /MOOC-4, Research
Methodologies and Proposal Writing in Plant
Sciences, Methods in Plant Sciences.

Semester III: Genetics and Plant Breeding, Eukaryotic Genome Organization, Plant Biotechnology, Biodiversity and Bioprospection/MOOC - 5, Climatic change and Plant adaptation/MOOC - 6, Advanced genetic engineering for plant improvement MOOC - 7.

Semester-IV: Problem identification, review of literature, proposal writing and presentation, Dissertation: Experiments, data collection, analysis, interpretation and discussion, Dissertation presentation and *Viva-Voce*.

▶ PhD Courses (effective from 2022 onwards)

Research Methodology, Research and Publication Ethics, Plant Sciences, Review of literature

Seminars/Conferences/Workshops/Symposia/ Extension Programmes

- 1. One-day Workshop on 12th DST and ACS Publishing on 30th May, 2022 at Multi-Use Convention Hall, North-Eastern Hill University, Shillong, Prof H. Kayang (Convener) and Dr. M. C. Das (Organising Secretary).
- 2. One-day Lecture Series Cum Felicitation on 29th September, 2022 at Science Seminar Hall, North-Eastern Hill University, Shillong, Dr. M. C. Das (Convener) and Prof H. Kayang (Chairperson).
- 3. Refresher Course on *Biodiversity and Conservation* Interdisciplinary w. e. f 3rd 18th August 2022, supported by UGC-Human Resource Development Centre, NEHU, Shillong, Dr. M. C. Das (Course Coordinator)
- 4. National Seminar on "Forest Dependent Rural Livelihoods" during February 24-26, 2023 with partial support from the ICSSR-NERC, Shillong, North-Eastern Hill University, Arshuma Famous Books, Agra and Shillong, Prof Uma Shankar (Convener)

Publications

> Research Papers (19)

1. Balasara War and H. Kayang (2022). Antifungal activity of essential oil extracted

- from *Kaempferia galanga* L. rhizome against fungal phytopathogens._*Ind. J. Agricult. Res.*, **DOI:** 10.18805/IJARe.A-6012.
- 2. Nongsiang, Α and Das. M.C. (2022).Simultaneous detection odontoglossum of ringspot virus (ORSV) and Cymbidium mosaic virus (CymMV) infecting orchids in Meghalaya, India by Multiplex RT-PCR. South African J. 151; 774-780. https://doi.org/10.1016/j.sajb.2022.10.036.
- 3. Pathak Jyoti, Chettry Upasna, Chrungoo Nikhil K, Gurung Arun B (2022). RNA-Seq analysis reveals the role of MYB12, MYB111 and MBW complex repressors in regulation of flavonoid biosynthesis in stigmas of saffron (*Crocus sativus* L.) flowers. *Acta Physiolog. Planta.*, 44(4):42.
- 4. Rani, M. B. and Kayang, H. (2022). Plant growth promoting rhizospheric *Bacillus* Spp. isolated from Black Pepper (*Piper nigrum* L.). *Ind. J. Agricult. Res.*, DOI: 10.18805/IJARe.A-6052. (IF: 0.258)
- 5. Shabong, K and Kayang, H. (2022). First report of *Neodeightonia subglobosa* causing leaf rot disease of betel leaf (*Piper betle*) in India., *New Dis. Reports*, https://doi.org/10.1002/ndr2.12140; wileyonlinelibrary.com/journal/ndr2 page 1-3.
- 6. Sarma, S. S., Deori, C. and Uma Shankar (2022). Notes on the taxonomy and distribution of *Ficus prostrata* (Wall. ex Miq.) Buch. Ham. ex Miq. (Moraceae) A lesser-known species from Nagaland (India). *Pleione*, 16: 222-226.
- 7. Uma Shankar (2022). Formation-to-Fall: Natural history and the journey of a lesser-known genus of orchids, *Monomeria*. *Indian Journal of History of Science*,56: 204-216.
- 8. Uma Shankar (2022). Patterns in taxonomic diversity and geographical distribution of Hamamelidaceae in India. *J. Bot. Soc. Bengal*, 76(2): 1-14.
- 9. Akib A, Nongpiur Ramsong C, Chrungoo Nikhil K (2023). An efficient *Agrobacterium*-mediated transformation and regeneration protocol for aromatic black rice, *Oryza sativa* L.(cv. Chakhao Poireiton and Chakhao Amubi). *Plant Cell, Tiss. Organ Cult.*, (PCTOC),152(3):619-33.
- 10. Das, M. C, Nongsiang, A and Sanglyne, M.W. (2023). Detection methods and in vitro elimination techniques for orchid viruses. A Review. *South African J. Bot.*, 153, 227-235. https://doi.org/10.1016/j.sajb.2022.12.003.
- 11. Chungreiliu, A. K, Dkhar, M.S. chuzho, Chuzho, K and Kayang, H. (2023). *Fomitiporia gaoligonensis* B. K. cui and Hong Chen, sp.

- Nov: A new addition to Indian Mycoflora from Manipur. *Int. J. Curr. Microbiol. Appl. Sc.*, 12 (03): 60 -65: https://doi.org/10.205-46/ijcmas,2023.1203.008
- 12. Debnath, S., Kumaria S. (2023). Insights into the phytochemical accumulation, antioxidant potential and genetic stability in the *in vitro* regenerants of *Pholidota articulata* Lindl., an endangered orchid of medicinal importance. *South African J. Bot.*, 152: 313-320.
- 13. Diengdoh, R. V., Das M. C., Nongsiang A., Kumaria S. (2023). Efficient utilization of phytohormones for the in vitro proliferation of *Paphiopedilum villosum* Lindl. Stein a Lady's Slipper orchid. *South African J. Bot.*, 154: 387-393.
- 14. Kharshandi, F and Kayang, H (2023). Antagonistic potential of rhizobacterial isolates against fungal pathogens causing rhizome rot in turmeric. *Arch. Microbiol.*, 205:221: https://doi.org/10.1007/s00203-023-03565-1
- 15. Lytan, R. Odyuo, N. and Uma Shankar (2023). Extended distribution of *Peliosanthes macrophylla* var. *assamensis* N. Tanaka & D. Borah (Asparagaceae), from Wokha District of Nagaland in Northeast India. *Pleione*, 17: 100-103.
- 16. Misra A, Chaudhary, M. K, Singh S. P, Tripathi, D, Barik, S. K and Sharad Srivastava (2023). Docking experiments suggest that gloriosine has microtubule-targeting properties similar to colchicine. *Scient. Rep.*, 13(1):4854. DOI:10.1038/s 41598-023-31187-6
- 17. Shabong, K and Kayang, H. (2023). First report of *Diaporthe tulliensis* causing leaf spot of betel vine. *New Dis. Rep.*, Doi: https://doi.org/10.1002/ndr2.12174.
- 18. Singh, P. P. Behera, M. D. Rai, R. Shankar Uma, Upadhaya, K, Nonghuloo, I, M, Aabid Hussain Mir, Barua S, Mariya Naseem, Pankaj Kumar Srivastava, Tiwary, R, Gupta, A, Gupta, V, Sampurna Nand, Adhikari, D and Barik, S. $K_{*}(2023).$ Morpho-physiological and demographic responses of three threatened *Ilex* species to changing climate aligned with species distribution models in future climate scenarios. Environ. Monit. Assess., 195, Article number: 139.
- 19. Vishwakarma S. K., Singh N., Kumaria S. (2023). Genome-wide identification and analysis of the *PAL* genes from the orchids *Apostasia shenzhenica*, Dendrobium catenatum and *Phalaenopsis equestris*. J. Biomolecul. Struct. Dynam., 41(4): 1295-1308.

➤ Book Chapters (02)

- 1. Diengdoh, R.V, M. C. Das, A. Nongsiang and S. Kumaria (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). ISBN
- No. 978-981-19-0055-6. Springer, Chapter 14, pp 317-335.
- 2. Nag, S., Singh N., Kumaria S. (2022). Phytochemicals as antibacterial agents: Current status and future perspective. In: *Alternatives to Antibiotics*. T. Saha, M. Deb Adhikari and B.K. Tiwary (Eds.). Springer, Singapore, ISBN: 978-981-19-1853-7, Chapter 2, pp. 35-55.

> IPR Items (Consultancy)

Title of Consultancy Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of the Consulta nt	Multi/ Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Devopsys Consulting Private	New	Prof. S. K. Barik	Individual level	Indo-German Development Cooperation Project	Government of Tripura consultancy funding to NEHU
Limited, Noida (Rs 32.00 Lakhs)				(KfW), CREFLAT (Climate Resilience of Forest Ecosystems, Biodiversity and	through Devopsys Consulting Private Limited, Noida @ of 4 lakhs a year
				Adaptive Capacities of Forest Department Communities)	spread over 8 years

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	34.0
02	DST (Seminar/workshop)	5.60

(B) EMR Research Projects to individual faculty members:

Title of Project (Total outlay in Lakhs)	Current Status (New / on-going/ completed)	Name of Investigator (Pl/Co-Pl)	Multi/Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
DBT Multi- institutional Biofertilizer project	On-going	Prof. S. K. Barik (Coordinator)	Multi- Institute (2022-2025)	DBT	Nil
DBT Multi- institutional Forest Biotechnology Project	On-going	Prof. S. K. Barik (Coordinator)	Multi- Institute (2023-2026)	DBT	Nil

Seminars/Conferences/Workshops/Symposia/ Extension Programmes

Prof. S. K. Barik

 NASI Prayagraj: 92nd NASI Annual Conference 4-6 December, 2022 – Summary and way forward 2. NASI-BBAU-PHSS Foundation: Rural Science Congress 15-17 February, 2023 - Rural technologies on 16th February, 2023.

Prof. Uma Shankar

1. Delivered Plenary Talk on "Incredible Botanical Knowledge at Crossroads: Opportunities on the

- Horizon" in the 1st Botanical Congress, organized by the Botanical Society of Bengal in Collaboration with Department of Botany, University of Calcutta, held from March 23-25, 2023, at the University of Calcutta, Ballygunge Campus, Kolkata.
- 2. Delivered an Invited Talk on "Novelties in the flora of Northeast India linking east and west" in G20 Lecture Series on "Climate change and disaster risk reduction: making sustainability a way of life" on February 08, 2023 at the Department of Botany, Faculty of Science, Maharaja Sayajirao University of Baroda.
- 3. Chaired a Session in the International Seminar on "Advances in Entrepreneurial Botany: Entrepreneurship Opportunities from Plant Resources for Sustainable Development", held during October 27-29, 2022, organized by the Department of Botany, USTM and CSIR-NBRI, Lucknow.
- 4. Invited Talk on "Traditional Forest Management in Meghalaya" on August 08, 2022 in One-day National Webinar on "National Education Policy 2020: Promotion of Indian Knowledge Systems" organized by the UGC-HRDC Centre in collaboration with Centre for Distance Education, North-Eastern Hill University, Shillong.

- 5. Invited Talks on "Applications of Energy-Dispersive X-ray Spectroscopy (EDS) and Transmission Electron Microscopy (TEM)" and "Scanning Electron Microscopy and its Applications" DST-STUTI Programme on the theme "Application of Sophisticated Instruments in Chemistry, Biology and material Sciences", held during June 28-July 04,2022, organized by Department of Chemistry & SAIF, NEHU with Amity University, Noida.
- 6. Invited Talks on "Applications of Energy-Dispersive X-ray Spectroscopy (EDS) and Transmission Electron Microscopy (TEM)" and "Scanning Electron Microscopy and its Applications" on May 04, 2022 in DST-STUTI Programme on the theme "Instrumentation and Application of ICP-OES, GF-AAS and Electron Microscopy", held during April 28 May 04, 2022, organized by the Department of Chemistry & SAIF, NEHU in collaboration with NIT, Agartala.

Prof. Suman Kumaria

1. Delivered PTCA membership presentation entitled "Ex situ conservation of medicinal orchids of northeast India: A phyto-molecular approach" at the International Conference on Food and Nutritional Security held at NABI, Mohali, Punjab during January 6-9, 2023.

Academic Collaborations

Dr. M. C. Das (i) National

Name of Collaborator	Collaborating Institute	Academic activity
Dr. Yubraj Pokharel	Cancer Biology Laboratory, Faculty of Life Science and Biotechnology, South Asian University, South Asian University New Delhi- 110021, India	Joint supervisor for the topic "Phytochemical analysis and enhancement of secondary metabolites in the cultures of Ophiorrhiza meghalayensis Hareesh, A. Joe, M. Sabu & L. Wu

$Honours/Awards/Recognition/Membership/F\\ ellowship$

Prof. S. K. Barik

- 1. Member, BSI Research and Monitoring Adsvisory Committee, MoEF&CC
- 2. Member, DBT Technical Expert Committee on Microbial and Natural Sciences
- 3. Board Member, SERB, DST, Ministry of Science and Technology

- 4. Member, Scientific Advisory Committee, DBT-NIPGR
- 5. Member, Governing Body, DBT- NIPGR
- 6. Member, Scientific Advisory Committee, IBSD, Imphal
- 7. Member, DST Science and Heritage Committee
- 8. Expert Member, CAS Botany, BHU, Varanasi
- 9. Member, Environmental Science Board of Studies, BBAU, Lucknow
- 10. Member, School Board, BBAU, Lucknow
- 11. Member, Botany Board of Studies, BHU

- 12. Member, Botany Board of Studies, Mizoram University
- 13. Member, Meghalaya Biodiversity, Board
- 14. Member, Governing Body, Regional Science City, Guwahati
- 15. Expert Member, SVASTIK Advisory Committee, CSIR-NISCPR, New Delhi.
- 16. Chairman, Technical Advisory Committee for Development Technology and Utilization Women Programme for (TDUPW/A2K+),Department of Scientific and Industrial Research, Ministry of Science and Technology, Government of India.
- 17. Chairman, Advisory/Expert Committee for Biotechnology, UP State Council of Science and Technology, Government of UP.
- 18. Chairman, CSIR-Czek Academy of Sciences International Project Award Committee

Prof. H. Kayang

- 1. Member of Governing Body of Lyngngam Presbyterian College, West Khasi Hills, for a period of three years w. e. f. 6. 01. 2021.
- 2. Member of Board of Studies in Horticulture, Tura NEHU for a period of three-year w. e. f 06. 01. 2021 2024.
- 3. Member of Governing Body of Sankardev College, East Khasi Hills District, Shillong 793015 for a period of three-year w. e. f. 10 November August 2022.
- 4. Member of Board of under Graduate Studies (BUGS) in Botany, Nagaland University for a period of 3 years w. e. f. 22. 10. 2021.
- 5. Member of Board of Governors of the ICFAI University, December, 2021 2024.
- 6. 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. 21st February 2022.
- 7. Member of State Expert Appraisal Committee (SEAC), Meghalaya w.e.f. 2022 -2024.
- 8. Member of Internal Quality Assurance Committee (IQAC), St Anthony's College, Shillong for a period of three years w.e.f. 2022 -2025
- 9. Chairman of Anti-tobacco committee, NEHU for a period of two years w.e.f. 26th October, 2022.
- 10. Member of the Committee for Hostel Fee Revision of NEHU (2022).
- 11. Member of Anveshan: National Research Convention 2021 -2022, NEHU, Shillong

- 12. Member of the Programme Advisory Committee (PAC) on Organismal and Evolutionary Biology (OEB), Plant Science, SERB-DST for three years w.e.f. 02. 08. 2022.
- 13. Member of the Programme Advisory Committee under special Call on Biology of Plants under Extreme Environments w. e. f. 27. 05. 2022.

Prof. Suman Kumaria

- 1. Executive member, The Orchid Society of India (2016).
- 2. Councilor of the journal of The Orchid Society of India (TOSI) (2018, 2021)
- 3. NEHU representative to the Governing Body of Bormanik College, Shillong
- 4. (3 yrs. w.e.f. 22nd July, 2013 vide letter No. CDC/BO/97/Vol.IV/2005/-2395 dated 22nd July, 2013)
- 5. NEHU representative to the Governing Body of Women's College, Shillong
- 6. (3 yrs. w.e.f. 18th August, 2020 vide letter No. CDC/B.O/97/Vol.VI/2020/- 825 dated 19th August, 2020)
- 7. Elected as a member of Plant Tissue Culture Association (India) (6th January 2023)

Dr. M. C. Das

1. External member in the BOS for the Department of Botany, William Carey University, Shillong on 21st June 2022.

Other Activities/achievements

Prof. S. K. Barik

- 1. Vice-President, National Academy of Sciences India
- 2. President, SK Jain Institute of Ethnobotany, Jiwaji University, Gwalior
- 3. President, International Society for Environmental Botanists
- 4. President, PHSS Foundation for Science and Society, Lucknow
- 5. Executive Member, International Society for Tropical Ecology
- 6. Editorial responsibility as Associate Editor, Tropical Ecology (Springer)
- 7. G 20/S 20 Pondicherry 30-31 January, 2023: Special Indian Invitee spoke on Science for Universal health.

Prof. Uma Shankar

1. Delivered an Invited Talk on "Biodiversity in Our Lives" on October 13, 2022 in Refresher Course

- on "Bioscience and Biotechnology", held during October 08-21, 2022, organized by the UGC-HRDC Centre, JNVU, Jodhpur in collaboration with the Department of Botany, CCS Meerut University, Meerut, UP.
- 2. Invited Talk on "Peoples' role in Biodiversity Conservation in Northeast India" on August 09, 2022 in Refresher Course on "Biodiversity and Conservation", held during August 03-18,2022, organized by the UGC-HRDC Centre in collaboration with the Department of Botany, North-Eastern Hill University, Shillong.
- 3. Invited Talk on "Biodiversity in Our Lives" on August 06, 2022 in Refresher Course on "Biodiversity and Conservation", held during August 03-18, 2022, organized by the UGC-HRDC Centre in collaboration with the Department of Botany, North-Eastern Hill University, Shillong.
- 4. Invited Talk on "Relevance of Herbarium in Digital World" in "Science Academies' Refresher Course on Plant taxonomy, Ecology and Biodiversity Conservation" on April 08, 2022, held during April 03-18, 2022, organized by the Department of Botany, Panjab University, Chandigarh.

Prof. H. Kayang

- 1. Invited as a resource person at 10th Faculty Induction Programme for college and University teachers on 23rd June 2022 and 6th July, 2022 on a topic College Structure and role of College Development Council.
- 2. Invited as a resource person for the 'Refresher Course on Biodiversity and Conservation (Inter-Disciplinary)'organized by UGC-HRDC, NEHU and Department of Botany, NEHU, Shillong during 3rd-18th August, 2022 and delivered an on-line lecture on the topic *Biopesticides in integrated Plant disease management*" on 12th August, 2022.
- 3. Invited as a resource person for the 'Refresher Course in Life Sciences' organized by UGC-Human Resource Development Centre, NEHU, Shillong during 26th July 8th August, 2022 and delivered an on-line lecture on "Biopesticides" on 6thAugust, 2022.
- 4. Chaired the technical session in the International Seminar on "Advances in Entrepreneurial Botany: Entrepreneurship Opportunities from Plant Resources for Sustainable Development" Organized by Department of Botany, USTM in Collaboration with CSIR-National Botanical

- Research Institute Lucknow held on 27-29th October 2022.
- 5. Reviewer for the International Journals: Applied Soil Ecology, Archive of Agronomy and soil Science, Journal of Environmental Engineering and Landscape Management, Agriculture Research, Applied Biochemistry and Biotechnology, Geomicrobiology Journal, Indian Journal of Medical Microbiology, Proceeding of the National Academy of Sciences India, Biological Sciences (NASB).

Prof. Suman Kumaria

- 1. Chaired a Technical Session at an International Seminar on "Advances in Entrepreneurial Botany: Entrepreneurship Opportunities from Plant Resources for Sustainable Development" organized by the Department of Botany, University of Science and Technology Meghalaya, Ri-Bhoi District in collaboration with CSIR-NBRI, Lucknow during October 27th-29th, 2022.
- 2. Invited as a resource person for the 'Refresher Course on Biodiversity and Conservation (Inter-Disciplinary)' organized by UGC-HRDC, NEHU and Department of Botany, NEHU, Shillong during 3rd 18th August, 2022 and delivered an on-line lecture on the topic "Ex situ conservation and sustainable utilization of rare, endangered and threatened plants using biotechnological approaches" on 10th August, 2022.
- 3. Invited as a resource person for the 'Refresher Course in Life Sciences' organized by UGC-Human Resource Development Centre, NEHU, Shillong during 26th July 8th August, 2022 and delivered an on-line lecture on "Prospects of plant conservation biotechnology in India with special reference to the northeastern region" on 2nd August, 2022.
- 4. Attended the International Symposium on "Advances in Plant Biotechnology and Nutritional Security" and 43rd Annual meeting of Plant Tissue Culture Association (India) organized by ICAR-National Institute for Plant Biotechnology, New Delhi, India during 28-30 April, 2022.
- 5. Reviewer for the International Journals The Journal of Horticultural Science & Biotechnology, BMC Plant Biology, Journal of Separation Science, Natural Product Research, Acta Physiologia Plantarum, Gene, Current Journal of Applied Science and Technology,

Proceedings of the National Academy of Sciences, India Section B (NASB), Frontiers in Plant sciences, Industrial Crops and Products, Meta Gene, Scientia Horticulturae, South African Journal of Botany, Computational and Structural Biotechnology Journal, Plant Physiology and Biochemistry.

Dr. M. C. Das

- 1. Delivered a lecture as Invited speaker at Refresher Course on 13th August, 2022 on the topic: "Frozen beauty: Cryobiotechnology for germplasm management and long-term storage with special reference to orchid diversity of North East India" organized by the Department of Botany supported by UGC-Human Resource Development Centre, NEHU, Shillong.
- 2. Delivered a talk for the Orientation Programme of 2022-23 students Batch (PG and UG) on Orientation program on Quality teaching approach on the topic "*Plant Tissue culture and applications*" on 22nd September, 2022 Organised by USTM Meghalaya.

- 3. Chaired the session for one-day lecture series cum felicitation for Technical seesion 2 Speaker Dr. A.P. Das tittle "Origin, Diversity and Threats for the green Kingdom" on 29th September, 2022 organized by the Department of Botany and Botanic Club.
- 4. Co-Chaired the technical session in the "Advances International Seminar on in Botany: Entrepreneurship Entrepreneurial Opportunities from Plant Resources for Development" by Sustainable Organized Department of Botany, USTM in Collaboration with CSIR-National Botanical Research Institute Lucknow held on 27-29th October 2022.
- 5. Delivered a lecture as an invited speaker on the title "Plant Resource Utilization and its Conservation" in the workshop on Basic Techniques in Plant Tissue Culture for ensuring Commercially Viable Quality products" organized by Department of Botany, University of Science and Technology, Meghalaya on 24th Jan, 2023.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

(A) UTeaching PExperience (in Years) BEXPERIENCE (in Years) COMPANDE (In Years) BEXPERIENCE (In Years) BEXPERIENCE (In Years) COMPANDE (In Years) COMPAND	Field of specialisation UG PG, including PhD Basic Research Applied Research Action Research Project Submitted Ongoing Project Research Paper in UGC care list journals Books /Books chapters Published Popular Articles (News Paper/ Magazines) Seminar / Conference/ Symposia	Group I Group II Books Book Chapters	2 3 4 5 8 9 10 11 12 13 14	Plant ecology and diversity N/A 26 Yes Yes Yes 1 2 Nil 1	Botany N/A 22 Yes Yes N/A Nil Nil yes yes Nil Nil	Kayang 26. 03. 1997 Microbial Ecology and Microbiology N/A 26 Yes Yes Yes Nil Nil Nil Nil Nil Nil Nil Ni	27. 03. 1997 Plant Biotechnology N/A 26 Yes Yes Yes Nil Nil Yes 3	29. 03. 2007 Plant Tissue Culture N/A 22 Yes Yes N/A 1 Yes 3 Nil
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Experience (in Years) B A A R A R P P S C C P Research in A activities B C C S C S C C S C C C C C C C C C C	PhD Basic Research Applied Research Action Research Project Submitted Ongoing Project Research Paper in UGC care list journals Books /Books chapters Published Popular Articles (News Paper/ Magazines) Seminar / Conference/ Symposia	Group II Books Book Chapters	6 7 8 9 10 11 12 13 14	Yes Yes Yes 1 2 2 Nil 1	Yes Yes N/A Nil Nil yes yes	Yes Yes Yes Nil Nil Yes 6	Yes Yes Yes Nil Nil Yes 3	Yes Yes N/A 2 1 Yes 3
(C) Patent (D) M	Applied Research Action Research Project Submitted Ongoing Project Research Paper in UGC care list journals Books /Books chapters Published Popular Articles (News Paper/ Magazines) Seminar / Conference/ Symposia	Group II Books Book Chapters	7 8 9 10 11 12 13 14	Yes Yes 1 2 2 Nil 1	Yes N/A Nil Nil yes yes Nil	Yes Yes Nil Nil Yes 6 Nil	Yes Yes Nil Nil Yes 3 Nil	Yes N/A 2 1 Yes 3
(C) Patent (D) M	Research Action Research Project Submitted Ongoing Project Research Paper in UGC care list journals Books /Books chapters Published Popular Articles (News Paper/ Magazines) Seminar / Conference/ Symposia	Group II Books Book Chapters	8 9 10 11 12 13 14	Yes 1 2 2 Nil 1	N/A Nil Nil yes yes Nil	Yes Nil Nil Yes 6 Nil	Yes Nil Nil Yes 3 Nil	N/A 2 1 Yes 3
(C) Patent (D) (B) RR (Research Project Submitted Ongoing Project Research Paper in UGC care list journals Books /Books chapters Published Popular Articles (News Paper/ Magazines) Seminar / Conference/ Symposia	Group II Books Book Chapters	9 10 11 12 13 14	1 2 2 Nil 1	Nil Nil yes yes Nil	Nil Nil Yes 6 Nil	Nil Nil Yes 3 Nil	2 1 Yes 3
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(B) Research activities li B C C P P P P P P P P P P P P P P P P P	Ongoing Project Research Paper in UGC care list journals Books /Books chapters Published Popular Articles (News Paper/ Magazines) Seminar / Conference/ Symposia	Group II Books Book Chapters	11 12 13 14	2 Nil	yes yes Nil	Yes 6 Nil	Yes 3 Nil	Yes 3
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Research activities in li	in UGC care list journals Books /Books chapters Published Popular Articles (News Paper/ Magazines) Seminar / Conference/ Symposia	Group II Books Book Chapters	12 13 14	Nil 1	yes Nil	6 Nil	3 Nil	3
B C C P P C C P Patent G C D M	Books /Books chapters Published Popular Articles (News Paper/ Magazines) Seminar / Conference/ Symposia	Book Chapters	14	1				NET
C P P C C P C C P C C	chapters Published Popular Articles (News Paper/ Magazines) Seminar / Conference/ Symposia	Book Chapters	14	1				i INII
P A A P M S C C S S at C C P C C P C C C C P C C C C C C C C	Popular Articles (News Paper/ Magazines) Seminar / Conference/ Symposia		15	1		Nil	2	1
S C S S C C S S C C	Seminar / Conference/ Symposia	National			Yes	Nil	Nil	Nil
C S S C C S S at C C P C C P P Atent G G C D M	Conference/ Symposia	National						
S O O O	Symposia		16	Nil	Nil	Yes	Nil	Yes
S C S at C P C C P Patent G G C C D M C C C C C C C C C	organized	International	17	Nil	Nil	Nil	Nil	Nil
(C) Patent (D) M	Seminar /	National	18	3	yes	Yes	yes	2
(C) Patent (D) M	Conference/ Symposia attended	International	19	Nil	Nil	Yes	3	1
(C) Patent (D) M	Conference Proceedings		20	Nil	Nil	Nil	Nil	Nil
(C) Patent G (D) M	Consultancy		21	Nil	Nil	Nil	Nil	Nil
Patent G (D) M	Applied		22	Nil	Nil	Nil	Nil	Nil
(D) M	Published		23	Nil	Nil	Nil	Nil	Nil
	Granted		24	Nil	Nil	Nil	Nil	Nil
	MOOC/SWAY AM/ E-content developed		25	Nil	Nil	Nil	Nil	Nil
T /I /c	Teaching /Extension /outreach		26	yes	yes	yes	yes	yes
	activities		27	-		1	+	+
Any Other s	Responsibilitie s other than teaching		27	yes	yes	yes	yes	yes
A H R N			28	yes	yes	yes	yes	yes
C	Awards/ Honours/ Recognition/ Membership/ Fellowship			1	yes	yes	Nil	yes
	Honours/ Recognition/	National	29	yes	y Co	Nil	Nil	Nil

DEPARTMENT OF ZOOLOGY

Head: Prof. B. Roy

Telephone: 0364-2722301

E-mail: hodzoo@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
Professor	Dr. S. B. Prasad, M.Sc. & Ph.D. (BHU)	Cell and Tumour 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)	Endocrinology
	Dr. B. Keshan, M.Sc. & Ph.D. (Calcutta Univ.)	Insect Physiology
	Dr. S. R. Hajong, M.Sc. & Ph.D. (NEHU)	Insect Biodiversity and 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

Trust area of research

The Department of Zoology is engaged in research under the trust area "Faunal Diversity and Ecophysiology" for the last 20 years. Accordingly, different faculty members are carrying out research in various disciplines of modern, applied, and classical Zoology under this thrust area.

Brief statement of academic activities and achievements

As a multidisciplinary teaching approach, the Department of Zoology adopted the NEP 2020 M.Sc. syllabus and introduced the new teaching curriculum in 2022. Every year this department

admits 36 students for the M.Sc. course and about 10-15 students for the Ph.D. course. Faculty members are running multiple major research projects funded by different Govt. funding agencies. In recognition of the quality research that have been carried out by various faculty members, a total of 27 research papers were published in peer-reviewed international and national journals along with a book chapter, and 15 students were awarded the Ph.D. degree in this academic year. The department has also conducted one Refresher Course in Zoology this financial year. The department has just completed the DRS-III program under the UGS-DSA scheme in the year 2023. The department has also completed the FIST II program of DST successfully.

Students' Profile

- > Enrolment Capacity: M.Sc. 36 Ph.D. Variable
- > Enrolment of students from different States of India and Abroad: M.Sc.

	Gen		ST		SC		OBC	7	EWS	S	PWD		TOT	ΊΑL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	-	-	-	2	-	-	-	-	-	-	-	-	_	2
Assam	-	1	-	2	-	1	-	-	1	1	-	-	1	5
Bihar	-	1	-	-	-	-	-	-	-	-	-	-	_	1
Manipur	-	1	-	-	-	1	-	-	-	-	-	-	_	2
Meghalaya	-	1	6	14	-	-	-	-	-	-	-	-	6	15
Mizoram	•	-	1	-	-	-	-	-	-	-	-	-	1	-
Nagaland	•	-	-	-	-	-	-	-	-	1	-	-	_	1
Tripura	•	-	1	-	-	-	-	-	-	-	-	-	1	-
West Bengal	-	1	-	-	_	-	-	-	-	-	-	-	_	1
Sub Total	-	5	8	18	-	2	-	-	1	2	-	-	9	27
Total	5		26		2		-		3		-	•	36	

> Enrolment of students from different States of India and Abroad: Ph.D.

	Gen]	ST		SC		OBO	C	EW	S	PWI)	TO	ΓAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	2	-	1	-	-	-	-	-	-	-	-	-	3
Manipur	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Meghalaya	-	-	1	1	-	-	-	-	-	-	-	-	1	1
Tripura	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Sub Total	1	2	2	2	-	-	-	-	-	-	-	-	3	4
Total	3		4	•	-		-		-		-		7	

Degrees Awarded

> Degree: M.Sc.: 36, Ph.D.: 15

Degrees Awarded to students from different States of India and Abroad: M.Sc.

	Ger	1	ST		SC		OB	С	EW	S	PWD)	TO	ΓAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Assam	-	2	-	-	-	-	_	-	-	-	-	-	-	2
Manipur	-	-	2	3	-	-	-	_	-	-	-	-	2	3
Meghalaya	-	-	8	19	-	-	-	_	-	-	-	-	8	19
Mizoram	-	-	1	-	-	-	-	_	-	-	-	-	1	_
Sub Total	-	2	11	23	-	-	-	-	-	-	-	-	11	25
Total	2	-	34	•	-	•	_	•	-	•	-		36	

> Degrees Awarded to students from different States of India and Abroad: Ph.D.

	Gen		ST		SC		OB	C	EW	S	PW	D	TOT	ΓAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	1	-	-	1	-	2	-	-	-	-	-	3	1
Manipur	-	1	-	-	1	-	-	-	-	-	-	-	1	1
Meghalaya	-	-	5	3	-	-	-	-	-	-	-	-	5	3
Uttar Pradesh	-	-	-	-	1	-	-	-	-	-	-	-	1	
Sub Total	-	2	5	3	3	-	2	-	-	-	-	-	10	5
Total	2		8		3		2		-		-		15	

Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Dr. Rajesh Prasad	Studies on the modulatory effects of rutin on the eisplatin-mediated antitumor activity and toxicity in mice bearing ascites Dalton's lymphoma.	Prof. S.B. Prasad
Dr. Mattilang Kharkongor	Effects of chlorpyrifos, a pesticide, on development and morphology of anuran tadpoles.	Prof. R.N. K. Hooroo
Dr. Ranju Chetri	Physiological and metabolic changes in response to photoperiods in the migratory red-headed bunting, <i>Emberiza bruniceps</i> Brandt.	Prof. A.S. Dixit
Dr. Diwakar Kshetriya	Studies on the effects of heavy metals on metallothionein gene expression in <i>Chironomus</i> spp.	Prof. S. Ghosh
Dr. Ebormi S. Langshiang	Studies on the habitat of nest building arboreal ants and their defense strategies against selected entomopathogens.	Prof. S.R. Hajong
Dr. Ravi Rao Bharti	Studies on toxic effects of some traditionally used medicinal plants in Swiss albino mice.	Prof. B. Roy
Dr. P. Wankitlang Shangpliang	Studies on breeding biology and development of some anurans in water bodies at low and high altitudes of low and high altitudes of Meghalaya	Prof. R.N.K. Hooroo
Dr. Errini Decruse Dhar	Studies on anthelmintic efficacy and potential toxicity of selected coumarin derivatives.	Prof. A. K. Yadav (Supervisor) Prof. G. Bez (Joint Supervisor)
Dr. Debashish Khanikar	Effects of climatic factors on breeding biology of spotted munia, <i>Lonchura punctulata L</i> .	Prof. A.S. Dixit
Dr. Pynnehlang Warjri	In vitro studies on effects of putative neurotransmitters on expression of arvtalkvlarnine N- acetyltransferase 2 gene in photoreceptive pineal organ of the catfish, <i>Clarias gariepinus</i> (Burchell)	Prof. B.B.P. Gupta
Dr. Frederick Arnold Lamare	Assessment of DNA methylation biomarkers for stomach cancer in patients from Mizoram.	Prof. S. Ghosh
Dr. Hijam Nonibala	In vitro studies on the role of cAMP, cGMP and Ca2+ on expression of arylalkylamine N-acetyltransferase 2 gene in the photoreceptive pineal organ of the catfish, <i>Clarias gariepinus</i> (Burchell)	Prof. B.B.P. Gupta
Dr. Armanki Shylla	Evaluation of toxicity of selected traditionally used medicinal plants of Meghalaya in Swiss albino mice.	Prof. B. Roy
Dr. Bankerdonbor Kharbisnop	Studies on diversity and distribution of parasitic wasps of selected families of Chalcidoidea in Meghalaya.	Prof. S. R. Hajong
Dr. Khirod Sankar Das	Studies on diversity and distribution of termite fauna in different land uses types of Meghalaya.	Dr. S. Choudhury

Research Fellowship

CSIR-	UGC	Rajiv	Meritorious	Maulana Azad	DBT
UGC-	Non-	Gandhi	Fellowship	National	Project
NET	Net	National	_	Fellowship	_
		Fellowship		-	
		(SC/ST)			
8	26	6	-	1	1

Courses Conducted:

Postgraduate (M.Sc. in Zoology)

Semester I: Cell Biology and Immunology, Developmental Biology, Animal Physiology/ MOOCs 1, Parasitology /MOOCs 2, Animal Diversity

Semester II: Genetics, Biological Chemistry and Molecular Biology, Ecology and Environmental Biology /MOOCs 3, Parasites and Human Diseases

Semester III: MOOCS, Research Methodology & Proposal Writing, Economic Zoology, Endocrinology and Reproductive Biology, Aquatic Biology and Fisheries.

Semester IV: Biosystematics and Evolution; Ecology and Environmental Biology; Special Paper (Biochemical Adaptation and Metabolic Regulation; Endocrinology and Reproductive Physiology; Genetics; Helminth Parasitology; Insect Physiology; Molecular Cell Biology and Immunology).

> PhD Courses

Research Methodology; Optional Papers (Applied Entomology; Chronobiology; Molecular and Biochemical Zoology; Tropical Parasitology); Review of Literature.

Seminars/Conferences/Workshops/Symposia/ Extension Programmes

- 1. "National level Training Program on Advanced Analytical and Imaging Techniques" from 1st 7th November 2022, Department of Zoology, North-Eastern Hill University, Shillong. Prof. B. Roy was the Convenor while Prof. S.R. Hajong and Prof. S. Ghosh were the Organising Secretary(s).
- 2. "Refresher Course in Zoology" from 21st 6. November 5th December 2022 held at UGC-HRDC, NEHU, Shillong-793022. Dr. B. Das was the Course Coordinator.

Publications

> Research Papers (18)

- 1. Chutia, P., Saha, N., Das, M. and Goswami, L. M. (2022). Differential expression of aquaporin genes and the influence of environmental hypertonicity on their expression in juveniles of air-breathing stinging catfish (*Heteropneustes fossilis*). *Comp. Biochem. Physiol.*, Part A, 274: 111314. https://doi.org/10.1016/j.cbpa.2022.111314.
- 2. Chutia, P., Das, M. and Saha, N. (2023). Transcriptome analysis of gills reveals novel insights into the molecular response of stinging catfish (*Heteropneustes fossilis*) to environmental hypertonicity. *Gene*, 851: 147044, https://doi.org/10.1016/j.gene.2022. 147044.
- 3. Kumari, A., Koner, D., Lanong, A.S., Khongmawloh, E., Snaitang, R., and Saha, N. (2023). Changes in the expression of certain osmosensitive channel and transporter genes in primary hepatocytes of air-breathing catfish, *Clarias magur*: A strategy to adapt under osmotic stress. *Aquaculture*, 562: 738756, https://doi.org/10.1016/j.aquaculture. 2022.738756.
- 4. Koner, D., Nag, N., Kalita, P., Padhi, A.K., Tripathi, T., Saha, N. (2023). Functional expression, localization, and biochemical characterization of thioredoxin glutathione reductase from air-breathing magur catfish, *Clarias magur. Internat. J. Biol. Macromol.*, 230:123126,

https://doi.org/10.1016/j.ijbiomac.2022. 123126.

- 5. Nagi, K., Roy, B., Yadav, A.K. (2023) In vitro cestocidal activity of Persicaria hydropiper (L.) Delarbre, a traditionally used anthelmintic plant in India. *J. Parasit. Dis.*, 47(1):198-202.
- 6. Dev, D., Sarkar, A., Roy, B. (2023). Evaluation of *In Vivo* Wound Healing Potential of *Schima wallichii* (Korth.) Choisy. *Ind. J. Pharma. Sc.*, 85(1): 10.36468/pharmaceutical-sciences.1082

- 7. Dev, D., Sarkar, A., Roy, B. (2022). *Acanthus leucostachyus* leaf extracts promote excision wound healing in mice. *Asian Pacific J. Trop. Biomed.*, 12(11): 475. https://www.apjtb.org/text.asp?2022/12/11/475/3 60563
- 8. Sarkar, A., Roy, B. (2022). Biochemical and Ultrastructural Studies for Toxicity of Kaempferol Derivative Recovered from the Plant *Lysimachia ramosa*. *Defence Life Sc. J.*, 7(3): 147-155.
- 9. Dixit, A. S., Borah, S. and Singh, A. K. (2023). Season-dependent effect of water temperatures on Circadian expression of Kisspeptin and Gonadotropin-releasing hormone genes in *Clarias magur. J. Exp. Zool. India*, 26: 87-100.
- 10. Dixit, A. S., Singh, A. K. and Borah, S. (2023). Circadian and seasonal expression of *fshβ* and *lhβ* in response to different water temperatures in Asian catfish, *Clarias magur. J. Exp. Zool. India*, 26: 41-52.
- 11. Singh, N. S., Dixit, A. S. and Khanikar, D. (2022). Adaptive strategy in control of ectoparasitic infection in Eurasian tree sparrow. *J. Basic Appl. Zool.*, 83:53. (ISSN:2090-990X).
- 12. Lamare F.A., Khongsti S., Marthong L., Ghosh S., Chenkual S., Dkhar H., Maitra A., Ghosh S. (2022). Genome-wide DNA methylation profiling of stomach cancer in the ethnic population of Mizoram, North East India. *Genomics*, 114 (2022) 110478.
- 13. Rani, R.M., Syngkli, S., Nongkhlaw, J. and Das, B. (2023). Expression and characterisation of human glycerol kinase: the role of solubilising agents and molecular chaperones. *Biosc. Rep.*, 43 BSR20222258. https://doi.org/10.1042/BSR20222258.

- 14. Das, K. S., Kharthangmaw, J. M. K., Nonglait, K. C. L., Marwein, C. B. and Choudhury, S. (2023). First record of the termite species Nasutitermes profuscipennis Akhtar (Blattodea: Isoptera) from India. *Int J. Trop. Insect Sc.*, https://doi.org/10.1007/s42690-023-01021-7.
- 15. Das, K.S. and Choudhury, S. (2023). A new termite species of the genus *Bulbitermes* (Blattodea: Isoptera: Termitidae) from Meghalaya, India. *J. Threat. Taxa*, 15(3): 22850–22858.
- 16. Das, K.S. and Choudhury, S. (2023). First record of *Ahmaditermes emersoni* Maiti (Isoptera, Termitidae, Nasutitermitinae) from Meghalaya, India. *Entomon*, 48(1): 135-140.
- 17. Nonglait, K. C. L., Das, K. S., Marwein, C. B., Kharthangmaw, J. M., & Choudhury, S. (2023). Scanning electron microscopy study of the antennal sensilla of cob borer, Stenachroia elongella (Lepidoptera: Pyralidae). *Micros. Res. Techniq.*, 1–9.
- 18. Marwein, C. B., Das, K. S., Lyngdoh Nonglait, K. C., Kharthangmaw, J. M., & Choudhury, S. (2022). Scanning electron microscopic studies of the antennal sensilla of *Aplosonyx chalybaeus* (Hope) (Coleoptera: Chrysomelidae). *Micros. Res. Techniq*, 1–10.

Book Chapters (01)

1. Dev, D., Malakar, K., Roy, B. (2023). A brief review on medicinal plants used by the Rural population in Assam to treat various digestive system related problems. *Advanced Review and Research in Pharmaceutical Science*. Vol.4. p. 95-109. ISBN: 978-93-5570-653-9

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	17 akhs

(B) EMR Research Projects to individual faculty members

Title of Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of Investigator (Pl/Co-Pl)	Multi/Sin gle Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
To Elucidate the Roles of	New	Prof. N. Saha	Single	Science and	INR 60.50 L
HIF and mTOR Signaling		(PI)	Institute	Engineering	
Pathways, and the			(2022-	Research Board	
Autophagy in Adaptation			2025)	(SERB), New	
to Hypoxia Stress in Air-				Delhi	

Breathing Stinging Catfish, Heteropneustes fossilis.					
Purification and characterization of glycerol kinase and glycerol-3-phosphate dehydrogenase (cytosolic and mitochondrial) from Homo sapiens for their critical role in type 2 diabetes (INR 85.1 L)	Ongoing	Dr. B Das (PI)/ Dr. D. Biswal (Co-PI)	Single (2020-2025)	DBT, GoI, New Delhi	INR 15.48 L

Academic Collaborations

(i). National Prof. N. Saha

- 1. Dr. S. Saikia, Department of Zoology, Visva-Bharati University, Santiniketan, WB for the project "To Elucidate the Unique Biochemical Adaptational Strategies that Allow two Airbreathing Catfishes (*Clarias batrachus* and *Heteropneustes fossilis*) to Survive in Ammonia Enriched Toxic Waste."
- 2. 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."
- 3. 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

1. Prof. G. Bez, Department of Chemistry, NEHU, Shillong, acted as Joint-Supervisor of Ms. Errini D. Dhar. Studies on anthelmintic efficacy and potential toxicity of selected coumarin derivatives (Thesis awarded). (ii) Prof. R. L Nongkhlaw, Department of Chemistry, NEHU, Shillong, acting as Joint-Supervisor of Mr. Bhusan Chetri, Synthesis of some quinazoline derivative and evaluation of their anthelmintic efficacy in rodents.

Prof. S. Ghosh

- 1. Dr. Arindam Maitra, National Insitute of Biomedical Genomics (NIBMG), Kalyani, W. Bengal.
- 2. Dr. Avdesh Rai, B. Baruah Cancer Institute, Guwahati, Assam

Dr. B. Das

- 1. Prof. K. Satyamoorthy, Director, MLSC, Manipal University, Manipal,
- 2. Prof. S. Mishra, Scientist-E, ILS, Bhubaneswar, Odisha.

(ii) International Prof. A.K. Yadav

1. Prof. Andreas Schmidt-Rhaesa, CeNAK, University of Hamburg, Germany on Biodiversity of Indian Nematomorphs (2002-continuing at present).

Dr. B. Das

1. Dr Todd Holyoak, Professor, Department of Biology, University of Waterloo, 200 University Avenue West Waterloo, ON N2L 3G1, Canada.

Honours/Awards/Recognition/Membership/F ellowship

Prof. S.B. Prasad

1. Members of the Editorial Boards of "Journal of Bioresources"

Prof. A.K. Yadav

- 1. Editorial Board Member, BMC Complementary Medicine & Therapies, Springer, Nature
- 2. Academic Editor, PloS ONE.
- 3. Editor, Journal of Parasitic Diseases (Springer). **Prof. A.S. Dixit**

- 1. 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.
- 2. Vice-President of Society of Avian Biologists in India from 1st April, 2019-31st March, 2024.
- 3. Executive Committee Member of the Indian Society for Chronobiology.
- 4. Member, International Ornithological Society.
- 5. Member, International Society for Chronobiology.

Prof. B. Keshan

- 1. Life Member- Indian Science Congress Association, Kolkata.
- 2. Life Member The Zoological Society, Kolkata

Prof. S.R. Hajong

- 1. Member of BOS, Department of Zoology, RGU, Arunachal Pradesh.
- Member of BOS, Department of Zoology, Kohima Science College, Nagaland Dr. B. Das
- 1. Member (57681M) of American Society for Biochemistry and Molecular Biology, U.S.A.
- 2. Life membership (L/124/2015) of Society for Mitochondrial Research and Medicine, India
- 3. Life membership (LM 699 of 2005) of Indian Society for Parasitology, India

Seminars/Conferences/Workshops/ Symposia/Extension Programmes

Prof. N. Saha

1. Attended the International Conference on "Metallomics, Biodiversity and Human health: recent Advances and Synthesis" on 3th – 4th March, 2023 at Manipur University, Imphal, chaired a session and delivered an invited lecture entitled "Metal oxide nanoparticles as pollutants, their toxic effects, and the possible biochemical adaptational mechanisms in Indian air-breathing catfishes".

Prof. A.S. Dixit

- 1. Attended and delivered an invited talk in the "National Symposium Avian Biology" from 9th 11th November, 2022 at CUSB, Gaya.
- 2. Attended and delivered a lecture as a Resource Person in the Refresher Course in Life Sciences on 2nd August, 2022 organized by Department of Biochemistry, NEHU, Shillong.

Dr. B. Das

1. Attended and presented a paper on "Phosphoenolpyruvate carboxykinase as a drug target in management of helminth parasites" from 21st August – 26th August, 2022 at the "15th International Congress of Parasitology (ICOPA 2022)" held at Copenhagen, Denmark.

Other Activities/achievements

Prof. S.B. Prasad

1. 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.

Prof. N. Saha

- 1. Chairman, Board of Studies in Medical Sciences and Nursing
- 2. Chairman, Board of Studies in Fishery Science
- 3. Chairman, Health Centre, NEHU, Shillong
- 4. Member of the SERB PAC committee of the Organismal and Evolutionary Biology
- 5. (Animal Sciences), New Delhi
- 6. Member of the SERB-SIRE Committee, New Delhi
- 7. Editors/Reviewers of the following international journals: Comparative Biochemistry and Physiology, Journal of Experimental Biology, Fish Physiology and Biochemistry, Fish and Shellfish Immunology, Science of the Total Environment, Gene, Ecotoxicology and Environmental Safety, Science of the Total Environment, Aquatic Toxicology

Prof. A.K. Yadav

1. Reviewer for Journal of Parasitic Diseases (Springer), Journal of Ethopharmacology (Elsevier), Zootaxa, Proceedings of Indian National Academy (Section B).

Prof. A.S. Dixit

- Peer reviewer: Various National and International Journals viz. J. Exp. Biol., Ind. J. Exp. Biol., Chronobiol. Int., Photochem. &Photobiol. Sci., Comp. Biochem. Physiol., Experimental Brain Research etc.
- 2. Peer reviewer of research proposals: SERB, Department of Science and Technology, New Delhi.
- 3. Examiner: Undergraduate, Post-graduate, Ph. D. and competitive examinations of own and other Indian Universities.
- 4. Selection committee member: Appointed as selection committee member for the recruitment

- and promotion of Faculty in some Indian Universities.
- 5. Editorial Board member of "The NEHU Journal".

Prof. S.R. Hajong

- 1. Reviewed for 'International Journal of Tropical Insect Science' Springer
- 2. Reviewed for 'Proceedings of the National Academy of Sciences'. India Section-B:Biological Sciences. Springer-Nature.
- 3. Reviewed for 'Indian Journal of Traditional Knowledge' CSIR-NISCPR
- 4. Reviewed for 'Bulletin of Pure and Applied Sciences-A-Zoology
- 5. Revieved for 'Journal of Bioresources', UGC-CARE List Journal, RGU publications.
- 6. Delivered lecture in 'Refresher course in Zoology' Dec 2022, organised by Department of Zoology, NEHU at HRDC NEHU
- 7. Delivered Lecture in 'Refresher course in Botany' 2022, organised by Department of Botany NEHU at HRDC, NEHU, Shillong.

Prof. S. Ghosh

- 1. Refresher Course resource person conducted by Dept of Zoology, NEHU, Shillong during Nov 21 to Dec 05, 2022.
- 2. Refresher course resource person conducted by Dept. of Zoology, Calcutta University, Kolkata on 12th December 2022.

Dr. B. Das

- 1. Acted as a member of the inspection team for visiting of Thomas Jones Synod College, Jowai, Meghalaya, on May 13, 2022, for grant of provisional affiliation to B.Sc. (Hons) in Zoology.
- 2. Delivered a lecture on "Conception, Formulation & Submission of Proposals for Research Funds" in "Short Term Course in Research Methodology for Basic Sciences" held during 14/02/2023 to 20/02/2023 at UGC-HRDC, NEHU, Shillong-793022, on 18th February 2023
- 3. Delivered a lecture on "Over expression and purification of recombinant mitochondrial glycerol-3 phosphate dehydrogenase, an enzyme involved in glucose homeostasis in human" in "National Level Training Programme" on "Advanced Analytical and Imaging Techniques" held during 01/11/2022 to 07/11/2022 at Department of Zoology, NEHU, Shillong-793022, on 03rd and 04th Nov 2022
- 4. Served as external reviewer for few reputed international journals (Diabetes, Obesity and Metabolism, Bioscience Reports, Phytomedicine, CBP Part C, Parasitology Research, Journal of Parasitic Diseases, etc.)

SUMMARY SHEET FOR THE ACADEMIC YEAR $1^{\rm ST}$ APRIL 2022 TO $31^{\rm ST}$ MARCH 2023

Details of Faculties	Name		1	Prof. S. B. Prasad	Prof. N. Saha	Prof. A. K. Yadav	Prof. B. Roy
	Date of Joining		2	13.06.1983	06.05.1988	19.08.1993	23.12.1996
	Field of		3	Cell and	Biochemical	Parasitology	Parasitology
	specialisation			Tumour	Adaptaion		and
	1			Biology	and		Toxicology
				83	Metabolic		83
					Regulation		
(A)	UG		4	2 years	No	Nil	8 years
Teaching	PG, including PhD		5	38 years	35 years	30 Years	18 years
Experience	,				J J J J J J J J J J J J J J J J J J J		
(in Years)							
,	Basic Research		6	Yes	Yes	yes	Yes
	Applied Research		7		No	Yes	Yes
	Action Research		8		No	Yes	1 05
	Project Submitted		9	Nil	No	Nil	
	Ongoing Project		10	Nil	Yes	Nil	
	Research Paper in	Group I	11	1 111	Yes	3	2
	UGC care list	Group II	12		1 CS	0	4
	journals	•					4
(D)	Books /Books	Books	13		No	Nil	
(B)	chapters Published	Book	14		No	Nil	1
Research		Chapters					
activities	Popular Articles		15		No	Nil	
	(News Paper/						
	Magazines)						
	Seminar /	National	16		No	Nil	
	Conference/	International	17		No	Nil	
	Symposia organized						
	Seminar /	National	18		Yes	Nil	
	Conference/	International	19		No		
	Symposia attended						
	Conference		20		No	Nil	
	Proceedings						
	Consultancy		21		No	Nil	
	Applied		22		No	Nil	
(C)	Published		23		No	Nil	
Patent	Granted		24		No	Nil	
(D)	MOOC/SWAYAM/		25		No	Yes	
E-Content	E-content developed		23		110	108	
L-Content	Teaching /Extension		26		No	Yes	
	/outreach activities		20		INO	1 es	
	Responsibilities		27	Yes	Yes	Yes	HOD
	other than teaching						
(E)	Awards/ Honours/		28		No	Yes	
Any Other	Recognition/						
	Membership/						
	Fellowship						
	Collaborations	National	29		Yes	Yes	
		International	30		No	Yes	NO

Details of Faculties	Name		1	Prof. A.S. Dixit	Prof. B. Keshan	Prof. S.R. Hajong
	Date of Joining		2	06.08.1990	19.04.2007	19.12.2002
	Field of specialisation		3	Endocrinology	Insect Physiology	Entomology
(A)	UG		4	No	0	
Teaching Experience (in Years)	PG, including PhD		5	32 years	15 years	21 years
	Basic Research		6	yes	Yes	Yes
	Applied Research		7	yes	Yes	No
	Action Research		8	yes	No	No
	Project Submitted		9	No	No	1 DBT project submitted for extension
	Ongoing Project		10	No	No	No
(-)	Research Paper in UGC	Group I	11	5	No	No
(B)	care list journals	Group II	12	No	No	No
Research	Books /Books chapters	Books	13	No	No	
activities	Published	Book Chapters	14	No	No	
	Popular Articles (News Paper/ Magazines)		15	No	No	
	Seminar / Conference/ Symposia organized	National	16	No	No	1 as Organizing Secretary
		International	17	No	No	•
	Seminar / Conference/	National	18	2	No	
	Symposia attended	International	19	No	No	
	Conference Proceedings		20	No	No	
	Consultancy		21	No	No	
(C) Patent	Applied		22	No	No	
1 atent	Published		23	No	No	
	Granted		24	No	No	
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	No	No	
	Teaching /Extension /outreach activities		26	No	Yes	1
(E)	Responsibilities other than teaching		27	Yes	Yes	Co-ordinator UG-DSA SAP
Any Other	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	Yes	Yes	
	Collaborations	National	29	8	No	
		International	30	2	No	

Details of Faculties	Name		1	Prof. S. Ghosh	Dr. B. Das	Dr. S. Choudhury
	Date of Joining		2	14.07.2009	06.04.2009	20.12.2002
	Field of specialisation		3	Genetics	Cell Physiology and Biochemistry	Entomology
(A)	UG		4	nil		-
Teaching Experience (in Years)	PG, including PhD		5	14 years	16 years	19 years
,	Basic Research		6	Yes	Yes	Yes
	Applied Research		7	Yes	Yes	-
	Action Research		8	No	-	-
	Project Submitted		9	No	3	-
	Ongoing Project		10	No	1	-
	Research Paper in	Group I	11	1		-
	UGC care list journals	Group II	12		1	6
	Books /Books	Books	13	No		-
(B) Research activities	chapters Published	Book Chapters	14	No		-
	Popular Articles (News Paper/ Magazines)		15	No		-
	Seminar /	National	16	No	1	-
	Conference/ Symposia organized	International	17	No		-
	Seminar /	National	18	No		-
	Conference/ Symposia attended	International	19	No	1	-
	Conference Proceedings		20	No		-
	Consultancy		21	No		-
	Applied		22	No		-
(C)	Published		23	No		-
Patent	Granted		24	No		-
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	No	yes	-
	Teaching /Extension /outreach activities		26	No	Yes	-
	Responsibilities other than teaching		27	No	Yes	-
(E) Any Other	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	Yes	-
	Collaborations	National	29	2	Yes	-
		International	30	No	Yes	-

VI. SCHOOL OF PHYSICAL SCIENCES

Dean:

Prof. K. M. Rao (till 02.02.2023);

Prof. A. K. Chandra (since 03.02.2023)

E-mail: deansps@nehu.ac.in

Telephone: +91-364-272 2503

DEPARTMENTS UNDER THE SCHOOL

Department of Chemistry
Department of Physics
Department of Mathematics
Department of Statistics

1. Vision and Mission of the School

Vision: The School of Physical Sciences at North-Eastern Hill University aspires to be a world-class center for natural sciences that provides exceptional and equitable education and establishes itself as a hub for integrative, transformative, and translational research and sustainable development in the field of physical and mathematical sciences.

Mission: Through innovative, multidisciplinary approaches, we advance the frontiers of science and educate the next generation of physical scientists and mathematicians of the future while embracing diversity, equity, inclusion, and justice.

2. Future Plans

- (i) Advancement of faculty research efforts in frontier areas and impart new courses in the department's graduate curricula;
- (ii) Enhancement of the level of 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);
- (iii) Greater collaboration with industry and create opportunities for technology transfer from the faculty and staff to the industry for the benefit of people of the state, region, and nation;
- (iv) Encourage interdisciplinary research endeavours that draw on and add to the applied research base within The University of North-Eastern Hill University and create start-ups opportunity.

3. Salient Data of the School [2022-2023]

Number of Students awarded Ph.D. Degree	18
Number of Research Publications	64
Number of Books, Book Chapters, and Proceedings	01
Number of Research Projects (Fund Received)	
Completed	NIL
On-going (4)	1.80 Lakhs
New (2)	30.39 Lakhs
Number of Consultancy Projects (Fund Received)	
National	NIL
International	NIL

Number of Students Placed	09
Number of Students Selected for Higher Studies	10
Total Number of Patents	
Filed	NIL
Published	NIL
Granted	NIL
Policy Documents: Status (Name of the Agency) and Nur	nber
(i) Applied	NIL
(ii) Approved	NIL

DEPARTMENT OF CHEMISTRY

Head: Prof. T. S. Basu Baul **Telephone:** +91-364-272 2601 **E-mail:** hodche@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization			
	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			
Professor	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. (North 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			
Associate Professor	Dr. D. P. S. Negi, M. Sc. (Univ. Roorkee), Ph.D. (IIT, Roorkee)	Physical Chemistry			
	Dr. B. Sarkar, M. Sc. (North Bengal Univ.); Ph. D. (IIT, Guwahati)	Physical Chemistry			
	Dr. A. K. Pal, M. Sc. (Calcutta Univ.), Ph. D. (Kalyani Univ.)	Organic Chemistry			
Assistant	Dr. E. K. Rymmai, M.Sc. & Ph. D. (NEHU)	Inorganic Chemistry			
Professor	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 (3rd and 4th semester) and NEP-2020 (1st and 2nd semester) 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.

Students' Profile

- > Enrolment Capacity: M. Sc.: 45, Ph.D.: Variable
- > Enrolment of students from different States of India and Abroad (M. Sc.)

	Ger	1	ST		SC		OB	С	EW	S	PWI)	TO	ΓAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	1	-	-	1	-	-	-	-	1	4	-	-	2	5
Manipur	2	-	-	1	-	-	-	-	-	-	-	-	2	1
Meghalaya	-	-	13	19	-	-	-	-	-	-	-	-	13	19
Nagaland	1	-	-	1	-	-	-	-	-	-	-	-	1	1
Tripura	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Total	4	•	36		-		-		5		-	•	45	•

> Enrolment of students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC	7	EWS	5	PWD)	TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	2	-	-	-	_	-	-	-	-	-	-	-	2
Meghalaya	-	-	1	2	-	-	-	-	-	-	-	-	1	2
Sub Total	-	2	1	2	-	-	-	-	-	-	-	-	1	2
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	2		3		-		-		-		-		5	

Degrees Awarded

> M. Sc.: 45, Ph.D.: 10

> Degrees Awarded to students from different States of India and Abroad (M. Sc.)

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Ger	1	ST		SC		OB	С	EW	S	PWI)	TO	ΓAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	2	1	-	-	-	-	-	-	2	2	-	-	4	3
Kerala	-	-	-	-	-	-	-	-	-	1	-	-	-	1
Manipur	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Meghalaya	2	2	12	20	-	-	-	-	-	-	-	-	14	22
Total	7		33	•	_	•	-	•	5	•	-	•	45	•

	Gen		ST		SC		OBC	7)	EW	S	PWD)	TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	1	2	-	-	-	-	-	-	-	-	-	-	1	2
Manipur	-	-	-	-	-	-	-	1	-	-	-	-	-	1
Meghalaya	-	-	3	3	-	-	-	-	-	-	-	-	3	3
Total	3		6		-		1		-		-		10	

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Jt Supervisor
Mr. Rajkumar Imocha Singh	Development of Functionalized Nanoparticles and their Applications in	Prof. S. Mitra
	Exploring Bio-Molecular Milieu	
Ms. Prayasee Baruah	Spectroscopic Studies on the Modulatory Effect of Nano-Biointerfaces on some Selected Neurodegenerative and Mitochondrial Enzyme Activities	Prof. S. Mitra
Mr. Balamphrang Kharrngi	Study on Synthesis and Pharmacological Properties of O- and N- Heterocycles	Prof. G. Bez

Mr. Arup Dutta	Studies on Synthesis and Biological Activity of some five-and six Membered	Prof. R. L. Nongkhlaw
	Heterocycles	
Mr. Fitzeral	Binuclear and Polynuclear Complexes of	Prof. R. H. Duncan Lyngdoh
Hujon	Manganese, Iron and Cobalt:	
	Computational Studies on Structure and	
	Stability	
Mr. Manosh	Synthesis of Heteroleptic Ruthenium (II)	Dr. S. Khatua
Rabha	and Iridium (III) Polypyridine Complexes	
	for Sensing and Biological Applications	
Ms. Sumitra	Quantum Mechanical Studies on Nature,	Prof. A. K. Chandra
Bhattarai	Strength, and Tenability of Different	
	Non-Covalent Interactions	
Ms. Ibakyntiew	Studies on the Synthetic Utility of	Prof. R. L. Nongkhlaw
D. Marpna	Selenium and its Compounds:	
	Development of New Synthetic	
	Methodologies in Organic Synthesis	
Ms. Carley	Synthesis, Characterization and	Prof. K. M. Rao
Giffert L.	Biological Activity of Arene Platinum	
Nongpiur	Group Metal Complexes Containing	
	Nitrogen, Oxygen and Sulphur Donor	
	Ligands.	
Ms.	Application of Selenium and Lead	Prof. R. L. Nongkhlaw
Kmendashisha	Compounds for the Synthesis of Acyclic	
Wanniang	Organic and Related Compounds	

Students Selected for Higher Studies

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
Mr. Rimi Chyrmang	PhD	NEHU	India
Ms. Mebalari Thangkhiew	PhD	NEHU	India
Mr. Derick W. Nongspung	PhD	IIT Guwahati	India
Ms. Ankita Rakshit	PhD	Tezpur University	India

Research Fellowship

CSIR-UGC-NET	UGC Non-Net	NFST	Inspire Fellowship	ICMR
03	25	07	01	01

> DS Kothari Post-Doctoral Fellowship: 01

Field Work/Educational Tour of Students

Teachers-in-Charge: Prof. R.L. Nongkhlaw and

Dr. A.K. Pal

Places/Institutions Visited: Puri and Kolkata **Duration of Tour (Dates and number of days):** 5th-16th January, 2023; 12 days

Purpose of Tour: To expose the students in different academic institutes of eminence and chemical/pharmaceutical companies/industries. The team visited some educational sites like

Science centre, Chem Biotech, KIIT, etc during the Study tour.

Courses Conducted

> Postgraduate – M. Sc. (Chemistry)
Semester I (NEP-2020):

Physical Chemistry I (Quantum Chemistry & Spectroscopy); Organic Chemistry I (Laboratory Course); Inorganic Chemistry I

(Theory)/MOOCs; Physical Chemistry II (Theory)/MOOCs; Environmental Chemistry.

Semester II (NEP-2020): Physical Chemistry III (Theory); Inorganic Chemistry II (Laboratory Course); Organic Chemistry II (Theory)/ MOOCs; Interdisciplinary Chemistry/MOOCs; Research Methodology & Proposal writing; Analytical Methods in Chemistry.

Semester III (CBCS):

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 (CBCS): Inorganic Chemistry IV; Organic Chemistry IV; Physical Chemistry IV; Project Work in Inorganic/Organic/Physical Chemistry.

> PhD Courses

Research Methodologies in Chemistry; Spectroscopic and Crystallographic Techniques in Chemistry; Advanced Inorganic Chemistry; Advanced Organic Chemistry; Advanced Physical Chemistry; Advanced Quantum Chemistry.

Seminars/Conferences/Workshops/Symposia/ Extension Programmes

- 1. One day Seminar on "Societal Applications of Radiation Chemistry (SACR-2022)", organized by the Dept. of Chemistry, NEHU, Shillong, in collaboration with Indian Society for Radiation and Photochemical Sciences (ISRAPS), BARC, Mumbai on 10th June, 2022. (Convener Prof. M.K Sahoo).
- DST-STUTI training program on "Application of Sophisticated Instruments in Chemistry, Biology and Material Sciences", organized by the Dept. of Chemistry, NEHU, Shillong, in collaboration with Amity University, Noida, UP, 28th June to 04th July, 2022. (Chairman – Prof. T.S. Basu Baul; Coordinator – Prof. M.K Sahoo).
- 3. Refresher Course on "Teaching and Research in Chemistry: Challenges and Opportunities" conducted by the Dept. of Chemistry, NEHU, and UGC-HRDC, NEHU during 31st Oct. to 15th November 2022. (Coordinator Dr. D.P.S. Negi; Co-coordinator Dr. A.K. Pal).

- 4. National seminar on "Recent Advances in Chemistry: Theoretical and Computational Aspects) during 18th to 20th Nov, 2022 at NEHU, Shillong (Jointly organised with NIT, Meghalaya) (Convener Dr. Biplab Sarkar).
- 5. International Symposium on "Emerging Trends in Chemical Sciences (ETCS-2023)", organized by the Dept. of Chemistry, NEHU, 2nd to 4th March, 2023. (Convener Dr. S. Khatua; Co-convener Dr. A.K. Pal)

Publications

> Research papers (46)

- 1. Kharnaior, K. S.; **Lyngdoh, R. H. D.** (2022). Minima on the (C₆H₆)^{•+} radical cation potential energy surface: A DFT exploration. *Comp. Theor. Chem.*, 1209:113588; DOI:10.1016/j.com ptc.2022.113588
- 2. Langstieh, D. R.; **Lyngdoh, R. H. D.**; King, R. B.; Schaefer, H. F. (2022). Lantern-type dinickel complexes: an exploration of possibilities for nickel-nickel bonding with bridging bidentate ligands. *J. Comp. Chem.*, DOI: 10.1002/jc c.26936).
- 3. Nongpiur, C. G. L., Verma, A. K., Ghate, M. M., Poluri, K. M., Kaminsky, W., **Kollipara, M. R.** (2023). Synthesis, cytotoxicity and antibacterial activities of ruthenium, rhodium and iridium metal complexes containing diazafluorene functionalized ligands. *J. Mol. Str.* 1285: 135474.
- 4. Nongpiur, C. G. L., Verma, A. K., Singh, R. K., Ghate, M. M., Poluri, K. M., Kaminsky, W., **Kollipara, M. R.** (2023). Half-sandwich ruthenium(II), rhodium(III) and iridium(III) fluorescent metal complexes containing pyrazoline based ligands: DNA binding, cytotoxicity and antibacterial activities. *J. Inorg. Biochem.* 238: 112059.
- 5. Dkhar, L., Gupta, H., Poluri, K. M., Gannon, P. M., Kaminsky, W., **Kollipara, M. R.** (2022). Influence of counterion on the formation of supramolecular ruthenium, rhodium and iridium complexes containing pyridyl thioamide derivatives and their reactions with azide: Antioxidants and antimicrobial studies. *New J. Chem.*, 46; 19241–19253.
- 6. Hynniewta, S., **Chandra, A.K**. (2023). Atmos pheric chemistry of methoxy flurane: reaction with Cl atoms and further degradation. *Int. J. Chem. Kinet*. 55: 129-137. https://DOI: 10.1002/kin.21623
- 7. Bhattarai, S., Sutradhar, D., **Chandra, A.K.** (2022). Strongly bound π -hole tetrel bonded complexes between H₂SiO and substituted

- pyridines. Influence of substituents. *ChemPhysChem* 23, e202200416(1-9). https://doi.org/10.1002/cphc.202200146
- 8. Mohanta, R.; Mezhubeinuo; Devi, M.; **Bez, G.** (2022) L-Proline catalyzed direct synthesis of (E)-nitroalkenes from aldehydes in aqueous medium. *Catal. Lett.*, 1-6; https://doi.org/10.100 7/s10562-022-04228-4.
- 9. Gogoi, A.; Basumatary, G., **Bez, G.** Thermally activated aryl thioureas as Brønsted acid catalysts for C–C bond forming reactions: synthesis of symmetrical trisubstituted methanes. *Synthesis*, 55 (05): 786-798.
- 10. Charingia, A, Shergujri, M.A., Suting, S., Wagay, T.A., **Askari, H.** (2023) *J. Surfactants Deterg.*, 26(2) 145-161. https://doi.org/10.1002/j.sde.12640
- 11. Singh, M., Singh, V., **Basu Baul, T. S.**, Koch, B. (2022). TPGS loaded triphenyltin (IV) micelles induced apoptosis by upregulating p53 in breast cancer cells and inhibit tumor progression in T-cell lymphoma bearing mice. *Life Sci.*, 308: 120937, https://doi.org/10.1016/j.lfs.2022.120937
- 12. Singh, V., Rana, N. K., Kashif, M., Manna, P. P., **Basu Baul**, **T. S.**, Koch, B. (2023). Aqua-(2-formylbenzoato)triphenyltin(IV) induces cell cycle arrest and apoptosis in hypoxic triple negative breast cancer cells. *Toxicol. in Vitro*, 86: 105484, https://doi. org/10.1016/j.tiv. 2022.105484.
- 13. **Basu Baul**, **T. S.**, Hlychho, B., Addepalli, M. R., Kundu, S., de Vos, D., Linden, A. (2023). Synthesis and structures of polynuclear organotin(IV) complexes of a polyaromatic carboxylate ligand and cytotoxic evaluation in tumor cell lines. *J. Organomet. Chem.* 985: 122592,
 - https://doi.org/10.1016/j.jorganchem.2022.122592
- 14. **Basu Baul, T. S.**, Hlychho, B., Addepalli, M. R., Duthie, A., Sarkar, O., Dey Bhowmik, A., Chattopadhyay, A., Vasquez-Ríos, M. G., Höpfl, H. (2023). Synthesis and structures of diorganotin(IV) Schiff base complexes [R₂Sn(L)Cl₂] and their proliferative responses on breast cancer cells. *J. Mol. Str.*, 1277, 134827, https://doi.org/10.1016/j.molstruc.2022.134827
- 15. Bhatta, A., Baruah, P., Phanrang, P. T., Basumatary, G., Bez, G., Mitra, S. (2023). Modulated photophysical properties and sequestration of potent anti-acetylcholinesterase active coumarinyl dyes in human serum albumin. *Dyes Pigm.* 208: https://doi.org/10.1016/j.dyepig.2022.110871
- 16. Chamlagai, D. Phanrang, P. T. Dkhar, L. Rao, K. M., Mitra, S. (2023). Combined experimental and

- computational studies on the photophysical properties of systematically substituted polypyridyl based ligands on a benzene core. *J. Photochem. Photobiol. A: Chem.* 435: https://doi.org/10.1016/j.jphotochem.2022.114330
- 17. Baruah, P., Ray, D., Konthoujam, I., Das, A., Chakrabarty, S., Aguan, K., **Mitra S. (2022).** Therapeutic opportunities of surface-active ionic liquids: a case study on acetylcholinesterase, citrate synthase and HeLa cell lines. *New J. Chem.*, 46, 20419-20432. https://doi.org/10.1039/D2NJ04365C
- 18. Ray, D., Singh, I. R., Bhatta, A., Das, A., Chakrabarty, S., **Mitra, S.** (2022). Modulation of drug binding ability and augmented enzymatic activity of lysozyme stabilized in presence of surface-active ionic liquids. *J. Mol. Liq.* 367. https://doi.org/10.1016/j.molliq.2022.120356
- 19. Kumar, B., Bhatta, A., Saraf, P., Rangan, K., Sarkar, M., **Mitra, S.**, Kumar, D. (2022). Iodine (III)-promoted regioselective and efficient synthesis of β-triazolyl BODIPYs for the selective recognition of nickel ion and bovine serum albumin. *Dalton Trans.* 51: 8169-8176. https://doi.org/10.1039/D2DT00946C
- 20. Muthuramalingam, S., **Velusamy**, **M.**, Rajput, S. S., Alam, M., Mayilmurugan, R. (2023). Nickel(II) Complexes of tripodal ligands as catalysts for fixation of atmospheric CO₂ as organic carbonates. *Chem. Asian J.* 18 (6): e202201204.
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- 1,3-dicarbonyl compounds. *Synlett*; *34(07)*, 815-822.
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- 46. Bhunia, A.; Zangrando, E.; **Khatua, S.**; Manna, S. C. (2022): Synthesis, crystal structure, electrochemistry and thermal analysis of an oxalato bridged Cr(III)-Pb(II) heterometallic coordination compound. *J. Mol. Struct.*, 1267, 133562.

Funds received during current year

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

Sr. No.	Funding Agency	Amount (Rs. In Lakhs),
01	NEHU	24.0
02	NEHU (for international symposium)	2.0
04	DST (for international symposium)	1.5
06	ICSSR-NER, Shillong (For one day seminar)	0.5
07	Amity University (Under DST STUTI program)	6.19

(B) EMR Research Projects to individual faculty members

Title of Project	Current Status (New /on- going/ completed)	Name of Investigator	Multi/Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report
Theoretical Studies on Understanding and Tuning of Some Non-Covalent Interactions	Ongoing	Dr. A.K. Chandra	Single (2020- 2023)	DST-SERB New Delhi	1.80
Study of Anti- Alzheimer Activity of Coumarin Based Hybrid Drugs: Synthesis and Acetylcholinesterase Inhibition Assay (10.12 L)	On-going	Prof. S. Mitra (PI)/ Prof. G. Bez & Prof. K. Aguan (Co- PI)	Single (2022- 2023)	Indian Council of medical Research (ICMR), New Delhi	NIL
"An Approach towards Asymmetric Synthesis via the C-H Bond Activation Assisted by Chiral Organo- Metallic Species as Catalytic System" (46.94 L)	New	Prof. R L Nongkhlaw	Single (2023- 2026)	DST SERB,	29.53

Facile Method for the	New	Prof. M. K.	Multi	DBT, New	0.86
Development of		Sahoo	Institute	Delhi	
Green and		(PI)/ Dr. V.	(2022-		
Sustainable Bamboo		K. Tyagi	2024)		
Based Feminine		(PI)/ Mr. E.	ŕ		
Hygiene Product and		A. Singh			
Setting up of Pilot		(PI)/ Dr. A.			
Plant at Chandel		A. Singh			
District, Manipur		(Co-PI)/			
(222.78 L)		Dr. M.			
		Talwar			
		(Co-PI)			

1.

Seminar/Conference/Symposium/Extension Programme etc.

Prof. R.H. Duncan Lyngdoh

- 1. Invited Plenary Lecture titled "Metal-metal (MM) bond lengths related to MM bond orders in binuclear 3d metal complexes: Experimental and computational results" given at National Symposium on *Recent Advances in Chemistry: Theoretical and Computational Aspects* held at North-Eastern Hill University, Shillong, 18th to 20th November, 2022.
- 2. Invited Oral Presentation titled "The bond order concept applied to metal-metal interactions in binuclear complexes of the first-row metals scandium to zinc: A DFT exploration" given at 62nd Sanibel Symposium on Quantum Chemistry held at St. Augustine, Florida, USA, 12th to 17th February, 2023.

Prof. A.K. Chandra

- 1. Delivered a keynote lecture on "Diversity in σ 1. hole and π -hole based non-covalent interactions" in the National Symposium on Recent Advances in Chemistry: Theoretical and Computational Approaches (RAC-TCA) at NIT, Meghalaya on 18-20 November 2022.
- 2. Delivered invited lecture on "Computational Chemistry: An Important Tool for Chemistry Education and Research", VIT, Bhopal 15 February 2023.

Prof. G. Bez

1. Delivered a Plenary Lecture on "Synthetic applications of L-proline based organocatalysts" in the International Conference on Recent Advances in Materials Chemistry and Catalysis (RAMCC-2023) held in Dibrugarh University during March 1-3, 2023.

Prof. M. K. Sahoo

- Delivered an invited lecture on "Radiation Chemistry Its Present Status as a Subject in University Curriculum and Its Applications in Organic Synthesis" during the One Day Seminar on "Societal Applications of Radiation Chemistry (SARC-2022)", organised by the Dept. of Chemistry, NEHU, Shillong in collaboration with Indian Society for Radiation and Photochemical Sciences (ISRAPS), BARC, Mumbai on 10th June, 2022.
- 2. Delivered an invited lecture on "Revisiting Fenton and photo-Fenton processes protocol management", during the International Conference on Water (ICW 2023), organised by School of Environmental Sciences, Mahatma Gandhi University, Kottayam, Kerala, 9th to 12th February, 2023.

Prof. S. Mitra

Acted as an expert member and attended the Brainstorming Session on 'Exploring Medicinal Plants and Traditional Formulations for Metabolic Disorders Particularly Type II Diabetes' held on 4th & 5th July, 2022 at Institute of Bioresources and Sustainable Development (IBSD), Manipur organized by Department of Biotechnology (DBT), Govt. of India and delivered a lecture entitled "A Molecular Mechanistic View Towards the Treatment of T2DM".

Academic Collaborations

Prof. R.H. Duncan Lyngdoh International

Prof. Henry F. Schaefer and Prof. R. Bruce King; Center for Computational Quantum Chemistry, University of Georgia (Athens, Georgia, USA) on the Project "Metal-Metal Bond Lengths and Bond Orders in Binuclear First Row Transition Metal

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Complexes: Perspectives from Density 4. Functional Theory".

Prof. K.M. Rao **National**

- 3. Professor. Krishna Mohan Poluri, Department of Biotechnology and Centre for Nanotechnology, 2. Indian Institute of Technology Roorkee, Roorkee 247 667, India
- 4. Dr. Akalesh Kumar Verma, Department of 3. Zoology, Cell & Biochemical Technolog, Laboratory, Cotton University, Guwahati-781001, India
- Dr. Venkanna Banothu, Centre for Biotechnology 5. (CBT), Institute of Science & Technology (IST), Jawaharlal Nehru Technological University Hyderabad (JNTUH), Hyderabad, 500 085, 5. Telangana, India.

International

Dr. Werner Kaminsky, Department of Chemistry, 1. University of Washington, Seattle, WA 98195, 6. **USA**

Prof. A.K. Chandra **National**

Dr. D. Sutradhar, Department of Chemistry, VIT 1. Bhopal. Academic collaboration on the 8. investigation of beryllium bonds.

International

1. Prof. N.T. Trung, Quantum Chemistry Group, Department of Chemistry, Quy Nhon University, Vietnam. Academic collaboration on studies of non-covalent interactions.

Prof. G. Bez **National**

- 1. Prof. Ramesh C Deka, Tezpur University (Molecular modeling)
- Dr. Akalesh Verma, Cotton University, Assam 1. 2. (Biological Studies)
- Dr Samuel L Rokhum, NIT, Silchar, Assam 3. (Nano-catalyst and its application)

Prof. T.S. Basu Baul **National**

- Dr. B. Koch, Department of Zoology, Banaras 3. 1. Hindu University, Varanasi (Biological studies)
- Dr. S. K. Manna, Centre for DNA Finger printing 2. and Diagnostics, Hyderabad (Biological studies) 4.
- Prof. A. Chattopadhyay, Department of Zoology, 3. Visva-Bharati, Santiniketan (Biological studies)

Prof. P. Roy, Department of Biosciences and Bioengineering, IIT, Roorkee (Biological studies) International

- Prof. U. Englert, Institute of Inorganic Chemistry, 1. **RWTH** Aachen University, Germany (Crystallography)
 - Prof. A. Lyčka, Faculty of Science, University of Hradec Králové, Czech Republic (Specialized NMR measurements)
 - Dr. A. Duthie, School of Life & Environmental Science. Deakin University. Australia (Specialized NMR measurements)
 - Prof. H. Höpfl, Centro de Investigaciones Químicas, Universidad Autónoma del Estado de Morelos, Mexico (Crystallography and Hirshfeld surface analysis)
 - Prof. M. Fátima C. Guedes da Silva, Centro de Química Estrutural, Universidade de Lisboa, Portugal (Crystallography, Hirshfeld surface analysis and catalysis)
 - Prof. A. Linden, Department of Chemistry, Switzerland University of Zurich. (Crystallography)
- 7. Dr. D. Schollmeyer, Johannes Gutenberg-Universität Mainz, Institut für Organische Chemie, Germany (Crystallography)
 - Prof. K. Jurkschat, Technische Universität Dortmund, Fakultät für Chemie und Chemische Biologie, Germany (Crystallography)
 - Prof. S. Parkin, University of Kentucky (Crystallography)

Prof. M.K. Sahoo

National

4.

9.

1.

Dr. Vinaya K Tyagi, Shriram Institute for Industrial Research, New Delhi

Prof. S. Mitra National

- Dr. S. Chakrabarty, Department of Chemical, Biological & Macromolecular Sciences, S. N. Bose National Centre for Basic Sciences, Kolkata biological (Modeling macromolecules complex fluids).
- 2. Dr. D. Kumar, Department of Chemistry, BITS, Pilani (Development of BODIPY based albumin sensors).
 - Prof. K. Aguan, Department of Biotechnology & Bioinformatics, NEHU, Shillong (Assessing active acetylcholinesterase inhibitors).
 - Prof. K. M. Rao, Department of Chemistry, NEHU, Shillong (Intramolecular energy transfer and cross-talk among the polypyridyl ligands decorated on a core structure).

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5. Prof. G. Bez, Department of Chemistry, NEHU, 2. Shillong (Development and assay of coumarin based hybrid structures with augmented AChE 3. inhibition potency).

Prof. R. L. Nongkhlaw **National**

Prof. A K Yadav, Department of Zoology, 1. 1. NEHU, Shillong (Biological Studies)

Dr. A.K. Pal **National**

- Department of Metallurgy Engineering and 4. 1. Science, Materials Indian Institute of 5. Technology, Indore.
- Natural Products & Medicinal Chemistry 2. Division, CSIR-Indian Institute of Integrative Medicine, Jammu.

Dr. S. Khatua

National

- Prof. K. Aguan (Department of Biotechnology 1. and Bioinformatics, NEHU, Shillong) on DST project 'A Lab on a molecule for cation and anion sensing'.
- 2. Dr. S. C. Manna, Dept. of Chemistry, Vidyasagar University, West Bengal. (topic:Crystallography).
- 3. Dr. P. N. Chatterjee, Dept. of Chemistry, NIT Meghalaya (topic: Crystallography).

Honours/Awards/Recognition/Membership/F ellowship

Prof. G. Bez

- 1. Thematic group member for Science. Technology, and Innovation policy for the state of Assam
- 2. Special Invitee in the Policy Lab. meeting on 'Women in Sciences: The Indian Perspective' on 30th November, 2022 at 2:30 PM in CSIR-North East Institute of Science and Technology, Jorhat in association of Royal Society of Chemistry.

Prof. T.S. Basu Baul

- Life Member of National Academy of Sciences, 1.
- 2. Life Member of Chemical Research Society of India, Bangalore
- Life Member of Indian Society of the Analytical 3. Scientists, BARC, Mumbai,

Prof. M.K Sahoo

Life member and founding Vice-president, 1. Society of Environmental Chemistry and Allied Sciences (SECAS)

Life member, Indian Society for Radiation and Photochemical Sciences (ISRAPS) Life member, Society for Chemical Education, Assam

Prof. S. Mitra

2.

- Member of American Chemical Society (ACS)
- Life Member of Indian Society for Radiation and Photochemical Sciences (ISRAPS)
- Life Member of Indian Association for the 3. Cultivation of Science (IACS)
 - Life Member of Fluorescence Society of India Life member of Indian Photobiology Society (IPS)

Dr. D.P.S Negi

Life member of Indian Society for Radiation and 1. Photochemical Sciences.

Other Activities

Prof. K.M. Rao

1. Reviewer of (i) Journal of Organometallic Chemistry; (ii) Inorganica Chimca Acta; (iii) Polyhedron; (iv) Applied organometallic chemistry; (v) J. Coordination Chemistry.

Prof. A.K. Chandra

- 1. Delivered a lecture as a resource person on "Research, Academic Writing & Papers for Journals" in the Capacity Building program, USTM, Meghalaya on 4th November, 2022.
- 2. Acted as Chairman of the 1st Technical Session of the International Symposium on Emerging Trends in Chemistry, Dept. of Chemistry, NEHU, 2-4 March, 2023.
- 3. Reviewer of (i) J.Phys. Chem.A; (ii) ACS-Omega, (iii) RSc Adv., (iv) Phys. Chem. Chem. Phys.; (v) Chem. Phys. Lett., (vi) Chem. Phys., (vii) ChmistrySelect, (viii) ChemPhysChem, (ix) J. Comput. Chem., (x) Atm. Env., (xi) J. Pollut. Res., etc.

Prof. T.S Basu Baul

- 1. Delivered a lecture entitled "Crystallography and its applications in organometallic compounds" on 2.7.2022 as a resource person during the DST STUTI training Program on "Application of Sophisticated Instruments in Chemistry, Biology and Material Sciences" organised by the Dept. of Chemistry, NEHU, Shillong, in collaboration with Amity University, Noida, UP held from 28th June to 04th July, 2022.
- 2. Reviewer of (i) Journal of Organometallic Chemistry; (ii) Journal Molecular Structure; (iii)

Journal Inorganic Biochemistry; (iv)Inorganica Chimica Acta; (v) New Journal of Chemistry.

Prof. H. Askari

1. Reviewer of (i) Computational Biology and Chemistry; (ii) Indian Journal of Chemistry.

Prof. G. Bez

- 1. Acted as a member in the panel discussion on "Chemical Education in Self Reliance: A Global Perspective" organized by CSIR-North-East Institute of Science & Technology (CSIR-NEIST), Jorhat in collaboration with the Royal Society of Chemistry (RSC) during June 23-25 June 2022.
- 2. Chaired a technical session in the International Conference on Recent Advances in Materials Chemistry and Catalysis (RAMCC-2023) held in Dibrugarh University during 1st to 3rd March, 2023.
- 3. (i) Member, NEP Implementation Committee, NEHU; (ii) Member, Standing Committee on Ordinance and regulation, NEHU; (iii) Chairman, Waste Management Committee, NEHU; (iv) Member, Governing Body, Shillong College, Shillong; (v) Vice-President, Chemistry Club, Dept. of Chemistry, NEHU.

Prof. M.K Sahoo

1. 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. Delivered two lectures on 28.06.2022 in the oneweek training program on "Applications of Sophisticated Instruments in Chemistry, Biology and Material Sciences" held during 28.6.2022 to 4.7.2022 jointly organized by the Department of Chemistry and SAIF, NEHU in collaboration with Amity University under 'Synergistic Training Program Utilizing Scientific Technological Infrastructure (STUTI)' program of the R&D infrastructure Division of DST. Title of the talks: (a) Fluorescence Spectroscopy: A Unique Tool for Chemical and Biological Research; and, (b) Time Resolved Spectroscopy: Techniques and Applications.

- 2. Acted as a resource person in (i) the refreshers' course in "Chemical Sciences" organized by the UGC-HRDC Manipur University during 17th to 30th Nov 2022 and delivered the lecture entitled "A new Method to Assay the Relative Activity of Ani-Cholinergic Compounds: Bio-physical Studies into the Therapeutic Avenues for Alzheimer's Disease" on 22.11.2022; (ii) one-day national webinar on new education policy 2020, Theme: "Research Innovation and Rankings in Higher Education Institutions" organized by UGC-HRDC, NEHU on 18.05.2022 delivered the lecture entitled "Changed Scenario of Science Research under NEP 2020: Challenges and Opportunities"; (iii) the refreshers' course in Chemistry organized by the UGC-HRDC and Department of Chemistry, NEHU 30.10.2022 to 15.11.2022 and delivered the lecture entitled "Bio-physical insights into the therapeutic avenues for Alzheimer's disease: A test case with acetylcholinesterase inhibitors" on 01.11.2022
- 3. (i) Member, Board of Studies in Chemistry, Sikkim University; (ii) Governing Body Member, Shillong Commerce College.
- 4. Reviewer of (i) Journal of Physical Chemistry; (ii) Journal of Molecular Liquids; (iii) Journal of Photochemistry and Photobiology A: Chemistry; (iv) Journal of Molecular Recognition; (v) New Journal of Chemistry; (vi) Colloids and Surfaces B: Biointerfaces.

Prof. R.L. Nongkhlaw

- 1. Delivered an invited lecture in the National seminar "Recent Advances in Chemistry: Post Covid '19" organised by the department of Chemistry at Union Christian College, Barapani, Ribhoi District, Meghalaya on 22nd Feb 2023.
- 2. Organized the outreach program in collaboration with the NEHUSU, NEHU, Shillong at Mawtawar L. P. School on 14th November 2022. School kits and stationery items besides old useable items were donated to school children.
- 3. Reviewer of (i) New Journal of Chemistry; (ii) RSC Advance; (iii) Catalysis Letters; (iv) Tetrahedron; (v) Chemistry Select; (vi) Journal of Inorganic and Organometallic Polymers and Materials; (viii) Dyes and Pigments; (ix) Synthetic communications; (x) Organic Preparations and Procedures International; (xi) Polycyclic Aromatic Compounds.

Dr. A.K. Pal

1. Acted as a resource person in (i) Organized by UGC- HRDC, NEHU entitled "Application of

- Nanoparticles and Carboneous Materials" on 08.11.2022.
- 2. Delivered lecture in the STUTI Program Organized by the Department of Chemistry and SAIF, NEHU entitled "Characterization of Nanoparticles By SEM, TEM and Their Applications" on 29.06.2022

Dr. S. Khatua

- 1. Delivered an invited lecture on "Research fellowship and research grant: Writing report, manuscript, and thesis. UGC-Academic Staff College, NEHU, Shillong, 6th March, 2023.
- 2. Delivered an invited lecture on "Publication on research findings: Writing report, manuscript, and thesis. UGC-Academic Staff College, NEHU, Shillong, 16th February, 2023.
- 3. Delivered an invited lecture on "Design, synthesis and application of ruthenium (II) and iridium (III) polypyridine complex-based triplet emitters at CSIT, IISER Thiruvana nthapuram, 4th February 2023.
- 4. Delivered an invited lecture on "Design and construction of triplet emitting d⁶-metal polypyridine complexes: Sensing and bioimaging application at IISER Kolkata, 18th January 2023.
- 5. Reviewer of (i) Chemical Communications; (ii) Dalton Transactions; (iii) Chemistry- An Asian Journal; (iv) Inorganic chemistry frontiers; (v) Nanoscale; (vi) Journal of Material Chemistry B/C; (vii) Photochemical and photobiological sciences; (viii) RSC Advance; (ix) Analyst; (x) Analytical Method; (xi) New Journal of Chemistry; (xii) Dyes & Pigments; (xiii) Sensors & Actuator B: Chemical; (xiv) ACS Applied Materials and Interfaces; (xv) Inorganic Chemistry; (xvi) ACS Applied Bio Materials; (xvii) Analytical Chemistry

Dr. D.P.S. Negi

1. Reviewer of (i) Talanta; (ii) Methods and Applications in Fluorescence.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1^{ST} APRIL 2021 TO 31^{ST} MARCH 2023

Details of Faculties	Name		1	Prof. R. H. Duncan Lyngdoh	Prof. K. Mohan Rao	Dr. T. S. Basu Baul	Prof. A.K. Chandra	Prof. G. Bez	Prof. H Askari	Prof. M. K. Sahoo
	Date of Joining		2	11.07.88	16.09.97	22.6.84	31.07.03	8.11.06	25.07.85	02.02.1996
	Field of specialisation		3	Computati onal Chemistry	Inorganic Chemistry	Inorganic Chemistry	Physical Chemistry	Organic Chemistry	Physical Chemistry	Organic Environmen tal Chemistry
(A)	UG		4				2		19	09
Teaching Experience (in Years)	PG, including PhD		5	35	25	28	21	16	19	19
	Basic Research		6	Yes	Yes	Yes	Nes	Yes	Yes	Yes
	Applied Research		7	No	Yes	Yes	No	No	No	Yes
	Action Research		8	No	No	No	No	No	No	No
	Project Submitted		9	No	No	No	No	No	No	No
(D)	Ongoing Project		10	-	-	-	1	-	-	1
(B) Research	Research Paper	Group I	11	-	-	-	-	-	1	-
activities	in UGC care list journals	Group II	12	2	3	4	2	2	-	-
	Books /Books	Books	13	-	-	-	-	-	-	-
	chapters Published	Book Chapters	14	_	_	_	_	_	_	_
	Popular Articles	1	15							
	(Newspaper/ Magazines)			-	-	_	-	-	_	-
	Seminar /	National	16	-	_	-	-	-	-	2
	Conference/ Symposia organized	International	17							
	Seminar /	National	18	1	-	-	1	2	-	1
	Conference/ Symposia	International	19	1			1			01
	attended Conference		20		-	-		-	-	
	Proceedings			-	-	-	-	-	-	-
	Consultancy		21	-	-	-	-	-	-	-
	Applied		22	-	-	-	-	-	-	-
(C) Patent	Published		23	-	-	-	-	-	-	-
	Granted		24	-	-	-	-	-	-	-
(D) E-Content	MOOC/SWAY AM/ E-content		25							
	developed		26	-	- NT-	37	- 37	-	-	37
	Teaching /Extension /outreach		26		No	Yes	Yes			Yes
(E) Any Other	Responsibilitie s other than		27	Yes	yes	Yes	Yes	Yes	Yes	Yes
ring other	teaching		20							2
	Awards/ Honours/ Recognition/ Membership/		28							3
	Fellowship			-	-	-	-	-	-	
	Collaborations	National International	29 30	1	3	9	1	3		01

Detail s of Facult ies	Name		1	Prof. S. Mitra	Prof. M. Velusamy	Prof. R. L. Nongkhla w	Dr. D.P.S. Negi	Dr. B. Sarkar	Dr. A. K. Pal	E. K. Rymmai	Dr. S. Khatua
	Date of Joining		2	03.08.200	27.05. 2013	13.05.200	11.6.2003	10.01.200	30.3.2009	14.05.200	01.05.201
	Field of specialisation		3	Physical Chemistry	Bio- Inorganic	Organic Chemistry	Physical Chemistry	Physical Chemistry	Organic Chemistry	Inorganic Chemistry	Inorganic Chemistry
(A)	UG		4	02							
Teachi ng Experi ence (in Years)	PG, including PhD		5	20	10	20	19	16	14	20	10
	Basic Research		6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Applied Research		7	Yes	Yes	No	No	No	No	No	Yes
	Action Research		8	No	No	No	No	No	No	No	No
	Project Submitted		9		1		1	1	-	-	-
(B)	Ongoing Project		10	1	-	1	-	-	-	-	-
Resear	Research	Group I	11		-		-	-	-	-	-
ch activit ies	Paper in UGC care list journals	Group II	12	5	6	4	1	1	7	3	5
	Books /Books chapters Published	Books Book Chapters	13 14	No No	-	-	-	No No	-	No No	No No
	Popular Articles (News Paper/ Magazines)		15	No	-	-	-	No	-	No	No
	Seminar /	National	16	No		1		1	-	No	None
	Conference/ Symposia organized	Internatio nal	17	No	-	-	-	No	-	No	1
	Seminar /	National	18	No	-	Yes	-	No	-	No	0
	Conference/ Symposia attended	Internatio nal	19	No	-	-	-	1	-	No	0
	Conference Proceedings		20	No	-	-	-	No	-	No	No
	Consultancy		21	-	-	-	-	-	-	-	-
(6)	Applied Published		22	-	-	-	-	-	-	-	-
(C) Patent					-	-	-		-		
	Granted		24	No	-	-	-	No		No	No
(D) E- Conte	MOOC/SWA YAM/ E- content developed		25	No	No	No	No	No	No	No	No
nt	Teaching /Extension /outreach activities		26	Yes	-	-	-	Yes		No	Yes
(E) Any Other	Responsibiliti es other than teaching		27	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	Yes	No	No	Yes	No	No	No	No
	Collaborations	National	29	05	-	1	-	No	2	No	3
		Internatio nal	30	No	-	-	-	No	-	No	0

DEPARTMENT OF MATHEMATICS

Head: Dr. A. M. Buhphang **Telephone:** +91-364-272 2720

E-mail: hodmath@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
Associate	Dr. A.M. Buhphang, Ph.D.	Ring and Module Theory, Path
Professor	(NEHU)	algebras
	Dr. S.Dutta, PhD (NEHU)	Rings of Continuous Functions, Graph
		Theory
Assistant	Dr. A.T.Singh, PhD (NEHU)	Algebraic and Differential Topology
Professor	Dr. John Paul Jala Kharbhih, PhD	Topology, Rings of Continuous
	(NEHU)	Functions
	Mr. Ph. Chinglensana, MSc	Graph Theory
	(Delhi)	

Thrust Areas of Research

Algebra, Algebraic and Differential Topology, Graph Theory, Rings of continuous functions.

Brief Statement of Academic Activities and Achievements

The department is more focused towards imparting basic and foundational knowledge to Post Graduate students. Our faculty members are also engaged in conducting Coursework classes to the first year Ph.D. scholars. Besides these activities, they are actively engaged in research with their respective research scholars and they also extend their expertise by delivering lectures in seminars and symposiums within and outside the state.

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		OBO	С	EW	S	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	3	3	-	1	-	-	-	-	-	-	-	-	3	4
Manipur	1	-	-	1	-	-	-	-	-	-	-	-	1	1
Meghalaya	2	-	19	12	-	-	-	-	-	-	-	-	21	12
Sub Total	6	3	19	14	-	-	-	-	-	-	-	-	25	17
Total	09		33		-		-		-		-		42	

Degrees Awarded

- > M. Sc.: 43, Ph.D.: 03
- > Degrees Awarded to students from different States of India and Abroad (M. Sc.)

	Gen		ST		SC		OBC		EWS	S	PWD		TOT	ΆL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Assam	-	-	-	-	-	-	-	-	2	1	-	-	2	1
Manipur	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Meghalaya	2	1	20	13	-	-	-	-	-	-	-	-	22	14
Tripura	-	-	-	-	-	-	-	-	1	-	-	-	1	-
West Bengal	-	1	-	-	-	-	-	-		-	-	-	-	1
Sub Total	3	2	21	13	-	-	-	-	3	1	-	-	27	16
Total	5		34		-		-		4		-	•	43	·

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC		EW	S	PWD)	TOT	ΆL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Manipur	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Meghalaya	-	-	2	-	-	-	-	-	-	-	-	-	2	-
Total	-		3		-		-		_		-		3	

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/
		Joint Supervisor
Wompherdeiki	A study on the background dynamics and	Dr. J. Dutta
Khyllep	structure formation of various	
	cosmological models	
Laithun Boro	Characterization of some graphs	Prof. M.M.Singh
	structures associated with rings and	
	semirings	
Shailanstar	A study on congruences for Fermat	Dr. A.M.Buhphang
Khongsit	quotients, Bernoulli numbers and	
	Harmonic numbers	

Placement of Students

Name of the Student(s)	Organization	Place of Work
Museum Nongrum	Income Tax Department	Shillong
Emboklang Khongsni	State Bank of India	Shillong.

Students Selected for Higher Studies

Name of the Student(s)	Name of the Programme	Institution/Organization
Soumitra Das	Post Doctoral	IISER, Berhampur
Pynshngain Dhar	Ph.D.	NEHU
Hampher Shylla	Ph.D.	NEHU
Richmond Remdor Jyrwa	Ph.D.	NEHU

Research Fellowship

CSIR-UGC- NET	UGC Non- Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others
04	11	1	NIL	NIL	NIL

Field Work/Educational Tour of Students

Teachers-in-Charge: Dr. A. M. Buhphang and

Dr. A.T. Singh

Places/Institutions Visited: I.I.T. Bhubaneshwar and Kolkata

Duration of Tour (Dates and number of days):

28.12.2022 to 07.01.2023 (11 days)

Purpose of Tour: The tour was conducted to expose our M.Sc. students to the academic environment in some of the best institutes of the country. The team had an interactive session with the Director of I.I.T. Bhubaneshwar, Prof. Tarakanta Nayak and some other faculty members and research scholars of Mathematics Department.

Courses Conducted

> Postgraduate – M. Sc. (Mathematics)

Semester I: Analysis I; Linear Algebra; Ordinary Differential Equations; Classical Mechanics; Application of Mathematics in environmental studies.

Semester II: Elementary Graph Theory; Algebra; Topology; Partial Differential Equations; 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; Algebraic Topology; Functional Analysis.

> MPhil/PhD Courses

Research and Publication Ethics, Research Methodology in Mathematics, Application of Linear Algebras, Rings of Continuous functions, Topological Graph Theory.

Seminars/Conferences/Workshops/Symposia/ Extension Programmes

 A two-day National Seminar on "Recent Trends in Topology and its Applications" held online on 4th
 5th August 2022, Department of Mathematics, North Eastern Hill University, Shillong. (Conveners – Dr. S. Dutta and Dr. J. P. J. Kharbhih).

2. The Department observed the International Pi Day on March 14, 2023 by inviting Dr. J. Dutta, Department of B.S.S.S. NEHU, Shillong to deliver a talk on 'The Lorentz group, Mobius Transformations and the Night Sky' to the research scholars and faculty members.

Publications

> Research papers (07)

- 1. Sangma K. R. and Singh A. T. (2022) On rational loop homology of some fibrations. *Indian J Pure Appl Math.*, https://doi.org/10.1007/s13226-022-00298-7.
- 2. Khongsit S., Buhphang A.M. and Saikia P.K. (2022), A congruence for the square of the Fermat quotient, *Math. Reports*, 24(74), 3: 349-354.
- 3. Dutta, S., Sharma, P. (2022). Some results on the total graph of a commutative ring. *Italian Journal of Pure and Applied Mathematics*. N. 48:1133–1146.
- 4. Dutta, S., Sharma, P. (2023). On Idempotent Graph of Rings. *Palestine Journal of Mathematics*. Vol. 12(1): 883-891.
- 5. Phanjoubam C., Mawiong S.M. (2022). Bounds on some energy-like invariants of corona and edge corona of graphs, *Notes on Number Theory and Discrete Mathematics*, 28 (3): 383-398.
- 6. Phanjoubam C., Mawiong S. M., Buhphang A. M. (2022). On Sombor coindex of graphs, *Communications in combinatorics and Optimization*, 8 (3): 513-529.
- 7. Phanjoubam C., Mawiong S. M., Buhphang A. M. (2023). On general Sombor index of graphs, *Asian-European Journal of Mathematics*, 16 (3): 2350052.

Funds received during current year

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

Sr. No.	Funding Agency	Amount (Rs. In Lakhs),
01	NEHU	1.0

Seminar/Conference/Symposium/Extension Programme etc.

Dr. A. M. Buhphang

1. One invited lecture at the "National Seminar on Progressive exploration on Pure Mathematics" organised by Mathematics Department of Union Christian College, Barapani on 1st Nov. 2022.

Dr. A. T. Singh

1. One invited lecture at the "National Seminar on Progressive exploration on Pure Mathematics" organised by Mathematics Department of Union Christian College, Barapani on 1st Nov. 2022.

Other Activities

Dr. A.M. Buhphang

1. Delivered two invited lectures at the Five-day Capacity Building for KRPs of North East States

on Foundational l Literacy and Numeracy program during 26-30 Sept. 2022, organised by NERIE at NERIE Barapani.

Dr. S. Dutta

1. Acted as a resource person in the Special program on Science Awareness for different schools organized by Shillong Science Centre, NEHU Campus, Shillong on 27.6.2022.

Prof. A. T. Singh

- 1. Delivered two invited lectures at the Five-day Capacity Building for KRPs of North East States on Foundational l Literacy and Numeracy program during 26-30 Sept. 2022, organised by NERIE at NERIE Barapani.
- 2. Delivered two invited lectures at the Five-day Capacity Building for KRPs of North East States on Foundational Literacy and Numeracy program during 19-23 Dec. 2022 organised by NERIE at Cotton University Guwahati

SUMMARY SHEET FOR THE ACADEMIC YEAR 1^{ST} APRIL 2022 TO 31^{ST} MARCH 2023

Details of Faculties	Name		1	Dr. Ardeline Mary Buhphang	Dr. Sanghita Dutta	Dr. Angom Tiken Singh	J.P.J. Kharb hih	Ph. Chinglen -sana
	Date of Joining		2	10.04.2002	26.5.2003	14.05.2003	27.3.20 09	28.06.2012
	Field of specialisation		3	Ring and Module Theory, Path algebras	Rings of Continuo us Functions , Graph Theory	Algebraic and Differential Topology	Topolo gy, Rings of Continu ous Functions	Graph theory
(A)	UG		4		9 years		5 years	04
Teaching Experience (in Years)	PG, including PhD		5	21	20 years	20	14 years	10
,	Basic Research		6	Yes	Yes	Yes	Yes	Yes
	Applied Research		7	No	No	No	No	No
	Action Research		8	No	No	No	No	No
	Project Submitted		9	No	No	No	No	No
	Ongoing Project		10	No	No	No	No	No
	Research Paper in	Group I	11	No	No	No	No	No
(B) Research	UGC care list journals	Group II	12	3	2	1	No	1
	Books /Books	Books	13	-	-	-	-	-
	chapters Published	Book Chapter	14	-	-	-	-	-
activities	Popular Articles (News Paper/ Magazines)		15	No	No	No	No	No
	Seminar /	National	16	No	1	No	1	No
	Conference/ Symposia organized	International	17	No	No	No	No	No
	Seminar /	National	18	1	1	1	1	No
	Conference/ Symposia attended	International	19	3	1	No	No	2
	Conference Proceedings		20	No	No	No	No	03
	Consultancy		21	No	No	No	No	No
(C) Patent	Applied		22	No	No	No	No	No
	Published		23	No	No	No	No	No
	Granted		24	No	No	No	No	No
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	Yes	No	No	No	No
	Teaching /Extension /outreach activities		26	2	1	3	No	No
(E)	Responsibilities other than teaching		27	Yes	Yes	Yes	Yes	Yes
(E) Any Other	Awards/ Honours/ Recognition/ Membership/		28	No	No	No	No	No
	Fellowship Collaborations	National	20	No	No	No	No	No
	Collaborations	National	29		No			
		International	30	No	No	No	No	No

DEPARTMENT OF PHYSICS

Head: Prof. M. C. Mahato (till 2nd Feb, 2023); **Telephone:** +91-364-272 2801/2808

Prof. P. K. Patra (since 19th Feb, 2023) E-mail: hodphy@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
Professor	Dr. Atul Saxena, M. Phil. (IAS, Meerut), Ph.D. (NEHU)	Nuclear Physics (Experimental), Condensed Matter Physics Theoretical) and Atmospheric Physics (Experimental)
Professor	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
	Dr. S. S. Khatri,* M.Sc. & Ph.D. (NEHU)	Laser Raman and IR Spectroscopy
Associate Professor	Dr. A.K. Biswas, M.Sc. (IIT, Kharagpur), Ph.D. (IOP, Bhubaneshwar)	High Energy Physics (Theory)
Assistant Professor	Dr. S.S. Pohlong, M.Sc. & Ph.D. (NEHU)	Solid State Physics (Theory)

^{*}Superannuated in August 2022

Thrust Areas of Research

Nuclear Physics (Theory and Experiment), Solid State Physics/Condensed Matter Physics (Theory and Experiment), High Energy Physics (Theory), Nanoscience (Theory and Experiment), Laser Physics (Experiment).

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. Sc.: 42, Ph.D.: Variable
- > Enrolment of students from different States of India and Abroad (M. Sc.)

	Gen			ST		SC		OBC		EWS		PWD		ΓAL
STATE(Name)	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	-	-	-	-	-	-	-	3	-	-	-	3	-
Meghalaya	2	1	17	13	1	-	-	-	-	-	-	-	20	14
Odisha	1	-	-	-	-	-	-	-	-	-	-	-	1	-
West-Bengal	-	-	-	-	-	-	-	-	-	01	-	-	-	1
Sub Total	3	1	17	13	1	-	-	-	03	01	-	-	24	15
International	01	-	-	-	-	-	-	-	-	-	-	-	1	-
Total	5		30		1		-		4		-		40	

Degrees Awarded

> M. Sc.: 40, Ph.D.: 03

> Degrees Awarded to students from different States of India and Abroad (M. Sc.)

	Gen	Gen		ST		SC		OBC		EWS		PWD		ΓAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Assam	1	_	-	-	-	_	-	-	2	2	-	-	3	2
Meghalaya	2	-	10	20	-	-	-	-	_	-	-	-	12	20
Manipur	-	1	_	-	-	-	-	-	_	-	-	-	-	1
Mizoram	-	-	_	1	-	-	-	-	_	-	-	-	-	1
Total	05	05		31		-		-		4		-		

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Gen	Gen ST SC OBC EWS								PWI	PWD		ΓAL	
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Manipur	-										-	-	-	-
Meghalaya	-	- 2										-	-	-
Total	-		3	-	- 3									
Name of Student		Title of Thesis Name(s) of Supervisor(s)/ Joint Supervisor												
Mr. Double M. Siangshai		udies ateau		ırthqu	ake Pa	ırame	ters in	the S	hillon	g	Pr	of. At	ul Sax	kena
Mr.Shailes Swer	me	omen	t and	radiati		etimes	s of se		ion di _l low ly		Pro	of. At	ul Sax	kena
Mr.Dipangkar Kalita	Pr	Study of Structural Thermodynamical and Electronic Properties of Heusler Alloys for Thermoelectric and Spintronic Applications Prof. Atul Saxena												kena

Research Fellowship

CSIR-UGC- NET	UGC Non- Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others (to be mentioned)
01	02	NIL	01	NIL	NIL

Field Work/Educational Tour of Students

Teachers-in-Charge: Prof. A. Saxena

Places/Institutions Visited: Delhi and Shimla Duration of Tour (Dates and number of days):

6th - 17th January, 2023 (12 days)

Purpose of Tour: To visit different Institutes of

academic interest.

Courses Conducted

> Postgraduate – M. Sc. (Physics)

Semester I: Classical Mechanics, Quantum Mechanics I, Mathematical Physics, Electronics and Instrumentation, Laboratory – I.

Semester II: Quantum Mechanics II, Electrodynamics, Statistical Mechanics, Laboratory II, Experimental Techniques in Physics, Computational Techniques in Physics.

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 and Nuclear Physics II.

> PhD Courses

Statistical & Numerical Methods in Physics, Experimental Techniques and Their Applications, Advanced Statistical Mechanics.

Publications

> Research papers (09)

- 1. D. Kalita, Y. Gupta, **A. Saxena** (2022). Prediction of Dynamical, Thermodynamics and Mechanical properties of RuMnAs Compound under hydrostatic pressure, *Bulletin of Materials Science*, *45*(3), 144.
- 2. D. Kalita, M. Ram, N. Limbu and A. Saxena (2022). DFT study of structural, mechanica thermodynamic, electronic, and thermoelectric properties of new PdTiZ (Z = Ge and Pb) half Heusler compound, International Journal of Quantum Chemistry, e26951
- 3. D. Kalita, N. Limbu, M. Ram, R. Kalita, and A. Saxena, (2022). Prediction of somephysical

- properties in new half Heusler alloy NbAgSi, Journal of Solid State Chemistry, 310, 122999.
- 4. N. Limbu. **A. Saxena** and A. Shankar, 2022. First principle study of the perspective thermoelectric material LnFe4Sb12 (Ln = La- Nd, Sm-Tb, Yb), Computational Material Science.
- Y. T. Singh, B. Chettri, L. R. Zosiamliana, P. K. Patra, Prasad, S.J.Mattipally, A. Laref, M. P.Ghimire, and D. P.Rai. (2023) "Engineering of Hydrogenated (6,0) Single-Walled Carbon Nanotube under Applied Uniaxial Stress: A DFT-1/2 and Molecular Dynamics Study." ACS Omega 8, no. 7: 6895-6907.
- 6. B. Thapa, **P. K. Patra**, A. E. Aly, M.Das, A.Shankar, (2022) "Modulation of the optoelectronic properties of CdSe2" Computational Condensed Matter 33: e00745.
- 7. B. Chettri, **P. K. Patra**, Z. Renthlei, A. Laref, D. P. Rai, (2022) "Bilayer Heterostructure of Boron Nitride and Graphene for Hydrogen Storage: A First- Principles Study." Energy & Fuels 36, no.21: 13307-13316.
- 8. H. Joshi, A. Shankar, N. Limbu, M. Ram, A. Laref, **P. K.Patra**, O. B. LalhriatZuala, S. Chatterjee, and D. P. Rai, (2022) "Pressure-Induced Enhanced Optical Absorption in Sulvanite Compound Cu3TaX4 (X= S, Se, and Te): An ab Initio Study." ACS Omega 7, no. 23: 19070-19079.
- 9. Y. T. Singh, **P. K.Patra**, N. N. Hieu, D. P. Rai (2022): "Study of electronic and mechanical properties of single walled Carbon nanotube (SWCNT) via substitutional Boron doping in zigzag and armchair pattern." Surfaces and Interfaces 29 101815.

Funds received during current year

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

Sr. No.	Funding Agency	Amount (Rs. In Lakhs),
01	NEHU	3.69

(F) EMR Research Projects to individual faculty members

Title of Project (Total outlay in Lakhs)	Current Status (New /on- going/ completed)	Name of Investigator (Pl/Co-Pl)	Multi/Sing le Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report
Climate Change Assessment in Selected Areas of Meghalaya using Meteorological Measurements and Its Impact on Water Resources	Ongoing	Prof. A. Saxena	Single (2020- 2023)	DST, GOI	NIL
Synthesize and Characterization of the Emerging Multi- functional Properties of sulvanite Compounds from Theory and Experiment	On-going	Prof. P. K. Patra (PI); Dr.D. P. Rai and Dr. Lalhriatzuala , PUC, Mizoram University (Co-PIs)	Multi Institute (2021- 2024)	Ministry of Science& Technology , DST (Internation al Bilateral Cooperatio n Division) New Delhi	NIL

Academic Collaborations

Prof. A. Saxena National

- 1. Dr. B.K.Sahoo, Scientific Officer (E), Radiological Physics Division BARC, Mumbai, on "Radon and Thoron studies".
- 2. Prof. Devesh Walia, Department of Environmental Studies, NEHU, on "MicroEa rthquake and Magnetotelluric technique".

International

1. Prof. K.K. Dwivedi, Senior Vice-President, Amity Education Group, Noida; and President, Global Academy of Doctorates, on "Irradiation facility at GSI, Darmstadt, Germany".

Prof. P. K. Patra National

- 1. Prof. R. K. Thapa, Vice-Chancellor, Alpine University, Sikkim.
- 2. Dr. D. P. Rai, Physics Department, Pachhunga University College, Mizoram University.

3. Dr. Amit Shankar, Asstt. Prof, Kurseong, PG College, Darjeeling

International

 Prof. Oksana Ismailova, Chief of Power Engineering Laboratory, Uzbekistan – Japan Innovation Center of Youth, Universitet's Kaya, Uzbekistan.

Honours/Awards/Recognition/Membership/ Fellowship

Prof. A. Saxena

 Life Member: Indian Society for Training & Development (ISTD)

Other Activities

Prof. P. K. Patra

Reviewer of (i) Journal of Physics; (ii) Nanotechnology; (iii) Iranian Journal of Science and Technology Transactions A: Science; (iv Journal of Micromechanics and Microengineering.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1^{ST} APRIL 2022 TO 31^{ST} MARCH 2023

Details of Faculties	Name		1	Prof. A. Saxena	Prof. M. C. Mahato	Prof. P.K. Patra	Dr. A.K. Biswas	Dr. S.S. Pohlong
	Date of Joining		2	27/7/1989	06/2/2003	19/10/1985	20/5/2009	8/1/2003
	Field of specialisation		3	Nuclear	Statistical	Nano-	High	Solid
	•			Physics,	Physics,	science,	Energy	State
				Atmospheri	Fluid	High	Physics	Physics
				c Physics	Dynamics	Energy Physics		
(A)	UG		4	15		29	-	10
Teaching Experienc e (in Years)	PG, including PhD		5	17	26	9	14	20
,	Basic Research		6	Yes	Yes	Yes	Yes	Yes
	Applied Research		7	Yes	No	Yes	-	-
	Action Research		8	No	No	No	-	-
	Project Submitted		9	No	No	1	-	-
	Ongoing Project		10	01	No	-	-	-
	Research Paper in	Group I	11	-	-	05	-	_
	UGC care list journals	Group II	12	04	-	_	-	_
	Books /Books	Books	13	_	0	_	-	-
(B)	chapters Published	Book Chapters	14	-	0		-	-
Research activities	Popular Articles (News Paper/ Magazines)		15	-	No	No	-	-
	Seminar / Conference/	National	16	-	No	No	-	-
	Symposia organized	International	17	-	No	No	-	-
	Seminar / Conference/	National	18	-	No	-	-	-
	Symposia attended	International	19	-	No	-	-	-
	Conference Proceedings		20	-	No	-	-	-
	Consultancy		21	_	No	No	_	_
	Applied		22	-	No	No	-	-
(C)	Published		23	-	No	No	-	-
Patent	Granted		24	-	No	No	-	-
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	-	No	Yes	-	-
	Teaching /Extension /outreach activities		26	Yes	Yes	Yes	Yes	Yes
	Responsibilities other than teaching		27	Yes	Yes	Yes	Yes	Yes
(E) Any Other	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	Yes	No	_	-	-
	Collaborations	National	29	2	No	3	_	-
		International	30	1	No	1	-	1_

DEPARTMENT OF STATISTICS

Head: Dr. S. K Jha **Telephone:** +91-364-272 2901/2902

E-mail: hodsta@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
Professor	Dr. T. K. Chakrabarty	Time Series Analysis, Statistical
	M. Stat. (Agra Univ.), Ph. D.	Demography and Health
	(Manipur Univ.)	Analytics
Associate	S. K. Jha	Probability Distribution, Spatial
Professor	M. Sc. (Stat) & Ph. D. (all Patna	Statistics
	Univ.)	
Assistant	B. Das	Distribution Theory,
Professor	M. Sc. & Ph. D. (Gauhati Univ.)	Environmental Statistics,
		Actuarial Statistics

Thrust Areas of Research

Distribution Theory, Modelling with quantile functions, Spatial Statistics, Event History and life course data analysis, Demography, Poverty & Human Development.

Brief Statement of Academic Activities and Achievements

The Department is offering Master of Science in Statistics under CBCS and NEP-2020 syllabi as well as Ph.D. programmes. Having been supported by the FIST programme of DST, Government of India, it has three laboratories with stable power back up, internet connectivity and softwares such as

STATA, SPSS, R, S-PLUS, SYSTAT, MINITAB, MATLAB and Ms-Office. Students are exposed to modern computational techniques and hands on training with the statistical software 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 Ph.D. course work. All the faculty members are actively engaged in research in the eminent field 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.)

	Ger	Gen		ST		SC		OBC		EWS		D	TOTAL	
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	1	1	-	-	-	-	-	-	-	-	-	1	1
Manipur	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Meghalaya	1	-	9	8	-	-	-	-	-	-	-	-	10	8
Mizoram	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Nagaland	-	-	1	2	-	-	-	-	-	-	-	-	1	2
Total	2		24	I	-		-	I	-		-	1	26	ı

> Enrolment of students from different States of India and Abroad (Ph.D.)

	Ge				SC		OBC		EWS		PWD		TOTAL	
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Mizoram	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Total	-	-	2	2		-		-		-		-		

Degrees Awarded

> M. Sc.: 25, Ph.D.: 02

> Degrees Awarded to students from different States of India and Abroad (M. Sc.)

	Gen	Gen		ST		SC		OBC		EWS		PWD		TAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Pradesh														
Meghalaya	-	-	4	9	-	-	-	-	-	-	-	-	4	9
Mizoram	-	-	4	3	-	-	-	-	-	-	-	-	4	3
Nagaland	-	-	-	4	-	-	-	-	-	-	-	-	-	4
Total	-		25		-		-		-		-		25	

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC	7	EWS	5	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Bihar	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Uttarakhand	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	2		-		=		=		=		-		2	

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Mr. Vikash Kumar	A Study of Population Projection Methods with Reference to India	Dr. B. K Gupt
Ms. Sunita Sajwan	A Study of Life Table Techniques Through Disability-Free Life Expectancy in India with Applications	Prof. R. Singh

Placement of Students

Name of the Student(s)	Organization	Place of Work
Ms. Elarica Langstieh	Indian Postal Service	Langtor B.O. Mairang.
Mr. Banseilang Rynjah	IIPHS (Data Manager)	Shillong.
Ms. Airihun Swer	Data Monitoring and Documentation Officer (DMDO)	Meghalaya Aids Control Society (MACS), Shillong.
Ms. Betkidaphi Banylla Toi	NEIGRIHMS (Statistician)	Shillong.

Mr. Mihplibiang Papeng	Clear Water Higher Secondary	Shangpung.
Ms. Sophia Monica Basaiawmoit	St. Peter's School	Maryland
Mr. Armiki Pde	Mustem SSA UP & RMSA Secondary School	Mustem.

Students Selected for Higher Studies

Name of the Student(s)	Name of the Programme	Institution/Organization
Ms. Magrisha Namsaw	Ph.D.	Department of Statistics, NEHU
Mr. Hmingtansanga	Ph. D	Department of Statistics, NEHU

Research Fellowship

CSIR-UGC- NET	UGC Non- Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others
-	9	-	-	-	-

Courses Conducted

> Postgraduate – M. Sc. (Statistics)

Semester I: (a) <u>Under NEP-2020</u>: Probability Theory & Stochastic Processes, Distribution Theory & Matrix Analysis, Statistical Computing Using R, Practical I: Distribution Theory (Section A), Matrics Algebra (Section B), Statistical Analysis of Data for Natural Sciences; (b) <u>Under CBCS</u>: Mathematical Analysis and Linear Algebra, Distribution Theory, Probability Theory, Practical I: Statistical Computing in R, Practical II: Distribution and Linear Algebra.

Semester II: (a) <u>Under NEP-2020</u>: Sample Survey and Estimation theory, Linear Models & Design of Experiment, Statistics for Sustainable Development, Applied Multivariate Analysis, Research Methodology & Proposal Writing, Practical - II; (b) <u>Under CBCS</u>: Survey Sample, Statistical Inference I, Linear Models and Regression Analysis, Poverty Human Development and Environment Statistics, Practical III: Sampling, Inference I and Regression.

Semester III: <u>Under CBCS</u>: Design and Analysis of Experiments, Statistical Inference

II, Econometric, Stochastic Processes, Practical III: Design, Inference II and Econometrics,

Semester-IV: <u>Under CBCS</u>: 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

> MPhil/PhD Courses

Research and Publication Ethics; Research Methodology in Statistics; Statistical Modeling; Bayesian Inference and Analysis.

Publications

> Research papers (02)

1. Chettri, U., Chakrabarty, T.K, Joshi, S.R.,(2022), Pollution index assessment of surface water and sediment quality within reference to heavy metals in Teesta River in Eastern Himalaya Range, India. Environ. Nanotechol. Monit. Manag. 18, 100742.https://doi.org/ 10.1016/j.enmm.2022, 1000742.

2. Chetri, S.; Das, B.; Imliyangba and Hazarika, P. (2022); A generalised form of power transformation on exponential family of distribution with properties and applications. Pakistan Journal of Statistics and Operation Research. 18(3); 511-535.

1. Chakrabarty, T.K. (2023). Statistical Tests of Research Hypotheses, in Research Methodology, S. Khyriemmujat, B.M. Laloo, and S. Khongwit (Eds), EBh Publishers (India), Guwahati: ISBN: 978-93-92038-23-5, Chapter – 6, pp 68-84.

➤ Book Chapter (01)

Funds received during current year

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

Sr. No.	Funding Agency	Amount (Rs. In Lakhs),
01	NEHU	1.0

Seminar/Conference/Symposium/Extension Programme etc.

Dr. B. Das

1. Presented paper entitled "Discretized version of generalised Gompertz distribution with application to real life data" at International Conference on Statistics, Probability, Data Science and Related Areas held during 4th -6th January, 2023 at Department of Statistics, Cochin University of Science and Technology.

Honours/Awards/Recognition/Membership/Fe llowship

Dr. B. Das

- 1. Life member of Indian society for probability and Statistics (ISPS)
- 2. Life member of Society for training and development (ISTD).

Other Activities

Dr. T. K. Chakrabarty

1. Delivered a lecture on "Basic Statistical Analysis using R software" on September 27, 2022 in the "Short Course in Statistical Analysis using various software" held during 21-27 September, 2022 in HRDC, NEHU.

Dr. B. Das

- 1. Attended 1(one) week National Workshop on Trends in Teaching Learning, Institution Building and Innovations at Higher Educational Institution organised by Teachers Unit, Nanda Nath Saikia College, Titabor, Assam in collaboration with IQAC, Nanda Nath Saikia College, Titabor, Assam from 22nd to 27th June, 2021.
- 2. Attended UGC-Approved Short-Term Professional Development Programme under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching from 7th to 15th October 2022 Organised by IGNOU.
- 3. Reviewer of (i) Sankhya (Indian Journal of Statistics); (ii) Mathematical Forum.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1^{ST} APRIL 2022 TO 31^{ST} MARCH 2023

Details of Faculties	Name		1	Prof. T. K Chakrabarty	Dr. Sanjeeva Kumar Jha	Dr. Bhanita Das
	Date of Joining		2	1st Feb, 2006	23 August, 1997	17th April, 2013
	Field of specialisation		3	Quantile Modelling, Time Series Analysis & Forecasting, Statistical Demography & Health Analysis	Probability Distributio n, Spatial Statics	Distribution Theory, Environmental Statistics and Actuarial Statistics
(A)	UG		4	No	10	No
Teaching Experience (in Years)	PG, including PhD		5	35	26	10
	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	Group I	11	No	No	1
	UGC care list journals	Group II	12	1	No	No
	Books /Books chapters	Books	13	No	No	No
(B) Research	Published	Book Chapters	14	1	No	No
activities	Popular Articles (News Paper/ Magazines)		15	No	No	No
	Seminar / Conference/	National	16	No	No	No
	Symposia organized	International	17	No	No	No
	Seminar / Conference/	National	18	No	No	No
	Symposia attended	International	19	No	No	1
	Conference Proceedings		20	No	No	2
	Consultancy		21	No	No	No
	Applied		22	No	No	No
(C)	Published		23	No	No	No
Patent	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	Yes
	Responsibilities other than teaching		27	Yes	Yes	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	No	Yes
		National	29	No	No	Yes
	Collaborations	International	30	No	No	No

VII. SCHOOL OF SOCIAL SCIENCES

Dean:	DEPARTMENTS UNDER THE SCHOOL
Prof. K. Debbarma E-mail: deansss@nehu.ac.in Telephone: +91-364-272-3001	 Department of Cultural and Creative Studies Department of History and Archaeology Department of History Department of Law Department of Political Science Department of Sociology

1. Vision and Mission of the School

Vision: Vision of the School of Social Sciences is to engage with the body knowledge of North East India and to disseminate research and create awareness about the region both at the national and international levels.

Mission: Promote awareness of societal issues in North East, carry our research in untouched areas thereby enhance the body of knowledge of North East India. Society, Polity, diversity of North East India was not well-known in other parts of country. The School of Social Sciences sought to impart, education, spread knowledge, and create an awareness through both teaching and research.

2. Major Achievements/Highlights

- (i) During the last year 2022-23, all departments under the school have devised Syllabus for Master's Programme as per NEP 2020.
- (ii) The Departments of History and Political Sciences have conducted Refreshers Courses during the year 2022-23.

3. Salient Data of the School [2022-2023]

Number of Students awarded Ph.D. Degree	22
Number of Research Publications	15
Number of Books, Book Chapters, and Proceedings	41
Number of Research Projects (Fund Received)	
Completed	NIL
On-going On-going	NIL
New (2)	22.9 Lakhs
Number of Consultancy Projects (Fund Received)	
National	NIL
International	NIL
Number of Students Placed	07
Number of Students Selected for Higher Studies	15

Total Number of Patents	
Filed	NIL
Published	NIL
Granted	NIL
Policy Documents: Status (Name of the Agency) and Nur	nber
(i) Applied	NIL
(ii) Approved	NIL

DEPARTMENT OF CULTURAL AND CREATIVE STUDIES

Head: Prof. Desmond L. Kharmawphlang **Telephone:** +91 – 364 2723374/3371/3372

E-mail: hodccs@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
Professor	Dr.Desmond L. Kharmawphlang, Ph.D. (NEHU)	Folkloristics
1 1 0168801	Dr.Subrat Kumar Nanda, Ph.D. (JNU)	Folkloristics
Associate Professor	Dr.LapynshaiSyiem, Ph.D. (NEHU)	Music
Assistant Professor	BedantaKalita, M.F.A. (M S Univ. of Baroda)	Painting

Thrust Areas of Research

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 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 fulltime 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 (PG Courses) M.A. (Folkloristics)

	Ger	1	ST		SC		OB	С	EW	S	PWD)	TOT	ΓAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Maharashtra	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Meghalaya	-	-	1	3	-	-	-	-	-	-	-	-	1	3
Mizoram	-	-	1		-	-	-	-	-	-	-	-	1	
Sub Total	1	-	2	3	-	-	-	-	-	-	-	-	3	3
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	1	•	5	•	-		-		-		-		6	

P.G. Diploma (Music)

	Gen		ST		SC		OBC	7	EWS	5	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	3	1	-	-	-	-	-	-	-	-	3	1
Sub Total	-	-	3	1	-	-	-	-	-	-	-	-	3	1
Total	-		4		-		-		-		-		4	

P.G. Diploma (Painting)

	Gen		ST		SC		OBC	7	EWS	S	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	7	1	-	-	-	-	-	-	-	-	7	1
Sub Total	-	-	7	1	-	-	-	-	-	-	-	-	7	1
Total	-		-		-		-		-		-		8	

Enrolment of students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC	1	EWS	5	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Meghalaya	-	-		2	-	-	-	-	-	-	-	-	-	2
Nagaland	-	-		1	-	-	-	-	-	-	-	-	-	1
Sub Total	-	-		3	-	-	-	-	-	-	-	-	1	3
International	•	-	1	3	-	-	-	-	-	-	-	-	-	_
Total	-	•	-	•		•			-		-		-	

Degrees Awarded

> Degree: M. A./Diploma

Degrees Awarded to students from different States of India and Abroad (M.A. in Folkloristics)

	Gen		ST		SC		OBO	C	EW	S	PWD	1	TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh		-	-	1	-	-	-	-	-	-	-	-	-	1
Kerala	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Meghalaya	-	-	5	12	-	-	-	-	-	-	-	-	5	12
Mizoram	-	-	1	1	-	-	-	-	-	-	-	-	1	1
Sub Total	1	-	6	14	-	-	-	-	-	-	-	-	7	14
Total	1		20		-		-		_		-		-	

Degrees Awarded to students from different States of India and Abroad (P.G. Diploma in Music)

	Gen		ST		SC		OBC	7	EWS	S	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	7	6	-	-	-	-	-	-	-	-	7	6
Sub Total	-	-	7	6	-	-	-	-	-	-	-	-	7	6
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-		-		-		_		-		-		-	

Degrees Awarded to students from different States of India and Abroad (P.G. Diploma in Painting)

	Gen	1	ST		SC		OBO		EW	S	PWD		TOT	AL
STATES	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	-		-		-		-		-		-		-	

Placement of Students

Name of the Student(s)	Organization	Place of Work
LeewankiKhongiong	Meghalaya Administrative	Government of Meghalaya
	Training Institute	

P. G. Diploma (Music)

DerephilinKharsyiemiong	Church of God L.P. School	Mawlyngthoh, Sohiong, E K Hills
LarishaThangkhiew	Sanshnong Secondary School	Lummawbah, Shillong

Courses Conducted

> Postgraduate

M. A. (Folkloristics)

Semester-I: Introduction to Folkloristics Folklore Theories Introduction to Semiotics Folklore of Northeast India-I Media and Folklore

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) Enamel Painting in Glazing Technique (Practical) Drawing and Colour Application (Practical) Sculpture (Practical) 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).

Pattern of Music of Meghalaya (Theory),

Proficiency

(Practical).

(Theory).

Semester-II:

> Ph. D. Course Research Methodology, Recent Trends in

Semester-I: Indian Classical Music-I (Theory)

General Musical Terms (Theory) Indian Classical

Music-II (Practical) Western Musical (Staff)

Notation (Practical) Art, Aesthetics and Music

Instruments (Theory); Songs of Meghalaya

(Practical); Rhythmic Pattern of Music of

Meghalaya (Practical), Concept of Rhythmic

of

Musical

Selected

Musical

Instruments

Study

Western

Folkloristics, Advanced Course in Performing

Publications

> Book Chapters (02)

- 1. Kharmawphlang, Desmond L., (2021). Emic Perspective in Vernacular Religion: Some Khasi Paradigms. Cecile A. Mawlong and Tejimala Gurung, Religion and Society in Northeast India. DVS Publishers.
- 2. Kharmawphlang, Desmond L., (2023). Oral Narratives. Jelle J.P. Wouters and Tanka B. Subba, The Routledge Companion to Northeast India. Routledge Taylor & Francis Group.

Funds received during 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 lakh (Annual Budget
		Allocation)

Seminar/Conference/Symposium/Extension Programme etc.

Prof. Desmond L. Kharmawphlang

1. 8th April 2022: Tales of the Tigerman: Locating the Heart of the Sacred Forests of the Khasis of

Meghalaya - Plenary Speaker - International Interdisciplinary Conference on Literatures Environment and climate change organised by Rajiv Gandhi National University of Law, Punjab in collaboration with Punjab Pollution Control

- Board, Shastri Indo-Canadian Institute, New Delhi and Don Bosco University, Assam.
- 8th August 2022: Promotion of Indigenous knowledge System organised by the UGC HRDC cell National Webinar on New E.P. 2020
- 3. 23rd August 2022: Between Lips: Poetry of Telling Identity in the International Capacity Building Programme organised by Rajiv Gandhi National University of Law, Punjab, Mary Immaculate College, University of Limerick, Ireland and Manipal University, Jaipur.
- 4. 15th September 2022: STC in Gender Sensitization.
- 5. 19th September 2022: Bordelens Rethinking Livelihoods, security and Connectivity in the digital age.
- 21st October 2022: Sankar Dev College representation of Tradition, Memory and Culture through the Oral Epic.
- 7. 28th October 2022: The importance of Khasi Folktales and Khasi Folk Music Arts and Culture Department.

- 8. 17th November: CROSSING BOUNDARIES INNOVATIONS FOR A MULTILINGUAL ENVIRONMENT: International Workshop and Symposium organised by the Goethe Institute: TOTPIC: ORAL EPIC PERFORMANCE:
- 9. 16th December: Translation Theory and Practice Online Refresher Course organised by TU.

MEMORY, RECOVERY, DELIVERY.

10. 1st March 2023: Folklore and HM – RC on TIKS organised by UGC-HRDC, Gauhati University

Other Activities

Prof. Desmond L. Kharmawphlang

- 22nd August 2022: organised World Folklore Day

 exhibition of Painting, sculpture and prints.
- 2. 21st October 2022: organised Ode to Autumn programme held on at NEHU Community Hall, NEHU, Shillong.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

		LET FOR THE		DEMIC YEAR 181			
Details of Faculties	Name		1	Prof. Desmond L. Kharmawphlang	Prof.Subrat Kumar Nanda	Dr. (Mrs) Lapynshai Syiem	Mr. Bedanta Kalita
	Date of Joining		2	07.05.1988	10.12.1988	April 2002	11.06.2009
	Field of		3	Folklore	Sociology	Music (Khasi	Art History
	specialisation					Traditional)	,
(A)	UG		4				
Teaching	PG, including		5	35	35	21	11
Experienc	PhD						
e (in							
Years)							
	Basic Research		6	Yes	Yes	Yes	Yes
	Applied		7	-	-	-	-
	Research						
	Action Research		8	-	-	-	-
	Project		9	-	-	-	-
	Submitted						
	Ongoing Project		10	-	-	-	-
	Research Paper	Group I	11	-	-	-	-
(B)	in UGC care list	Group II	12	-	-	-	-
(b) Research	journals	D 1	1.0				
activities	Books /Books	Books	13	-	-	-	-
activities	chapters	Book	14	-	-	-	-
	Published	Chapters					
	Popular Articles		15	-	-	-	-
	(News Paper/						
	Magazines)	37.7	1.6				
	Seminar /	National	16	-	-	-	-
	Conference/	International	17	-	-	-	-
	Symposia						
	organized	NI-4:1	10				
	Seminar / Conference/	National	18 19	-	-	-	-
	Symposia	International	19	-	-	-	-
	attended						
	Conference		20	_	-	-	_
	Proceedings		20	_	_	-	-
	Consultancy		21	-	-	-	_
(C)	Applied		22	_	-	-	_
Patent	1.1					_	
1 atent	Published		23	-	-	-	-
	Granted		24				
(D)			25	-	-	-	-
(D)	MOOC/SWAY AM/ E-content		25	-	-	-	-
E-Content							
	developed		26				
	Teaching		26	-	-	-	-
	/Extension /outreach						
	activities						
(E)	Responsibilities		27	_	_	_	_
(E) Any Other	other than		21	_	-	-	-
Any Onici	teaching						
	Awards/		28	_	_	_	_
	Honours/		20	<u> </u>	[-	1-	1 -
	Recognition/						
	Membership/						
	Fellowship						
	Collaborations	National	29	_	_	_	_
	Conaborations	International	30		1		
	<u> </u>	michianonal	30	-	-	-	-

DEPARTMENT OF HISTORY AND ARCHAEOLOGY (TURA CAMPUS)

Head: **Dr. Tilok Thakuria** Telephone: +91 - 9127422780

E-mail: hodhash@nehu.ac.in.

Faculty Profile

Designation	Name and Qualification	Specialization
	Dr. Tilok Thakuria, Ph.D	Proto-History, Ethno-Archaeology,
	(DCPRI)	Archaeology of Paleo- adornment,
Assistant		Archaeology and Culture of Northeast
Professor		India.
	Dr. Doneti Sivaji, Ph.D	Business History, Studies on
	(HCU)	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 provides both theoretical and practical training to Post Graduate students as part of teaching and training within stipulated time. In Addition to these, the department also arranges field trips to archaeological and historical sites for training in documentation of archaeological sites. Besides these, the faculty members often make visits to local historical and archaeological places to gather information on related areas.

Students' Profile

> Enrolment Capacity: M.A: 30, PhD: Variable

> Enrolment of students from different States of India and Abroad

	Gen		ST		SC		OBC	7	EWS	8	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	2		4	-	-	-	-	-	-	-	-	2	4
Meghalaya	-	-	9	42	-	-	-	-	-	-	-	-	9	42
Nagaland	-	-	-	1	-	-	-	-	-	-	-	-	-	-
West Bengal	1	-	-	-	-	-	-	-	-	-	-	-	1	_
Total	3	•	56	•	-	•	-	•	-	•	-	•	-	•

Degrees Awarded

➤ M. A.: 28

Degrees Awarded to students from different States of India and Abroad (M. A.)

	Gen		ST		SC		OBC	7	EWS	5	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Meghalaya	-	-	11	6	-	-	-	-	-	-	-	-	-	-
Nagaland	-	-	3	7	-	-	-	-	-	-	-	-	-	-
Sub Total	-	-	15	13	-	-	-	-	-	-	-	-	-	-
Total	-		-		-		-		-		-		28	

Research Fellowship

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

Field Work/Educational Tour of Students

Teacher-in-Charge: Dr. Tilok Thakuria

Places/Institutions Visited: Bhubaneswar and

Kolkata

Duration of Tour (Dates and number of days):

5th Feb to 15th February, 2023 (10 days)

Purpose of Tour: To give orientation about ancient Indian Art and Architecture to the students

Courses Conducted

> Postgraduate (M. A.)

Semester I (NEP - 2020): Introduction to Archaeology; Social and Polity Formation in Ancient India; Ancient History and Archaeology of Northeast India; State and Society in Medieval India; Multi-Disciplinary Approaches in History and Archaeology.

Semester II: Pre-History of South Asia; Making of Modern India; Ancient Civilizations; Western World, RM History, Theory and Methods, Computer and Digital Learning in History and Archaeology.

Semester III: Theory, Methods and Trends in writing History in India; National Movement and After; Proto historic Cultures of India; Introduction to Indian Architecture, Numismatics

and Epigraphy; Introduction to Ethno Archaeology; Historical Archaeology of Indian Subcontinent; Field Methods in History and Archaeology; Business History of India, Environmental History of India; History of Northeast India.

Semester-IV: Dissertation.

> PhD Courses

Research methodology, Oral traditions, Reading in History and Archaeology, Research and Publication Ethics

Publications

> Research papers (3)

- 1. Mitri, M, . Jamir, T, Mepusangba, Syiemlieh, H, Thakuria, T., Darnei, H, and Kharpuri, L (2022). Recent research on the stone jars of Northeast India: Evidence from East Jaintia Hills of Meghalaya. *Archaeological Research in Asia* 31:1-1
- 2. Singh, S. S., Jamir, T., and Thakuria, T. (2022). Preliminary Investigation on the Stone Jar Sites at Dubungling, Dima-Hasao District, Assam. *Puratattva* 52:53-65
- 3. Doneti, S. and Tarang, T. (2022). Sacred Waterscape: Traditional Method of Protection and

Conservation of Water Resources. *Bhava Veena*: 19 (12): 94-103

Edited Books/Volumes (1)

1. Sivaji, D. and Rao, S. S. (2022). *Position of Dalit's: Past and Present*. Desh Vikas Publications, Visakhapatnam, ISBN: 9788193801918

Funds received during current year

> Book Chapters (1)

1. Thakuria, T. (2022). The Stone Jars of Southeast Asia and Northeast India: Problems and Prospects. In *Megaliths of the World*. L. Laporte, J. M. Large, L. Nespoulous, C. Scarre and T. Steimer-Herbet (Eds.). Aarchaeopress, Oxford, ISBN 9781803273204

(A) EMR Research Projects to individual faculty members:

Title of Project (Total outlay in Lakhs)	Current Status (New /on- going/ completed)	Name of Investigator (Pl/Co-Pl)	Multi/Singl e Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Neolithic dynamics in Northeast India: New perspectives on the sites of West Garo Hills	New	Dr. M. Wunderlich (PI), Prof. Tjamir (Co-PI) Porf. H. Piezonka (Co-PI), Dr. T. Thakuria (Co-PI)	Multi (2022- 2025)	Gerda Henkel Foundation, Germany	INR 21.90 L

Seminar/Conference/Symposium/Extension Programme etc.

> Organized

1. "International symposium on Heritage and Social Responsibility", organised by Dr. Tilok Thakuria at NEHU, Tura Campus on 22nd November 2022.

> Attended

1. Thakuria, T. "Archaeology in Northeast India". Presented a paper in international workshop on Scientific Applications in South Asian Archaeology, organised by SASAA, BSIPS and Nagaland University at Kohima from 9th to 10th December 2022.

- 2. Thakuria, T., Chauley, M., Jamir³, T., Bathari, U. and Skopal 2022. "Archaeological Survey of the Stone Jars of Assam", Paper presented in the 22nd Congress of Indo-Pacific Prehistory Association held at Chianmai, Thailand 6th to 12th November 2022.
- 3. Thakuria, T. 2022. "Archaeology of Dima-Hasao with special reference to Stone jars", Paper presented in International Seminar on Archaeological Heritage of India &its Cross-Cultural ties with Southeast Asia organised by Directorate of Archaeology, Govt of Assam held at Haflong from 19th to 21st November 2022.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2021 TO 31ST MARCH 2023

Details of	Name		1	Tilok Thakuria	Doneti Sivaji
Faculties	Date of Joining		2	2/7/2012	5/7/2012
	Field of specialisation		3	Archaeology	History
(A)	UG		4		
Teaching Experience	PG, including PhD		5	11 years	11 Years
(in Years)					
	Basic Research		6	Yes	Yes
	Applied Research		7	-	-
	Action Research		8	-	-
	Project Submitted		9	-	-
	Ongoing Project		10	1	-
	Research Paper in	Group I	11	1	1
	UGC care list journals	Group II	12	1	-
	Books /Books chapters	Books	13		1
(D)	Published	Book Chapters	14	1	-
(B) Research	Popular Articles (News Paper/ Magazines)		15	-	-
activities	Seminar / Conference/	National	16	-	-
	Symposia organized	International	17	-	-
	Seminar / Conference/	National	18	1	-
	Symposia attended	International	19	2	-
	Conference Proceedings		20	-	-
	Consultancy		21	-	_
	Applied		22	-	-
(C)	Published		23	-	-
Patent	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	-
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	-	-
	Collaborations	National	29	-	-
		International	30	-	-

DEPARTMENT OF HISTORY

Head: Prof. C.A. Mawlong **Telephone:** +91-364-272 3019/3020

E-mail: hodhis@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
	Dr. F.A. Qadri, M.Phil & Ph.D. (AMU)	Medieval Indian History & Northeast India
	Dr. C.A. Mawlong, PGDA (Institute of	Archaeology & Prehistory of
	Archaeology, New Delhi & Ph.D., NEHU)	Northeast India
	Dr. T. Gurung Nag, M.Phil. & Ph.D.	Modern Indian History &
Professor	(NEHU)	Northeast India
	Dr. Amrendra Kumar Thakur, M.A. &	Medieval Indian History &
	Ph.D. (BU, Muzaffarpur)	Northeast India
	Dr. V.R. Rengsi, M.Phil. & Ph.D. (NEHU)	History of Sciences & Non-
	DI. V.K. Kengsi, W.i iiii. & Th.D. (NEITO)	Indian History
	Dr. S.N. Lamare, M.Phil. & Ph.D.	Modern Indian History &
	(NEHU)	Modern Northeast India
	Dr. A. Passah, M.Phil. & Ph.D. (NEHU)	History of South East Asia &
	DI. A. I assaii, W.I iiii. & I ii.D. (NEITO)	Modern Northeast India
	Dr. M.S.N. Rahman, M. A. & Ph.D. (Calcutta University)	Medieval Indian History
	Dr. Aparna Mathur, M.A. & Ph.D. (M.J.P.	Ancient Indian History,
	Rohilkhand University)	Culture& Archaeology.
Assistant	Dr. B. Dutta, M.A. & Ph.D. (NEHU)	Modern Indian History
Professor		j

Thrust Areas of Research

The Department's thrust area is Northeast India.

Brief Statement of Academic Activities and Achievements

During the period under review, faculty members of the Department were involved in 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 conducted UGC-HRDC-NEHU Refresher Course in History 24th November to 7th December 2022 on the theme - An Interdisciplinary Approach to the Study of the History of North-East India- Prospects and Challenges.

Students' Profile

- > Enrolment Capacity: M.A. 52, Ph.D. Variable
- > Enrolment of students from different States of India and Abroad (M. A.)

	Gen		ST		SC		OB	С	EW	S	PWD)	TOT	ΓAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	2	2	1	1	-	-	-	-	-	1	-	-	3	4
Arunachal	-	-	1	2	-	-	-	-	-	-	-	-	1	2
Meghalaya	-	-	12	14	-	-	-	-	-	-	-	-	12	14
Manipur	-	-	5	3	-	-	-	-	-	-	-	-	5	3
Mizoram	-	-	4	2	-	-	-	-	-	-	-	-	4	2
Nagaland	-	-	-	2	-	-	-	-	-	-	-	-	-	2
Total	04		47		-		-		-		-		-	

> Enrolment of students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBO		EWS	S	PWD		TOT	AL
STATE	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	3	-	-	-	-	-	-	-	-	-	-	-	3
Arunachal	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Bihar	-	1	-		-	-	-	-	-	-	-	-	-	1
Meghalaya	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Manipur	-	-	1		-	-	-	-	-	-	-	-	1	-
Total	4		6	•	-	•	-		-		-		-	•

Degrees Awarded

> M.A.: 52, Ph.D.: 06

> Degrees Awarded to students from different States of India and Abroad (M. A.)

	Gen		ST		SC		OB	C	\mathbf{EW}	\mathbf{S}	PWI)	TOT	TAL
STATE	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	3	1	-	1	-	-	-	-	-	2	-	-	3	4
Arunachal	-	-	-	1	-	-	-	-	-	-	-	-	_	1
Meghalaya	-	-	7	18	-	-	-	-	-	-	-	-	7	18
Manipur	-	-	2	4	-	-	-	-	-	-	-	-	2	4
Mizoram	-	-		4	-	-	-	-	-	-	-	-	_	4
Nagaland	1		2	5	-	-	-	-	-	-	-	-	3	5
Tripura			1		-	-	-	-	-	-	-	-	01	-
Total	5	•	45	•	-	•	-	•	02	•	-	•	52	•

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBO		EWS	5	PWD		TOT	TAL
STATE	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Meghalaya	-	-	1	3	-	-	-	-	-	-	-	-	1	3
Kashmir	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Sub Total	2	-	1	3	-	-	-	-	-	-	-	-	3	3
Total	2	-	4		-	-	-	-	-	-	-	-	-	•

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Ms. Faith Elwin Kharbuli	Partition Histories and North-East India: A Study of the Hill Areas of Composite Assam and Tripura (1947-1971)	Dr. B. Dutta
Mr. Kerlihok Lyngdoh Buam	Role of Women in the Khasi-Jaintia Economy (19 th – 20 th Centuries)	Prof. A.N. Passah

Mr. Shafi Ahmad	Peasant and State: A Study of Peasant	Prof. A.K. Thakur
Khanday	Consciousness and Peasant Resistance in	
	Kashmir (1846-1947)	
Ms. Babhador	Buddhism and Trade in Northeast India	Prof. A.K. Thakur
Khongdup		
Ms. Marhunlang	Khasi Films: A Study in Social History	Prof. A.N. Passah
Kharwanlang		
Mr. Kaushik	History and Cinema: Ideologies,	Dr. B. Dutta
Thakur Bhuyan	Sensibilities, and Popular Culture in Assam	
·	(1935-1995)	

Placement of Students

Name of the Student(s)	Organization	Place of Work
Dr. Faith Elwin Kharbuli	K.L.Bajoria College	Shillong
Dr. Babhador Khongdup	Shillong College	Shillong.
Ms. Sweety Lyngdoh Mawlong	Synod College	Ri-Bhoi
Dr. Kaushik Thakur Bhuyan	Royal Global University	Guwahati.

Students Selected for Higher Studies

Name of the Student(s)	Name of the Programme	Institution/Organization
Darisha Lyngdoh	Ph.D.	NEHU
Sumi Das	Ph.D.	NEHU
Wingamraibou Abonmai	Ph.D.	NEHU
Chamdam Tungkhang	Ph.D.	NEHU
L. Shilei Leima Singha	Ph.D.	NEHU

Research Fellowship

CSIR-UGC- NET (JRF)	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	ICSSR
01	34	01			02

Field Work/Educational Tour of Students

Teacher-in-Charge: Prof. Aparna Mathur **Places/Institutions Visited:** Delhi, Jaisalmer **Duration of Tour (Dates and number of days):** 14 days from 12.12.2022 to 25.12.2022.

Purpose of Tour: The places have rich historical importance for the students of ancient, medieval and modern histories including archaeology. It is important for them to see for themselves the

historical heritage of India which they otherwise only read about in books.

Courses Conducted

> Postgraduate – M. A. (History)

Semester I (NEP-2020): Prehistoric to Ancient Societies, Feudalism, Society and Economy in Pre-Modern India, Colonialism in Southeast Asia, Ecology and History.

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 Greaco 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; Political History of the Mughal Empire; Contemporary India.

> Ph.D. Courses

Research Methodology, History and Theory, Critical Readings in History (Seminar Paper), Research and Publication Ethics.

Publications

> Research Papers (03)

- 1. Mawlong, Cecile A., (2022) Anti-Colonial Resistance in Meghalaya: Reclaiming the Unsung Heroes/Heroine of the Seng Khasi of the Pre-Independence Period In *Man and Society* (Special Issue), Vol. XX, (Special Issue): 1-30.
- 2. Mawlong, Cecile A., (2023) Decoding Megalithic Traditions of Select Tribes of Northeast India In *The Heritage*, Vol.-XIV, Issue-1, Guwahati:20-31.
- 3. Dutta, B. (2022) The Forgotten Marginals: Recovering Indigenous Heroes of Indian Freedom Struggle. *Man and Society*. 20(Special Issue):79-96.

Edited Books/Volumes (03)

1. Mawlong, Cecile A. and Tejimala Gurung, editors. (2022) *Religion and Society in Northeast*

- *India: An Interface.* DVS Publishers, Guwahati: Delhi, ISBN: 978-93-85839-68-9.
- 2. Mawlong, Cecile A., guest editor. (2022) *Man and Society* on the theme "Celebrating 75 with the forgotten Heroes: The North East Experience" ISBN: 978-93-85839-68-9.
- 3. Thakur, Amrendra Kumar, co-author cum editor. (2023). *Slavery and Servitude in Precolonial Northeast India*. Eastern Book House Publishers (India), Guwahati, ISBN: 978 93 92038 05 1.

Book Chapters (18)

- 1. Mawlong, Cecile A., (2022) Kinship, Religion and Gender in Matrilineal Khasi-Jaintia Society In *Religion and Society in Northeast India: An Interface*Cecile A. Mawlong and Tejimala Gurung (Eds.). DVS Publishers, Guwahati, Chapter 4, pp 58 -79.
- Gurung, T., (2022) 'Healing Bodies and Saving Souls': The Medical Work of the American Baptist Mission in Colonial Assam (1836-1950). In *Religion and Society in Northeast India: An Interface*, C. A. Mawlong and T. Gurung (Eds.) D.V.S. Publishers. Guwahati: Delhi. ISBN:978-93-85839-68-9, pp 190-211.
- 3. Gurung, T., (2023) Gendered Mission: The *Zenana* Work of the American Baptist Mission in Assam (1836-1950). In *Encounter and Interventions: Christian Missionaries in Colonial North-East India*, S. Nag and S. Kumar (Eds.) Manohar Publications, New Delhi, ISBN 978-93-91928-02-5, Chapter, pp. 609-643
- 4. Gurung, T. (2023) Frontier Tribes and the Mughals in the Eighteenth Century. In *The Mughals and The North-East: Encounter and Assimilation in Medieval India*, Sajal Nag (Ed.)Manohar Publications, New Delhi, ISBN 978-93-91928-02-5, Chapter 10, pp.243-268
- Gurung Nag, T., (2023) U Thlen -The Snake Vampire: Belief and Practice among the Khasi. In Black Magic, Witchcraft and Occultism: Secret Cultural Practices in India, Sajal Nag (Ed.)Manohar Publications, New Delhi, ISBN 978-93-91928-02-5, Chapter 8, pp.157-177

- 6. Thakur, Amrendra Kumar. (2023). Re-reading Iron in Northeast India: Beyond Nationalist and Communal Approaches. In Arun Kumar Jha and Seema Sahay (Eds.), *Aspects of Science and Technology in Ancient India*, Routledge, London, and New York, 2023, ISBN 978-1-032-24859-2, Chapter 3 pp.33-51, DOI 10.4324/9781003370642.
- 7. Thakur, Amrendra Kumar. (2023). *Bawi/Boi* and *Sal* in Mizoram. In Thakur, Amrendra Kumar (Ed.). *Slavery and Servitude in Precolonial Northeast India*. Eastern Book House Publishers (India), Guwahati, ISBN: 978 93 92038 05 1, Chapter 8pp. 132-150.
- 8. Thakur, Amrendra Kumar. (2023). Women Slaves in Northeast India: A Study.In Thakur, Amrendra Kumar (Ed.). *Slavery and Servitude in Precolonial Northeast India*. Eastern Book House Publishers (India), Guwahati, ISBN: 978 93 92038 05 1Chapter 2,pp. 47-63. In association with Dr. Laithangpuii.
- 9. Thakur, Amrendra Kumar. (2023). Introduction. In Thakur, Amrendra Kumar (Ed.). *Slavery and Servitude in Precolonial Northeast India*. Eastern Book House Publishers (India), Guwahati, ISBN: 978 93 92038 05 1.
- 10. Thakur, Amrendra Kumar. (2022). Buddhism in Arunachal Pradesh. In Cecile A. Mawlong and Tejimala Gurung (Eds.). *Religion and Society in Northeast India: An Interface*, DVS Publishers, Guwahati New Delhi, ISBN 978-93-85839-68-9pp. 133-163 (Chapter 8).
- 11. Lamare, S.N. (2022), "Of Spirits and the Jaintia Belief System" in Cecile A. Mawlong and Tejimala Gurung, *Religion and Society in Northeast India: An Interface*, DVS Publishers, Guwahati-Delhi, 2022 pp. 164-173
- 12. Passah, Amena, N., (2023). A History of Meghalaya: A Saga of Three Fascinating Tribes. In *Northeast India Through the Ages*. Rituparna Bhattacharyya (Ed.). Routledge, Abingdon, U.K,

- ISBN 978-1-032-46862-4, Chapter 8, pp.174-190.
- 13. Rahman Md. Shah Noorur, P (2022). Pir Cult as a Syncretic Force in Medieval Barak-Surma Valley and Adjacent Areas in *Religion and Society in Northeast India An Interface*, Cecile A. Mawlong and Tejimala Gurung (eds.) DVS Publishers, Guwahati, ISBN: 978-93-8589-68-9, Chapter 10, pp.174-189.
- 14. Mathur, Aparna (2022). Brahmanical Traditions and Tantra Practices in Early Assam. In *Religion and Society in Northeast India An Interface*. Cecile A. Mawlong and Tejimala Gurung (Eds.), DVS Publishers, Guwahati New Delhi ISBN 978-93-85839-68-9, Chapter 7, pp. 115-132.
- 15. Dutta, B. (2022). Religious Ideology, Pakistan Movement and Partition Politics in India's Northeastern borderland (1946-1950). In*Religion and Society in Northeast India: An Interface*, C.A. Mawlong and T.Gurung (Eds.). DVS Publications, Guwahati/Delhi, ISBN: 978-93-85839-68-9, Chapter 15, pp. 260-278.
- 16. Dutta, B. (2023). Missionaries as Stimulus: Interogating Political Mobilization in Colonial Northeast India. In *Encounters and Interventions: Christian Missionaries in Colonial Northeast India*, S.Nag and M. Satish Kumar (Eds). Manohar, New Delhi, ISBN: 978-93-91928-92-6, Chapter 3, pp. 81-96.
- 17. Dutta, B. (2023). Legislating Anxiety: The History of Citizenship Conundrum in post-colonial Assam. In *Citizenship In Contemporary Times*, Gorky Chakraborty (Ed). Routledge, London/New York, ISBN: 978-1-032-34712-7, Chapter 6, pp. 112-127.
- 18. Dutta, B. (2023). From Borderlands to Borders: Engagements and the Politics of Peopleing in Assam. In *Negotiating Borders and Borderlands: The Indian Experience*, Gorky Chakraborty and Supurna Banerjee (Eds). Orient Blackswan Private Limited, Hyderabad, ISBN: 978-93-5442-374-1, Chapter 4, pp. 100-124.

Funds received during current year

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

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	1.0

Seminar/Conference/Symposium/Extension Programme etc.

Cecile A. Mawlong

1. Chief Guest and participant in North-Eastern Region Law Review Consultation on "Rights of Muslim Women- Reviewing Muslim Personal Law", organised by the National Commission for Women in collaboration with Department of Law, NEHU, Shillong, on 16thJanuary, 2023.

Shobhan N. Lamare

- 1. As a Resource person in Shillong Commerce College in Commemoration of 131st Ambedkar Jayanti, organised by the Department of History and presented a paper on "Ambedkar and the Idea of Positive Discrimination" on 14th April 2022.
- 2. As a Resource person in a seminar on "Contribution of tribal Heroes in Freedom Struggle" Organised by the North-Eastern Hill University, Shillong in Collaboration with National Commission for Scheduled Tribes (NCST), Delhi, as part of "Azadi Ka Amrit Mahotsav", Government of India on 11th October 2022, NEHU and presented a paper on "Important Movements in Northeast India against Colonial rule with special reference to the Jaintias of Meghalaya."
- 3. As a resource person in a Panel discussion on "Manik Raitong the Quintessential Figure of a Hero who Stands for the Tradition of Love and Music Within the Khasi Society", organised by Mass Media Department, St. Anthony's College, Shillong, 4th November 2022, and talked on "The Historicity of U Manik Raitong (?)".
- 4. Attended the 41st Annual Conference of North East India History Association (NEIHA), 10th to 12th

- November, 2022, organised by Tura Christian College, Tura (Mission Compound), West Garo Hills, Meghalaya, and presented a paper on "The Burmese War of 1824 and the Anglo-Jaintia Defense Alliance".
- 5. As a resource person in a National Seminar organised by the Indian Council of Historical Research (ICHR), Ministry of Education, Government of India in Collaboration with St. Anthony's College, Shillong, 16 November 2022, on "Saga of Unsung Heroes of Meghalaya" and presented a paper on "The Six Days Battle (24-29 March 1774) and the Capture of Jaintiapur: A Lesser-Known Fact".
- 6. As a resource person for the Refresher Course conducted by the Department of History, North-Eastern Hill University, Shillong on the theme "An Interdisciplinary Approach to the Study of the History of North East India: Prospects and Challenges", (24 Nov 7 Dec 2022) and gave lecture on 1st December 2022 on the topic "Of Oral Narratives and the Positivist Idea of Objective History: Recasting the Jaintia Resistance of 1860-1862".
- 7. As a Guest speaker on the Observance of the 160th Death Anniversary of U Kiang Nangbah, on 30th December, 2022, at 11 Am at the VC Conference Hall, NEHU, Shillong, organised by the National Service Scheme North-Eastern Hill University and talked on "U Kiang Nangbah and the Jaintia Resistance against the British."
- 8. As a Guest Speaker on the Contribution of Tribal Communities to Nation Building: A Webinar Series on "Tribal Heroes of Independence" 5th-6th January 2023, Organised by, Ghani Khan Choudhury Institute of Engineering and

- Technology (A Centrally Funded Technical Institute under Ministry of Education, Govt. of India), Malda, West Bengal, and talked on "Prominent Tribal Heroes of Northeast and Their Struggle Against British Imperialism."
- 9. Gave a Key Note Address in a National Seminar 21^{st} on "Meghalaya in the century" 50th Commemorate the Anniversary of Meghalaya's Statehood, Organised by Women's College, Shillong, 3rd – 4th March, 2023, Sponsored by Indian Council of Social Science Research (ICSSR-NERC) and North Eastern Council, Shillong.

Amena N. Passah

- Paper Presentation, 2022, 11th November, "Matriliny in Meghalaya in Khasi-Jaintia Hills-Fresh Insights," In North East India History Association Conference, Tura Christian College, Tura
- 2. Paper Presentation, 2022, 16th November, "Subhas Chandra Bose, Azad Hind Fauz and National Integrity" In International Seminar, Azad Hind Fauz and India's Struggle for Freedom with Special Reference to Northeast India, organised by the Department of History and Political Science, Women's College, Shillong.
- 3. Paper Presentation, 2022, 21stNovember,"Meghalaya and the Look South Policy: Some Insights". In International Seminar, Look South Policy: Vis-à-vis Meghalaya organised by the Department of Economics and IQAC, Synod College, Shillong.

M.S.N. Rahman

- 1. Presented a paper entitled 'Inter-Community Relations in Medieval Bengal', in an International Seminar on Cotextualising Culture, Situating Society; Interrogating India's Modernity, organized by the Department of History, University of Kalyani on 16-17 March, 2027.
- 2. Presented a paper entitled 'Sufism as a Syncretic Force in Medieval Bengal', in an International

- Seminar on Interrogating Society, Economy and Culture: A Pre-colonial Scenario organized by the Department of Islamic History and Culture, Maulana Azad College, Kolkata on 20th March, 2023.
- 3. Delivered keynote Address, 'Syncretistic Traditions of Medieval Bengal' in a National Seminar **on** India and Identity in the Context of History, Polity, Society and Economy, organized by the Department of History and the Department of Political Science, Murshidabad Adarsha Mahavidyalaya, Islampur, Murshidabad, West Bengal on 22nd March, 2023.
- 4. Presented a paper entitled 'Contribution of Indian National Army under Subash Chandra Bose for the Unity of India' in a National Seminar on Relevance of Netaji's Political Thought and direction in the context of International Assistance in India's Freedom Struggle or Related Issues, organized by Pathar Pratima Mahavidyalaya, Pathar Pratima, South 24 Parganas, West Bengal on 23rd January, 2023
- 5. Presented a paper entitled 'Indo-Bangla People to People Relations,' in an International Seminar on Look-South Policy vis-à-vis Meghalaya, organized by the Department of Economics and Commerce in collaboration with the IQAC, Synod College, Shillong on 21-22 November, 2022.
- 6. Delivered keynote address on 'Sufism and Humanism' in an international e-Conference on Sufi Psychology, Perfected Humanity and Divine Inspiration, 2022, organized by Darul Irfan Research Institute (DIRI), Chittagong, Bangladesh on October 5-6, 2022.
- 7. Delivered keynote address on 'Maulana Rumi's Role in Inter-Community Relations', in an International Seminar on Maulana Jalaluddin Rumi's Contribution to Human Society, organized by Sufi Spiritual Foundation, Chittagong, Bangladesh on 20th September,2022.
- 8. Presented a paper entitled 'Maulana Jalaluddin Rumi's Contribution to Human Civilization' in an International Seminar on Jalaluddin Rumi and his

- Times, organized by Rumi Society Bangladesh in collaboration with Chittagong Independent University on 5th September, 2022.
- 9. Presented a paper entitled 'Maulana Jalaluddin Rumi through the Eyes of Banglar Rumi Syed Ahamadul Huq' in an International Seminar on "Rumi's Philosophy for a Society of Love, Peace and Harmony" organized by the Department of Persian Language and Literature, University of Dhaka and Allama Rumi Society Bangladesh held on and from 3rd of September to 4th of September, 2022 at Dhaka University, Dhaka.
- 10. M.S.N. Rahman presented a paper entitled 'Universal Islam' in an International Consortium econference on Insightful Islam, organized by India-Canada Consortium on 31st July, 2022.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1^{ST} APRIL 2022 TO 31^{ST} MARCH 2023

Details of Faculties	Name	1	Prof. F.A. Qadri	Prof. C.A. Mawlong	Prof. T.G. Nag	Prof. A.K. Thakur	Prof. V. Rengsi
	Date of Joining	2	06.09.199	07/06/89	17.08.199 4	27.05.2005	07.06.1989
	Field of specialisation	3	Medieval Indian History & Northeast India	Archaeology and Prehistory of Northeast India	Modern India/Nort heast India	Medieval Indian History & Northeast India	Modern Indian History & Modern Northeast India

Annual Report (2022-2023)

(A)	UG		4			4	16	
Teaching	PG, including PhD		5		34	29	18	
Experience	,							
(in Years)								
	Basic Research		6	Yes	Yes	Yes	Yes	Yes
	Applied Research		7	-	-	-	-	-
	Action Research		8	-	-	-	-	-
	Project Submitted		9	-	-	-	-	-
	Ongoing Project		10	-	-	-	-	-
	Research Paper in	Group I	11	-	2	-	-	-
	UGC care list journals	Group II	12	-		-	-	-
	Books /Books	Books	13	-	1	1	-	-
(B) Research	chapters Published	Book Chapters	14	-	1	4	-	-
activities	Popular Articles (News Paper/ Magazines)		15	-	-	-	-	-
	Seminar /	National	16	-				
	Conference/ Symposia organized	International	17	-				
	Seminar /	National	18	_	1	1		
	Conference/ Symposia attended	International	19	-				
	Conference Proceedings		20	-	-	-	-	-
	Consultancy		21	-	-	-	-	-
(C) Patent	Applied		22	-	-	-	-	-
T decile	Published		23	-	-	-	-	-
	Granted		24	-	-	-	-	-
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	-	-	-	-	-
	Teaching /Extension /outreach activities		26	-	Yes	Yes	-	-
	Responsibilities other than teaching		27	-	Yes	Yes	-	-
(E) Any Other	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	-	Yes	-	-	-
	Collaborations	National	29	-	-	-	_	-
		International	30	-	-	-	-	-

Annual Report (2022-2023)

Details of Faculties	Name		1	Prof. S.N. Lamare	Prof. A.N. Passah	Prof. M.S.N. Rahman	Prof. A. Mathur	Dr. B.Dutta
	Date of Joining		2	27:07:2006	7.12.1995	30May 2003	10/02/20 10	01.05.2013
	Field of specialisation		3	Modern India and Northeast India	History of S.E. Asia &Modern Northeast India	Medieval Indian History Islamic History & Culture	Ancient Indian History	Modern India& Modern Northeast India
(A) Teaching Experience	UG		4	10 years	16.11.1984- 7.12.1995 (11 years)	3 years		4yrs 6 mths
(in Years)	PG, including PhD		5	17 years	7.12.95 till date (nearly 28 years)	24 years	21 Years	15 yrs 8mths
	Basic Research		6	Yes	Yes	Yes	Yes	Yes
	Applied Research		7	-	-	NIL	-	-
	Action Research		8	_	_	NIL	_	_
	Project Submitted		9	_	_	NIL	_	1
			10	-	_	NIL	-	-
	Ongoing Project	G I				1		-
	Research Paper in UGC care list	Group I Group II	11 12	- -	-	NIL NIL	-	1
	journals							
(B)	Books /Books	Books	13	-	-	NIL	-	-
Research	chapters Published	Book Chapters	14	-	Yes	01	01	4
activities	Popular Articles (News Paper/ Magazines)		15	-	Yes	01	-	-
	Seminar /	National	16	_	Yes	NIL	_	No
	Conference/ Symposia organized	International	17	-		NIL	-	No
	Seminar /	National	18	_	Yes	02	_	No
	Conference/ Symposia attended	International	19	-	Yes	08	01	No
	Conference Proceedings		20	-	-	NIL	-	No
	Consultancy		21	_	_	NIL	_	No
	Applied		22	_	- _	NIL	+-	No
			22	_	1 -	INIL	1	INU
(C)	Published		23	-	-	NIL	-	No
Patent	Granted		24	-	-	NIL	-	No
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	-	-	NIL	-	No
	Teaching /Extension /outreach activities		26	-	-	NIL	-	Yes
	Responsibilities other than teaching		27	Yes	-	NIL	-	Yes
(E) Any Other	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	-	-	02	-	No
	Collaborations	National	29	-		NIL	-	Yes
		International	30	_	National	NIL	-	1
		memanona	50	_	International	1111	<u> </u>	<u> </u>

EPARTMENT OF LAW

Head: Prof. Chintamani Rout **Telephone:** +91-364-272 2801/2808

E-mail: hodlaw@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
	Dr. Chintamani Rout, M.A. LL.M,	Constitutional Law & Commercial
	Ph.D. (Law) Utkal University	Law
Professor	Dr. J.J. Mozika, LL.M, Ph.D. (Law)	Constitutional and Administrative
	(NBU)	Law, Jurisprudence and Judicial
		Process, Women & Criminal Law
	Dr. R.K. Mishra, LL.M, Ph.D.	Intellectual Property Rights & Criminal
	(Law), (BHU)	Law
Associate	Dr. A.K. Singh, LL.M (B.H.U.),	Criminal Law, Human Rights,
Professor	Ph.D. (Law)	Business Law, Property Law and
		Private International Law
	Dr. N. Kumar, LL.M (Jamia Milia	Public Health Law, Corporate Laws,
	Islamia), Ph.D. (Law)	Cyber Crimes, Constitutional Law,
		Environmental Laws and Human
		Rights
	Dr. R. Sil, LL.M, Ph.D. (Law)	Public Law, Labour Law, Criminology
	University of Burdwan	and Penology
Assistant	Mr. S. Tiwari, LL.M (BHU), M.Phil	International Law; Environmental Law
Professor	in International Law (JNU)	

Thrust Areas of Research

Constitutional Law, Environmental Law, Cyber Law, Patent Law, Industrial Law, Family Law, Commercial Law, Criminal Law & International Law.

Students' Profile

- > Students' Profile:
- > Enrolment Capacity: LLM: 14;B.A. L L.B (Hons): 60;Ph.D.: Variable
- > Enrolment of students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC			OBC		EWS		PWD		AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	2	2	1	1	-	1	-	-	-	-	-	-	-	-
Meghalaya	-	-	-	1	-		-	-	-	-	-	-	-	-
Total	4	4		3		1		-		_		_		

> Enrolment of students from different States of India and Abroad (LL.M)

	Gen		ST		SC		OBC		EWS	S	PWD	1	TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	7	4	-	-	-	-	-	-	-	-	-	-
Nagaland	-	-	1		-	-	-	-	-	-	-	-	-	-
Total	-		-		-		-		-		-		-	

Enrolment of students from different States of India and Abroad (B.A. L.L.B - Hons)

	Gen		ST		SC		OBC	•	EWS	5	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	2	-	-	-	-	-	-	-	-	-	-	-	-
Bihar	7	3	-	-	-	-	-	-	-	-	-	-	-	-

Delhi	1		-	-	-	-	-	-	-	-	_	-	-	-
Jharkhand	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Manipur	-	1	_	-	-	-	-	-	-	-	-	-	-	-
Meghalaya	-	1	14	25		1	-	-	-	-	-	-	-	-
Rajasthan	1		_	-	-	-	-	-	-	-	-	-	-	-
Uttar Pradesh	1	2	-	-	-	-	-	-	-	-	-	-	-	-
Sub Total	10	9	14	25	1	1	-	-	-	-	-	-	25	35
Total	19		39		2		-		-		-		-	

Degrees Awarded

Degree: Ph.D. /LL.M/ B.A.LL.B (Hons)

➤ Degrees Awarded to students from different States of India and Abroad (Ph.D. – 06)

	Gen		ST		SC		OBC	1	EWS		PWD		TOTAL	
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	2	-	1	1	-	-	-	-	-	-	-	-	-
Meghalaya	-	-	-	1		-	-	-	-	-	-	-	-	-
Nagaland	-	-	-	1		-	-	-	-	-	-	-	-	-
Total	2	2		3		1		-		-		-		

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Mr. Bijoy Sharma	"Impact of Criminal Law (Amendment) Act, 2013 on Criminal Justice System: A Socio-Legal Study"	Dr. Naveen Kumar
Mr. Laishram Malem Mangal	"Right to Land and Natural Resources under the Constitution of India"	Prof. Chintamani Rout
Mr. Kaustav Choudhoury	"Human Rights in India: A Study of the Elderly person"	Prof. Chintamani Rout
Ms. Tanwi Shams	"Empowerment of Physically Disabled Persons in Assam: A Socio0Legal Study of Dibrugarh District"	Dr. A.K. Singh
Ms. Wanrishisha Dkhar	"Domestic Violence Against Women in Meghalaya with Special Reference to East Khasi Hills District: A Legal Study"	Dr. Ranjit Sil
Ms. Daiahun Mawlong	"Administration of Laws Pertaining to Town and Country Planning in Shillong Municipal Area"	Dr. Ranjit Sil
Ms. Thywill Susngi	"Electoral Reforms in India: A Legal Study"	Prof. Chintamani Rout

➤ Degrees Awarded to students from different States of India and Abroad (LLM – 11)

	Gen		ST		SC		OBC	1	EWS	5	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	1	3	7	-	-	-	-	-	-	-	-	-	-
Total	1 10			-		-		-		-		-		

> Degrees Awarded to students from different States of India (B.A. LLB (Hons) – 58)

	Gen		ST		SC		OBC	7	EWS	5	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	2			-	-	-	-	-	-	-	-	-	-
Meghalaya	-	1	23	30	-	-	-	-	-	-	-	-	-	-
Nagaland	-		2		-	-	-	-	-	-	-	-	-	-
Sub Total	-	3	25	30	-	-	-	-	-	-	-	-	25	33
Total	3		55		-		=		-		-		-	

Placement of Students

The students completed B.A.L.L.B (Hons) Course in July, 2019, enrolled themselves under the Bar Council of India and are practicing as advocates in Subordinate Courts in the State of Meghalaya and some are also practicing in the High Court of Meghalaya. A few numbers of students have been admitted to LL.M Course for their Master Degree in the Department of Law and other National Law Universities

Research Fellowship

CSIR- UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship	Others
_	8	_	-	-	-

Fieldwork/Educational Tour of Students

Teacher-in-Charge:Dr. Ranjit Sil Places/Institutions Visited: Mumbai & Goa Duration of Tour: 28 Dec, 2022 to 14 Jan, 2023 Purpose of Tour:Study Tour

Courses Conducted

B.A. L.L.B (Hons)

Semester I (NEP 2020): English – I, Political Science I, Sociology – I, Micro Economics, Law of Tort.

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.

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, Copyright, Interpretation of Statutes & Principles of Legislation, Drafting, Pleading & Conveyance Semester VIII: Civil Procedure Code & Limitation Act, Law of Evidence, Patent Law, International Environmental Law, Professional Ethics and Professional Accounting System

Semester IX: Women & Criminal Law, Trademark & Design, Health Law, Information Technology Law, Alternate Dispute Resolution Semester X: Forensic Science, Private International Law, Offences against Child & Juvenile offences, Legislative Drafting, Banking

Law, Moot Court, Exercise and Internship

> L.L.M

Semester I: Constitutional Law I, Constitutional Law II, Criminology & Penology, Criminal Law in India, Cyber Crimes.

Semester II: Legal Education and Philosophy, International Law of Human Rights, Copyright: National & International Perspective, International Environmental Law, Legal pedagogy and Research, Law and Development (Practical/Project/ Field study).

Semester III: Law and Social Transformation in India, Judicial Process, Law and Justice, Human Rights & the Refugees, Human Rights in India, Patent and Protection of Plant Varieties & Farmers Rights.

Semester IV Dissertation and Viva Voce.

> PhD Courses

Legal Research Methodology, Judicial Process, Comparative Constitutional Law

Publications

> Research papers (8)

- 1. Mozika, J.J., & Singh, Arpita. (2022). An Analysis of Judicial Approach to 'Rape Within Marriage' with reference to India. *Purakala*,31(2): 1111-1128.
- 2. Mishra, R.K. (2022), FRAND commitments and Standard essential patents- A battle between IPR and competition laws, *Shodhprabha*, 47 (3); 1-10.
- 3. Mishra, R.K. (2022), Indigenous medicinal knowledge of Rongmei Tribe in Manipur vis-àvis IP regime, *Galgotias Journal of Legal Studies*, 10 (2): 44-53.
- 4. Kumar, N., Ronghangpi, M. (2023). Cyberbullying of Children: Impacts and Deterrent Measures in India. *India Journal Of Educational Technology (IJET)*, 5 (1): 134-147.
- 5. Kumar N. (2022). A New Horizon of Police Administration in India: An Analysis of Use of Unmanned Aircraft (Drones) in Policing. *Bihar Journal Of Public Administration (BJPA)*, XIX (2): 1-19.
- 6. Kumar, N., Ronghangpi, M. (2021). Policing in Meghalaya: Some Reflections. *MAN and SOCIETY*, XVII: 143-176.
- 7. Sil Ranjit (2023). "Emerging Direct Selling Industry towards Making the Dream" Atmanirbhar Bharat" A Reality and the Gap of Law: The Consumer Protection Act, 2019. Zeichen Journal: ISSN No. 0932-4747, Vol. 9, Issue 03, 2023, p1/DOI:15.10089. 2J.2023.V09103.285311.3079.
- 8. Tiwari, S., Ghosh, G. (2022). Decoding the Conundrum in Indian Legal Framework Governing Age of Consent and Age of Marriage. *Ram Manohar Lohiya National Law University Journal*. 14: 194-207.

Proceedings of Seminar/Conferences (1)

1. C. Rout, (2022) Conference Proceedings "Law and Legal Education, During and Post pandemic" Edited by Mizanur Rahman, Bangladesh institute of Law and International Affairs, The First Think tank Organization of Bangladesh, ISBN: 978-984-35-2841-4, Published by NAM Printers (BILIA). pp. 499-502.

> Popular Articles (News Paper and Magazines) (1)

1. Singh A.K., Chowdhury Debu "SELF DETERMINATION, SECESSION AND KHALISTAN" in *International Journal of Professional Development*, Vol.9 No.2 published in 2022, pp. 156-161.

Seminar/Conference/Symposium/Extension Programme Etc.

- **Prof. J. J. Mozika** organised (i) One Day North-Eastern Region Law Review Consultation on "Rights of Muslim Women Reviewing Muslim Personal Law" on 16th January, 2023 under the aegis of National Commission for Women, New Delhi, and (ii) One Day Legal Awareness Programme as Coordinator of Legal Care & Support Centre, NEHU, Shillong on 19th August, 2022 in the Community Hall, Dorbar Shnong, Umshing, Mawkynroh, Shillong
- Dr. R. K. Mishra organized (i) One-day workshop on Traditional Knowledge, Intellectual Property Rights and Biodiversity Conservation on 27/06/2022, Dept. of Law, NEHU, Shillong, (ii) One-day Pro-Bono Awareness Programme on Child Rights: Know your rights!, on 23/09/2022, Presbyterian Umshing Secondary Shillong, (iii) Photo Exhibition cum outreach programme on Azadi ka Amrit Mahotsav, 8 years of Seva Sushasan & Garib Kalyan on 29-30/09/2022, Community Hall, NEHU, Shillong in collaboration of Ministry of Information and One-day broadcasting, (iv) workshop Alternative Dispute Resolution on 10/03/2023, Dept. of Law, NEHU, Shillong, (v) One-day quiz and slogan writing competition in celebration of World Consumer Rights Week, on 23/03/2023, Dept. of Law, NEHU, Shillong.
- **Dr. A. K. Singh** organised (i) *IPR Awareness Programme* in collaboration with Bio -nest Bio incubator Centre, Tura campus and MSME on 26th April, 2022 as Coordinator of the IPR Cells, (ii) *IPR Awareness Programme* in association with RGNIPM Nagpur on10th October 2022, (iii) One day seminar on the *Competition Law And Practice* on 25th February, 2023 in collaboration with Competition Commission of India, (iv) Two day National Seminar on *Intellectual Property Rights:*

Emerging Trends And Challenges from 13-14 March, 2023.

Mr. S. Tiwari organised a National Seminar on Forest-Dependent Rural Livelihoods during February 24 – 26, 2023 at NEHU Campus, Shillong.

Seminar/Conference/Symposium/Extension Programme Attended Prof. J. J. Mozika

- 1. Presented a paper titled "Ecocide: Criminal Liability of Corporate Houses for Environmental Challenges" in the International Seminar on Responsibilities of Industrial Corporations in Achieving Sustainable Development in the Present Ecologically Critical Period jointly organized by the IQAC, Dr. Rohini Kanta Barua Law College, Dibrugarh and IQAC, Nowgong Law College, Nagaon, and powered by Oil India Limited, Duliajan held on 17-18 March, 2023.
- 2. Presented a paper titled "Data Privacy and Intellectual Property Rights" in the Two Days National Seminar on Intellectual Property Rights: Emerging Trends and Challenges organized by IPR Cell, North-Eastern Hill University, Shillong held on 13-14 March, 2023.
- 3. Chaired a session and presented a paper titled "Environmental Governance and Climate Change in India" in the International e-Conference on Taking Stock of Stockholm (1972-2022) organized by Centre for Regulatory Studies, Governance and Public Policy, The WBNUJS, Kolkata and Centre for Environmental Law, Advocacy and Research, NLUJAA on 12-13 November, 2022.
- 4. Chaired a session and presented a paper titled "Indianisation of the Legal Education through the National Education Policy 2020" in the Two Day National Seminar cum Annual Conference of the North East India Education Society on Implementation of NEP 2020 with special reference to North-East India: Issues and the Way Forward organized by Department of Education, North-Eastern Hill University, Shillong in collaboration with NEIES on 20-21 October, 2022.

Dr. R. K. Misra

1. Presented a paper titled "University-Industry Partnerships: Role of Intellectual Property" in a two days national seminar on Intellectual Property Rights: emerging trends and challenges on

- 14/03/2023 organised by IPR Cell NEHU, Shillong.
- 2. Presented a paper titled "Protection of human rights and enforced disappearance: an analysis" in a two days national seminar on sahitya evam samaj me manavadhikarkevividhpariprekshya on 31/03/2023 organised by NHRC & Hindi Department, NEHU, Shillong at NEHU, Shillong.

Dr. A. K. Singh

- 1. Invited lecture delivered on "Human Rights of Prisoners & Legal safeguard" in North East Police Academy (NEPA) on 19-07-2022.
- Invited lecture delivered on topic NDPS Act, NDPS Rules,PIT NDPS Act,1985 & Important Court Judgment etc." on 15th June,2022 in Police Training School Meghalaya
- 3. Invited lecture delivered in the webinar on 'Right to Information' Organised by North East Police Academy (NEPA) on 29-04-2022. The topic is "Origin and Development of Right to Information Law in India &Salient Feature of Right to Information Act, 2005".
- 4. Invited lecture delivered on the topics(i) Constitution of India Parts I,V,VI with relevant Schedules(ii)Constitution of India Parts VIII,IX,IXA and X with relevant Schedules(iii) Constitution of India Parts XI,XII,XIV with relevant Schedules and (iv) Constitution of India Parts XVIII,XIX,XX with relevant Schedules in the Regional Training Institute, Indian Audit and Account Department, Shillong, 25th March, 2023.
- 5. Invited lecture delivered. For the induction training programme for the newly appointed Judicial officers on "Specific Relief Act,1963" on 31-01-2023.

Dr. N. Kumar

- 1. Presented a paper titled 'Due Diligence of Intellectual Property Rights in corporate transaction: An Overview' in the Two Days National Seminar on 'Intellectual property Rights: Emerging Trends and Challenges', IPR Cell, North-Eastern Hill University, 13-14 March, 2023.
- 2. Presented a paper titled 'Impact of Artificial Intelligence on Legal Scenario: Issues and Challenges' in the Commonwealth Legal Education Association Golden Jubilee International Conference on Augmenting Legal Education through Technology: Issues and Challenges, Indian Law Institute (ILI), New Delhi and Llyod Law College, Greater Noida, 2nd 4th March, 2023.

- 3. Presented a paper titled 'Enforcement of Cross-Border Insolvency Law in India: A Comparative Study', *Ninth International Conference on International Law and the Changing Global Order*, The Indian Society of International Law, New Delhi, 2nd 4th March, 2023.
- 4. Presented a paper titled 'Recovery of Bad loans in bank with the Insolvency and Bankruptcy Code: A study', *National Conference on Banking and Finance-Issues, Challenges and Prospects in India*, Department of Economics, Jamia Millia Islamia, New Delhi, 29th 30th November, 2022. Mr. S. Tiwari
- 1. Presented "Examining the Constitutionality of the Forest Rights Act, 2005, through the Prism of Environmental Principles", National Seminar on "Forest-Dependent Rural Livelihoods" during February 24 26, 2023 at NEHU Campus, Shillong.

Other Activities

> Honours/Awards/Recognition/Membership/Fel lowship

Prof. J. J. Mozika is member of the national Advisory Board of Indian Journal of Law and Justice. She is also Associate Editor, Indian Human Rights Law Review, and Member, Editorial Board, International Journal Jurisprudence and Philosophy of Law. She was also nominated as Chairperson/Presiding Officer of the Internal Complaints Committee for the Office of the Controller of Communication Circle, Accounts. NE-I Department of Ministry Telecommunications, of Communications, GOI; member of the Board of Studies (Law), Assam University, Silchar, India; and member of the Screening Cum Evaluation Committee, Law Department, Tezpur University, Assam India. She is a Member of Association of Law Teachers, UK, Individual member of the Australasian Law Teachers Association (ALAA), Life Member of the Indian Law Institute, and Visiting Faculty, Indian Institute of Legal Studies, Dagapur, Matigara

Prof. J. J. Mozika

Prof. J. J. Mozika delivered an invited lecture/talk on "Career Prospects in Academics for Law Graduates" in the Career Counselling & Guidance Programme for students in the SLC organized by Student Counselling Cell, IQAC, Shillong Law College on 4th June, 2022. She is reviewer for Indian Journal of Law and Justice, NEHU Journal. Delivered a lecture as resource person on "Prevention of Sexual Harassment at the Workplace" on 1 February, 2023 in the 11th Faculty Induction Programme for College and University Teachers organized by UGC-HRDC, NEHU, Shillong from 10th January – 8th February, 2023. Delivered a lecture as resource person on "Prevention of Sexual Harassment at the Workplace" on 25 June, 2022 in the 10th Faculty Induction Programme for College and University Teachers organized by UGC-HRDC, NEHU, Shillong from 29th June – 28th July, 2022. Delivered a lecture as resource person on "Prevention of Sexual Harassment at the Workplace" on 27 June, 2022 in the 9th Faculty Induction Programme for College and University Teachers organized by UGC-HRDC, NEHU, Shillong from 30May – 28 June, 2022

Dr. R. K. Misra

Dr. R. K. Misra (i) Delivered a lecture as a resource person on the topic "Interface between IPR and competition law with a special reference to Standard Essential Patents", in Refresher Course on Law and Social Transformation in India at UGCHRDC, NEHU, Shillong on 08/06/2022, (ii) Delivered a lecture as a resource person on the topic "Mentoring Institutional Social Responsibility & Facilitation for Community Engagement" in the Six-Day Development Programme at NEHU, Shillong, on 12/09/2022 conducted by Mahatma Gandhi National Council of Rural Education (MGNCRE), (iii) Delivered a lecture as a resource person on the topic "Human Rights: Constitutional Perspective" in the 10th Faculty Induction Programme at UGCHRDC, NEHU, Shillong on 14/09/2022, (iv) Delivered a lecture as a resource person on the topic "Intellectual Property Rights and Patents: Criterion for filing Patents, Types of Patents" in

Short Term Course in Research Methodology for Basic Sciences at UGCHRDC, NEHU, Shillong on 18/02/2023.

Dr. A. K. Singh

Dr. A. K. Singh (i) Participated in panel discussion on the issues related to "prisoners -judicial approach and NHRC guidelines" on 19-07-2022, (ii) Chaired the Session in the National Seminar titled KA TYNRAI JONG KA LONGRYNIENG-The Roots of Identity organised by the Shillong Law College in collaboration with Positive Energy Art Foundation at U Soso Tham Auditorium Shillong on 1-3 September, 2022, (iii) Acted as Conciliator for the National Lok Adalat held on 13-08-2022 in the District and Session Court, East Khasi Hills Shillong, (iv) Delivered lecture in the Refresher Course on "Law and Social Transformation in India' organised by NEHU and the Department of Law, NEHU on 10-NEHU, Shillong. The Topic of the 06-2022 lecture is "Interpretation of Law for better Administration of Justice", (v) Delivered lecture in the Refresher Course on 'Biodiversity and Conservation(Interdisciplinary)' on 18-08-2022 organised by HRDC NEHU and the Centre for Advance Studies in Botany, NEHU, Shillong on 20-07-2022. The Topic of the Paper is ""An Analysis of the Legal Protection of Biodiversity in India". He was (i) editor of the International Journal of Jurisprudence and Philosophy of Law (IJJPL), (ii) Associate Editor Indian Journal of Human Rights Law Review, (iii) Editor NEHU Jvoti. He also reviewed articles for NLUA Journal of Intellectual Property Rights, MDU Law Journal, and The NEHU Journal.

Dr. N. Kumar

Dr. N. Kumar (i) Participated in the Technical Sessions at "One Day Workshop on Alternate dispute Resolution", Pro Bono Associate Club, Department of Law, North-Eastern Hill University, Shillong, Meghalaya, 10th March, 2023, (ii) Participated in one day National Seminar on Competition Law and Practice organized by Intellectual Property Rights Cell, North-Eastern

Hill University, Shillong, Meghalaya in collaboration with Competition Commission of India (CCI), New Delhi, 25th February, 2023, (iii) Delivered lecture on 'Overview of Indian Penal Code' during the ongoing "7" Batch- Induction training of newly recruited Inspectors" at NACIN Zonal Campus, Shillong, 21st February, 2023, (iv) Delivered lecture on 'Appointment, role and responsibilities of PIO and Public Authorities under RTI Act Deemed' and 'Appeal/Complaint procedure and Role of Information Commissions and Courts' in the module on "Right to Information", North-Eastern Police Academy, Meghalaya, 18th January, 2023, (v) Participated in National Commission for Women in collaboration with Department of Law, north-Eastern Hill University organises North-Eastern Region Law Review Consultation on "Rights of Muslim Women-Reviewing Muslim Personal Law", North-Eastern Hill University, Shillong, Meghalaya, 16th January, 2023, (vi) Delivered lecture on 'Research Ethics' in the programme on "Capacity Building of Faculty of DIET/SCERT/NECERT Research on Methodology", (From November 14-18, 2022), National Council of Educational Research and Training, NERIE, Umiam, Shillong, 16th November, 2022, (vii) Participated in the IP Awareness/Training Programme under National Property Intellectual Awareness Mission organised by Intellectual Property office, North-Eastern Hill University, Shillong, Meghalaya, 10th October, 2022, (viii) Delivered lecture on 'Appointment, role and responsibilities of Public Information Officer and Deemed Information Officer' and 'Procedure regarding Appeal/Complaint and role of Information Commissions and Courts' in the webinar on "Right to Information", North-Eastern Police Academy, Meghalaya, 29th April, 2022, (ix) Delivered lecture on 'Laws relating to corporate crimes and financial frauds in India - An overview' for the participants of "Investigation of Financial Fraud & Corporate Offences", North-Eastern Police Academy, Meghalaya, 18th April, 2022. He was also appointed as Conciliator for the National Lok Adalat, Office of the District & Sessions Judge,

Shillong, 11th February, 2023, and as Conciliator for the National Lok Adalat, Office of the District & Sessions Judge, Shillong, 12th November, 2022.

Dr. Ranjt Sil

Dr. Ranjt Sil (i) Delivered talk as Resource Person in DST STUTI Hands on Training Programme, organized by The Department of Biomedical Engineering, NEHU, Shillong, on 11/02/2023 on the topic titled 'Health as Rights and Duties: A Coexisted Phenomena of the State and Citizen', (ii) Delivered talk as a Resource Person in Refresher Course in Biomedical Engineering, conducted by UGC HRDC and NEHU, Shillong, held on 14/03/2023on the topic tilted 'Health Rights of the Citizen, Legal Perspective', (iii) Presented a paper titled 'Commercialization of Patent: A Case Study' on 14th March, 2023 in the Two days National Seminar on 'Intellectual Rights: Emerging Property Trends Challenges' held on 13-14 March, 2023 at U Kiang Nongbah Guest House, NEHU, Shillong organized by IPR Cell, NEHU, Shillong, Meghalaya.

Mr. S. Tiwari

Mr. S. Tiwari was Associate Editor of (i) Chhattisgarh Law Journal, and (ii) Indian Journal of Socio Legal Studies. He was also reviewer for (i) Environmental Policy and Law, (ii) National Law University Assam Law Review (NLUALR), (iii) E-Journal of Academic Innovation and Research in Intellectual Property Assets (E-JAIRIPA), (iv) The Age of Human Rights Journal. He also (i) Delivered a lecture on the "Environmental Legislations in India", for the induction training programme of the newly appointed Judicial Officers Grade III (appointed in the year 2022), at the Meghalaya State Judicial Academy, Shillong, 16th March 2023, (ii) Delivered a lecture on "Principles of Penology" to newly appointed Judges (joined in the year 2023), District Council Courts, Jowai & Presiding Officers/Magistrate First Class of the Subordinate District Council Courts, Khasi Hills/ Jaintia Hills Autonomous District Council Court, at the Meghalaya State Judicial Academy, Shillong, 9th March 2023, (iii) Delivered a lecture on "Basic

Principles of Jurisprudence" to newly appointed Judges (joined in the year 2023), District Council Courts, Jowai & Presiding Officers/Magistrate First Class of the Subordinate District Council Courts, Khasi Hills/ Jaintia Hills Autonomous District Council Court, at the Meghalaya State Judicial Academy, Shillong, 21st February 2023, (iv) Delivered a lecture on the "Fundamental Principles and Concepts of Environmental Law", for the induction training programme of the newly appointed Judicial Officers Grade III (appointed in the year 2022), at the Meghalaya State Judicial Academy, Shillong, 8th February 2023, (v) Delivered a lecture on the "Information Technology Act", for the induction training programme of the newly appointed Judicial Officers Grade III (appointed in the year 2022), at the Meghalaya State Judicial Academy, Shillong, 17th January 2023, (vi) Delivered a lecture on the "Information Technology Act", for the induction training programme of the newly appointed Judicial Officers Grade III (appointed in the year 2022), at the Meghalaya State Judicial Academy, Shillong, 11th January 2023, (vii) Delivered a lecture on "Personal Law", for the induction training programme of the newly appointed Judicial Officers Grade III (appointed in the year 2022), at the Meghalaya State Judicial Academy, Shillong, 24th November 2022, (viii) Delivered a lecture on "Jurisprudence", for the induction training programme of the newly appointed Judicial Officers Grade III (appointed in the year 2022), at the Meghalaya State Judicial Academy, Shillong, 9th November 2022, (ix) Delivered a lecture as Resource Person on "Environmental Migrants and Protection under International Law", at the Refresher Course on 'Law and Social Transformation in India', organized by the UGC-Human Resource Development Centre, North-Eastern Hill University, Shillong, 11th June 2022. He also Chaired a Session at the One-day Blended National Seminar on 'Cyber Law and Criminal Justice System in India: Issues and Challenges', organized by the School of Law, GD Goenka University, Gurugram, Haryana, on 18th of November, 2022. He was Judge at the 1st Deo Memorial National Moot Court Mangal Competition, 2022. organised by the Narayan School of Law, Gopal Narayan Singh University, Sasaram, Bihar from 14th to 16th October 2022.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

Details of Faculties	Name		1	Prof. C. Rout	Prof. J. J. Mozika	Dr Ravi Kant Mishra
1 acuttos	Date of Joining		2	15.01.2007	02.05.2005	20.12.2005
	Field of		3	Commercial Law	Constitutional and	IPR & Criminal Law
	specialisation			&Constitutional	Administrative Law,	II It & Criminar Law
	specialisation			Law	Jurisprudence and	
					Judicial Process, Women	
					& Criminal Law	
(A)	UG		4	29	24	20
Teaching	PG, including PhD		5	13	9	8
Experience	, ,					
(in Years)						
	Basic Research		6	Yes	Yes	Yes
	Applied Research		7	-	Yes	-
	Action Research		8	No		-
	Project Submitted		9	-	Yes	-
	Ongoing Project		10	No	No	-
	Research Paper in	Group I	11	1	1	2
	UGC care list	Group II	12	2	No	-
	journals					
(D)	Books /Books	Books	13	No	No	-
(B) Research	chapters Published	Book	14	No	No	-
activities	D 1 4 1 1	Chapters	1.5	N	37	
activities	Popular Articles		15	No	No	-
	(News Paper/					
	Magazines) Seminar /	National	1.0	No		5
	Conference/	International	16 17	No	-	5
	Symposia	International	1 /	NO	-	-
	organized					
	Seminar /	National	18	No	_	2
	Conference/	International	19	No	_	-
	Symposia	international	17	110		
	attended					
	Conference		20	1	-	-
	Proceedings					
	Consultancy		21	No	-	-
	Applied		22	No	-	-
(C)	Published					
Patent	Published		23	No	-	-
	Granted		24	No	-	-
(D)	MOOC/SWAYA		25	No	-	-
È-Content	M/ E-content					
	developed					
	Teaching		26	No	2	-
	/Extension					
	/outreach activities					
(T)	Responsibilities		27	Headship	Yes	-
(E)	other than teaching					
Any Other	Awards/ Honours/		28	No	Yes	2
	Recognition/					
	Membership/					
	Fellowship	NI-4: 1	20	NI.		
	Collaborations	National International	29 30	No No	-	-
		micinational	_ 30	INO	-	-

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Details of	Name		1	Dr. A. K. Singh	Dr. N. Kumar	Dr. R. Sil	Dr. S. Tiwari
Faculties	Date of Joining		2	02-01-2006	12.01.2006	09.02.2010	9.2.2010
	Field of		3	Criminal Law,	Public Health	Public Law,	International
	specialisation			Human Rights,	Law,	Labour	Law,
	•			Business Law,	Corporate	Law,	Environmental
				Property Law	Laws, Cyber	Criminolog	Law
				and Private	Crimes,	y and	
				International	Constitutional	Penology	
				Law	Law	23	
(A)	UG		4	20	19	8	13
Teaching Experienc	PG, including PhD		5	11	9	-	09
e (in Years)							
	Basic Research		6	Yes	Yes	-	-
	Applied Research		7	-	Yes	-	-
	Action Research		8	-	No	-	-
	Project Submitted		9	-	No	-	-
	Ongoing Project		10	-	No	-	-
	Research Paper in	Group I	11	-	3	-	1
	UGC care list journals	Group II	12	-	No	1	-
	Books /Books	Books	13	-	No	No	-
(B) Research	chapters Published	Book Chapters	14	-	No	No	-
activities	Popular Articles	•	15	1	No	No	-
	(News Paper/						
	Magazines)						
	Seminar /	National	16	4	No	No	1
	Conference/	International	17		No	No	
	Symposia organized						
	Seminar /	National	18	8	2	2	2
	Conference/	International	19	-	2	No	-
	Symposia attended						
	Conference Proceedings		20	-	No	No	-
	Consultancy		21	-	No	No	-
	Applied		22	-	No	No	-
(C)	Published		23	-	No	No	-
Patent	Granted		24	-	No	No	-
(D)	MOOC/SWAYA		25	7	No	No	-
È-Content	M/ E-content						
	developed		<u> </u>				
	Teaching		26	10	No	1	Yes
	/Extension						
	/outreach activities		<u> </u>				
	Responsibilities		27	Yes	No	Yes	Yes
(E)	other than teaching		<u> </u>				
Any Other	Awards/ Honours/ Recognition		28	-	No	No	-
	Collaborations	National	29	-	No	No	-
		International	30	-	No	No	-

DEPARTMENT OF POLITICAL SCIENCE

Head: Prof. T. T. Haokip **Telephone:** +91-364-272 3035

E-mail: hodpolsc@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
	Dr.K. Debbarma, MPhil & PhD (NEHU)	Development
		Administration, Human
Professor		Rights, Migration Politics
		in North East India.
	Dr.H. Srikanth, MPhil & PhD (University of	Political Theory, Ethnic
	Hyderabad)	and Regional Studies,
		Social Movements.
	Dr.T. T. Haokip, MPhil & PhD (NEHU)	Foreign Policy, Public
		Administration,
		International Law, Public
		Policy and State Politics in
		Northeast India
	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 Asia and
		International Politics
Associate	Dr.Biswajit K. Mohapatra, MPhil & PhD (JNU)	Politics & International
Professor		Politics
Assistant	Dr.Suparna Bhattacharjee, MPhil & PhD (JNU)	Theoretical aspects of
Professor		International Politics, East
		Asian Political System.

Thrust Areas of Research

Political Processes and Economic Changes in North-East India.

Brief Statement of Academic Activities and Achievements

A total of 57 students were admitted to MA program in 2022. Apart from teaching MA students, the faculty also guides the PhD scholars and facilitates the submission and award of PhD degrees. With the strength of 7 faculty members, currently 51 research scholars are engaged in the PhD programmes of the Department. Besides guiding research, the faculty has participated in webinars, symposia, and workshops and published research articles. The Department has to engage

guest lecturers to administer the courses as there are only seven regular faculty members.

The Department of Political Science, NEHU, in collaboration with the Political Science Research Scholars Forum (PSRSF), held a panel discussion Assembly Meghalaya Election Government Formation 2023 on 13th March 2023 in the Department of Political Science at 02:00 PM. Prof. T.T. Haokip, HoD, Dept. of Political Science chaired the discussion and Prof. H. Srikanth, Dept. of Political Science, Prof. L. Kma, Dept. of Biochemistry, Prof. S. Umdor, HoD, Dept. of Economics and Dr Benjamin F. Lyngdoh HoD, Dept. of Tourism & Hotel Management as the panelists. The panelists gave different insights and opinions on the recently

concluded Assembly election and government formation from the discussion.

Students' Profile

- > Enrolment Capacity: M.A.: 102 Ph.D.: Variable.
- > Enrolment of students from different States of India and Abroad (M.A.)

	Ger	1	ST		SC		OBC	7	EWS	S	PW	'D	TOTA	L
STATE	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal	-	-	2	4	-	-	-	-	-	-	-	-	2	4
Pradesh														
Assam	4	4	-	-	-	-	-	-	1	1	1		6	5
Bihar	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Karnataka	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Manipur	-	-	2	3	1	-	-	-	-	-	-	-	3	3
Meghalaya	1	-	14	42		-	-	-	-	-	1	2	16	44
Mizoram	-	-	3	2		-	-	-	-	-	-	-	3	2
Nagaland	-	-	1	7		-	-	-	-	-	-	-	1	7
Sikkim	-	1	-			-	-	-	-	-	-	-		1
Tripura	-	-	-	1		-	-	-	-	-	1	-	1	1
West Bengal	1	-	-			-	-	-	-	-		-	1	
Sub Total	08	05	22	59	1	-	-	-	1	1	3	2	35	67
International	-	-	-	-	-	-	-	-	-	-	-	-	1	 -
(Myanmar)														
Total	13		81		1		-		2		5		102	

> Enrolment of students from different States of India and Abroad (Ph. D.)

	Ger	1	ST		SC		OB	C	EW	S	PW	D	TOT	`AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	-	-	_	1	-	-	-	-	-	-	-	-	-	1
Assam	2	7	3	2	1	-	1	1	-	-	-	-	7	10
Manipur	-		5	6	-	-	-	-	-	-	-	-	5	6
Meghalaya	-	1	8	3	-	-	-	-	-	-	-	-	8	4
Nagaland	-	-	3	5	-	-	-	-	-	-	-	-	3	5
Sikkim	-	-	_	1	-	-	-	-	-	-	-	-	-	1
West Bengal	-	1	_	-	-	-	-	-	-	-	-	-	-	1
Sub Total	2	8	19	18	1		1	1	1	1	-	_	24	28
Total	10		35		1		2		2		-		52	

Degrees Awarded

- > M. A.: 53, Ph.D.: 04
- > Degrees Awarded to students from different States of India and Abroad (M. A.)

	Gen		ST		SC		OBC	7)	EW	S	PW	D	TOT	ΊΑL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Pradesh														
Assam	-	-	-	-	-	-	-	-	1	3	-	-	1	3
Manipur	-	-		3	-	-	-	-	-	-	-	-	-	3
Meghalaya	-	2	12	24	-	-	-	-	-	1	-	-	12	27
Mizoram	-	-	-	1	-	-	-	-	-		-	-	-	1
Nagaland	-	-	1	4	-	-	-	-	-		-	-	1	4
Total	2		46		-		-		5				53	

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

O						` ,	
	Gen	ST	SC	OBC	EWS	PWD	TOTAL

North-Eastern Hill University

Annual Report (2022-2023)

STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	1	-	1	-	-	-	-	-	-	-	-	-	2	-
Meghalaya	-	-	2	-	-	-	-	-	-	-	-	-	2	-
Total	1		3		-		-		-		-		4	

Name of	Title of Thesis	Name(s) of
Student		Supervisor(s)
Mr. Sanborlang	"Inter-State Border Disputes between Assam and	Prof. T. T. Haokip
Tynsong	Meghalaya"	
Mr. Kamal Kr.	"Electoral Politics in Bodoland Territorial Area	Prof. T. T. Haokip
Brahma	District: A Study of Kokrajhar East and Majbat	
	Constituencies in 2016 Assembly Elections	
Mr. Dewajit	"Assam Assembly Election 2016: A Study of	Dr. Biswajit
Kalita	Voting Behaviour in Jalukbari and Paneri	Mohapatra
	Constituencies"	
Mr. Spainlinmi	"India-USA Relations with Reference to Defence	Prof. M. Majumdar
B. Lapasam	and Civil Nuclear Cooperation (2000-2013)"	_

Research Fellowship

CSIR- UGC-NET	UGC Non-Net		National Fellowship & Scholarship for Higher Studies of ST Students	Maulana Azad National Fellowship	Savitribai Jyotirao Phule Single Girl Child Fellowship (SJSGC)
5	8	4	1	1	1

Field Work/Educational Tour of Students

Teacher-in-Charge: Dr. Biswajit Mohapatra **Places/Institutions Visited:** Goa and Mumbai **Duration of Tour (Dates and number of**

days):13th - 30th January, 2022

Purpose of Tour: Educational Study Tour.

Courses Conducted

> Postgraduate – M. A. (Pol. Sc.)

Semester I: Liberal Traditions in Western Political Theory; Theories of International Politics; Issues & Governance in Public Administration; Indian Political System; Issues in Environmental Politics.

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

> Ph.D. Courses

Research Methodology; Seminar Paper on Frontier of Knowledge in the relevant field; Advance Studies in International Politics; Research and Publication Ethics

Publications

> Research papers (01)

- Sen Gupta, S. (2023). Meghalaya Assembly Elections 2023: Issues and Trends. *Economic and Political Weekly.*, *LVIII(9)* :16-18
 Book Chapters (05)
- 1. Srikanth, H. (2023). "Assam-Bangladesh Border" in Jelle J.P. Wouters and Tanka B. Subba (Eds.) *The Routledge Companion to Northeast India*,

- Routledge, 2022, ISBN: 9781032534480. Chapter 3, pp.15-22
- 2. Haokip T. T. (2023). "Inter-State Border Disputes" in Jelle J.P. Wouters and Tanka B. Subba (Eds.) *The Routledge Companion to Northeast India*, Routledge Taylor & Francis Group, London and New York, ISBN 9781032534480, Chapter 46, pp.279-283
- 3. Majumdar M. (2023). "Sino-Myanmar ties: "Paukphaw" (fraternal or sibling) relationship or for advancing China's BRI? in C. Vinodan Anju Lis Kurian, China's BRI Project: Regional and Global Dimensions, Scholars Press, ISBN: 978-620-5-52103, Republic of Moldova, Europe, pp.127-143
- 4. Mohapatra B. (2022). Gender Equality and Men-Perspectives and Prospects of Elimination of Violence against Women in India in Book: Engendering Budget for Gender Equality: India and Bangladesh Perspectives, Jayanta Choudhury (Ed.), ISBN: 978 93 91870 28 7, DPS Publishing House, New Delhipp.140-149.
- 5. Mohapatra B. (2022). India-Myanmar Relations: Contours and Challenges, in Saroj Kumar Verma (Ed.), Changing Dimensions of India's Foreign Policy, ISBN:978-93-92338-02-1, Victorious Publishers (India), Delhi pp.175-188.

> Popular Articles (News Paper and Magazines) (16)

- 1. Srikanth, H. 2022. Is Meghalaya ready for NEP 2020?. *The Shillong Times*. 10 May.
- 2. Srikanth, H. 2022. Four-Year Degree Boon or Bane. *The Shillong Times*, 17 May.
- 3. Srikanth, H. 2022. Why not one more university?, *The Shillong Times*, 24 May.
- 4. Srikanth, H. 2022. Civic Engagement of Universities. *The Shillong Times*, 9 June.

- 5. Srikanth, H. 2022. Modi@22: Dreams that don't meet delivery. *The Shillong Times*, 9 August.
- 6. Srikanth, H. 2022. Is NEP 2020 the garb for saffronization?. *The Shillong Times*, 23 August.
- 7. Srikanth, H. 2022. We, the middle-class intellectuals, *The Shillong Times*, 23 September.
- 8. Srikanth, H. 2022. NEHU and NEP 2020. *The Shillong Times*, 28 September.
- 9. Srikanth, H. 2022, Unemployment as a political weapon, The Shillong Times, 10 November.
- 10. Srikanth, H. 2022. Making a mockery of the Constitution Day, The Shillong Times, November 26.
- 11. Srikanth, H. 2022. Bharat Jodo: Thinking Beyond Electoral Politics. The Shillong Times. 11 December.
- 12. Srikanth, H. 2023. Is the Movie Pathaan a game-changer. *The Shillong Times*, 1 February 2023
- 13. Srikanth, H. 2023. Recruitment of teachers: Key to Quality Education. *The Shillong Times*, 23 February.
- Srikanth, H. 2023. In Meghalaya, Conrad bridges old faultlines, March 3, *The Hindustan Times*, 6 March. 2023
- 15. Srikanth, H. 2023. Mind it, It's yet another Conrad Led Government, The Shillong Times, 6 March, 2023
- 16. Srikanth, H. 2023, Putting cart before the horse. *The Shillong Times*, 28 March.
- 17. Mohapatra Biswajit, Democratic Governance and Institutional Reforms: Essential for Good Governance, Perspectives- Journal of the Dept of Political Science, SidhoKanhoBirsha University (Public State University), Purulia, West Bengal

Funds received during 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 lakh

Seminar/Conference/Symposium/Extension Programme etc.

Debbarma, K.

- 1. Debbarma, K., Panelist and delivered a talk on "Development of Infrastructural Facilities in Enhancing Indo-Bangladesh Ties vis-à-vis Meghalaya" in the International Inter-Disciplinary Seminar on "Look South Policy vi-a-vis Meghalaya" held on 21 November 2022 in Synod College, Shillong.
- 2. Debbarma, K., delivered a lecture on "Perspective of Development in the Indigenous Areas of North East India" on 13th October 2022 in a Refresher Course in Political Science Organized by HRDC, NEHU, Shillong.
- 3. Debbarma, K., chaired a Technical Session on "Governance and Development" in the National Seminar held on 7th July 2022, organized by MTCA in UCC, Meghalaya.

Srikanth, H.

- 1. Srikanth, H. 2022. NEP and School Education. Paper presented in a seminar on "NEP 2020- A Critical Overview", organized by Rotact Club, Shillong Heritage at Asian Confluence Centre, Laitumkhrah on the 17th of September 2022.
- 2. Srikanth, H. 2022. "New Education Policy 2020: The Way Forward". National Seminar on Implementation of New Education Policy organized by Education Department, Synod College, Shillong, November 17-18.
- 3. Srikanth, H. 2023. "Historical Materialism and Tribal Question in North-East India". Presented to 26th IPEA Annual Conference held at GITAM University, Vishakapatnam, February 17-18.

Haokip, T.T.

- 1. Delivered a lecture on "Border Communities of India-Myanmar" on 17th October, 2022 in the Refresher Course in Political Science, organised by HRDC, NEHU, Shillong.
- 2. Delivered a lecture on "Inter-State Border Disputes in Northeast India" on 18th October, 2022 in the Refresher Course in Political Science, organised by HRDC, NEHU, Shillong.
- 3. Delivered a lecture on "Making of India-Myanmar" on 3rd December, 2022 in the Refresher Course in History, organised by HRDC, NEHU, Shillong.
- 4. Delivered a lecture on "Trans-Border Community Linkage and Interactions among the Kukis of India-Myanmar" on 3rd December, 2022 in the

- Refresher Course in History, organised by HRDC, NEHU, Shillong.
- 5. Delivered a Lecture on "Dignity, Freedom and Justice for All" on International Human Rights Day at St. Mary's College, Shillong, on 10th December 2022.
- 6. Presented a paper on "Village Authority Act (1956) and ML&LR Act (1962)" at the national seminar on Land Use and Management Policy in the Hills of Manipur: A Reformist Perspectives organised by the Kuki Research Forum on 29th December2022 at Saikul, Kangpokpi District, Manipur.
- 7. Chaired a Technical Session on "Land Use and Management Policy in the Hills of Manipur: A Reformist Perspectives" on 29th December, 2022 organised by the Kuki Research Forum from 28-29th December 2022 at Saikul, Kangpokpi District, Manipur.
- 8. Coordinator for facilitating Centre for Global Studies (CGS) "Samiksha 2023: Meghalaya Assembly Election" held during 18-23 February, 2023.
- 9. Delivered a Lecture on "Meghalaya Assembly Election 2023" organised by the Department of Public Administration and Indian Institute of Public Administration, Mizoram Branch at Mizoram University on 10th March 2023.
- 10. Chaired a Panel discussion on "Meghalaya Assembly Election and Government Formation 2023" organised by the Department of Political Science, NEHU, in collaboration with the Political Science Research Scholars Forum (PSRSF) at Department of Political Science, NEHU, Shillong) on 13th March 2023.

Sen Gupta, Susmita

- 1. Presented a paper entitled "Role of Sri Aurobindo in the Nationalist Movement and Relevance of his Concept of Nationalism in Recent Times" in the International Conference on "Sri AurobindoGhose:Past and Present" held on 22nd August, 2022 at Women's College, Shillong.
- 2. Presented a paper entitled "Interface between Civil and Political Society in Meghalaya" in the National Seminar on "Meghalaya in the 21st Century" held during 3-4 March, 2023 at Women's College,
- 3. Presented a paper entitled "Nationality Politics in Northeast India: A Comparative Analysis of Assam and Meghalaya" in the 6th Scholars Academic and Scientific Society (SAS) International Conference and Awards 2023 (SICA-

- 2023) held on 5th March, 2023 at Lily Hotel, Guwahati.
- 4. Delivered a special lecture on "Recent Assembly Elections in Meghalaya" on 10th March, 2023 organized by the Department of Political Science, St. Edmund's College, Shillong.

Majumdar, Munmun

- Presented on "01 February 2021 coup in Myanmar: Implication for India"at the conference on Act East Policy, Regional Economic Integration and Development of the North-eastern Region of India organised by Indian Council of Social Science Research, North Eastern Regional Centre (ICSSR-NERC), Shillong in collaboration with Association of Asia Scholars (AAS), Delhi held on 13th May 2022 at ICSSR-NERC office, Shillong
- 2. Munmun Majumdar., Sixth Global Studies Conference, The "International Around the World Multiple Voices, Alternative Orders", Buenos Aires, Argentina, 28 June - 1 July, 2022.

Mohapatra, Biswajit

- 1. Mohapatra Biswajit, Paper presented on "Internationalization of Education and the Indian State- Mechanisms for Enabling Equity and Access" in International Higher Education Dialogue Conference 2022 (iHED). on 4th May 2022, organized by German Academic Exchange Service, India
- 2. Mohapatra Biswajit, delivered a lecture on "Ethical Decision-making in Research, in FDP on Research Methodology" organized by Mahendra Narayan Choudhury Balika Mahavidyalaya, Nalbari, Assam on 29th March 2023 at 11.15 AM
- 3. Mohapatra Biswajit, delivered a Lecture on "Promotion of Liberal Arts Education in Indian Universities-Challenges and Strategies", in the Refresher Course in Liberal Arts, organised by UGC-Human Resource Development Centre, Guru Nanak Dev University, Amritsar on March 27, 2023, at 12.00 noon
- 4. Mohapatra Biswajit, delivered a Lecture on "NEP2020 and Promotion of liberal Arts in Indian Education System" in the Refresher Course in Liberal Arts, organised by UGC-Human Resource Development Centre, Guru Nanak Dev University, Amritsar, on March 27, 2023, at 10AM
- 5. Mohapatra Biswajit, delivered a Lecture in the second session on "Prisons and The Criminal Justice System in India, 6th Faculty Induction Programme", organized by UGC-HRDC Mizoram University, Aizawl, on 8th February 2022 at 11.45 AM.

- 6. Mohapatra Biswajit, delivered a lecture on "Multiculturalism-Need for Framing an Appropriate Policy, 6th Faculty Induction Programme", organized by UGC-HRDC Mizoram University, Aizawl on 8th February 2022 at 9.30 AM
- 7. Mohapatra Biswajit, delivered a Special Lecture titled "Women in Indian Freedom Struggle-Past History Influencing Present Trends", in the Valedictory Function on 28th December 2022, Two Days National Seminar to celebrate India's 75th Year of Independence on 'Celebrating Unsung Women Freedom Fighters', organized by Govind Ballabh Pant Social Science Institute, Prayagraj, Allahabad, Uttar Pradesh.
- 8. Mohapatra Biswajit, delivered online Lecture on "Multiculturalism and Modern Nation-States: Challenges to Democratic Governance, Faculty Induction Programme", UGC-HRDC, Mizoram University, Aizawl, Date Nov 3, 2022, Time: 1.30 PM
- 9. Mohapatra Biswajit, Mohapatra Biswajit, delivered an Invited Talk online on "Dr Ambedkar, Indian Constitution and the Case for Social Justice", in the Refresher Course in Law and Political Science (11.07.2022 to 23.07.2022) at Day 5, on 15th July 2022, from 1.30 PM to 3.00 PM at UGC-HRDC, University of Rajasthan Jaipur.
- 10. Mohapatra Biswajit, delivered a talk on "Politics of Protest, Violence and Civil Disobedience: Significance of Gandhian Ideas" in the One Day Webinar (Blended Mode) on 'Gandhism After Gandhi', on June 20th, 2022, from 3 PM to 5 PM, by Gandhian Studies Center, Vidyasagar University, Midnapore, West Bengal

Bhattacharjee, Suparna

- 1. Bhattacharjee, Suparna, Presented a paper entitled, "Border haat: A symbol of De-territorialisation" on 2/10/22 in the national seminar, Border and Boundaries in North-East India, organized by Ministry of Home Affairs, Government of India in collaboration with ICSSR,NERC, Shillong, 01/12/22-02/12/22
- 2. Bhattacharjee, Suparna, Lecture delivered on ,"Border Haat in NER:Through the Lens of History", Refresher Course organised by the Department of History, NEHU, Shillong, 29/11/22
- 3. Bhattacharjee, Suparna, Lecture delivered on "Border haatinNER: Dimension of interactio",

Refresher Course organised by the Department of History, NEHU, Shillong, 30/11/22

Other Activities

1. Bhattacharjee, Suparna., Coordinated the national seminar, titled, Border and Boundaries in North-East India, organized by Ministry of Home Affairs, Government of India in collaboration with ICSSR, NERC, Shillong, 01/12/22-02/12/22

SUMMARY SHEET FOR THE ACADEMIC YEAR 1^{ST} APRIL 2022 TO 31^{ST} MARCH 2023

Details of Faculties	Name		1	K. Debbarma	H. Srikanth	T.T. Haokip	Susmita Sengupta	Munmun Majumdar	Biswa jit K. Moha patra	Suparna Bhatta- charjee
	Date of Joining		2	16.07. 1990	07.05. 2002	18.12. 1996	04.07. 1994	13.06. 2007	16.01. 1997	30.01. 2006
	Field of specialisation		3	Develop- mentAdmini stra-tion, Human Rights, Migration Politics in North East.	Political Theory, Political Economy	Foreign Policy, Public Admn, Internati onal Law, Public Policy in NE India	Indian Politics, Indian Political Economy, Politics of North-East India	South-East Asia and Internationa I Politics	Politic s & Interna -tional Relati ons	Internation al Politics
(A) Teaching	UG		4	1 year & 6 months			3	20		
Experienc e (in Years)	PG, including PhD		5	33	26	27	29	16	26	17
	Basic Research		6	Yes	Yes	Yes	Nes	Yes	Yes	Yes
	Applied Research		7	-	-	-	-	-	-	-
	Action Research		8	-	-	-	-	-	-	-
	Project Submitted		9	-	-	-	-	-	-	1
	Ongoing Project	G 1	10	_	-	-	-	-	-	-
	Research Paper in UGC care list journals	Group I Group II	11	-	-	-	-	-	-	-
	Books /Books	Books	13	-	-	-	-	-	-	-
(B) Research	chapters Published	Book Chapters	14	-	1	1		1	2	-
activities	Popular Articles (News Paper/ Magazines)		15	-	16	-	-	-	1	-
	Seminar /	National	16	_	_	-	_	_	-	_
	Conference/ Symposia	International	17	-	-	-	-	-	-	-
	organized Seminar /	National	18	2	3	10		1	11	3
	Conference/ Symposia attended	International	19	1	-	-	-	1	-	-
	Conference Proceedings		20	-	-	-	-	-	-	-
	Consultancy		21	-	-	-	-	-	-	-
	Applied		22	-	-	-	-	-	-	-
(C) Patent	Published		23	-	-	-	-	-	-	-
	Granted		24	-	-	-	-	-	-	-
(D) E-Content	MOOC/SWAYA M/ E-content developed		25	-	-	-	-	-	-	-
	Teaching /Extension /outreach activities		26	-	-	-	-	-	-	-
(E) Any Other	Responsibilities other than teaching		27	Dean School of Social Sciences	-	HoD Political Science	-	-	-	-
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	Life Member of IIPA, NEIPSA, ISTD	-	-	-	-	-	-
	Collaborations	National	29	-	-	-	-	-	-	-
	I	International	30	-	-	_	-	_	-	_

DEPARTMENT OF SOCIOLOGY

Head: Prof. B. Panda **Telephone:** +91-364 - 272 3040

E-mail: hodsoc@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
	Dr. D. V. Kumar, M.A., M. Phil., Ph.D. (JNU)	Modernization, Ethnicity, Social Change, Gender
Professor	Dr. B. Panda. M.A., M.Phil. (University of Hyderabad), Ph. D. (IIT Kanpur)	Sociology of Third Sector, Sociology of Development, Migration
2203000	Dr. Rekha M. Shangpliang, M.A., M. Phil., Ph.D. (NEHU)	Sociology of Environment Sociology of Gender, Sociology of Family & Kinship
Assistant Professor	Dr. Md Yusuf Khan, M.A. (AMU), M. Phil. (DU), Ph. D. (NEHU)	Ethnic Relations, Urban, Sociology, Migration

Thrust Areas of Research

Social Change is the main thrust area of the Department. It is concentrating in understanding the sociocultural changes that are 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 works in various journals and anthologies. 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 organized one international conference and one national seminar through virtual mode. The Department also organized special lectures, cleaning drive and plantation programme.

Students' Profile

> Enrolment Capacity: M.A. 55 Ph.D. variable

> Enrolment of students from different States of India and Abroad (M. A.)

	Gen		ST		SC		OB	С	EW	S	PWI)	TOT	ΓAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	2	10	1	1	-	-	-	-	-	_	-	-	3	11
Manipur	-	2	3	4	-	1	-	-	-	-	-	-	3	7
Meghalaya	-	2	7	14	-	-	-	-	-	-	-	1	7	17
Mizoram	-	-	-	5	-	-	-	-	-	-	-	-	-	5
Total	16		35		1		-		-		1		53	

Degrees Awarded

> M.A.: 52, Ph.D.: 01

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

	Gen		ST		SC		OBC	7	EWS	S	PWD		TOT	ΆL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Pradesh														
Assam	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Manipur	-	-	2	5	-	-	-	-	-	-	-	-	2	5
Meghalaya	-	1	1	37	-	-	-	_	-	-	-	-	1	38
Mizoram	-	-	-	4	-	-	-	-	-	-	-	-		4
Total	2		50		-		-		-		-		-	

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC	7	EWS	5	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Nagaland	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Total	_	•	-	•	-	•		<u> </u>	-	•	-		-	

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Ms. Yongkongnukla Ozukum	Women Entrepreneurs of Nagaland: A Sociological Study	Prof. B. Panda

Research Fellowship

CSIR-UGC JRF-NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	ICSSR	Maulana Azad National Fellowship	NFST
5	5	-	2	-	1

Courses Conducted

> Postgraduate – M. A. (Sociology)

Semester I (NEP-2020): Classical Sociological Theories; Methodological Issues in Social Research; Sociology of Family and Kinship; Sociology of Religion; Sociology of Gender.

Semester II (NEP-2020): Modern Sociological Theories; Indian Society; Social Change; Sociology of Environment; Research Methodology and Proposal Writing; Community Development: Approaches and Strategies.

Semester II (CBCS): Sociological Theories – II; Methodology of Social Research – II; Sociology of Religion; Indian Society – III; Open Course – Ethnic Relations.

Semester III (CBCS): Economy and Society; Political Sociology; Sociology of Development;

Open Course – (Sociology of Gender); Open Course – Urban Sociology.

Semester IV (CBCS): Social Change; Sociology of Environment; Tribal Movements in India; Sociology of Organisations; Sociology of Development- II.

Seminars/Conferences/Workshops/Symposia/ Extension Programmes

- 1. International Conference on *Revisiting Social Theory: Challenges and Possibilities* during 16th 17th November, 2022 in virtual mode. (Convenor: Prof. D.V. Kumar).
- 2. National Seminar on *Gender, Society and Development in the Context of North-East India* during 27th-28th March,2023 in virtual mode.(Convenor: Prof. R.M. Shangpliang).

- 3. Lecture on *Food Sovereignty,a plantation programme* and *a cleaning drive* tocommemorate the 2nd Death Anniversary of Prof. A. K. Nongkynrih. The lecture was delivered by Prof. B. Karlssonof Stockholm University Sweden.
- 4. lecture on *Gender and Leadership Style: Human Rights and Development on* 27th October, 2022. The lecture wasdelivered by Hasina Kharbhih, Founder and Managing Director, Impulse NGO Network.

Publications

- > Research Papers (1)
- Yuzukum, Y.; Panda, B. (2022). Women Entrepreneurs and Their Problems in Nagaland: An Empirical Exploration. *Explorations ISS e Journal.*, 6 (2): 104-124.
- > Book Chapters
- 1. **Panda, B.** (2022). Observation as a Technique of Data Collection. In *Research Methodology*, Sharalyne, K. Badaker M. Laloo and Shanwel Khongwir (Eds.). EBH Publishers, Guwahati, ISBN:978 93 92038 23 5, Chapter 5, pp. 57-67.
- 2. **Shangpliang Rekha M.** (2022). Meghalaya and the Covid-19 crisis through a gendered lens, In *A Retrospection into Meghalaya's 50 years journey of statehood.* David Arnold Kharshandy, ISBN: 978 81 94893-61-5, Chapter 6, pp. 89-97.

Funds received during current year

3. Shangpliang Rekha M. (2023). Livelihood Interventions and Marginalization in Land and Forest Rights of rural Khasi women. In *Identity and Marginality in Northeast India: Challenges for Social Science Research*. Hoinelhing Silthou(Ed.) Orient Blackswan, ISBN:9789354423871, Chapter 11, pp.243-248.

- 4. **Shangpliang Rekha M.** (2023). Mortuary Beliefs and Practices among the Khasi tribe of Meghalaya, India. In *Death and Dying in North East India: Indigeneity and Afterlife*. Parjanya Sen and Anup Shekhar Chakravarty (Eds.). Routledge, ISBN: 9781032344225, Chapter 2.
- Popular Articles in Newspaper and Magazines(3)

Prof. D. V.Kumar

- 1. Let there be true and authentic celebration of Independence, The Shillong Times, 13th August, 2022.
- 2. Violence-Its self-defeating nature, The Shillong Times, 5th November, 2022.

Prof. Rekha M. Shangpliang

 Special article on "Matriliny in transition-The Khasi kinship system" in East India Story (EMagazine) 22nd April,2022.

Bulk Grant to Department/Centre/Section etc. other than EMR grant

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	1 lakh

Seminar/Conference/Symposium/Extension Programme etc.

Prof. D. V.Kumar

1. Chaired a session on Media and Disability and Representation in an International Conference Children and Media held during 5- 6 December, 2022 organized by Department of Sociology and Social Anthropology of Punjabi University, Patiala, Punjab.

Prof. B. Panda

1. Chaired a session on 17th November, 2022 at International Conference (virtual mode) on "Revisiting Social Theory: Challenges and

- Possibilities", organized by Department of Sociology, North-Eastern Hill University, Shillong during 16-17 November, 2022.
- 2. Presented a paper "Social Networks, Social Capital and Community Wellbeing: An Appraisal" at All India Sociological Conference, USTM December 20-22, 2022.
- 3. Presented a paper "Perceiving Socio-Cultural Changes in Meghalaya: Some Observations" at a National Seminar Shillong Women's College on 4th March, 2023.
- 4. Chaired a technical session on 27th March, 2023 in 2 Day National Seminar on "Gender, Society, and Development in the Context of North-East

India" (virtual mode) organized by Department of Sociology, NEHU during 27 -28 March, 2023.

Prof. Rekha M. Shangpliang

- 1. Presented a paper on Forest and Livelihood Interventions: The Khasi of Meghalaya at a National Seminar Forest Dependent Rural Livelihoods held organised by Department of Botany and Law on February 24-26th, 2023.
- 2. Presented a paper on Women, Nature and Sustainability: Dynamics , Challenges and Prospects with special reference to the Khasi at an International Seminar on Sustainability towards a renewing existence held on the 25th and 26th August 2022 at Synod College, Shillong.
- 3. Presented a paper on "Border Haats in Meghalaya: Rediscovering Trading Activities as a Means of Sustaining Economy with Special Reference to Balat Village" at an International Seminar on Look South Policy vis-à-vis Meghalaya organised by Synod College, Shillong during 21-22 November, 2022.
 - 4. Presented a paper on "Border Haats in Meghalaya: Rediscovering Trading Activities as 1. a Means of Sustaining Economy with Special Reference to Balat Village" at an International 2. Seminar on Look South Policy vis-à-vis Meghalaya organised by Synod College, Shillong 3. during 21-22 November, 2022.
- 5. Presented a paper on "Eco-Feminism in the Context of the Khasi of Meghalaya" at an

international seminar on organized by the Dept. of Sociology, NEHU on "Revisiting Social Theory: Challenges and Possibilities" during November 16 – 17, 2022.

Dr. Md. Yusuf Khan

 Presented a paper on "Migration and Empowerment of Pangal Women: A Sociological Analysis" at 2 Day National Seminar on "Gender, Society and Development in the Context of North-East India" held during 27th -28thMarch, 2023 organized by the Department of Sociology, North-Eastern Hill University, Shillong, Meghalaya.

Honours/Awards/Recognition/Membership/Fe llowship

Prof. B. Panda

1. Advisory Board Member for the Annual Interdisciplinary Journal of Shillong College, *Echoes from the Hills*.

Prof. Rekha M. Shangpliang

- Member of Executive Committee of the Meghalaya Minor Mineral Reclamation Fund.
- Management Authority, Forests and Environment Department, Government of Meghalaya.
- . Member of Ethics Committee, Gordon Roberts Hospital, Shillong.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

	Name		1	D.V.Kumar	B. Panda	Rekha M.	Md. Yusuf
Faculties	D (CI : :		2	17.02.1000	20.4.2002	Shangpliang	Khan
	Date of Joining		2	15.02.1990	30.4.2002	02.06.2003	02.07.2012
	Field of		3	Modernizati	Sociology of	Sociology of	Urban
	specialisation			on,	Third Sector,	Environment	Sociology,
				Ethnicity, Social	Sociology of	Sociology of	Ethnicity
					Development	Gender,	
				Change, Gender	Migration	Sociology of	
				Gender		Family &	
(4)	UG		4			Kinship 8	
			5	33	21		10
	PG, including PhD		3	33	21	19	10
Experienc							
e (in Years)							
	D D		(V	V	V	Yes
	Basic Research		7	Yes Yes	Yes	Yes	
	Applied Research		-	†	Yes	Yes	Yes
	Action Research		8	-	-	-	-
	Project Submitted		9	-	-	-	-
	Ongoing Project		10	-	-	-	-
	Research Paper in	Group I	11	-	1	-	-
	UGC care list	Group II	12	-	-	-	-
	journals						
(D)	Books /Books	Books	13	-		-	-
(B) Research	chapters Published	Book	14	-	1	3	-
,		Chapters					
	Popular Articles		15	2	-	1	-
	(News Paper/						
	Magazines)						
	Seminar /	National	16	-	-	3	-
	Conference/	International	17	1	-	-	-
L	Symposia organized						
	Seminar /	National	18	-	2	1	1
	Conference/	International	19	1	-	3	-
L	Symposia attended						
	Conference		20	-	-	-	-
L	Proceedings						
_	Consultancy		21	-	-	-	-
	Applied		22	-	-	-	-
(C)	Published		23	_	-	_	_
Patent	ruonsneu		23	-	-	-	-
	Granted		24	-	-	-	-
	MOOC/SWAYAM/		25	-	-	-	-
()	E-content developed						
	Teaching /Extension		26	-	-	4	-
	outreach activities						
	Responsibilities		27	-	Yes	Yes	-
	other than teaching						
(E)	Awards/ Honours/		28	-	Yes	Yes	-
` '	Recognition/						
•	Membership/						
	1						
	Fellowship						
	Fellowship Collaborations	National	29	-	-	-	-

VIII. SCHOOL OF TECHNOLOGY

Dean:	DEPARTMENTS UNDER THE SCHOOL
Prof. L.J. Singh	
(till 24.11.2022)	Department of Architecture
,	Department of Basic Sciences & Social Sciences
Prof. Md. Iftekhar Hussain	Department of Biomedical Engineering
(since 25.11.2022)	Department of Computer Application
E-mail: deanst@nehu.ac.in	Department of Electronics & Communication
Telephone: +91-364-272 3601	Engineering
Telephone. +91-304-272 3001	Department of Energy Engineering
	Department of Information Technology
	Department of Nano Technology

1. Vision and Mission of the School

Vision: To become a vibrant school of study for career-oriented quality engineering education and technological research to improve human lives with a special focus on North-Eastern Region (NER).

Mission:

- (i) To impart career-oriented engineering education to mitigate the shortage of quality technical manpower from the NER
- (ii) To carry out research on cutting-edge technologies to improve human lives
- (iii) To develop technological solutions to the issues of NER

2. Major Achievements/Highlights

- a. Organized International Conference on Computing and Communication Systems (I3CS 2023) during 16-18 March 2023
- b. Organized International Conference on Data, Electronics and Computing (ICDEC-2022) in association with COMSYS Educational Trust, Kolkata during 7-9 September, 2022
- c. Organized National Conference on Smart Material and Nanotechnology during 29-30 November, 2022

3. Future Plans

To start basic Engineering Departments like Civil, Mechanical, and Electrical.

4. Salient Data of the School [2022-2023]

Number of Students awarded Ph.D. Degree	05							
Number of Research Publications	104							
Number of Books, Book Chapters, and Proceedings	53							
Number of Research Projects (Fund Received)								
Completed (1)	10.75 Lakhs							
On-going (11)	21.47414 Lakhs							
New (1)	16 Lakhs							
Number of Consultancy Projects (Fund Received)								

National (2)	1.003 Lakhs						
International	NIL						
Number of Students Placed	16						
Number of Students Selected for Higher Studies	24						
Total Number of Patents							
Filed	01						
Published	01						
Granted	03						
Policy Documents: Status (Name of the Agency) and Number							
(i) Applied	NIL						
(ii) Approved	NIL						

DEPARTMENT OF ARCHITECTURE

Head: Mr. Banbhalang Swer **Telephone:** +91-364-272 4103

E-mail: 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 Studies
	Ar. Ibynta Bakmen Tiewsoh, Master of Design (IIT Bombay)	Industrial Design
	Ar. Rameez Raja Gazi, Master in Landscape Architecture (SPA, Delhi)	Landscape Architecture (Ecological landscapes)

Thrust Areas of Research

Architecture, Urban Planning & Urban Design.

Brief Statement of Academic Activities and Achievements

The Department of Architecture during the Academic year 2022-2023 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 (B. Arch.)

	Gen	1	ST		SC		OBC	7)	EWS	S	PWD		TOT	'AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Assam	4	3	1	1		2	-	-	-	1	-	-	5	7
Jammu and	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Kashmir														
Manipur	-	-	-	-	-	-	-	-	1	-	-	-	1	-
Meghalaya	-	-	7	6	-	-	-	-	-	-	-	-	7	6
Uttar Pradesh	-	1	-	-	-	-	-	-	-	-	-	-	-	1
West Bengal	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Total	10		16		2		-		2		-		30	

Degrees Awarded

> B. Arch: 20

Degrees Awarded to students from different States of India and Abroad (B. Arch.)

	Gen		ST		SC		OBC	7	EW	S	PWD)	TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	12	2	-	-	-	1	-	-	-	-	-	-	12	3
Meghalaya	-	-	2	3	-	-	-	-	-	-	-	-	2	3
Total	14		5		1		-		-		_		20	

Students Selected for Higher Studies

Name of the Name of the		Institution/Organization	Country
Student(s)	Programme	_	_
Hemanga	MBA-CPM	RICS school of built environment,	India
Pratim	(Construction and	Amity	
Bordoloi	project management)	University, NOIDA, UP	
Jubin	M.Arch - Urban	University School of	India
Kashyap	Design	Architecture and	
		Planning, GGSIPU, New Delhi	

Courses Conducted

> B.Arch.

Semester I: Structural Design-I (Applied Mechanics); Building Materials-I; Introduction to Architecture; Communication Skills-I; Architectural Design-I; Building Construction and Technology-I; Architectural Graphics-I; Workshop-I.

Semester II: Structural Design-II; Building Materials-II; History of Architecture-I; Architectural Design- II; Building Construction and Technology-II; Architectural Graphics-II; Workshop-II.

Semester III: Structural Design-III; Building Materials-III; History of Architecture-II; Climatology-I; Surveying and Levelling; Architectural Design-III; Building Construction and Technology-III; Architectural Graphics-III (Computer Applications)

Semester IV: Structural Design-IV; Building Materials- IV; Modern Architecture; Climatology-II; Building Services-I; Architectural Design-IV; Building Construction and Technology-IV; Architectural Graphics-IV (Computer Applications)

Semester V: Structural Design-V; Theory of Design-I; Environmental Studies; Elective-I: (i) Interior Design, (ii) Art in Architecture and History of Meghalaya's Art and Culture; Building Services- II (Electrical, Fire Fighting & HVAC); Architectural Design-V; Building Construction and Technology-V; Architectural Graphics-V (Computer Application).

Semester VI: Structural Design-VI; Theory of Design-II; Estimation, Costing and Specifications; Elective-II: (i) Design for Differently-abled, (ii) Sustainable Architecture; Building Services-III (Architectural Acoustics); Architectural Design-VI; Building Construction and Technology-VI; Working Drawing-I.

Semester VII: Advanced Structural Design-I; Landscape Architecture; Town Planning and Building Bye laws; Elective-III: (i)Industrial Design, (ii) Intelligent Buildings; Landscape Architecture (Studio); Architectural Design- VII; Building Construction & Technology – VII; Working Drawing – II.

Semester VIII: Advanced Structural Design-II; Theory of Urban Design; Project Introduction and Dissertation; Elective – IV: (i) Urban Conservation, (ii) Housing, (iii) Construction Management and Real Estate; Architectural Design – VIII (Urban Design); Research Seminar; Building Construction & Technology-VIII.

Semester IX: Professional Training.

Semester X: Professional Practice and Management; Design Thesis; Architectural Seminar.

Seminars/Conferences/Workshops/Symposia/ Extension Programmes

- 6. A four-day workshop on "AutoCAD Architecture, BIM concept with Revit Workshop" held from 31st October to 3rd November 2022.
- 7. Organised a two-day Webinar entitled "India's Cultural Landscape of Universal Value: Majuli" of the "Unfold North East" series by ICOMOS NE Zone on 12th to 13th December 2022.

8. One day regional seminar on environmentally technologies friendly building entitled "Architecture of Sensibilities and Responsibilities" on 12th of October 2022 at the auditorium of U Kiang Nangbah Guest House of North-Eastern Hill University, Shillong. (Convener - Rameez R. Gazi)

Publications

> Research papers

8. Swer, B., Mipun, B. (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 Vol. 26 No. 3 (January - June, Special Issue 2022 Part - 6) Applied Sciences and Technology ISSN: 0972-3641.

Funds received during current year

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

Sr. No.	Funding Agency	Amount (Rs. In Lakhs),
01	NEHU	1.0

Academic Collaborations Ibynta Bakmen Tiewsoh

National

1. Dr Madeline Tham, Convenor INTACH Meghalaya Chapter to prepare Feasibility report for Heritage Tourism potential in Sohra.

International

1. Dr Ferdinand Ludwig, Professorship for Green Technologies, Technical University of Munich for conducting workshop on Living Architecture.

Honours/Awards/Recognition/Membership/Fellowship

Ibynta Bakmen Tiewsoh

- 1. Member of International Council on Monuments and Sites (ICOMOS)
- 2. Life Member Indian National Trust for Art and Cultural Heritage (INTACH) and Co-Convenor of INTACH Meghalaya Chapter

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

Details of Faculties	Name		1	Banbhalang Swer	Rameez Raja Gazi	Ibynta Bakmen Tiewsoh
	Date of Joining		2	05/04/2013	10th April 2013	8th April 2013
	Field of specialisation		3	Urban Design, Urban Studies	Landscape Architecture	Masters in Design
(A) Teaching	UG		4	10 yrs 2 months	10 years 2 months	10 years 2 months
Experience (in Years)	PG, including PhD		5		No	No
	Basic Research		6	Yes	Yes	Yes
	Applied Research		7	Yes	Yes	Yes
	Action Research		8	-	No	No
	Project Submitted		9	-	No	No
	Ongoing Project		10	-	No	No
	Research Paper in	Group I	11	1	No	No
	UGC care list journals	Group II	12	-	No	No
	Books /Books	Books	13	Nil	No	No
(B) Research	chapters Published	Book Chapters	14	Nil	No	No
activities	Popular Articles (News Paper/ Magazines)	•	15	Nil	No	No
	Seminar /	National	16	Nil	Yes, Regional	Yes, National
	Conference/ Symposia organized	International	17	1	No	No
	Seminar /	National	18	Nil	No	No
	Conference/ Symposia attended	International	19	Nil	No	No
	Conference Proceedings		20	Nil	No	No
	Consultancy		21	Nil	No	No
	Applied		22	Nil	No	No
(C) Patent	Published		23	Nil	No	No
	Granted		24	Nil	No	No
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	Nil	No	No
	Teaching /Extension /outreach activities		26	Yes	Yes	Yes
	Responsibilities other than teaching		27	Yes	Yes	Yes
(E) Any Other	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	Nil	No	Yes – 2
	Collaborations	National	29	Nil	No	Yes - 1
		International	30	Nil	No	Yes - 1

DEPARTMENT OF BASIC SCIENCES AND SOCIAL SCIENCES

Head: Prof. M. M. Singh (till 28.11.2022)

Dr. P. Khongji (since 29.11.2022) **Telephone:** +91-364-272 3642 **E-mail:** hodbsss@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
Professor	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	Dr. A. Sinha; M.Sc. (LU), Ph.D. (NEHU)	Chemistry (Surfactant-Solute Interaction in Aqueous Phase), Environmental Chemistry
	Dr. Phrangstone Khongji, M.Sc. & Ph.D. (NEHU)	Statistics (Sample Survey, Stochastic Processes Demography)
	Dr. Krishna Upadhaya, M.Sc. & Ph.D. (NEHU)	Botany (Plant Ecology)
	Dr. Hiranjit Choudhury, M.Sc. & Ph.D. (NEHU)	Botany (Plant Biotechnology)
	Dr. (Mrs.) Jyoti Narayan, M.Phil. & Ph.D. (KU)	Physical Chemistry (Chemical Thermodynamics, Functionalized nanomaterials/nanofluids and nanocomposites)
Assistant	Dr. Sainkupar M.N. Mawiong,	Mathematics (Topology,
Professor	M.Phil. & Ph.D. (NEHU)	Dynamical Systems and Graph Theory)
	Dr. Regenel S. Kharwanlang, M.Sc. & Ph.D. (NEHU) Dr. R. S. Singh, M.Sc. (Jadavpur	Physics (Condensed matter Physics, Statistical physics) Chemistry (Organic synthesis,
	University), Ph.D. (CSIR-Indian Institute of Chemical Technology)	Organic materials)
	Dr. M. Mahato, M.Sc. (Burdwan University), Ph.D. (Calcutta University)	Physics (Applied Physics, Nanophysics)
	Dr. Munshi Ram, M.Com. (VBSPU), Ph.D. (BHU)	Commerce- HRM (Human Resource Management)
	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, Theoretical and Applied Statistics, and Communicative English, with emphasis on interdisciplinary and multidisciplinary studies.

Brief Statement of Academic Activities and Achievements

The Department of BSSS 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)

Ph.D. courses in the post graduate departments of Biotechnology & Bioinformatics, Environmental Studies, Physics, Mathematics, Statistics, Commerce and English.

Courses Conducted

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 only.

Semester IV: Statistics and Random Processes, for IT & BME.

Semester V: Statistics and Random Processes, for ECE.

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/Workshops/Symposia/ Extension Programmes

- 1. Lectures under ERASMUS Mobility Agreement during August 8-12, 2022. Convenor: Dr. J. Dutta
- 2. International Workshop on Mathematical Foundations and Applications of Gravity. (MFAG -2022) sponsored by DST-SERB during August 25 -26, 2022. Convenor: Dr. J. Dutta
- 3. One Day Online Awareness Meeting of UGC-DAE-CSR on Utilization of In-house and Large-Scale Facilities, organized by UGC-DAE Consortium for Scientific Research, Kolkata Centre, Department of Physics, Tezpur University, Assam, and Department of Basic Sciences and Social Sciences, North-Eastern Hill University, Meghalaya on Sept 6, 2022. Local Host: Dr. M. Mahato

Publications

> Research papers (16)

- 1. Paul, K., Goswami, P., **Singh, M. M.** (2022). Algebraic Braid Group Public Key Cryptography. Jnanabha, 52(02), 219-224. DOI: https://doi.org/10.58250/jnanabha. 2022. 52225
- 2. Yanglem, W., **Khongji, P.** (2022). Preliminary test regression estimator in double sampling based on two-stage and ranked set sampling with two auxiliary variables. Journal of the Indian Society for Probability and Statistics, DOI: https://doi.org/10.1007/s41096-022-00144-3
- 3. **Ram, M.**, Dipumani, P. (2022). Employer branding for competitive advantage and implementation strategies. P.I.M.T. Journal of Research, 14 (4): 31-34.
- 4. **Ram, M.**, Shabong R. (2022). Work-Life Balance of female workforce in Assam's Primary Education sector. Third Concept, 36 (428): 37-39.
- 5. Boro, L., Singh, M. M. (2023). Line graphs associated to Von Neumann regular graphs of

- rings. Discrete Mathematics, Algorithms and Applications, https://doi.org/10.1142/51793830923500088
- 6. Boro, L., Singh, M. M., Goswami, J. (2022). On the line graphs associated to the unit graphs of rings. Palestine Journal of Mathematics, 11(4), 139-145.
- 7. Kharkongor, D., Boro, L., Singh, M. M., Dutta, S. (2022). Some properties of Von Neumann regular graphs of rings. J. Indones. Maths. Soc., 28(02). DOI: https://doi.org/10.22342/jims.28.2.1112.185-193
- 8. Mir, A.H., Sarma, K., Upadhaya, K. (2022). Assessing the effectiveness of community managed forests for plant diversity conservation in Meghalaya, Northeast India. Plant Diversity 44: 243-254.
- 9. Lasushe, Khrote-u., Mir, A. H., Singh, P.P., Chaudhary, K.L., Choudhury, H., Deori, C., Roy, D.K., Singh, B., Upadhaya, K. (2022). A comprehensive checklist of threatened plants of Meghalaya, Northeast India. Journal of Asia-Pacific Biodiversity, 15: 435-441. DOI: https://doi.org/10.1016/j.japb.2022.03.008
- Singh, P.P., Behera, M.D. Rai, R., Uma Shankar, Upadhaya, K., Nonghuloo, I.M., Mir, A.H., Barua, S., Naseem, M., Srivastava, P.K., Tiwary, R., Gupta, A., Gupta, V., Nand, S., Adhikari, D., Barik, S.K. (2023). Morpho-physiological and demographic responses of three threatened Ilex species to changing climate aligned with species distribution models in future climate scenarios. Environmental Monitoring and Assessment, 195: 139. DOI: https://doi.org/10.1007/s10661-022-10594-8
- 11. Borah, R., Malngiang, L., Odyuo, N., Choudhury, H. (2022). Development of an effective sterilization procedure for exposed seeds from the dehisced capsule using centrifugation method and successful asymbiotic seed germination in Phaius tankervilleae (Banks ex L'Herit) Bl. The Journal of Plant Science Research, 38(1): 159-204. DOI: https://doi.org/10.32381/JPSR.2022.38.01.20
- 12. Warjri, M., Narayan J. (2023). Synthesis of α-Fe2O3 nano-rod/sheet: Volumetric and electrical conductivity properties of their nanofluids. Journal of Molecular Liquids. 377: 121539. DOI: https://doi.org/10.1016/j.molliq.2023.121539

- 13. Khyllep, W., Dutta, J., Saridakis, E. N., Yesmakhanova, K. (2023). Cosmology in f(Q) gravity: A unified dynamical systems analysis of the background and perturbations. Physical Review D 107 No.4, 044022.
- 14. Shah, A., Singh, L. R., Gogoi, M., Mahato, M. (2022). Waste Plastic Derived FWCNT-NiMgAl Composite for Supercapacitor Application. Carbon Letters, 32(6): 1541-1557. https://doi.org/10.1007/s42823-022-00392-0.
- 15. Singh, W. P., Singh, L. R., Singh, R. S. (2022). Gelation-based visual detection of fluoride ion: Strategic use of silyl protection-deprotection chemistry. Journal of Molecular Liquids, 360: 119536.

➤ Book Chapters (02)

- Paul, K., Singh, M.M., Goswami, P. (2022). A new public key encryption using Dickson polynomials over finite field with 2ⁿm. In Nonlinear Dynamics and Applications, Editor: S. Banerjee, A. Saha. Springer Proceedings in Complexity. Springer, Cham. https://doi.org/10.1007/978-3-030-99792-2_45
- 2. Phanjoubam, C., Mawiong, S. M. (2022). Bounds of Some Energy-Like Invariants of Neighbourhood Corona of Graphs. In Mathematics and Computing. B. R. Kumar ,S. Ponnusamy , D. Giri , B. Thuraisingham , C. W. Clifton, B. Carminati (Eds.). Springer Nature, Singapore, ISBN 978-981-19-9306-0, pp. 205-215.

> Proceedings of Seminar/Conferences

1. Shah, A., Saha, G., Mahato, M. (2022). Parameters Involved in CNT Growth: A Review. In Tailored Functional Materials', Select Proceedings of MMETFP-2021, K. Mukherjee, R. K. Layek, D. De (Eds), Springer Nature Pvt Ltd, Singapore, ISBN: 2662-3161. pp 185-198.

> IPR Items

(a) Patents

1. Mahato, M., Gogoi, M., Shah, A., Mandal, S. (2021). The Pyrolysis Reactor Apparatus and the Process of MWCNT/H2 Production using Plastic Waste. Publication No: 43/2022, Published: October 28, 2022.

Funds received during current year

Bulk Grant to Department/Centre/Section etc. other than EMR grant

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)		
01	NEHU	3.00		

EMR Research Projects to individual faculty members

Title of Project (Total outlay in Lakhs)			Multi/Single Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Biotechnological Intervention for Management of Protected Areas	New	Dr. Krishna Upadhaya-PI Dr. Hiranjit Choudhury-Co- PI	Multi	DBT, New Delhi	Nil
The ecology and genetics of Ficus elastica in relation to the living root bridges of Meghalaya	Ongoing	Dr. Krishna Upadhaya	Multi	DBT, New Delhi	Nil
MLT plantation on propagation of new dwarf cultivars of Neem with early maturity and higher limonoid yield	Ongoing	Dr. Krishna Upadhaya (PI)	Single Institute	CSIR- NBRI	3.0
Challenging General Relativity at the Largest Scales: A Systematic Investigation Of Cosmological Perturbations In Modifed Gravity.	Completed	Dr. Jibitesh Dutta (PI)	Single Institute	DST-SERB	Nil

Academic Collaborations

Dr. M. M Singh National

Name of the collaborator	Collaborating Institution	Title of the project/work		
Dr.	Department of Mathematics,	A Study of Some Graph Structures		
Jituparna Goswami,	Gauhati University, Guwahati	Associated with Rings and Semiring		
Dr.	Department of Mathematics,	A Study of Applications of Number		
Pinkimani	University of Science &	Theory in Cryptography		
Goswami,	Technology Meghalaya			

Dr. K. Unadhaya

Name of the collaborator	Collaborating Institution	Title of the project/work
Dr. Dibyendu Adhikari	CSIR-National Botanical	Ecological niche modelling
	Research Institute, Lucknow	
Prof. Renee Borges	Centre for Ecological Sciences,	The ecology and genetics of <i>Ficus</i>
	Indian Institute of Science,	elastica in relation to the living
	Bangalore	root bridges of Meghalaya
Prof. S.K. Barik	CSIR-National Botanical	Ecological niche modelling' and
	Research Institute, Lucknow	Ecosystem services

Dr. K. Upadhaya and Dr. H. Choudhury National

Name of the collaborator	Collaborating Institution	Title of the project/work
Prof. S.K. Barik	Department of Botany, NEHU, Shillong	•
Dr. Dibyendu	CSIR-National Botanical Research Institute,	
Adhikari	Lucknow	
Professor G. R. Rout	College of Agriculture, Orissa University of	Biotechnological
	Agriculture & Technology, Bhubaneswar	Intervention for
Dr. L. Giri	National Institute of Technology, Goa	Management of
Dr. M. D. Behera	IIT, Kharagpur	Protected Areas
Dr. N. K. Dhal	Institute of Minerals and Materials Technology,	
	Bhubaneswar	
Dr. P. Deb	Assam University, Silchar	
Dr. (Mrs.) Tapati	Assam University, Silchar	
Das		
Dr. S. N. Jena	CSIR-National Botanical Research Institute,	
	Lucknow, UP	
Dr. S. K. Behera	CSIR-National Botanical Research Institute,	
	Lucknow, UP	
Prof. Z. A. Reshi	Deptt. of Botany, University of Kashmir	
Field Director cum	Simlipal Biosphere Reserve, Odisha	
RCCF		

Dr. J. Dutta National

Name of the collaborator	Collaborating Institution	Title of the project/work
Supriya Pan	Department Of Mathematics,	Dynamical systems in Cosmology
	Presidency University, Kolkata	
S. Dutta	Department Of Mathematics, NEHU,	Graph Theory and applications
	Shillong.	

International

Name of the collaborator	Collaborating Institution	Title of the Project
Spyros Basilakos	National Observatory of Athens, Greece And Academy of Athens, Research Center for Astronomy and Applied Mathematics, Greece	Unified dynamical System analysis of cosmological models at the background and perturbation levels. And Cosmological Perturbation Theory
Emmanuel N. Saridakis	National Observatory of Athens	Dynamical systems in Cosmology
Laur Järv,	Laboratory of theoretical physics University of Tartu, Estonia	Metric Affine Geometry and Modified Gravity

Andronikos Paliathanasi	Institute of Systems Science, Durban University of Technology, South Africa	Painleve Analysis
Genly Leon,	Department Of Mathematics, Universidad Católica del Norte: Antofagasta, Chile	Dynamical systems in Cosmology

Dr. M. Mahato National

Name of the	Collaborating Institution	Title of the project/work		
collaborator				
Dr Manashjit Gogoi	Dept. of Biomedical	Sensing Application		
	Engineering, NEHU	3 11		
Dr. S. Khatua	Dept. of Chemistry, NEHU	Sensing Application		
Dr L. Robindro Singh	Department of	Supercapacitor and sensing		
_	Nanotechnology, NEHU	application		
Dr D. K. Mahato	NIT, Patna	Perovskite materials		

International

Name of the collaborator	Collaborating Institution	Title of the project/work		
Dr. R.K. Layek	LUT University, Finland	Biomass derived nanocomposite heat sink development		

Seminars/Conferences/Workshops/ Symposia/Extension Programmes

Dr. M. M. Singh

- 1. Delivered an invited lecture titled 'Basic Science for Sustainable Development & Atmanirbharata' in Azadi ka Amrit Mahotsav Celebration of "VIGYANUTSAV" organized by DST, SEED Division, Government of India and SCSTE, Meghalaya on 30th June, 2022.
- 2. Chaired an academic sessions in the National Seminar on "Recent Trends in Topology and its Applications" organized by the Department of Mathematics, NEHU, Shillong during 4th & 5th August, 2022.
- 3. Chaired an academic sessions in the International Workshop on "Mathematical Foundation and Applications of Gravity" (Hybride Mode) organized by the Department of Basic Sciences & Social Sciences, NEHU, Shillong on 25th & 26th August, 2022.

Dr. K. Upadhaya

1. Chaired a Technical Session in National Seminar on "Forest-Dependent Rural Livelihoods" held in North-Eastern Hill University, Shillong from 24-26 February, 2023, organized by Arshuma Famous Book, ICSSR-NERC and NEHU on 24th February, 2023.

Dr. H. Choudhury

- 1. Chaired a Technical Session in "National Seminar on Emerging Trends in Biological Sciences: A North East India Perspective" on 1st March 2023, held during 28th February 1st March 2023, organized by the Department of Biotechnology & Bioinformatics, NEHU, Shillong, Meghalaya in collaboration with Bio-Resources Development Centre (BRDC), Shillong & BioNEST Bioincubator Facility, NEHU, Tura Campus, Meghalaya.
- 2. Presented a research paper entitled "Development of an effective sterilization procedure for exposed seeds from the dehisced capsule using centrifugation method and successful asymbiotic seed germination in *Phaius tankervilleae* (Banks

- ex L'Herit) Bl."on 8th 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 8-9th April, 2022.
- 3. Presented a research paper entitled "Orchid diversity in community managed subtropical forests in Khasi Hills of Meghalaya, Northeast India" on 9th 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 8-9th April, 2022.

Dr. J. Narayan

- 1. Fabrication of semiconducting smart nanomaterials for the application biocompatible sensors on 23rd August, 2022 during Science Engineering Research Board (SERB), Department of Science and Technology (DST) Delhi sponsored VRITIKA Internship Programme 2022 on the theme "Development of innovative Healthcare Devices" organized by Department of Biomedical Engineering, NEHU, Shillong during 1st to 31st August 2022. NEHU.
- 2. Design of functional nanoparticles (FNPs) for the quantification of antibacterial /antimicrobial activity and therapy on 23rd August, 2022 during Science Engineering Research Board (SERB), Department of Science and Technology (DST) Delhi sponsored VRITIKA Internship Programme 2022 on the theme "Development of innovative Healthcare Devices" organized by Department of Biomedical Engineering, NEHU, Shillong during 1st to 31st August 2022. NEHU.
- 3. Preparation of II-IV semiconductor nanomaterials for applications in biological fields
- 4. As molecular probes or bio labels on 24th August, 2022 during Science Engineering Research Board (SERB), Department of Science and Technology (DST) Delhi sponsored VRITIKA Internship Programme 2022 on the theme "Development of innovative Healthcare Devices" organized by Department of Biomedical Engineering, NEHU, Shillong during 1st to 31st August 2022. NEHU.

Dr. Sainkupar Mn. Mawiong

1. Acted as a Resource person for the webinar and presented an invited lecture on the topic "A brief introduction to graph theory" held at Nongstoin

- College on 23rd April, 2022 organized by Department of Mathematics, & IQAC Cell, Nongsoin College, Nongstoin.
- 2. Presented on the topic "Some Problem in Computational Algebraic Topology with a special emphasis on Conley Index Theory" in "Science and Engineering Board (SERB), Govt. of India "R&D sponsored workshop on funding opportunities by SERB-DST: Awareness workshop for researchers from North-East Institutions" held at Radisson Blu, Guwahati, during 14-15 July, 2022 organised by SERB, Govt. of India, and Institute of Advanced Study in Science and Technology (IASST), Guwahati (An AI of DST, Ministry of Science & Technology, Govt. of India).

Dr. M. Mahato

- 1. Presented an invited lecture on the topic "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, during 28 April-4 May, 2022.
- 2. Presented on the topic "Plastic Waste to CNT Composite and LB Film Based Pesticide Sensor" in Science and Engineering Board (SERB), Govt. of India sponsored workshop on "R&D funding opportunities by SERB-DST: Awareness workshop for researchers from North-East Institutions" held at Radisson Blu, Guwahati, during 14-15 July, 2022 organised by SERB, Govt. of India, and Institute of Advanced Study in Science and Technology (IASST), Guwahati (An AI of DST, Ministry of Science & Technology, Govt. of India).

Dr. M. Ram

- 1. Social and Educational Transformation in India: A Visionary Approach of Mahamana Pandit Madan Mohan Malviya in the International Conference on Mahamana's Vision and NEP-2020 & International Commerce Alumni Meet 2022 (BICAM-2022), organised by Faculty of Commerce, Banaras Hindu University, Varanasi, during 3-4 December 2022.
- 2. Moonlighting Practices and Implications for technical HR retention Policies and new trends in the International Conference on Research Innovations & Challenges (ICRIC) by Centre for Research & Training (CRT), National Foundation for Entrepreneurship Development (NFED),

Coimbatore, Tamil Nadu, India, during 19-21 January 2023

Honours/Awards/Recognition/Membership/ Fellowship

Dr. A. Sinha

1. Appointed as the Observer of NTA, New Delhi, for various online national level competitive examinations like CUET, NEET and JEE Mains 2022.

Dr. K. Upadhaya

- 1. Member of Expert Committee of Meghalaya Biodiversity Board, Government of Meghalaya
- 2. Expert Member, Monitoring Committee of Ecosensitive Zone Nongkhyllem Wild Life Sanctuary, Govt. of Meghalaya,
- 3. Expert Member, Monitoring Committee of Ecosensitive Zone Narphu Wild Life Sanctuary, Govt. of Meghalaya.
- 4. Life member of Indian Society for Training & Development, New Delhi.

Dr. J. Dutta

- 1. Selected Associate of Inter University Centre for Astronomy and Astrophysics (IUCAA), Pune, India with effect from August 1, 2021 till July 31, 2024.
- 2. 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)

Dr. M. Mahato

1. Awarded 2nd Prize in SERB poster competition workshop on "R & D Funding Opportunities by SERB: Awareness workshop for researchers from North-East Institutions" 14-15 July, 2022, organized by SERB, Govt. of India and IASST, Guwahati.

Other Activities

Dr. M. M. Singh

- 1. Reviewer for (i) Mathematical Review (MR), American Mathematical Society (AMS), USA, (ii) IEEE Access, USA and (iii) Mathematical Methods in Applied Sciences, Wiley, USA.
- 2. 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, Gauhati.
- 3. Member of the Editorial Board of the in-house Magazine NEHU JYOTI.
- 4. Guest faculty in the Department of Mathematics, NEHU, Shillong during April, 2022 to June, 2022. **Dr. A. Sinha**
- 1. Expert Member of the Advisory Panel of the STAR Departments under STAR Status Scheme of the DBT, GoI, granted to St. Edmund's College, Shillong for the academic year 2022.
- 2. Representative of ISCA (Kolkata), Shillong Chapter (2022).
- 3. NEHU representative to the Governing Body of Khrawsing Christian College, Mawphlang, Mawngap, E. K. Hills, Meghalaya.
- 4. Life Member of- (i) ISCA, Kolkata, (ii) Indian Society of Surface Science and Technology (ISSST), Kolkata, and (iii) Indian Society for Training and Development (ISTD), New Delhi.
- 5. Attended an online UGC-Approved Short Term PDP on 'Implementation of NEP-202 for University and College Teachers', organized by IGNOU STRI of Distance Education, New Delhi, from 7th to 15th October 2022.

Dr. P. Khongji

- 1. Joint Secretary of NEHU Alumni Association.
- 2. Organised as Joint Secretary NEHU Alumni Association: (i) An invited Lecture on 6th march, 2023 at Community Hall NEHU. Speakers: a) Smt Abhilasha Mahapatra Basawiamoit, Retd. Commissioner of Customs and Indirect Taxes, GOI, and b) Prof David Syiemlieh, Ex Chairman UPSC, and (ii) NEHU Lecture Series in collaboration with the office of International Affairs (NEHU), on 22nd march, 2023 at VC Conference hall NEHU. Speaker: Prof. Andrew May, University of Melbourne.
- 3. Has been a Guest Faculty for MA/M.Sc. in the Department of Statistics, NEHU, Shillong, for the academic year 2022-23.

Dr. K. Upadhaya

- 1. Was a resource person in the Refresher Course in Biodiversity and Conservation organized by UGC-Human Resource Development Centre, North-Eastern Hill University, Shillong on 3rd August, 2022.
- 2. Was one of the Judges in the poster presentation session during the National Seminar on 'Emerging Trends in Biological Sciences: A North East Perspective' organized by Department of Biotechnology and Bioinformatics, NEHU,

- Shillong at the NEHU Campus, Shillong on 1st March, 2023.
- 3. 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 "Conservation of plant resources: Ex Situ Strategies" on 4th August 2022, organized by the UGC-Human Resource Development Centre, North-Eastern Hill University, Shillong in the Refresher Course conducted by the Department of Botany, North-Eastern Hill University, Shillong during 3rd August to 18th August, 2022.
- 2. 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 2022-23.
- 3. Life member of ISCA.
- 4. Member of Asian Council of Science Editors (Dubai, UAE).
- 5. Attended 4th lecture series as part of Chetana- an Online Lecture Series on "Indian Knowledge System: Time to Rekindle, Rejuvenate and Resume?" on 27th June 2022 organized by the University Grants Commission (UGC)

Dr. Jyoti Narayan

- 1. Participated in "IP Awareness / Training programme under National Intellectual Property Awareness Mission" conducted by the Ministry of Commerce and Industry Department for the promotion of Industry and Internal Trade, Office of the Controller General of Patents, Designs and Trade Mark, New Delhi on 10th April 2022. ,"Carbon Nanoparticles for Antimicrobial & Cytotoxicity Efficacy" conducted by Science and Technology Consortium - A nanotechnology platform, New Delhi from 30th September to 1st October, 2022, Green Nanoparticles: Applications to Drug Delivery" conducted by Nano Science and Technology Consortium -A nanotechnology platform from 18th to 20th October, 2022.
- 2. Reviewers of Applied Physics A: Material Science and Proceedings, Springer, (ii) Journal of Material Science: Materials in Electronics, Springer, and (iii) Journal of Crystal Growth, Science Direct, Elsevier.

Dr. J. Dutta

- 1. Reviewers of: (i) Physics of Dark Universe, Science Direct, Elsevier, (ii) Annals of Physics, Science Direct, Elsevier, (iii) Classical and Quantum Gravity, IOP Science, UK, (iv) General Relativity and Gravitation, Springer, (v) The European Physical Journal C, Springer, (vi) The European Physical Journal Plus, Springer, (vii) Modern Physics Letters A, World Scientific, (viii) International Journal of Theoretical Physics, Springer, (ix) Canadian Journal of Physics, Canadian Science Publishing, (x) Universe, MDPI, (xi) Astrophysics and Space Science, Springer, and (xii) Physica Scripta, IOP Science, UK.
- 2. Life members of (i) The Indian Association of General Relativity and Gravitation, (ii) Indian Mathematical Society, and (iii) Mathematics Teachers' Association (India)
- 3. Guest faculty in the Department of Mathematics, NEHU, Shillong.
- 4. Guest faculty in the Department of Mathematics, NEHU, Shillong. (Till June 2022)
- 5. Mentored Students under SERB Scientific Social Responsibility Program, 2022

Dr. Sainkupar Mn. Mawiong

- 1. Participated in the two-day national webinar on Applied Mathematics and its recent applications on 16-17th June, 2022 organised by the Department of Mathematics Ghatal Rabindra Satabarsiki Mahavidyalaya, Ghatal, Paschim Medinipur, West Bengal.
- 2. Attended ICM (International Congress of Mathematician) 2022(online) from 6th-14th July 2022.
- 3. Attended GETCO 2022 11th International Conference on Geometric and Topological Methods in Computer Science (online) which take place in Paris from May 30th to June 3rd 2022.
- 4. Attended the 10-day online Faculty Development Program on "Mathematical Models for Machine Learning and It's Applications" from 11th July 2022 to 20th July 2022. Jointly organized by Electronics & ICT Academy, NIT Warangal, and the Department of Mathematics, Faculty of Science and Technology (IcfaiTech), The ICFAI Foundation for Higher Education (IFHE), Hyderabad
- 5. Has been a Guest Faculty in the Department of Mathematics, North-Eastern Hill University, Shillong for the academic year 2022-23.

Dr. Regenel S. Kharwanlang

- 1. Participated in the "One day National Webinar on NEP 2020" on the theme "Research Innovation and Rankings of HEIs" organized by UGC-HRDC, NEHU on 18th May 2022
- 2. Participated in a 40-hour online FDP on "Mathematical Models for Machine Learning and Its Applications" organized by NIT Warangal and Faculty of Science and Technology, ICFAI, Hyderabad during 11-20 July 2022
- 3. Participated in the "one-week short term Training programme on Computational Techniques for Physical Science and Engineering" organized by Department of Mathematics and Humanities and Department of Physics, S V National Institute of Technology, Surat during 19-23 September, 2022
- 4. Participated in online two-week Refresher Course in "Mathematical Sciences" organized by Teaching Learning Centre, Ramanujan College, University of Delhi on 26th September- 10 October 2022

Dr. M. Mahato

- 1. Presented 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, 28th April-4th May, 2022.
- 2. Presented invited lecture on "Plastic and Biomedical Waste Management" on 25/02/2022 (90 min) at Refresher Course in Biomedical, UGC-HRDC, NEHU, Shillong, 16th Feb-1st Mar, 2022.

Dr. M. Ram

- 1. Participated in UGC-approved 6-day short-term professional development programme on 'Implementation of NEP-2020 for University and College Teachers' from 07-12 October 2022, Sponsored by U.G.C. and I.G.N.O.U.
- 2. Participated in the UGC-sponsored Refresher Course in the 5th Refresher Course in Research Methodology (I.D.) from 19-31 Dec 2022. In UGC-Human Resource Development Centre, JNU New Campus, New Delhi.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

Details of	1	Name		Prof. M.M.	Dr. Aseem	Dr. P.	Dr. Krishna	Dr. Hiranjit
Faculties				Singh	Sinha	Khongji	Upadhaya	Choudhury
	2	Date of Joining		23.09.1991	27.01.1994	22.12.20 06	20.12.2006	20.12.2006
	3	Field of specialisation		Matheamat ics	Chemistry	Statistics	Botany (Ecology)	Botany (Plant Biotechnology
(A)	4	UG		32	28	17	17	22
Teaching	5	PG, including PhD		12	No No	7	12	11
Experience (in Years)		ro, including rind		12	NO	/	12	11
	6	Basic Research		Yes	Yes	yes	Yes	Yes
	7	Applied Research		Yes	No	yes	No	No
	8	Action Research		No	No	No	No	No
	9	Project Submitted		No	0	Yes	No	No
	10	Ongoing Project		0	0	No	03	01
	11 12	Research Paper in UGC care list journals	Group I	01	0	0	0	0
(T)		Group II	Group II	03	0	01	03	02
(B) Research	13 14	Books /Books chapters Published	Books	0	0	No	0	0
activities		Book Chapters	Book Chapters	02	0	No	0	0
	15	Popular Articles (News Paper/ Magazines)		0	0	No	No	0
	16 17	Seminar / Conference/ Symposia organized	National	0	0	No	No	0
		International	International	0	0	No	No	0
	18 19	Seminar / Conference/ Symposia attended	National	0	1	No	No	0
		International	International	0	2	No	No	Yes (1)
	20	Conference Proceedings		0	0	No	No	0
	21	Consultancy		0	0	No	No	0
(6)	22	Applied		0	0	No	No	0
(C) Patent	23	Published		0	0	No	No	0
	24	Granted		0	0	No	No	0
(D) E-Content	25	MOOC/SWAYAM/ E-content developed		0	0	No	No	0
	26	Teaching /Extension /outreach activities		yes	Yes	Yes, NEHU Alumni	Yes	Yes
(E)	27	Responsibilities other than teaching		Yes	Yes	Yes,	Yes	Yes
Any Other	28	Awards/ Honours/ Recognition/ Membership/ Fellowship		No	Yes	No	Yes	Yes
	29	Collaborations	National	2	0	No	Yes (2)	Yes (1)
	30	International	International	0	0	No	No	No

Details of Faculties	1	Name		Dr. Jyoti Narayan	Dr. Jibitesh Dutta	Dr. S.Mn. Mawiong	Dr. R. S. Kharwanlang	Dr. Rajkumar Sunil Singh
	3	Date of Joining Field of specialisation		22.12.2006 Physical Chemistry	22.04.2009 Applied Mathematics(20.12.2006 Mathematic	22.12.2006 Condensed matter physics,	05.07.2012 Chemistry (Organic
		specialisation		(Chemical Thermody namics, Functionali zed nanomateri als/nanoflu ids and nanocomp osites)	Dynamical Systems, Modified Gravity, Cosmological Perturbation theory, Applications of graph theory)	s (Topology, Dynamical Systems and Graph Theory)	Statistical physics	synthesis, Organic materials)
(A)	4	UG		17	22	18	22	11
Teaching Experience (in Years)	5	PG, including PhD		10	18	5	5	9
	6	Basic Research		Yes	No	Yes	Yes	Yes
	7 8	Applied Research Action Research		Yes	Yes	No	No No	No No
				Yes	No	No		
	9	Project Submitted		No	No	0	No	No
	10	Ongoing Project Research Paper	Group I	No 0	Yes 0	0	No No	No No
	12	in UGC care list	Group II	01	01	03	No	01
(B)	13	Books /Books	Books	No	No	0	No	No
Research activities	14	chapters Published	Book Chapters	No	No	01	No	No
	15	Popular Articles (News Paper/ Magazines)		No	No	0	No	No
	16	Seminar /	National	No	No	0	No	No
	17	Conference/ Symposia organized	International	No	No	0	No	No
	18	Seminar /	National	0	0	01	03	No
	19	Conference/ Symposia attended	International	0	0	0	No	No
	20	Conference Proceedings		0	No	0	No	No
	21	Consultancy		No	No	0	No	No
(C)	22	Applied Published		No No	No No	0	No No	No No
(C) Patent						,		
	24	Granted		No	No	0	No	No
(D) E-Content	25	MOOC/SWAYA M/ E-content developed		No	No	0	No	No
	26	Teaching /Extension /outreach activities		No	Yes	Yes	Yes	Yes
(E)	27	Responsibilities other than teaching		Yes	Yes	Yes	Yes	Yes
Any Other	28	Awards/ Honours/ Recognition/ Membership/ Fellowship		No	Yes	No	No	No
	29	Collaborations	National	No	2	0	No	No
	30		International	No	5	0	No	No

Details of Faculties	1	Name		Dr. Mrityunjoy Mahato	Dr. Munshi Ram	Ms. Evapynhun Giri
	3	Date of Joining		09.07.2012	05.07.2012	21.03.2007
	3	Field of specialisation		Physics (Applied Physics, Nanophysics)	Commerce (HRM) (Human Resource Management)	English Language Education
(A)	4	UG		10	11	16
Teaching Experienc e (in Years)	5	PG, including PhD		4	No	No
1 cars)	6	Basic Research		Yes	Yes	Yes
	7	Applied Research		Yes	No	No
	8	Action Research		Yes	No	No
	9	Project Submitted		01	No	No
	10	Ongoing Project		0	No	No
	11	Research Paper	Group I	00	02	No
(B)	12	in UGC care list journals	Group II	02	0	No
Research activities	13	Books /Books	Books	00	0	No
activities	14	chapters Published	Book Chapters	01	0	No
	15	Popular Articles (News Paper/ Magazines)		00	No	No
	16	Seminar /	National	01	No	No
	17	Conference/ Symposia organized	International	00	No	No
	18	Seminar /	National	01	No	No
	19	Conference/ Symposia attended	International	00	02	No
	20	Conference Proceedings		01	No	No
	21	Consultancy		No	No	No
	22	Applied		0	No	No
(C) Patent	23	Published		01	No	No
	24	Granted		00	No	No
(D) E-Content	25	MOOC/SWAYA M/ E-content developed		No	No	No
	26	Teaching /Extension /outreach activities		Yes	No	No
(E) Any Other	27	Responsibilities other than teaching		Yes	Yes	No
	28	Awards/ Honours/ Recognition/ Membership/ Fellowship		Yes	No	No
	29	Collaborations	National	03	No	No
	30		International	01	No	No

DEPARTMENT OF BIOMEDICAL ENGINEERING

Head: Dr. Sudip Paul **Telephone:** +91-364-272 3852 **E-mail:** hodbme@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
	Dr. Dinesh Bhatia	Smart Healthcare Technologies,
Associate	M.E. (Mumbai University), PhD	Biomechanics and Rehabilitation
Professor	(MNNIT, Allahabad)	Engineering, Medical informatics and
		Telemedicine, Signal and Image
		Processing, Marketing and International
		Business, Sustainable development.
	Dr. Nitin Sahai	Biomechanics & Rehabilitation
	B.Tech. (College of Engineering	Engineering, Tissue Engineering,
Assistant	Technology, Moradabad),	Biomaterials, Computer Aided Tissue
Professor	M.Tech. (MNNIT, Allahabad),	Engineering, 3D Printing
	Ph.D. (NEHU)	
	Dr. Sudip Paul	Electrophysiology; Biomedical
	M.Tech. (IT, BHU), PhD (IIT-	Instrumentation; Machine Learning and
	BHU, Varanasi)	ANN; Biomedical Signal Processing;
		Rehabilitation System; Neural mechanism
		and motor neural; Cognitive disorders
	Dr. Manashjit Gogoi	Bionanotechnology, Biosensors, Drug
	MTech (TU), Ph.D. (IIT,	delivery Microfluidics and Tissue
	Bombay)	Engineering.
	Dr. Gajendra Kumar Mourya	Medical Image Processing, Biomedical
	B.E. (Samrat Ashok	Instrumentation, Biomedical Signal
	Technological Institute, Vidisha),	Processing, Machine Learning and Deep
	M.Tech. (IIT, BHU Varanasi),	Learning
	Ph.D. (NEHU)	M 1: 1 T : D:
	Mr. Shyamal Mandal	Medical Imaging, Biosensor,
	B.Tech. (JIS College of	Biomaterials, Nano-materials
	Engineering, WB), M.Tech. (IIT,	
	Kharagpur)	

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 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 skill development. Research learning. Development (R&D) and Industry-Institution

interaction in the field. The Department is one of the few institutes in the North Eastern region offering UG and PhD 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.: 42, M. Tech.: 18, Ph.D.: Variable

Enrolment of students from different States of India and Abroad (B.Tech.)

	Gen		ST		SC		OBO	C	EW	S	PWI)	TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	4	10	-	1	1	-	2	3	-	1	-	-	7	15
Bihar	-	-	-	-	-	-	2	=	1	-	-	-	3	-
Delhi	-	-	-	-	_	-	2	-	-	-	-	-	2	-
Manipur	1	-	-	-	_	-	-	-	-	-	-	-	1	-
Meghalaya	-	-	1	4	_	-	-	-	-	-	-	-	1	4
Telangana	-	-	-	-	_	1	1	-	-	-	-	-	1	1
Tripura	-	-	1	-	_	-	-	-	-	-	-	-	1	-
Uttar Pradesh	-	1	_	-	_	-	1	-	-	-	-	-	1	1
West Bengal	-	-	1	-	-	-		-	-	-	-	-	1	-
Tamil Nadu	-	-	-	-	-	-	1	-	-	-	-	-	1	-
Madhya Pradesh	-	-	-	-	-	-	1	-	-	-	-	-	1	-
Sub Total	5	11	3	5	1	1	10	3	1	1	-	-	20	21
International	1	-	-	-	-	-	-	=	-	-	-	-	1	-
Total	17		8		2		13		2		-		42	

Enrolment of students from different States of India and Abroad (M.Tech.)

	Gen		ST		SC		OBO	7)	EW	S	PWD	1	TOT	ΊΑL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	3	5	-	-	-	-	-	-	-	-	3	5
Tripura	-	-	-	-	-	-	-	-	-	1	-	-	-	1
West Bengal	-	-	-	-	-	-	1	-	-	-	-	-	1	-
Sub Total	-	-	3	5	-	-	1	-	-	1	-	-	4	6
Total	-		8		-		1		1		-		10	

Enrolment of students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC	7)	EWS	<u>S</u>	PWD		TOT	ΆL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Meghalaya	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Assam	1	-	-	-	-	-	-	-	-	-	-	-	-	-
West Bengal	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Orissa	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Sub Total	1	-	1	-	1	1	-	-	•	-	-	-	3	1
Total	1		1		2		-		-		-		-	

Degrees Awarded

> B. Tech: 15, M.Tech.: Nil, Ph.D.:01

Degrees Awarded to students from different States of India and Abroad (M. Tech)

	Gen		ST		SC		OBC		EWS	S	PWD		TOTA	L
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	2	-	-	-	1	-	1	-	-	-	-	-	4	

Meghalaya	-	-	5	4	1	-	-	-	-	-	-	-	6	4
Tripura	-	1	-	-	-	-	-	-	-	-	-	-		1
Sub Total	2	1	5	4	2	-	1	-	-	-	-	-	10	5
Total	3		9		2		1		-		-		15	

Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC		EW	S	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Madhya	-	-	-	-	1	-	-	-	-	-	-	-	1	-
Pradesh														
Sub Total	-	-	-	-	1	-	-	-	-	-	-	-	1	-
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-		-		1		-		-		-		1	

Name of	Title of Thesis	Name(s) of Supervisor(s)/
Student		Joint Supervisor
Mr.	"Towards Volumetric Liver Segmentation	Dr. Dinesh Bhatia (Supervisor)
Gajendra	from Abdominal CT Scans: A Tool for	Dr. Manashjit Gogoi (Joint
Kumar	Effective Diagnosis and Treatment	Supervisor)
Mourya	Planning."	-

Students selected for Higher Studies

Name of the Student(s)	Name of the Programme	Institution/ Organization	Country
Dalamchwami Chen Lyngdoh	PhD	NEHU	India
Jesmin Akter	M. Tech	NEHU	India
Annu Kumari Prasad	M. Tech	NEHU	India
Dewan Mahammad Sahil	M. Tech	NEHU	India
Risamhauni Shylla	M. Tech	NEHU	India
Phyrnailin Lyngkhoi	M. Tech	NEHU	India
Sweety Fairly Kharmawlong	M. Tech	NEHU	India
George Gilbert Thongni	M. Tech	NEHU	India
Rubelsha Shabong	M. Tech	NEHU	India
Browinson Ksoo	M. Tech	NEHU	India
Saifunnahar Khatun	M. Tech	NEHU	India

Courses Conducted

> Undergraduate Courses

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. Semester III: Bioelectronics, Biomaterials, Human Anatomy and Physiology, Medical Microbiology and Biochemistry, Bioelectronics Laboratory, Human Anatomy and Physiology

Microbiology Laboratory, Medical Biochemistry Laboratory.

Semester-IV: Statistics and Random Processes, Biomedical Instrumentation -I, Engineering and Artificial Organs, Biomedical Signals and Systems, Biomedical Instrumentation Laboratory -I, Biomedical Signals and Systems Laboratory, General Proficiency – I.

Bio-Transport Semester-V: Process. Microprocessor and Microcontroller, Biomedical Signal Processing, Biomedical Instrumentation-II, Microprocessor and Microcontroller Laboratory, Signal **Processing** Biomedical 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, (Open Elective-II* 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

M. Tech Courses

Semester I: Advanced Human Anatomy and Physiology, Biomedical Engineering Laboratory I, Discipline-Specific Elective Course-I & II (Advanced Nanomedicines, Advanced Soft Computing BIOMEMS. methods Biomedical Engineering, Medical Informatics and Telemedicine), Advanced in Healthcare Technology.

Biomedical Semester II: Advanced Instrumentation Systems, Biomedical and Engineering Laboratory II, Discipline-Specific Elective Course-III & IV (Advanced Medical Imaging, Artificial Intelligence for Healthcare, Tissue Engineering, Advanced Advanced Biomaterials), Research Methodology & Proposal Writing, Skill Enhancement Course (SEC) [MOOCS-I]

Advanced Biomechanics & Semester III: Rehabilitation Engineering, Biomedical Engineering Laboratory III, Minor Project, Discipline-Specific Elective Course- V, VI,VII (IPR & Ethics, Industrial Tour, MOOCS-II (Basic course in Biomedical Research), Seminar, MOOCS-III (Design, Technology and Innovation/ Development of Assistive Technology for person with disabilities and related), MOOCS-IV (Healthcare/ Hospital Management/ Business Communication/ Academic writing and related). Semester IV: Major Project, Problem Identification and Review of Related Literature.

> PhD Courses

Research Methodology & Proposal Writing, Design, Technology and Innovation, Elective-I (Advanced Biomechanics Rehabilitation & Engineering, Advanced Medical Imaging and Image Processing, Research and Publication Ethics.

Publications

> Research papers (22)

- 1. Jain, S., & Paul, S. (2023). Design of filters using current amplifiers for removal of noises from ECG signal. Procedia Computer Science, 218, 1888-1904: https://doi.org/10.1016/j.procs.2023.01.166
- 2. Avutu, S. R., Paul, S., & Reddy, B. V. (2023). A review on wheelchair and add-in devices design for the disabled. International Journal of Biomedical Engineering and Technology, 41(1): https://doi.org/10.1504/IJBET.2023.128512
- 3. Khanna, N.N., Maindarkar, M.A., Viswanathan, V., Puvvula, A., Paul, S., Bhagawati, M., Ahluwalia, P., Ruzsa, Z., Sharma, A., Kolluri, R., Krishnan, P.R., Singh, I.M., Laird, J.R., Fatemi, M., Alizad, A., Dhanjil, S.K., Saba, L., Balestrieri, A., Faa, G., Paraskevas, K.I., Misra, D.P., Agarwal, V., Sharma, A., Teji, J.S., Al-Maini, M., Nicolaides, A., Rathore, V., Naidu, S., Liblik, K., Johri, A.M., Turk, M., Sobel, D.W., Miner, M., Viskovic, K., Tsoulfas, G., Protogerou, A.D., Mavrogeni, S., Kitas, G.D., Fouda, M.M., Kalra, M.K., Suri, J.S. (2022) Cardiovascular/Stroke Risk Stratification in Diabetic Foot Infection Patients Using Deep Learning-Based Artificial Intelligence: An Investigative Study. Journal of Clinical Medicine: https://doi.org/10.3390/jcm11226844

- 4. Suri, J.S., Bhagawati, M., Agarwal, S., Paul, S., Pandey, A., Gupta, S., Saba, Paraskevas, K.I., Khanna, N.N., Laird, J.R., Johri, A.M., Kalra, M.K., Fouda, M.M., Fatemi, M., Naidu, S. (2022) Learning **UNet** Deep Architecture Segmentation of Vascular and Non-Vascular Images: A Microscopic look at UNet Components buffered with Pruning, Explainable Artificial Intelligence, and Bias. *IEEE* https://doi.org/10.1109/ACCESS.2022.3232561
- 5. Khanna, N.N., Maindarkar, M.A., Viswanathan, V., Fernandes, J.F.E., Paul, S., Bhagawati, M., Ahluwalia, P., Ruzsa, Z., Sharma, A., Kolluri, R., Singh, I.M., Laird, J.R., Fatemi, M., Alizad, A., Saba, L., Agarwal, V., Sharma, A., Teji, J.S., Al-Maini, M., Rathore, V., Naidu, S., Liblik, K., Johri, A.M., Turk, M., Mohanty, L., Sobel, D.W., Miner, M., Viskovic, K., Tsoulfas, G., Protogerou, A.D., Kitas, G.D., Fouda, M.M., Chaturvedi, S., Kalra, M.K., Suri, J.S. (2022) Economics of Artificial Intelligence in Healthcare: Diagnosis Treatment. Healthcare. 10(12): https://doi.org/10.3390/healthcare10122493.
- 6. Jena, B., Digdarshi, D., **Paul**, S., Nayak, G.K., Saxena, S. (2022) Effect of learning parameters on the performance of the U-Net architecture for cell nuclei segmentation from microscopic cell images, *Microscopy*: https://doi.org/10.1093/jmicro/dfac063
- 7. Khanna, N.N., Maindarkar, M., Puvvula, A., Paul, S., Bhagawati, M., Ahluwalia, P., Ruzsa, Z., Sharma, A., Munjral, S., Kolluri, R., Krishnan, P.R., Singh, I.M., Laird, J.R., Fatemi, M., Alizad, A., Dhanjil, S.K., Saba, L., Balestrieri, A., Faa, G., Paraskevas, K.I., Misra, D.P., Agarwal, V., Sharma, A., Teji, J., Al-Maini, M., Nicolaides, A., Rathore, V., Naidu, S., Liblik, K., Johri, A.M., Turk, M., Sobel, D.W., Pareek, G., Miner, M., Viskovic, K., Tsoulfas, G., Protogerou, A.D., Mavrogeni, S., Kitas, G.D., Fouda, M.M., Kalra, M.K., Suri, J.S. (2022) Vascular Implications of COVID-19: Role of Radiological Imaging, Tissue Artificial Intelligence, and Characterization: A Special Report. J. Cardiovasc.
- https://doi.or g/10.390/jcdd9080268

 8. Jena, B., Nayak, G.K., Paul, S. et al. (2022) An Exhaustive Analytical Study of U-Net Architecture on Two Diverse Biomedical Imaging Datasets of Electron Microscopy Drosophila ssTEM and Brain MRI BraTS-2021 for

Dev. Dis., 9(268). Scopus, SCIE (Web of Science),

PubMed, PMC, Embase, CAPlus / SciFinder.

- Segmentation. *SN comput. Sci.* 3(418): https://doi.org/10.1007/s42979-022-01347-y
- 9. Suri, J.S., Maindarkar, M.A., Paul, S., Ahluwalia, P., Bhagawati, M., Saba, L., Faa, G., Saxena, S., Singh, I.M., Chadha, P.S., Turk, M., Johri, A., Khanna, N.N., Viskovic, K., Mavrogeni, S., Laird, J.R., Miner, M., Sobel, D.W., Balestrieri, A., Sfikakis, P.P., Tsoulfas, G., Protogerou, A.D., Misra, D.P., Agarwal, V., Kitas, G.D., Kolluri, R., J.S., Al-Maini, M., Dhanjil, Teji, Sockalingam, M., Saxena, A., Sharma, A., Rathore, V., Fatemi, M., Alizad, A., Krishnan, P.R., Omerzu, T., Naidu, S., Nicolaides, A., Paraskevas, K.I., Kalra, M., Ruzsa, Z., Fouda, M.M. (2022) Deep Learning Paradigm for Cardiovascular Disease/Stroke Risk Stratification in Parkinson's Disease Affected by COVID-19: A Narrative Review. Diagnostics 12(1543). Scopus, (Web Science): https://doi.org/10.3390/diagnostics1 2071543
- 10. Khanna, N.N., Maindarkar, M., Saxena, A., Ahluwalia, P., Paul, S., Srivastava, S.K., Cuadrado-Godia, E., Sharma, A., Omerzu, T., Saba, L., Mavrogeni, S., Turk, M., Laird, J.R., Kitas, G.D., Fatemi, M., Barqawi, A.B., Miner, M., Singh, I.M., Johri, A., Kalra, M.M., Agarwal, V., Paraskevas, K.I., Teji, J.S., Fouda, M.M., Pareek, Suri, G., J.S. (2022)Cardiovascular/Stroke Risk Assessment Patients with Erectile Dysfunction—A Role of Carotid Wall Arterial Imaging and Plaque Tissue Characterization Using Artificial Intelligence Paradigm: A Narrative Review. Diagnostics, 12(1249). Scopus, SCIE (Web of Science): https://doi.org/10.3390/diagnostics12051249
- 11. Munjral, S., Maindarkar, M., Ahluwalia, P., Puvvula, A., Jamthikar, A., Jujaray, T., Suri, N., Paul, S., Pathak, R., Saba, L., Chalakkal, R.J., Gupta, S., Faa, G., Singh, I.M., Chadha, P.S., Turk, M., Johri, A.M., Khanna, N.N., Viskovic, K., Mavrogeni, S., Laird, J.R., Pareek, G., Miner, M., Sobel, D.W., Balestrieri, A., Sfikakis, P.P., Tsoulfas, G., Protogerou, A., Misra, D.P., Agarwal, V., Kitas, G.D., Kolluri, R., Teji, J., Al-Maini, M., Dhanjil, S.K., Sockalingam, M., Saxena, A., Sharma, A., Rathore, V., Fatemi, M., Alizad, A., Viswanathan, V., Krishnan, P.R., Omerzu, T., Naidu, S., Nicolaides, A., Fouda, M.M., Suri, J.S. (2022) Cardiovascular Risk Stratification in Diabetic Retinopathy Atherosclerotic Pathway in COVID-19/Non-COVID-19 Frameworks Using Artificial Intelligence Paradigm: A Narrative Review.

- *Diagnostics*, 12(1234). Scopus, SCIE (Web of Science):
- https://doi.org/10.3390/diagnostics12051234
- 12. **Paul. S.**, Nahar, A., Bhagawati, M., Kunwar, A.J. (2022) A Review on Recent Advances of Cerebral Palsy. *Oxid Med Cell Longev.* 30;2022: 2622310. SCI: https://doi.org/10.1155/20.22/2622310
- 13. **Paul, S.,** & Jain, Shruti & Majhi, Bikram & Pegu, Karobi & Majhi, Vinayak. (2022). A Non-Invasive IoT-Based Glucose Level Monitoring System. *Current Signal Transduction Therapy*. 17. Scopus: https://doi.org/1 0.2174/15743624 17666220524085231
- 14. Das, R., **Paul, S.**, Mourya, G.K., Kumar, N., Hussain, M. (2022) Recent Trends and Practices Toward Assessment and Rehabilitation of Neurodegenerative Disorders: Insights from Human Gait. *Front Neurosci*. 15;16: 859298: https://doi.org/10.3389%2Ffnins.2022.859298
- 15. Saxena, S., Jena, B., Gupta, N., Das, S., Sarmah, D., Bhattacharya, P., Nath, T., **Paul, S.**, Fouda, M.M., Kalra, M., Saba, L., Pareek, G., Suri, J.S. (2022) Role of Artificial Intelligence in Radiogenomics for Cancers in the Era of Precision Medicine. *Cancers*, 14(2860): https://doi.org/10.3390/cancers14122860
- 16. Sahai, N., Saxena, K. K., Gupta, N., Garg, S., Bora, U., Baishya, U. J., Borah, V. (2021): Designing & simulation of a lightweight hip implantstem: an FEM based approach, *Advances in Materials and Processing Technologies*, 8(3): 1126-1134.
 - DOI:10.1080/2374068X.2021.1934646
- 17. Shukla, J L., Husain, A. A., Lyngdoh, S., Nonglang, A., Flavius, P., Sahai, N., Gogoi, M., Singh, Kashyap, L.R., Bhan, S., Seroepidemiological S. study of human brucellosis in the Northeast region of Meghalaya, India. Journal of Family Medicine and Primary Care, 11(9):5176-5186, September 2022. DOI: 10.4103/jfmpc.jfmpc 1705 21
- 18. Shukla, J.L., Husain, A.A., Lyngdoh, S. A., Nonglang, F.P., Sahai, N., **Gogoi, M.**, Singh, L.R., Bhan, S., Kashyap, R.S. (2022). Seroepidemiological study of human brucellosis in the Northeast region of Meghalaya, India, *J. Family Med. Prim. Care*, 11 (9): 5176-5186.
- 19. Sarkar, S., **Gogoi**, **M.**, Mahato, M., Joshi, A.B., Baruah, A.J., Kodgire, P., Boruah, P. (2022)≽ Biosensors for detection of prostate cancer: a review, *Biomed.Microdevice*, 2022, 24 (4), 32. 32. doi: 10.1007/s10544-022-00631-1.
- 20. 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. In: Sanyal, G., Travieso-González, C.M., Awasthi, S., Pinto, C.M.A., Purushothama, B.R. (eds) International Conference Artificial Intelligence on Sustainable Engineering. Lecture Notes in Electrical Engineering, vol 836. Springer, Singapore. https://doi.org/10.1007/978-981-16-8542-2 23
- 21. **Mourya, G. K.**, Paul, S., Handique, A., Baid, U., Dutande, P.V., Talbar, S.N. "Modified U-Net for fully automatic liver segmentation from abdominal CT-image *Int. J. Biomed. Eng. Technol.*, vol.40, no. 1, 2022. https://doi.org/10.1504/IJBET.2022.125099
- 22. Ranjit, S., Mandal, S. (2023) Emerging Direct Selling Industry towards Making the Dream "Atmanirbhar Bharat" A Reality and the Gape of Law: The Consumer Protection Act,2019, *Zeichen Journal*, Vol -9, Issue -03, PP 1-11, DOI:15.10089.ZJ.2023.V09I03.285311.3079

Books

- 1. Darjee, J P., Paul, M., **Sahai, N**., (2023). Low Back Pain In Swimmers: Prevalence And Analysis. Genesis Global Publication, Bhopal, Madhya Pradesh, ISBN: 978-93-92800-01-6
- 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.

Edited Books/Volumes.

- 1. Kanagachidambaresan, G.R., Bhatia, D., Kumar, V.D., Mishra, A., editors (2023). System Design for Epidemics Using Machine Learning and Deep Learning. Springer Nature, Switzerland, ISBN: 9783031197512.
- 2. Bhatia, D., Chaudhari, P., Chaudhary, B., Sharma, S., Dhingra, K., editors (2023). *A guide to Hospital Administration and Planning*. Springer Nature, Switzerland, ISBN: 978-981-19-6692-7.
- 3. Saxena, S., **Paul, S**. (2022). *High-Performance Medical Image Processing*. Apple Academic Press, Canada, ISBN: 9781003190011.
- 4. Gogoi, M., Patra, S., Kundu, D., editors (2023). Nanobiosensors for Point-of-care Medical Diagnostics. Springer Nature, Singapore, Hardcover ISBN: 978-981-19-5140-4

Book Chapters

 Tiwari, A., Tripathi, R.P., Bhatia, D. (2022). Advancements in Data Security and Privacy Techniques Used in IoT-Based Hospital Applications, In Research Anthology on Securing Medical Systems and Records, IGI Global

- Publications, Chapter 30, pp. 662-684. ISBN: 9781668463116.
- 2. Solanki, N., Chaudhary, A., **Bhatia, D.** (2023). Applications of Artificial Intelligence in the Attainment of Sustainable Development Goals In book System Design for Epidemics Using Machine Learning and Deep Learning, G.R. Kanagachidambaresan, **Dinesh Bhatia**, V. Dhilip Kumar, Animesh Mishra (Editors) ISBN: 978303119751, Springer International Publishing, 49-62.
- 3. Ahlawat, J., Chaudhary, A., **Bhatia, D.** (2023) Transformation in Health sector during pandemic by photonic devices", in book *System Design for Epidemics Using Machine Learning and Deep Learning*, G.R. Kanagachidambaresan, **Dinesh Bhatia**, V. Dhilip Kumar, Animesh Mishra (Editors), ISBN: 978303119751, Springer International Publishing, 167-183.
- 4. Rathore, S., **Bhatia**, **D**., Sharma, S. (2023). Engineering and Biomedical Engineering Department. In book *A Guide to Hospital Administration and Planning*, **Dinesh Bhatia**, Prabhat Chaudhari, Bhupinder Chaudhary, Sushman Sharma, Kunaal Dhingra, editors ISBN: 978-981-19-6692-7, Springer International Publishing, pp. 185-192.
- 5. Daurai, B. and **Gogoi, M.** (2023). Point-of-Care Biosensors for Healthcare Applications. In *Nanobiosensors for point-of-care medical diagnostics*, M. Gogoi, S. Patra, D. Kundu (Eds.) Springer Nature, Chapter 1, pp. 1-23.

Funds Received during the current Year

6. Sarkar, S., Mahato, M., Gogoi, M. (2023). Nanomaterials for Point-of-Care Biosensors. In *Nanobiosensors for point-of-care medical diagnostics*, M. Gogoi, S. Patra, D. Kundu (Eds.) Springer Nature, Chapter 3, pp. 55-77.

Proceedings of Seminar/Conferences.

1. Agarwal, A., Mudgal, N., Saharia, A., **Bhatia, D.**, Sahu, S., Singh, G., Bhatnagar, S.K. (2022). Designing of GaN Based Photonic Crystal Biosensor for Blood Disease Analysis", *Optical and Wireless Technologies: Proceedings of OWT 2021*, Springer Nature, Singapore, 283-290

IPR Items

Patents:

- (A) National
 - Dr. Dinesh Bhatia
- 6. **Indian Patent** (202231021677 A) HEART DISEASE DETECTION DIAGNOSING USING MACHINE LEARNING granted on 13th May, 2022.
- 7. **Indian patent** "ML based heart patient scanning and monitoring method" application number 202231046237A dated 26th August, 2022.

(B) International Dr. Dinesh Bhatia

 Certificate of Design, U.K. for Design application entitled "Handheld Remote-control device" Design Number 6256994 dated 31st January, 2023.

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

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	4.5

(B) EMR Research Projects to individual faculty members:

Title of Project	Current Status (New /on-going/ completed)	Name of Investigator (Pl/Co-Pl)	Multi/Singl e 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	Completed	Dr. Sudip Paul (PI) Dr. Dinesh Bhatia (Co-PI)	Multi Institute	Science and Engineering Research Board (SERB), DST, Delhi under IMPRINT-2	1.50
Development of Gait Training Tools and Mobility Aids for Parkinson's Patients	Ongoing	Dr. Sudip Paul (PI) Dr. Gajendra Kumar Mourya	Multi Institute (2021- 2024)	DBT's Twinning Programme for NER, Department of Biotechnology (DBT), Govt. of India	7.67414
Quantum Dot Based Biosensor for Early Detection of Prostate Cancer Using multiple biomarkers in Biological samples (57.99 lakh)	Completed	Dr. Manashjit Gogoi (PI) and Dr. Abhijeet B. Joshi (PI)/ Dr. Mrityunjoy Mahato (Co-PI), Dr. Prashant Kodgire Co-PI), Dr. Arup J Baruah Co-PI), Dr. Chandan K. Nath (Co-PI))	Multi Institute (2019- 2022)	Department of Biotechnology	10.75

Seminars/Conferences/Workshops/ Symposia/Extension Programmes

- 1. XL Annual Meeting of Indian Academy of Neurosciences (IAN-2022), 7th to 10th December, 2022 Department of Biomedical Engineering, NEHU, Shillong. Organizing Secretary: Dr. Sudip Paul, Joint Organizing Secretary: Dr Nitin Sahai.
- 2. 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 28th to 30th April, 2022. Sponsored amount of Rs. 1.20 lakhs for the event. Coordinator: Dr. Dinesh Bhatia.
- 3. "Vritika" an Internship Programme in collaboration with DST, 1st to 31st, August, 2022. Coordinator: Dr. Dinesh Bhatia and Co-Cordinator: Mr. Shyamal Mandal.

- 4. "Karyashala" Workshop sponsored by SERB, DST from 19th to 24th September, 2022 for an amount of Rs. 5.00 lakhs. Coordinator: Dr. Dinesh Bhatia and Co-Cordinator: Mr. Shyamal Mandal.
- 5. Training on "MSME Innovative Scheme for MSME officials" at Shillong from 10th to 14th October, 2022. Coordinator: Dr. Dinesh Bhatia.
- 6. Training program of "Synergistic Training program Utilizing the Scientific and Technological Infrastructure (STUTI) Program" of DST organized at NEHU, Shillong from 6th to 12th February, 2023 for an amount of Rs. 8.83 lakhs. Coordinator: Dr. Dinesh Bhatia.
- 7. Training programme on "Internet of Things" organized in collaboration with NIELIT, Shillong from 20th February to 4th March, 2023. Coordinator: Dr. Dinesh Bhatia.
- 8. Refresher Course on "Biomedical Engineering" at UGC-HRDC, NEHU from 1st to 15th March, 2023. Coordinator: Dr. Dinesh Bhatia.
- 9. "Entrepreneurship Awareness Camp (EAC)" sponsored by NSTEDB, DST in collaboration

with EDI, Ahmedabad organized by Department of Biomedical Engineering, NEHU, Shillong from 17th to 20th March, 2023. Coordinator: Dr. Dinesh Bhatia.

10. Organized a workshop on "Importance of IPR for Startup, Research and Academia" on 6th March 2023 in collaboration with DPIIT IPR Chair, Tezpur University. Convenor of the event was Dr. Manashjit Gogoi.

Academic Collaborations Dr. Dinesh Bhatia

National

Sl. No	Name of collaborator(s)	Institution	Title of project/ academic activity
1	Dr. Hirak Ranjan Das	Institution Innovation Council (IIC), Royal Global University, Guwahati, Assam.	Innovation and IPR
2	Prof. Prakash Babu	Society for Neurochemistry India, Hyderabad	Neuroscience and Neurodegenerative diseases
3	Prof. Suhel Pervez	Jamia Hamdard University, Delhi	Memory and Cognition
4	Prof. Moumita Mukherjee	Adamas University, Kolkata	Terahertz Imaging

> International

Sl.	Name of	Institution	Title of project/
No	collaborator(s)		academic activity
1	Dr. Tsai	National Cheng Kung University Hospital	Healthcare
		(NCKUH), Taiwan	Innovations
2	Dr. Chee Pike	International Brain Research Organization	Neuroscience
	See	(IBRO), France	
3	Dr. Sanjeev	University of Geissen, Germany	Smart healthcare
	Nara		devices

Dr. Manashjit Gogoi

National

Sl. No	Name of collaborator(s)	Institution	Title of project/ academic activity		
1	Dr. Abhijeet Joshi and Dr. Prashant Kodgire	IIT Indore	DBT project		
2	Dr. Arup Jyoti Baruah	NEIGRIHMS	DBT Project		
3	Prof. Sanjukta Patra	IIT Guwahati	Proposed Project		

Honours/Awards/Recognition/Membership/Fellowship

Mr. Shyamal Mandal

- 1. Editorial Board Member of IIP International publications for Edited Book Series.
- 2. Life member of Society for Neurochemistry, India (SNCI)
- 3. Life member of Biomedical Engineering Society of India (BMESI)
- 4. Life member of Indian Science Congress.
- 5. Life member Society for Neurochemistry (India)
- 6. Coordinator, SNCI Local chapter Coordinator North Eastern Region
- 7. Member Bureau of Indian Standard (BIS).

8. External member syllabus committee Diploma in Medical Laboratory (DMLT), West Bengal State Council of Technical & Vocational Education and Skill Developments, West Bengal (2022-23).

Dr. Nitin Sahai

1. Long Term International Fellowships for Young Indian Biomedical Scientists, ICMR-DHR INTERNATIONAL FELLOWSHIPS FOR THE YEAR 2022-23 to Visit 3D Printing and Visualization Center, University of Pecs, Hungary

Dr. Manashjit Gogoi

- 1. Life member of Institution of Engineers, India (M-1561671) and Charter Engineer
- 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)
- 7. Edited a book entitled, "Nanobiosensors for Pointof-care Medical Diagnostics" published by Springer Nature.

Seminars/Conferences/Workshops/Symposia/E xtension Programmes

Dr. Dinesh Bhatia

- 1. Monika, Punit Gautam, **Dinesh Bhatia**, Sushman Sharma, Ravikumar V. Joshi, "Medical Tourism in Malaysia, Singapore, India and Thailand" Global Hospitality and Tourism Conference on Contemporary Marketing Paradigms (GHTC-2022), held on July 27- 29, 2022 at NERIST, Arunachal Pradesh.
- 2. Debraj Chakraborty, **Dinesh Bhatia** and Moumita Mukherjee, 2022 An Experimentally Validated Self-Consistent Analysis on Terahertz Wireless Communication through Tropical Fog, International Conference on Data, Electronics and Computing (ICDEC 2022), 7th to 9th September, 2022, NEHU, Shillong.
- 3. Koyel Das, **Dinesh Bhatia**, "Effect of TMS in assessment and management of migraine and possible expected outcome in vestibular migraine: A study" accepted for poster presentation during the XL Annual meeting of Indian Academy of Neurosciences (IAN 2022) held from 8th to 10th December, 2022 by Department of Biomedical Engineering, NEHU, Shillong.

Mr. Shyamal Mandal

- 1. Delivered lecture on "DST STUTI" Hands on training programme" Organized by Department of Biomedical Engineering, NEHU, Shillong from February 6- 12th, 2023.
- 2. Delivered lecture on "National Conference on Smart Materials for Future Technology (NCSMFT-2022)" Organized by Department of Nanotechnology, NEHU, Shillong from November 29- 30th, 2022.
- 3. Delivered an expert talk and demonstration on "VRITIKA" an internship programme Sponsored

- by SERB, DST, It's a hands on training programme organized by Department of Biomedical Engineering, NEHU, Shillong from August 1- 31st, 2022.
- 4. Delivered lecture on "2nd Virtual International Conference on Biotechnology and Bioinformatics (ICBB-2022). Organized by Insight Bio-solutions, France & OMIC-A- research and Innovations, Turkey in technical collaboration with Indian Science and Technology Foundation, India Annotation Analytics, India from July 30-31, 2022.
- 5. Poster presented on "North East Research Conclave (NERC- 22)" Organized by IIT-Guwahati from May 20-22nd, 2022.
- 6. Presented a paper in National Seminar on "FOREST-DEPENDENT RURAL LIVELIHOODS" sponsored by ICSSR NERC organized by Botany Department, NEHU, Shillong from February 24-26th, 2023.
- 7. Delivered lecture in "Design and Innovation Centre (DIC)" Organized by Department of Biomedical Engineering, NEHU, Shillong on April 02nd, 2022.
- 8. Delivered lecture in "Design and Innovation Centre (DIC)" Organized by Department of Biomedical Engineering, NEHU, Shillong on May 07th, 2022.
- 9. Delivered lecture in "Design and Innovation Centre (DIC)" Organized by Department of Biomedical

Other Activities **Dr. Dinesh Bhatia**

1. Invited Reviewer / TPC member/ Chair for the 6th International Conference on the "Advances in Computing and Data Sciences" (ICACDS-2022) on 22nd -23rd April 2022 with Springer CCIS at GPCET, Kurnool, Andhra Pradesh , International Conference on Artificial Intelligence and Sustainable Computing for smart cities organized by the Department of Computer Science and Engineering, Gautam Buddha University, Greater Noida India from 21st to 22nd December, 2022, 9th International Conference on Signal Processing and Integrated Networks (SPIN 2022) on $25^{th} - 26^{th}$ August 2022 organized by the Amity University, Noida-Delhi NCR, India, International Meet on Sensors and Sensing Technology (SENSORSMEET2023), from 15th to 17th May, 2023 in Brussels, Belgium, IEEE International Conference on Power Systems Technology (POWERCON), Kuala Lampur, Malaysia from 12th to 14th September, 2022, International Conference in Emerging Technologies

Sustainability and Intelligent Systems (ICETSIS), Ahmedabad, India from 22nd to 23rd April, 2022, International Workshop on Applications 2022 (MobiApps 2022) Rome, Italy from 22nd to 24th August, 2022, IEEE International Conference on Power and Energy (PECon 2022)) held at Langkawi, Kedah, Malaysia on 05th – 06th $12^{\rm th}$ December 2022, IEEE International Conference on Engineering Education (ICEED) organized by Universiti Teknologi MARA, Malaysia and Harbin Institute of Technology, China from 27th to 28th October, 2022, 6th International Conference on Advances Computing and Data Sciences" (ICACDS-2023) on 20th -21st April 2023 with Springer CCIS at University of Malta, Malta", International Conference on Data Analytics for Business and Industry (ICDABI) University of Bahrain, 25th to 26th October, 2022, International Conference on Sustainable Islamic Business and Finance (SIBF), University of Bahrain 11th to 12th October, 2022, IEEE International Conference on Power and Energy (PECon), Langkawi, Malaysia from 5th to 6th December, 2022, 10th International Conference on Signal Processing and Integrated Networks (SPIN 2023) on 23rd-24th March 2023 organized by Amity University, Noida, Uttar Pradesh, 4th International Conference on Computing and Communication Systems (https://www.i3cs2023.in) organized by NEHU, Shillong, Meghalaya, India from 16th -18th March, 2023, Eighth International Conference on Bio signals, Images, and Instrumentation (ICBSII 2022) during 16th to 18th March, 2022 organized by the SSN Engineering College, Chennai.

2. Invited Reviewer of the Expert Systems With Applications, Elsevier Journal, Int. J. of Medical Engineering and Informatics, Inderscience Publishers, International Journal of Statistics in Medical Research, Life science Global, Canada, Biomedical Signal Processing and Control, Elsevier, Frontiers In Behavioral Neuroscience Journal, Switzerland, Frontiers In Behavioral Neuroscience Journal, Switzerland, Frontiers in Neurology Journal, Switzerland Interdisciplinary Perspectives on Infectious Diseases, Hindawi Publishers, Global Journal of Tumor and Brain Disorder (GJTBD), Iris Publishers, Qualitative Market Research Journal, Emerald Publishing, Frontiers in Human Neuroscience Journal, Switzerland, Frontiers in Public Health Journal, Switzerland, Journal of Neurorobotics, Frontier, Switzerland, Biomedical Engineering-Applications, Basis and Communications (named BME), World Scientific Publishing Co Pvt. Ltd,

- Singapore, Int. J. of Medical Engineering and Informatics, Inderscience Publishers, International Journal of Statistics in Medical Research, Life science Global, Canada, Biomedical Signal Processing and Control, Elsevier, Materials Journal, MDPI Journals, Switzerland, Applied Artificial Intelligence, Taylor and Francis, ISSN: 0883-9514. ,Disability and Rehabilitation Journal, Taylor and Francis ,Biomedical Materials and Engineering, IOS Journal, Frontiers in Pediatrics Journal, London, U.K., Sensors Journal, Mayo Clinic Proceedings: Digital Health, ISSN: 2949-7612, Science Direct.
- 3. Invited Resource Person-cum-Panelist in the 12th International Workshop on "UGC CARE list of Journals: Issues and Challenges of Research Publications" jointly organized by the Internal Quality Assurance Cell (IQAC), North-Eastern Hill University (NEHU), Shillong, Meghalaya, India, and the Indian Society for Training and Development (ISTD), Shillong Chapter, Shillong, Meghalaya, India in collaboration with the Department of Philosophy, and the IQAC, Moran College, Moranhat, Charaideo Dist., Assam, India, the Department of Philosophy, Venkateswara University (SVU), Tirupati, Andhra Pradesh, India on 28th January 2022, Materials Journal, MDPI Journals, Switzerland ISSN: 1996-1944 w.e.f August 2022.
- 4. Invited talk/keynote talk/speaker on Design aspects in Healthcare technology at Department of BME, NEHU for Design Innovation add on course on 6th August, 2022, on "Clinical and Translational Research on Neuroscience" for the 36th Annual Meeting of Society for Neurochemistry India (SNCI), International Conference on One Health and Translation Research in Neurosciences (SNCI-CON 2022) from 10th -12th November, 2022 organized by Dr. GM Taori, Central India Institute of Medical Sciences, (CIIMS) Nagpur, on "Innovations in Healthcare" by Design Innovation Centre, NEHU, Shillong on 6th August, 2022, during the Institution Innovation Council (IIC) -SGT University celebration, "Study the effects of neuro-modulatory techniques in the assessment and management of vestibular migraine in children" during International sponsored School jointly organized by the International Brain Research Organization (IBRO)-APRC Associated along with the Society for Neurochemistry, India (SNCI) by University of Hyderabad on the theme "Understanding pathophysiology of Pain and cognition using animal experiments" from 12th to 16th December 2022, Study effects of neuromodulatory techniques in the assessment and

management of children with disability" during the Hands-On training under DST-STUTI Program organized by the Dept. of Toxicology, School of Chemical Life Sciences, Jamia Hamdard University, Delhi from $20^{th} - 26^{th}$ December, 2022, during the 36th SNCI Annual meeting and International Conference on "One Health and Translational Research in Neurosciences" from 10th to 12th November, 2022, Digital Medicine and Image Processing (DMIP) 2022 10th to 13th November, 2022, Kyoto, Japan, for One Day Symposium of the SNCI Delhi Local Chapter held on 13th March, 2023 organized by Jamia Hamdard University, Delhi, Effect of r-TMS in assessment and management of migraine and possible expected outcome in vestibular migraine: A study" during the 36th SNCI Annual meeting and International Conference on "One Health and Translational Research in Neurosciences" from 10th to 12th November, 2022.

- 5. Invited Moderator for International Webinar on New Horizons for Digital Healthcare and technologies organized by NCKUH, Taiwan on 11th August, 2022, "Study the effects of neuromodulatory techniques in the assessment and management of vestibular migraine in children" during International sponsored School jointly organized by the International Brain Research Organization (IBRO)-APRC Associated along with the Society for Neurochemistry, India (SNCI) by University of Hyderabad on the theme "Understanding pathophysiology of Pain and cognition using animal experiments" from 12th to 16th December 2022, Study effects of neuromodulatory techniques in the assessment and management of children with disability" during the Hands-On training under DST-STUTI Program organized by the Dept. of Toxicology, School of Chemical Life Sciences, Jamia Hamdard University, Delhi from $20^{th} - 26^{th}$ December, 2022, during the 36th SNCI Annual meeting and International Conference on "One Health and Translational Research in Neurosciences" from 10th to 12th November, 2022, Digital Medicine and Image Processing (DMIP) 2022 10th to 13th November, 2022, Kyoto, Japan, for One Day Symposium of the SNCI Delhi Local Chapter held on 13th March, 2023 organized by Jamia Hamdard University, Delhi.
- 6. **Invited** as an expert for PRC meeting for 'STI Task Force- Call for Proposals on Sexually Transmitted Infections' by ICMR, New Delhi on 2nd and 3rd March, 2023
- 7. **Invited** for visit by His Excellency Chargé de Affaires ad interim Kunihiko Kawazo and Political

- Counsellor Mr.Kentaro Orita of the Embassy of Japan in New Delhi, who visited to NEHU on 30th May, 2022.
- 8. **Invited Member** Board of Studies in BME Osmania University, Hyderabad, June, 2022.
- 9. **Invited Evaluator/Domain Expert** for NRDC-TDVC Program for the Year 2022-23 by National Research Development Corporation (NRDC), GoI, New Delhi.
- 10. **Invited Subject Expert** by Kerala State Council for Science, Technology and Environment (KSCSTE) for evaluation of post-doctoral fellowship scheme.
- 11. **Invited** Evaluator, Dr. D.S. Kothari Research Grant by UGC, Delhi in January, 2023.

Shyamal Mondal

1. Technical committee member in 3rd International Conference on "Advanced in Electronics & Communication Engineering (AECE -2023), IEEE sponsored Conference, organized by Raj Kumar Goel Institute of Technology, Ghaziabad, 2023.

Dr. Sudip Paul

- 1. Session Chair for the track" Biomedical and Bioinformatics", I3CS-2023 (16.03.2023) to 18.03.2023)
- 2. Executive Committee member of Indian Academy of Neurosciences (2023-2025)
- 3. Invited talk on Safety Parameters while working under Lab conditions at UGC HRDC, NEHU Short term course on 18.02.2023, on Development of Innovative Healthcare Devices at VRITIKA Internship Programme on 31.08.2022, on Future Technologies at VIGYANUTSAV in May. 2022
- 4. Evaluator for Smart India Hackathon, 202
- 5. **Paul, S.,** et al. (2022). Advancement in Biomaterials & Smart Materials for Healthcare (Guest Editor), Tech Science Press, ISSN 1546-2218.
- 6. **Paul, S.**, & Jain, S. (2022). Special Issue: *Modern Technological Intervention in Healthcare*: Vol 1, **Dr. Manashjit Gogoi**
- 1. Reviewer of Nanoscience and Nanoengineering Journal (Horizon Research Publishing, USA)
- 2. Reviewer of Universal Journal of Medical Science (Horizon Research Publishing, USA)
- 3. Reviewer of Biomedical Research Journal
- 4. Reviewer of Bionanotechnology, Springer nature
- **5.** One of the panel members in the Technology Vision 2047 -workshop held at IIT Guwahati during 14-15th March 2023.
- 6. Delivered a lecture at DIC-Add on course on 13th August 2022 on "Point of care Biosensors for Biomedical Applications".

- 7. Delivered a lecture on "Development of paper based diagnostic devices", at DST sponsored VERTIKA internship programme 2022 held during 1st-31st August 2022.
- 8. Delivered a lecture on "Multifunctional nanoparticles for cancer drug delivery" at National Conference on Smart Material for Future Technology (NCSMFT-2022) held during 29th to 30th November, 2022 Department of
- Nanotechnology North Eastern Hill University, Shillong-793022, Meghalaya, India
- 9. Delivered a lecture on "Point-of-Care Nanobiosensors for Biomedical Applications" at National Conference on Smart Material for Future Technology (NCSMFT-2022) held during 29th to 30th November, 2022 Department of Nanotechnology North Eastern Hill University, Shillong-793022, Meghalaya, India.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

Details of	Name		1	Dinesh	Nitin Sahai	Dr. Sudip	Dr. Manashjit	Dr. G K	Shyamal Mandal
Faculties	1 varie			Bhatia	Titili Sanai	Paul	Gogoi	Mourya	Siryamai wandar
	Date of Joining			01/08/2013	27/06/2012	29/06/2012	30/07/2012	26/04/2013	29/04/2013
	Field of		3	Biomedical	3D,	Biomedical	Nanomedicine,	Biomedical	Biomaterials
	specialisation			Engineering	Biomechanic			Instrumentatio	
					s	on	Cancer drug	n	
							delivery		
	UG		4	20	10	11	11	10 years	10 Yrs
	PG, including PhD		5	12	02	8	9	01 YERS	9 month
Experienc									
e (in									
Years)	D		_	\$7	37	37	Yes	X 7	X7
	Basic Research		6	Yes 13	Yes	Yes		Yes	Yes
	Applied Research Action Research		0	7	1	No No	11 11	No No	10 yrs 2 Yrs
	Project Submitted		8 9	4	0	Nil	2		
	Ongoing Project		10	1	0	1N11 1	Nil	0	0
	Research Paper in			2	0	1	4	01	U
	UGC care list	Group II	12		02	16	No	01	01
	journals	Group II	12		02	10	110	U	01
		Books	13	3	01	1	1	0	00
(B)	chapters Published		14		0	Nil	2	0	00
Research	1	Chapters					Γ		
activities	Popular Articles	1	15	00	0	Nil	No	0	00
	(News Paper/								
	Magazines)								
	Seminar /		16		1	Nil	1	0	02
	Conference/	International	17	02	0	1	No	1	00
	Symposia								
	organized						_		
	Seminar /		18		01	Nil	No	0	04
	Conference/	International	19	02	0	Nil	No	0	01
	Symposia								
	attended Conference		20	0.4	0	Nil	1	1	00
	Proceedings		20	04	V	INII			00
	Consultancy		21		0	Nil	No	0	00
	Applied			02	0	Nil	No	0	00
	Published		23	02	0	Nil	1	0	00
	Granted		24	03	0	Nil	No	0	00
Patent	Granica								
(D)	MOOC/SWAYA		25	-	0	No	No	no	00
E-Content	M/ E-content								
L-Content	developed								
	Teaching		26	Yes	Yes	Yes	Yes	Yes	Yes
	/Extension								
	outreach activities		2.5	T. 7	* 7	* 7	T.	T. 7	* 7
	Responsibilities		27	Yes	Yes	Yes	Yes	Yes	Yes
(E)	other than teaching		20	0.5	0.1		NT.	N.T.	12
	Awards/ Honours/		28	US	01	yes	No	No	12
	Recognition/ Membership/								
	Fellowship								
	Collaborations	National	29	03	0	yes	Yes	No	04
	Condociations	ı tanonar	_,			, 03	103	10	
		International	30	03	0	yes	No	No	01
]	

DEPARTMENT OF COMPUTER APPLICATIONS (TURA CAMPUS)

Head: Dr. Anindya Halder (till 20/07/2022)

Dr. Rubul Kumar Bania (since 03.08.2022)

Telephone: +91-364-272 3642

E-mail: hodca@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
Assistant	Dr. Ansuman Kumar, M.Tech-IT (Tezpur University), Ph.D. (NEHU).	Bioinformatics, Machine Learning, Pattern Recognition, and Computer Networks
Professor	Dr. Rubul Kumar Bania, B.Sc. Comp. Science (Gauhati University), MCA (Tezpur University), M.Tech-IT(Tezpur University), Ph.D. (NEHU)	Machine learning, Sentiment Analysis, Algorithms.
	Dr. Anindya Halder, MCA (University of Kalyani), Ph.D. (Jadavpur University) (ON LIEN)	Machine Learning, Soft Computing.

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 NEP, the MCA syllabus is also get revised in September, 2022.

Students' Profile

> Enrolment Capacity: MCA: 24 (1st year) + 23 (2nd year)

Ph.D.: Variable

Enrolment of students from different States of India and Abroad

	Gen	1	ST		SC		OB	С	EW	S	PWI)	TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	4	2	1	1	-	-	-	-	-	-	-	-	5	3
Bihar	2	-	-	-	-	-	-	-	-	-	-	-	2	-
Meghalaya	1	-	6	6		1	-	-	-	-	-	-	7	7
Sub Total	7	2	7	7		1	-	-	-	-	-	-	14	10
Total	9		14	•	1	•	_	•	_		_		24	•

Degrees Awarded:

Degrees awarded to students from different States of India and Abroad (MCA)

	Gen		ST		SC		OBC		EWS		PWD		TOTA	۱L
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	1	1	-	-	-	-	-	-	-	-	-	-	1	1
Assam	8	1	-	-	-	_	-	-	-	-	-	-	8	1

Manipur	-	-	-	-	-	-	-	1	-	-	-	-	-	1
Meghalaya	-	-	14	7	-	-	-	-	-	-	-	-	14	7
Nagaland	-	-	1	2	-	-	-	-	-	-	-	-	1	2
Sub Total	9	2	15	9	-	-	-	1	-	-	-	-	24	12
Total	11		24		-		1		-		-		36	

Placement of Students

Name of the student	Organization	Place of Work		
Rohit Gupta	Edneed Technologies,	Noida, India		
Angelbert Riahtam	Lewduh Tech,	Shillong		
Ayushman Duarah	Haaku Technology	Guwahati		
Adnan Rahman	Haaku Technology	Guwahati		
Rose Ahmed	Flyerssoft Private Limited	Bangalore		

Courses Conducted

> Postgraduate: Master of Computer Application

Semester I: Digital Logic and Design, Data Structures and Algorithms, Discipline-Specific Elective Course -Elective-I, Discipline-Specific Elective Course - Elective-II, Programming and Problem Solving through C, Data Structures and Algorithms- Lab, Programming and Problem Solving through C-Lab.

Semester II: Operating System, Computer Organization and Architecture, Discipline-Specific Elective Course - Elective-III, Discipline-Specific Elective Course-Elective-III, Research Methodology & Proposal Writing, Internet Technology & Its Application, Elective-III Lab, Internet Technology & Its Application-Lab

Semester III: Software Engineering, Database Management System, Data Communication and Computer Networks, System Programming and Compiler Design, Elective-II (Artificial Intelligence), Database Management System Lab, Data Communications and Network Programming

Lab, System Programming and Compiler Design Lab.

Semester IV: Dissertation.

> Ph.D. courses

Soft Computing, Research Methodology, Design and analysis of Algorithm.

Seminars/Conferences/Workshops/Symposia/E xtension Programmes

- 1. Organized One week duration High-End Workshop Sponsored by Science and Engineering Research Board (SERB) on "Applications of Artificial Intelligence in Healthcare" during the period of 19th -24th September, 2022(Event Organizer: Dr. Rubul Kumar Bania)
- 2. In Collaboration with Biotech KISAN Hub, NEHU, Tura Campus Dept. of Computer Application organized International Conference on Environment and Sustainable Development (ICESD-2022) Theme: Emerging Trends in Agriculture, Life Science & Applied Computing, during November 24-25, 2022 Venue: NEHU, Tura Campus, Meghalaya, India (Event Convener: Dr. Rubul Kumar Bania and Dr. Ansuman Kumar

Publications

> Research papers (7)

- 1. R. K. Bania (2023), "Ensemble of Deep Transfer Learning models for Real-time Automatic Detection of Face mask", Multimedia Tools and Applications (Springer), https://doi.org/10.10 07/s 11042-023-14408-y
- 2. R. K. Bania and A. Halder (2023), "Automatic Breast Mass Lesion Detection in Mammogram Images", International Journal of Image and Graphics, Indexing: Web of Science (SCI), Scopus. Status: Accepted and In-press.
- 3. R. K. Bania, and S. Sarmah(2022), "Entropy based Greedy unsupervised feature selection method using Rough set theory for Classification", ICTACT Journal on Soft Computing, Vol.13, No. 1, pp. 2741 2749, DOI: 10.21917/ijsc.2022.0381.
- 4. R. K. Bania, and L Worchuirin(2022), "An Approach Towards Ensemble Attribute Selection for Classification", Science & Technology Journal (STJ), Vol. 10, No. 2, pp.85-90. https://doi.org/10.22232/stj.2022.11.01.01

- 5. Majumder, S., Kumar, A., Halder, A. (2022). Combining statistical and Fuzzy-rough classifiers for cancer Subtype prediction. Journal of Biodiversity and Environmental Sciences, Vol. 21, No. 2, p. 92-99, 2022.
- 6. Kumar, A., Halder, A. (2022). Greedy fuzzy vaguely quantified rough approach for cancer relevant gene selection from gene expression data. Soft Computing (Springer), doi:10.1007/s00500-022-07312-4
- 7. Dasgupta, S., Dutta, M., Halder, A., Khan, A., Saha, G. Pal, R.K. (2022) Computational analysis of gene expression data using bidirectional long short-term memory for disease diagnosis. Innovations in Systems and Software Engineering (Springer), ISSN:1614-5046, 1-15, https://doi.org/10.1007/s11334-022-00492-0. (2022).

Funds Received during the current Year

(G) BulkGrant to Department/Centre/Section etc. other than EMR grant

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	NEHU	2.5

Seminars/Conferences/Workshops/Symposia/E xtension Programmes

Dr. Rubul Kumar Bania

- Dr. Rubul Kumar Bania has participated in IP Awareness Training Program under National Intellectual Property Awareness Mission organized by Intellectual Property office, Govt of India, on dated 31st January 2023.
- 2. Dr. Ansuman Kumar has attended *Refresher Course (ICT)*, Organized by UGC-Human Resource Development Centre, University of Lucknow, Lucknow, Uttar Pradesh, 18 June -01 July, 2022.

Other Activities Dr. Rubul Kumar Bania

1. Delivered and Conducted workshop on "Foundation of Machine Learning and its

- Application" at Martin Luther Christian University, Shillong. March-16, 2023.
- 2. Delivered a talk in International Conference on Environment and Sustainable Development (ICESD-2022) Theme: Emerging Trends In Agriculture, Life Science & Applied Computing, during November 24-25, 2022, Venue: NEHU, Tura Campus, Meghalaya, India.
- 3. Delivered a talk in National Seminar on "Machine Learning and its Application" organized by Dept. of IT, ICFAI University, Tura, Meghalaya, 9-10 November, 2022.
- 4. Delivered Talk in Technical session of Community Extension Programme on "NEP-2022 and its Role in HEIs" in Mendipathar College, North-Garo Hills. 1st Nov, 2022.
- 5. Session Chaired in National Seminar on Conservation of Biodiversity (NSCB, 2022), September 2nd & 3rd, 2022, Venue: NEHU, Tura Campus, Meghalaya, India.

- 6. Visiting (Guest) faculty for 1st Semester M.Sc. RDAP Course No: RDA-504., NEHU, Tura Campus, March, 2023.
- 7. Visiting (Guest) faculty for 1st Semester Agri Business Management and Food Technology, Course No: ABM-C-107., NEHU, Tura Campus, September, 2022.
- 8. Visiting (Guest) faculty for 1st Semester Agri Business Management and Food Technology, NEHU, Tura Campus, September, 2023.
- 9. Acted as reviewer for: i) Arabian journal of Science and Engineering (Springer), ii) Information Sciences (Elsevier), iii) SN Computer Science (Springer), iv) Multimedia Tools and Applications, Springer

Dr. Ansuman Kumar

1. Delivered a talk in SERB Sponsored High End Workshop on "Applications of Artificial Intelligence in Healthcare", organized by Dept. of

- Computer Application, North-Eastern Hill University, Tura Campus, Meghalaya, from 19/9/2022 to 24/9/2022.
- 2. Reviewer of Journal of *Gene Reports*, Elsevier.
- 3. Reviewer of International Conference on Intelligent Systems, Advanced Computing and Communication (ISACC-2023) organized by Dept. of Computer Science and Engineering, Assam University.

Dr. Anindya Halder

- 1. Delivered a talk in SERB Sponsored High End Workshop on "Applications of Artificial Intelligence in Healthcare", organized by Dept. of Computer Application, North-Eastern Hill University, Tura Campus, Meghalaya, from 19/9/2022 to 24/9/2022.
- 2. Acted as Reviewer of Several reputed Journals and Conferences.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

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	16/05/2022
	Field of specialisation		3	Bioinformatics, Machine learning	Bioinformatics, Machine learning, Medical Image analysis	Machine learning, Artificial Intelligence
(A)	UG		4	-	-	-
Teaching Experience (in Years)	PG, including PhD		5	YES	YES	YES
,	Basic Research		6	Yes	Yes	Yes
	Applied Research		7	Yes	Yes	Yes
	Action Research		8	NIL	NIL	NIL
	Project Submitted		9	NIL	NIL	YES
	Ongoing Project		10	NIL	NIL	NIL
	Research Paper in	Group I	11	NIL	NIL	NIL
	UGC care list journals	Group II	12	2	3	4
	Books /Books	Books	13	NIL	NIL	NIL
(B)	chapters Published	Book Chapters	14	NIL	NIL	NIL
Research activities	Popular Articles (News Paper/ Magazines)		15	NIL	NIL	NIL
	Seminar / Conference/	National	16	NIL	YES	1
	Symposia organized	International	17	1	NIL	1
	Seminar / Conference/	National	18	1	NIL	3
	Symposia attended	International	19	NIL	NIL	2
	Conference Proceedings		20	1	2	4
	Consultancy		21			
	Applied		22	NIL	NIL	NIL
(C)	Published		23	NIL	NIL	NIL
Patent	Granted		24			
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	NIL	NIL	NIL
	Teaching /Extension /outreach activities		26	NIL	YES	YES
	Responsibilities other than teaching		27	YES	YES	YES
(E) Any Other	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	NIL	YES	YES
	Collaborations	National	29	NIL	YES	YES
		International	30	NIL	NIL	NIL

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Head: Prof. Rupaban Subadar (till 21st Nov, 2022)

Prof. Subhash C. Arya (since 22nd Nov 2022) **Telephone:** +91-364-272 3661 **E-mail:** hodece@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
	Prof. Lairenlakpam Joyprakash Singh, M.Tech (Tezpur University), Ph.D. (Jadavpur	Signal Processing and its Applications
Professor	University) Prof. Subhash.C.Arya, B.Tech (GGSIPU, Delhi), Ph.D. (IIT (ISM), Dhanbad)	Silicon Photonics and Optical Communication Systems
	Prof. Rupaban Subadar, M.Tech (Tezpur University), PhD (IIT, Guwahati)	Theory of Wireless Communications
Associate Professor	Dr. SushantaKabir Dutta, M.Tech (Manipal Institute of Technology, Manipal), Ph.D. (NEHU)	Speech Signal Processing, Machine Learning for Speech Processing
	Dr. Nipanka Bora, M.Tech (Tezpur University), Ph.D. (NEHU) Dr. Rajkishur Mudoi, M.Tech (Tezpur University), Ph.D. (NEHU)	Nano Scaled Device Modelling, VLSI Design Wireless Communication
	Dr. Jaydeep Swarnakar, M.E.(Jadavpur University), Ph.D. (NEHU)	Control System, Fractional-Order-System
Assistant Professor	Dr. Juwesh Binong, M.Sc (Bhavnagar), Ph.D. (Tezpur University)	Artificial Intelligence/Machine Learning
	Mr. Asif Ahmed, B.Tech (Kalyani University), M.Tech (NIT, Durgapur)	VLSI
	Ms. Fidalizia Pyrtuh, B.Tech (SJCE), M.Tech (IIIT, Allahabad)	Signal Processing/Speech Processing
	Dr. Pankaj Sarkar, M.Tech (Burdwan University), Ph.D (Jadavpur University)	Microwave Passive and Active Circuits Design

Thrust Areas of Research

Signal Processing: Speech, Language and Speaker Recognition, Digital Image Processing, Quantinized Semiconductor Structures, Microwave Passive and Active Circuit Design,

Telecommunication Engineering, Optical Fibre Communication and Opto-Electronics Devices, Theory of Wireless Communication, MIMO, Mixed Signal CAD tool and VLSI Design, Artificial Intelligence, 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. B. Tech programme in Electronics and Communication Engineering, the Department has an enrolment capacity of 30 students by Vertical entry and 3 students by Lateral entry and 8 students under EWS category. The 18 students can get admission in the M.Tech programme. A total of 41 and 18 seats are available for B.Tech. and M.Tech. degrees, respectively, in the department of Electronics and Communication

Engineering. The Ph.D. enrolment capacity usually varies according to the vacancy under individual Faculty members. Total 3 candidates took admission in Ph.D. in the mention duration. Faculty and students have published papers 12 international journals,12 book chapters, 01 edited book and 4 articles in proceedings/seminar etc. in this year. One scholar was awarded Ph.D degree, three students got job through campus placement and three students were selected for higher education. The pass percentage of students in B.Tech (ECE) programme, M.Tech (ECE) programme were 96.15%, 100%, respectively. The Department under the organizing chairmanship of Dr. Juwesh

Binong has organized the International Conference "International Conference on Data. Electronics and Computing (ICDEC-2022) in association with COMSYS Educational thrust Kolkata during 7th September to 9th September, 2022.2. The Department has organized one day Hands on Training and Workshop with Keysight Technologies on 3rd August, 2022. Coordinator: Dr. Pankaj Sarkar. The department has revised and implemented the syllabi of M.Tech (ECE) and Ph.D (ECE) programmes as per NEP-2020. Faculty members from the department have submitted few research projects to different funding agencies for possible financial support.

Students' Profile

- > Enrolment Capacity: B.Tech- 30/3 (Vertical/ Lateral), M.Tech- 18, PhD Variable
- > Enrolment of students from different States of India and Abroad (B.Tech.)

	Gen		ST		SC		OBC	7	EWS	S	PWI)	TOT	ΆL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Andra Pradesh	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Arunachal	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Assam	5	5	1	1	-	-	3	-	-	-	-	-	9	6
Bihar	1	-	-	-	-	-	1	-	-	-	-	-	2	
Maharashtra	-	-	-	-	-	-	-	1	-	-	-	-		1
Meghalaya	1	1	5	-	-	-	-	-	-	-	-	-	6	1
Telengana	-	-	-	-	-		-	1	-	-	-	-		1
Uttar Pradesh	-	-	-	-	-	2	-	-	-	-	_	_	2	
West Bengal	1					1	-	-	-	-	-	-	1	1
Sub Total	9	7	6	1		3	4	2	-	-	-	-	21	11
Total	16		7		3		6		-		-		32	

Enrolment of students from different States of India and Abroad (M.Tech.)

	Gen		ST		SC		OBC	,	EWS	5	PWI)	TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	3	-	-	-	-	-	-	-	-	-	-	-	3	-
Meghalaya	-	-	4	3	-	-	-	-	_	-	_	-	4	3
Sub Total	3	-	4	3	-	-	-	-	_	-	_	-	7	3
Total	3		7		-		-		_		_		10	

Enrolment of students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBO		EW	S	PW	D	TO	ΓAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Meghalaya	-	-	-	1	-	-	-	_	-	_	-	_	-	1
Rajasthan	1	-	-	-	-	-	-	-	-	-	-	-	1	
Sub Total	1	-	-	2	-	-	-	-	-	-	-	-	1	2
Total	1		2	•	-	•	-	•	-	•	-	•	3	•

Degrees Awarded

- > B.Tech: 50, M.Tech.:09, Ph.D.: 01
- > Degrees Awarded to students from different States of India and Abroad (B. Tech.)

	Gen		ST		SC		OBC		EWS		PWD)	TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	10	1	10	2	3	1	_	-	-	-		-	23	4

Bihar	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Meghalaya	1	-	13	5	1	-	-	-	-	-	-	-	15	5
West Bengal	2	-	-	-	_	-	-	-	-	-	-	-	2	
Sub Total	14	1	23	7	4	1	-	-	-	-	-	-	41	9
International	0	0	0	0	0	0	-	-	-	-	-	-	0	0
Total	15	•	30		5		-		-	•	-		50	•

> Degrees Awarded to students from different States of India and Abroad (M. Tech.)

	Gen		ST		SC		OBC		EWS)	PWD)	TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	1		3	-	-	-	-	-	-	-	-	-	3	-
Bihar	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Meghalaya	-	-	4	1	-	-	-	-	-	-	-	-	4	1
Sub Total	1	-	7	1	-	-	-	-	-	-	-	-	8	1
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	1		8		-		-		-		-		9	

> Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC		EWS		PWD)	TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	1	-	-	_	-	-	-	-	-	-	-	-	1	-
Sub Total	1	-	-	-	-	-	-	-	-	-	-	-	1	-
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	1		-		-		-		-		-		1	

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/Joint
		Supervisor
Mr. Parag Moni Patangia	"Correlated Probability Density Functions and their applications on modern Wireless receivers"	Prof. Rupaban Subadar

Placement of Students

Name of the Student(s)	Organization	Place of Work
Prabajit Kutum	Dalmia Cement Bharat Ltd	East Jaintia Hills
Sambun Langshiang	Dalmia Cement Bharat Ltd	East Jaintia Hills
Biplab Newar	Dalmia Cement Bharat Ltd	East Jaintia Hills

Students Selected for Higher Studies

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
Samparka Dey	M.Tech	NIT-Silchar	India
Argha Kundu	M.Tech	NIT-Durgapur	India
Amartya Paul	Ph.D.	NIT-Meghalaya	India

Research Fellowship

CSIR- UGC-NET UGC Rajiv Gandhi National	NFST	Visvesvaraya Ph. D Research Fellowship	Others
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	Fellowship (SC/ST)			
06	01	06	01	

Courses Conducted

Undergraduate: B.Tech in Electronics and Communication Engineering

I: Engineering Mathematics-I. Semester Physics-I, Engineering Elements of Environmental Science, **Professional** Communication Skills. Basic Electrical Digital Engineering, English Language Laboratory, Engineering Graphics.

Semester II: Engineering Mathematics-II, Engineering Physics-II, Engineering Chemistry, Basic Electronics, Engineering Physics Laboratory, Engineering Chemistry Laboratory, Basic Electronics & Electrical Laboratory.

Semester III: Computer Programming, Electronic Devices and Circuits, Signals and Systems, Electrical Network Theory, Computer Programming Laboratory, Electronics Devices and Circuits Laboratory, Circuit Simulation Laboratory.

SemesterIV:InstrumentationandMeasurements,DigitalElectronics,ElectromagneticTheory,AnalogCommunication,InstrumentationandMeasurementsLaboratory,DigitalElectronicsLaboratory,AnalogCommunicationLaboratory.

Semester V: Statistical and Random Process, Microprocessors, Digital Communication, Linear IC Systems, Microprocessors Laboratory, Digital Communication Laboratory, Linear IC Systems Laboratory.

Semester VI: Digital Signal Processing, Microcontroller and Embedded Systems, Microwave Engineering, Elective-I Antenna and Radar Engineering, Digital Signal Processing Laboratory, Microcontroller and Embedded Systems Laboratory, Microwave Engineering Laboratory.

Semester VII: Elective-II: Business Management, **Fundamentals** of Mobile Communication. Control Systems, **VLSI** Systems, Elective-III: Social Robotics. Fundamentals of Biotechnology, VLSI Systems Laboratory.

Semester VIII: Major Project, General Viva, PCB Laboratory and Electronics Workshop.

> Postgraduate: M. Tech in Electronics and Communication Engineering

Semester I: Advanced Signal Processing, Machine Learning, Discipline Specific Elective Course Elective-I: Silicon Photonics, Discipline Specific Elective Course Elective-II-Advanced Practices in Machine Learning, Generic Elective Course (Multidisciplinary): Biomedical Instrumentation.

Semester II: Next Generation Communication Techniques, Modern Digital Control Systems, Discipline Specific Elective Course Elective-III-Photonic Integrated Circuits, Discipline Specific Elective Course Elective-IV-Advanced Practices in VLSI Devices and RF Circuits, Research Methodology and Proposal Writing, Skill Enhancement Course: Advanced Data Visualization and Analytics

Semester III: Dissertation - Part I **Semester-IV:** Dissertation - Part II

> PhD Course work

Research Methodology, Advanced Wireless Communication, Machine Learning, Advanced Image Processing, Research and Publication Ethics.

Seminars/Conferences/Workshops/Symposia/ Extension Programmes

- 1. The Department has organized the International Conference titled "International Conference on Data, Electronics and Computing (ICDEC-2022) in association with COMSYS Educational thrust Kolkata during 7th September to 9th September, 2022. Coordinator: Dr. JuweshBinong.
- 2. The Department has organized one day Hands on Training and Workshop with Keysight Technologies on 3rd August, 2022. Coordinator: Dr. Pankaj Sarkar

Publications

> Research papers (11)

1. Das S., Sarkar P.(2022). A dual-band reconfigurable filtering antenna using PIN diodes for WiMAX and WLAN applications. International Journal of RF and Microwave Computer-Aided Engineering, John Wiley &

- Sons, Inc. 32(12): https://doi.org/10.1002/mmce.23439.
- 2. Bandyopadhyay A., Sarkar P., Ghatak R. (2022). A band width reconfigurable bandpass filter for ultrawideband and wideband applications. IEEE Transactions on Circuits and Systems II: Express Briefs. 69(7): 2747-2751.
- 3. Rahman A., Sarkar P. (2022). A TunableBandpass Filter Using Modified Half Mode SIW Cavity and Spoof SPP Structure. International Journal of Microwave and Optical Technology. 18(2): 122-130.
- 4. Dutta, S. K;Ismail,T; and Singh, L. J (2022). A comparison between phonetic engine and GMM–UBM classifier for language identification tasks Microsystem Technologies, 28, 903–911.
- 5. 6.Medhi, K; Hoque,N; Dutta, S.K.; Hussain, M.I. An efficient EEG signal classification technique for Brain–Computer Interface using hybrid Deep Learning. Biomedical signal processing and Control. 78, 1-12.
- 6. Rynjah, F., Syiem, B., Singh, L.J.(2022). Investigating Khasi Speech RecognitionSystems using a Recurrent Neural Network-Based Language Model. InternationalJournal of Engineering Trends and Technology. 70(7), 269–274.
- 7. Dutta, S. K; Ismail, T; and Singh, L. J (2022). A comparison between phonetic engine and GMM–UBM classifier for language identification tasks Microsystem Technologies, 28, 903–911.
- 8. Mudoi, R. (2022). ASER of SISO system with rectangular QAM scheme overα-μ fading channels. International Journal of Electronics Letters, 10(2), 131-143.
- 9. Swarnakar J. (2022). Discrete-time realization of fractional-order proportional integral controller for a class of fractional-order system. Numerical Algebra, Control and Optimization. 12(2): 309-320.
- 10. Patangia P. M., Subadar R. (2022), L-SC receiver over equally correlated TWDP channels, AEU International Journal of Electronics and Communications, Volume 149, 154173, ISSN 1434-8411.
- 11. Deka N., Subadar R. (2022), Simultaneous Wireless Information and Power Transfer Over KG Fading Channels, International Journal of Integrated Engineering 14 (6) 303 312 ISSN: 2229-838X e-ISSN: 2600-7916.

Edited Books/Volumes

1. Binong, J., Das, N., OndrejKrejcar, O., Mandal, S., Mudoi, R., Subadar, R.andBasu. S. (2022),

International Conference on Data, Electronics and Computing (ICDEC-2022) – A Collection of Abstracts, 1st Edition, ISBN:978-93-5701-674-2

> Book Chapters

- 1. Deka, N., Subadar, R. (2023). Simultaneous Wireless Information and Power Transfer for Selection Combining Receiver OverNakagami-M Fading Channels. Proceedings of International Conference on Frontiers in Computing and Systems. Lecture Notes in Networks and Systems, vol 404. Springer, Singapore. https://doi.org/10.1007/978-981-19-0105-8 39 Print ISBN 978-981-19-0104-1
- Bora, N., Sureka, A., Deka, C., Mipun, S. (2022). Performance Analysis of 3-D Parallel Gated Junctionless Field Effect Nanowire Transistor. In: Tripathi, A., Soni, A., Shrivastava, A., Swarnkar, A., Sahariya, J. (eds) *Intelligent Computing Techniques for Smart Energy Systems. Lecture Notes in Electrical Engineering*, vol 862. Springer, Singapore. https://doi.org/10.1007/978-981-19-0252-9_26. Print ISBN978-981-19-0251-2, Online ISBN978-981-19-0252-9.
- 3. Jyndiang, K., **Bora, N.** (2023). A Charge-Based Capacitance Model for Tri-Gate FinFET. *Flexible Electronics for Electric Vehicles. Lecture Notes in Electrical Engineering*, vol 863. Springer, Singapore. https://doi.org/10.1007/978-981-19-0588-9_16. Print ISBN 978-981-19-0587-2, Online ISBN 978-981-19-0588-9.
- Deka, N., Duari, C., Bora, N. (2023). A TCAD Simulation-Based Study of the Radiation Effects on Ultra-Thin Symmetric Double Gate (SDG) Junctionless Field Effect Nanowire Transistor (JLFENT). In: Dwivedi, S., Singh, S., Tiwari, M., Shrivastava, A. (eds) Flexible Electronics for Electric Vehicles. Lecture Notes in Electrical Engineering, vol 863. Springer, Singapore. https://doi.org/10.1007/978-981-19-0588-9_35. Print ISBN 978-981-19-0587-2, Online ISBN 978-981-19-0588-9.
- 5. 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. Lecture Notes in Networks and Systems*. Springer, Singapore, ISBN-978-981-16-4243-2 vol 281, pp 241-249.
- 6. Das S., Sarkar P. (2022). A High-Selective Dual-Band Reconfigurable Filtering Antenna for WiMax and WLAN Application. Proceedings of International Conference on Frontiers in Computing and Systems: COMSYS 2021.

- Springer Nature Singapore: 409-418: ISBN: 978-981-19-0104-1.
- 7. Bandyopadhyay A., Sarkar P., Ghatak R. (2022). A Switchable Bandpass Filter for Multiple Passband and Stopband Applications. Proceedings of International Conference on Frontiers in Computing and Systems: COMSYS 2021. Springer Nature Singapore: 353-358: ISBN: 978-981-19-0104-1
- 8. Mudoi, R. (2022), ASER of Rectangular QAM for L-Branch EGC Receiver with Phase Estimation Error Over Nakagami-m FadingChannels, Techno World, ISBN: 978-93-93166-15-9, pp 73-94.
- 9. Mudoi, R.;Saikia, H.(2023). Outage Probability of MultihopCommunicationSystem with MRC at Relays and Destination Over Correlated Nakagami-mFading Channels. Lecture Notes in Networks and Systems, Springer Nature, Volume 404, Pages 383 390. 2023, ISBM: 978-981190104-1.
- Saikia, H.; Mudoi, R. (2023) Outage Probability Analysis of Dual-HopTransmission Links with Decode-and-Forward Relaying over Fisher– SnedecorF Fading Channels. Lecture Notes in Networks and Systems, Springer Nature, Volume 404, Pages 391 – 397, 2023. ISBN: 978-981190104-1
- 11. Mandal, S., Binong, J. (2023). Synthesis and Characterization of UniformSize Nanoparticles for Colorimetric Detection of Pregnancy Urine.Proceedings from of International Conference on Frontiers in Computing and Systems. Lecture Notes in Networks and Systems, vol 404.

Funds received during current year

- Springer, Singapore. ISBN:978-981-19-0104_1. https://doi.org/10.1007/978-981-19-0105-8 41.
- 12. 12.Rynjah, F., Syiem, B., Singh, L.J. (2022). Speech Recognition System of Spoken Isolated Digit in Standard Khasi Dialect. Proceedings of International Conference on Frontiers in Computing and Systems. LectureNotes in Networks and Systems, vol 404. Springer, Singapore.https://doi.org/10.1007/978-981-19-0105-8_53 (Print ISBN: 978-981-19-0104-1 Online ISBN: 978-981-19-0105-8).

> Proceedings of Seminar/Conferences

- 1. Sarma, T., & Samp; Mudoi, R. (2022), Biomedical Parameter Monitoring SystemUsingIoT: A Review. 2022 4th International Conference on Energy, Powerand Environment (ICEPE), NIT, Meghalaya, April 29-May1, 2022. DOI:10.1109/ICEPE55035.2022.9798313
- 2. Arya, Subhash C. (2023). Science and Technology: A pivot of humancivilization and existence, pp. 5, Abstract book, Bodoland International KnowledgeFestival 2023, Bodoland University, Kokrajhar, Assam.
- 3. Rynjah, F., Syiem, B., Singh, L.J. (2022). Effect of Noise in Khasi speechrecognition system. In International conference on data, Electronics and Computing (ICDEC-2022), NEHU, Shillong -22. September 7-9, 2022.
- 4. Thakur A.K., R Mudoi, R Subadar, Outage Analysis of MIMOSystem with TAS under Beaulieu-Xie Fading Channels 2023 4th International Conference on Computing and System, 2023

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

Sr. No.	Funding Agency	Amount (Rs. In Lakhs),
01	NEHU	1.0

Seminars/Conferences/Workshops/Symposia/E xtension Programmes

Dr.Jaydeep Swarnakar

1. Presented a research paper titled, "A systematic approach for magnitude approximation of fractional control loop" in the International Conference on Communication, Devices and Networking (ICCDN-2022), 16-17December, 2022 organized by Department of Electronics

and Communication Engineering, Sikim Manipal Institute of Technology, Sikim, India.

Honours/Awards/Recognition/Membership/ Fellowship

Prof. L. J. Singh

1. Elevated to the grade of IEEE Senior Member on June 26, 2022

Other Activities

Prof. L. J. Singh

- 1. Reviewer of Facta Universities, Series: Electronics and Energitics, Serbia,
- 2. Performed as a reviewer of 13CS 2023 held in NEHU, Shillong, during 16-18 March, 2023.

Prof. Rupaban Subadar

- 1. Performed as a reviewer of 13CS 2023 held during 16-18 March, 2023.
- 2. Nominated as a member of Board of Studies, Electronics and Communication Engineering, Tripura University, Agartala, member of Board of Studies, Electronics and Communication Engineering, NERIST, Itanagar.

Prof. Subhash C. Arya

- 1. Worked as a resource person on Electronics Demonstration in the 3 Days Science Awareness Programme during 27-29 th June 2022 organized by the Shillong Science Centre, NEHU Shillong.
- 2. Attended Hands on Training and Workshop with Keysight in digital, RF and other technologies held on 3rd August, 2022 at Department of ECE, NEHU, Shillong.
- 3. Delivered an Expert talk and demonstration session on "Silicon Photonic and Photonic Integrated Circuits" in Vritika Internship programme sponsored by SERB, DST during 1st to 31st August organized by Department of Biomedical Engineering, NEHU Shillong.
- 4. Delivered an invited talk on "Science and Technology: A pivot of human civilization and existence" in Bodoland International Knowledge Festival during 27 th February-2nd March 2023 at Bodoland University, Kokrajhar Assam.
- 5. Performed as a Session Chair for the technical session in the International Conference on Data Electronics and Computing (ICDEC) during Sep. 7-9,2022 at NEHU, Shillong
- 6. Performed as a Session Chair for the track Computer Communication and Networking during 4th International conference on Computing and Communication System held during 16-18 March, 2023 at NEHU, Shillong.

Dr. Juwesh Binong

- 1. Performed as a reviewer of 13CS 2023 held during 16-18 March, 2023.
- 2. Nominated as a member of Board of Studies, Electronics and Communication Engineering, Dibrugargh University, Dibrugargh, Assam.

Dr. Sushanta Kabir Dutta

- 1. Reviewer of the Journal Telkomnika,
- 2. Performed as a reviewer of Interspeech 2022 held during 18-22 September, Songdo Convensi A, in Incheon, Korea.
- 3. Performed as a reviewer of I3CS 2023 held during 16-18 March,2023.
- 4. Attended Hands on Training and Workshop with Keysight in digital, RF and other technologies held on 3rd August, 2022 at Department of ECE, NEHU, Shillong.
- 5. Delivered an Expert talk and demonstration session in Vritika Internship programme sponsored by SERB, DST during 1st to 31st August organized by Department of Biomedical Engineering, NEHU Shillong.
- 6. Performed as a Session Chair for the track Computer Communication and Networking during 4th International conference on Computing and Communication System held during 16-18 March,2023

Dr. Pankaj Sarkar

1. Reviewer of (i) IEEE Transactions on Microwave Theory and Techniques; (ii) Microwave and Optical Technology Letters

Dr. N. Bora

- 1. Reviewer of the Journal (i) Silicon, Springer Nature (ii) the Journal of Nanoelectronics and Optoelectronics, American Scientific Publisher, USA.
- 2. Reviewer, 4th IEEE Sponsored International Conference on Computing and Communication Systems (I3CS-2023)
- 3. Reviewer,2nd International Conference on Startup ventures: Technology Developments and Future Strategies 2022, SV-TDFS 2022, Scopus Indexed.
- 4. Dr. Nipanka Bora participated in the Online FDP on Embedded System Design using FPGAs, held from 04/04/2022 to 08/04/2022 organized by NIT, Meghalaya.

Dr. R. K. Mudoi

- 1. Reviewer for (i) Journal of Engineering Research and Reports. (ii) International Journal of Electrical and Computer Engineering System
- 2. Completed 12 weeks online NPTEL course on Microprocessor and Microcontroller from SWAYAM platform

3. Dr. Rajkishur Mudoi Delivered an Expert talk and demonstration session in Vritika Internship programme sponsored by SERB, DST during 1-3 August organized by Department of Biomedical Engineering, NEHU Shillong.

Mr. A. Ahmed

1. Reviewers of for journals of National/ International repute (i) Journal of the Institution of Engineers (India): Series B (Springer)

Dr. J. Swarnakar

- 1. Reviewer of Journal of The Institution of Engineers (India): Series B (Springer)
- 2. Participated in the Online Interdisciplinary Refresher Course on Global Warming and Sustainable Development held from 1st November-14thNovember, 2022 organized by UGC-HRDC, University of Allahabad

SUMMARY SHEET FOR THE ACADEMIC YEAR $1^{\rm ST}$ APRIL 2022 TO $31^{\rm ST}$ MARCH 2023

Details of Faculties	Name		1	Prof. Subhash C. Arya	Prof. Lairenlakpam Joyprakash Singh	Prof. Rupaban Subadar	Dr. Sushanta Kabir Dutta	Dr. Nipanka Bora
	Date of Joining		2	02/03/2010	20/07/2006	21/06/2013	02/02/2007	14/06/2013
	Field of specialisation		3	Optical Communicatio n and Silicon	Signal Processing and its Application	Wireless Communic ation	Speech Signal Processing	Nano Scale Device modelling,
				photonics				VLSI Design
(A)	UG		4	16 yrs	22 yrs	23 yrs	22 yrs	9 yrs
Teaching Experience (in Years)	PG, including PhD		5	11 yrs	10 yrs	20 yrs	8yrs	12 yrs, 1yr six months
	Basic Research		6	Yes	Yes	Yes	Yes	Yes
	Applied Research		7	Yes	Yes	No	No	YES
	Action Research		8	No	No	No	No	No
	Project Submitted		9	0	2	0	1	0
	Ongoing Project		10	0	0	0	0	0
(B)	Research Paper	Group I	11	0	0	1	0	0
Research activities	in UGC care list journals	Group II	12	0	2	1	2	1
	Books /Books	Books	13	0	0	0	0	0
	chapters Published	Book Chapters	14	0	1	1	1	3
	Popular Articles (News Paper/ Magazines)		15	0	0	0	0	0
	Seminar /	National	16	0	0	0	0	0
	Conference/ Symposia organized	International	17	0	1	0	0	0
	Seminar /	National	18	0	0	0	0	0
	Conference/ Symposia attend ed	International	19	3	0	0	3	0
	Conference Proceedings		20	1	1	1	0	0
	Consultancy		21	0	0	0	0	0
(C)	Applied		22	0	0	0	0	0
Patent	Published		23	0	0	0	0	0
	Granted		24	0	0	0	0	0
(D) E-Content	MOOC/SWAYA M/ E-content developed		25	0	0	0	0	0
	Teaching /Extension /outreach		26	Yes	Yes	Yes	Yes	Yes
(E)	activities							
Any Other	Responsibilities other than teaching		27	Yes	Yes	Yes	Yes	Yes
	Awards/ Honours/		28	0	0	3	0	0
	Recognition/							
	Membership/							
		National	29	0	0	0	0	0

Details of Faculties	Name		1	Dr. Rajkishu r Mudoi	Dr. Jaydeep Swarnakar	Dr. Juwesh Binong	Mr. Asif Ahmed	Ms. Fidalizia Pyrtuh	Dr. Pankaj Sarkar
	Date of Joining		2	24/07/06	15/02/2010	07/07/2006	05/07/12	27/01/2010	11/07/2012
	Field of specialisation		3	Wireless Communi cation	Control Systems, Fractional- Order System	AI/ML	VLSI	Signal Processing/ Speech Processing	Microwave Engineering, Antenna
(A) Teaching	UG		4	17 yrs	17 yrs 10 months	16 yrs	16 yrs six months	5 yrs	12 yrs
Experience (in Years)	PG, including PhD		5	8 yrs	7 yrs, 2 yrs six months	5 yrs	7 yrs	NO	2 yrs, 4 yrs
	Basic Research		6	Yes	Yes	Yes	Yes	Yes	Yes
	Applied Research		7	Yes	Yes	NO	Yes	NO	Yes
	Action Research		8	No	NO	NO	NO	NO	No
	Project Submitted		9	No	NO	NO	No	NO	1
(B)	Ongoing Project		10	No	NO	NO	No	NO	No
Research	Research Pape	Group I	11	No	NO	NO	NO	NO	No
activities	r in UGC care list journals	Group II	12	01	1	NO	No	NO	3
	Books /Books	Books	13	01	NO	NO	No	NO	No
	chapters Published	Book Chapters	14	03	NO	1	No	NO	2
	Popular Articles (News Paper/ Magazines)	•	15	0	NO	NO	No	NO	No
	Seminar /	National	16	0	NO	NO	No	NO	No
	Conference/ Symposia organized	International	17	0	Yes	1	Yes	NO	Yes
	Seminar /	National	18	0	NO	NO	No	NO	No
	Conference/ Symposia atte	International	19	0	1	NO	No	NO	No
	Conference Proceedings		20	02	NO	NO	No	NO	No
	Consultancy		21	0	NO	NO	No	NO	No
(C)	Applied		22	0	NO	NO	No	NO	No
Patent	Published		23	0	NO	NO	No	NO	No
(D)	Granted	-	24	0	NO	NO	No	NO	No
(D) E-Content	MOOC/SWAY AM/ E-content developed		25	0	NO	NO	No	NO	No
(E)	Teaching /Extension /outreach activities		26	Yes	Yes	Yes	Yes	Yes	Yes
Any Other	Responsibilitie s other than teaching		27	Yes	Yes	Yes	Yes	Yes	Yes
	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	0	No	NO	NO	NO	No
	Collaborations	National	29	0	NO	NO	No	NO	No
		International	30	0	NO	NO	No	NO	No

DEPARTMENT OF ENERGY ENGINEERING

Head: Dr. Samrat Paul Telephone: : +919485043421

E-mail: paulsamrat7@gmail.com

Faculty Profile

Designation	Name and Qualification	Specialization
Assistant	Dr. Samrat Paul, M.Tech & Ph.D (Tezpur	Energy Materials, Photovoltaics
Professor	University)	
	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	Energy Accounting &
	University)	Management, Renewable
		Energy Utilization, Power Plant
		Technology.

Thrust Areas of Research

Energy Materials, Photovoltaics and Bioenergy & Biofuels

Students' Profile

- > Enrolment Capacity: B.Tech.: 38, Ph.D.: Variable
- > Enrolment of students from different States of India and Abroad (B.Tech)

	Gen		ST		SC		OBC	7	EWS	S	PWD		TOT	'AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	5	2	-	2	1	-	-	-	-	-	-	-	6	4
Bihar	-	-	-	-	-	-	1	1	-	-	-	-	1	1
Himachal	-	-	-	-	-	1	-	-	-	-	-	-	-	1
Jharkhand	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Meghalaya	1		-	-	-	-	-	-	-	-	-	-	1	-
Rajasthan	-	-	-	-	-	-	1	-	-	-	ı	-	1	-
Uttar Pradesh	-	-	-	-	-	-	1	-	-	-	ı	-	1	-
Sub Total	6	3		2	1	1	3	1	-	-	-	-	10	7
Total	9		2		2	•	4		-	•	_		17	•

Degrees Awarded

▶ B.Tech.: 04

	Gen		ST		SC		OBC		EWS		PWD		TOTAL	
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	3	-	1	-	-	-	-	-	-	-	-	-	-
Total	3	3		1		-		-		Ī -		-		

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.

PhD Courses

Course work: Research Methodology, Energy Resources and Technology, Advanced Solar Photovoltaic Technology.

Publications

> Research papers (10)

- 1. Gaurav, K., Samdarshi, S.K., Kumari, N., Bhattacharyya, A.S., Paul, S, Deshpande, U. (2022). Distinct role of hexagonal tungsten in tungsten/ceria heterojunction in efficient utilization of visible flux. Solar Energy Materials and Solar cells234:111405. https://doi.org/10.10 16/j.solmat.2021.111405
- 2. Chakraborty, K., Kumari, S.V., Arigela, H., Choudhury, M. G., Das, S., Paul, S. (2022). Numerical analysis of performance of various ETL materials for cesium titanium (IV) single halide based PSCs. Journal of nano- and Electronics Physics 14(3): 03015-4. https://doi: 10.21272/jnep.14(3).03015
- 3. Das, S., Choudhury, M.G., Paul, S. (2022). The holetransport layer material optimization for an efficient lead-free double perovskite Cs2AgBiBr6based solar cell by numerical simulation. Journal of nano- and Electronics Physics14(3):03012-4. https://doi: 10.21272/jnep.14(3).03012

- 4. Gohain, P.P., Paul, S. (2022). Transition metal oxide nanoparticles for biofuel production. Journal of nano- and Electronics Physics 14(3):03005-4. https://doi: 10.21272/jnep.1 4(3).03005
- 5. Chakraborty, K., Kumari, S.V., Arigela, H., Choudhury, M. G., Das, S., Paul, S. (2022). Performance study of lead-free mixed halide Cs2TiI6 xBrx (where x = 1 to 5) based perovskitesolar cell. Journal of nano- and Electronics Physics 14(3):03001-4. https://doi: 10.21272/jnep.14(3).03001
- Chakraborty, K., Choudhury, M. G., Paul, S. (2022).Recent advances in lead-free based perovskite solar cells on optoelectronic properties, stability and economic feasibility.Journal of Instrumentation17

 (9):P09034 .https://doi.org/10.1088/1748-0221/17/09/P09034.
- 7. Chakraborty, K.,Saha, R., Choudhury, M. G., Paul, S. (2022). Numerical study of opto-electrical properties of a mixed halide methylammonium lead halide (MAPbBr3-nIn; n=0, 1, 2 and 3) based perovskitesolar cell. Journal of Sustainability for Energy 1(1):27-33. https://doi.org/10.56578/jse010104
- 8. Kumari, P., Saha, R.,Saikia, G., Bhujel, A., Choudhury, M. G.,Jagdale, P., Paul, S. (2023). Synthesis of mixed-phase TiO2–ZrO2nanocomposite for photocatalyt icwastewater treatment. Toxics 11 (3): 234. https://doi.org/10.3390/toxics11030234
- 9. Chakraborty, K., Medikondu, N. R., Duraisamy, K., Soliman, N. F., El-Shafai, W., Lavadiya, S., Das, S., Paul, S. (2023). Studies of performance of Cs2TiI6–XBrX (Where x = 0 to 6) based mixed halide perovskite solar cell with CdS electron transport layer. Micromachines 14 (2): 447. https://doi.org/10.3390/mi14020447
- 10. Das, Sanat et al., "The hole transport layer material optimization for an efficient lead-free double perovskite Cs2AgBiBr6 based solar cell by numerical simulation", Journal of Nano- and Electronic Physics; Sumy Ukraine, Vol. 14, Iss. 3, 2022.DOI:10.21272/jnep.14(3).03012

Book Chapters

1. Chakraborty, K., **Paul, S.** (2022). Effect of Intra-Band Tunneling on the Performance of Lead-Free Sn-Based Perovskite Solar Cell Using SCAPS-1D Simulator, In *Handbook of Research on Evolving* Designs and Innovation in ICT and Intelligent Systems for Real-World Applications. K. K.Sarma, N.Saikia, M. Sharma (Eds.). IGI Global Publisher, Hershey, Pennsylvania, USA, eISBN13: 9781799897972, Chapter 6, pp. 68-74.

- > Proceedings of Seminar/Conferences.
- 1. Chakraborty, K., Mukherjee, S., Mukherjee, U., Das, S., **Paul S.** (2022).Development of a Programmable Logic Controller-Based Advance Control Strategy for the Multiple Boiler System. In
- Proceedings of the 3rd International Conference on Communication, Devices and Computing: ICCDC 2022. Springer Singapore. pp 445-451.
- 2. Samar Jyoti Hazarika and Prof. Sadhan Mahapatra (2022). Thermal comfort and relevant standard & code for Indian residential building to meet Sustainable development goals. In abstract book 1 St International Conference on Environment and Sustainable Development (ICESD, 2022), Biotech KISAN Hub, NEHU, Tura Campus, Meghalaya. pp 23

Consultancy

Title of Consultancy Project (Total outlay in Lakhs)	Current Status (New /on-going/ completed)	Name of the Consul tant	Multi/Sing le Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Consultancy and Energy Audit at Shillong College, Shillong, Meghalaya	Completed	Samar Jyoti Hazari ka	Single	Shillong College, Meghalaya	0.708
Consultancy and one day in house programme on "industrial safety, control of accident and role & responsibility"	Completed	Samar Jyoti Hazari ka	Single	NEEPCo, Ministry of Power, GoI	0.295

Funds received during current year

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

Sr. No.	Funding Agency	Amount (Rs. In Lakhs),
01	NEHU	1.0

Academic Collaborations

Dr Samrat Paul

National

- 1. Prof. S.K. Samdarshi, Centre of Energy Engineering, Central University of Jharkhand, Ranchi, AREA OF COLLABORATION Characterization of Photoactive Nanoparticles for Photocatalyc Activity"
- 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.

4. Dr. R. G. Nair, Department of Physics, NIT Silchar, Assam, AREA OF COLLABORATION Characterization of Perovskite Materials for Solar Cell Application.

International

- 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/Fel lowship

Dr Samrat Paul

- 1. Life member of IET.
- 2. Life member, ISCA, Kolkata India
- 3. Member IEEE, USA
- 4. Member SESI, New Delhi, India
- 5. Life member IFERP, New Delhi, India

Other Activities/achievements

Dr. Samrat Paul

- 1. Delivered an Invited talk on "Electrical Motors: Types, assembly techniques and application" in One day Awareness Program for ITI Students 'Best Practices in Motors: Operation & Rewinding' under BEE's AgDSM program on 27th March, 2023 at Government ITI, Rynjah, Shillong. Organised by BEE India and MSDA Govt. of Meghalaya.
- 2. Delivered an Invited talk on "Application of Advanced Materials in Energy Devices and

Systems "in a Training Program under DST-STUTI on "Application of Sophisticated Instruments in Chemistry, Biology and Material Sciences" (28/06/2022 – 04/07/2022) on July 01, 2022 at Chemistry Department, North-Eastern Hill University, Shillong.

Mr. Manmit Saikia

1. Invited as 'Resource Person' in the 'One Day Interaction Programme' for the students of BSc of Doomdooma College on 8th February, 2023, organized by the Department of Physics, Doomdooma College, Rupaisiding, Dist: Tinsukia (Assam) 786153.

Mr. Samar Jyoti Hazarika

1. Delivered three talks on "EE Business model and Grading of EE projects", "Financial Appraisal of EE Projects" and "EE case studies and Group Activities" in a two (2) days' Training Program for Financial Institution on Energy Efficiency Financing during 16th -17th March, 2023 held at NPTI (NER), Guwahati.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

Details of	Name		1	Dr Samrat	Mr. Manmit	Mr. Sanat	Mr. Samar
Faculties				Paul	Saikia	Das	Jyoti
							Hazarika
	Date of Joining		2	18/06/2012	22/06/2012	02/07/2012	25.04.2013
	Field of		3	Energy	Energy	Energy	Energy
	specialisation			Materials and	Engineering	Materials,	
	_			Photovoltaics		Propulsion	
(A)	UG		4	11	10	15 Years	10 years
Teaching	PG, including PhD		5	4	0	No	00
Experience							
(in Years)							
	Basic Research		6	Yes	Yes	Yes	Yes
	Applied Research		7	Yes	No	Yes	No
	Action Research		8	Yes	No	No	No
	Project Submitted		9	02	0	0	0
	Ongoing Project		10	0	0	0	0
	Research Paper in	Group I	11	0	0	0	0
	UGC care list	Group II	12	09	0	01	0
	journals		<u> </u>				
(B)	Books /Books	Books	13	Nil	0	0	0
Research	chapters Published	Book	14	01	0	0	0
activities	D 1 1 1 1	Chapters	1				
activities	Popular Articles		15	0	0	0	0
	(News Paper/						
	Magazines)	NT .: 1	1.6				
	Seminar /	National	16	0	0	0	0
	Conference/	International	17	01	0	0	0
	Symposia organized Seminar /	National	1.0	NI:1	0	NIa	00
	Seminar / Conference/	National International	18 19	Nil Nil	0	No 01	00
	Symposia attended	International	19	INII	U	01	01
	Conference		20	NIL	0	No	01
	Proceedings		20	NIL	U	NO	01
	Consultancy		21	Nil	0	No	02
	Applied		22	1	0	No	00
(C)	Published		23	nil	0	No	00
Patent	Granted		24	nil	0	No	00
	Granica		24	1111		140	
(D)	MOOC/SWAYAM/		25	nil	0	No	00
E-Content	E-content developed						
	Teaching /Extension		26	nil	0	No	01
	/outreach activities						
	Responsibilities		27	Yes	Yes	Yes	Yes
	other than teaching		<u> </u>				
(E)	Awards/ Honours/		28	No	No	No	No
Any Other	Recognition/						
	Membership/						
	Fellowship		$oxed{oxed}$				
	Collaborations	National	29	04	0	0	0
		International	30	02	0	0	0

DEPARTMENT OF INFORMATION TECHNOLOGY

Head: Prof. Debdatta Kandar

Telephone: +91-364-272 3629

E-mail: hodit@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
	Dr. Goutam Saha, M.Tech. (University of Calcutta) ,Ph.D. (IIT Kharagpur),	Bioinformatics, Internet of Things.
Professor	Dr. Iftekhar Hussain, M.Tech & Ph.D. (Tezpur University),	Wireless Networks, Internet of Things (IoT), Network Intelligence.
110103301	Dr. Debdatta Kandar, M.Tech.(AAIDU) Ph.D. (Jadavpur University),	Wireless Mobile Communication, RADAR Imaging, Artificial Intelligence.
	Dr. Bubu Bhuyan, M.Tech. (Tezpur University) Ph.D. (Jadavpur University).	Cryptography, Information Security.
Associate Professor	Dr. Arnab Kumar Maji, M.Tech.(IIEST, Shibpur), Ph.D. (Assam University),	Image Processing, Computational Intelligence, Machine Learning
	Dr. Sufal Das, M.Tech. (Tezpur Univ.), Ph.D. (NEHU).	Data Mining, Big Data analysis, Data Science.
Assistant	Dr. Amitabha Nath, M.Tech.(Tezpur Univ.), Ph.D. (NEHU).	Machine Learning, Remote sensing and GIS Technology
Professor	Dr. Khwairakpam Amitab, M.E. (Punjab Engg. College), Ph.D. (NEHU).	Image Processing, Computational Intelligence, Machine Learning
	Mrs. Sangita Neog, M.Tech.(Tezpur University),	Artificial Intelligence, Cryptography

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, Computational Intelligence, Wireless Mobile Communication, Soft Computing, RADAR..

Brief Statement of Academic Activities and Achievements

The Department offers programmes of B.Tech., M.Tech. and Ph.D. in the discipline of IT. During the current year, 47 students completed their B.Tech. degree, 12 students got their M.Tech. degree and 3 students were awarded with the Ph.D. degree. The pass percentage of students in

B.Tech.(IT) programme and M.Tech.(IT) programme were 85.45% and 90%, respectively.

The Department of Information Technology has received 01 patent (granted), published 29 international journals, 06 book chapters, 01 edited book and 09 articles in proceedings/seminar etc. in this year. Three scholars were awarded Ph.D. degree, eight students got job through campus placement and four students were selected for higher education. The Department is also currently running a DST sponsored project titled "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" under Co-PI Dr. Amitabha Nath in association with Mizoram University, Assam University and Tripura University. The total fund sectioned for the project is INR 28.31960 Lakhs.

Under the organizing chairmanship of Prof. Md. Iftekhar Hussain, the Department had organized the Fourth IEEE sponsored International Conference titled "International Conference on Computing and Communication Systems (I3CS-2023)" during 16th March to 18th March, 2023.

The Department has also successfully conducted various computer-based exams under the supervision of NTA (National Test Agency).

Students' Profile

- > Enrolment Capacity: B.Tech.: 42, M. Tech.: 18, Ph.D.: Variable
- > Enrolment of students from different States of India and Abroad (B.Tech.)

	Gen		ST		SC		OBO	7	EW	S	PWD)	TOTA	\ L
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	2	2	5	-	-	-	-	-	3	-	-	-	10	2
Bihar	2	-	-	-	-	-	1	-	2	-	-	-	5	-
Chhattisgarh	-	-	-	-	1	-	-	-	-	-	-	-	1	-
Karnataka	-	-	-	-	-	-	1	-	-	-	-	-	1	-
Manipur	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Meghalaya	2	-	1	-	1		1	-	-	-	-	1	4	1
Nagaland	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Rajasthan	-	-	-	-	-	-	1	-	-	-	-	-	1	-
Uttar Pradesh	-	-	-	-	-	-	-	1	-	-	-	-	-	1
Subtotal	-	-	-	-	-	-	-	-	-	-	-	-	24	4
Total	8		8		2		4	•	5	•	1		28	

> Enrolment of students from different States of India and Abroad (M.Tech.)

	Gen	Gen		ST			OBC	7	EWS		PWD		TOTAL	
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	1	-	-	-	-	-	-	-	-	-	-	0	1
Meghalaya	1	-	5	-	-	-	-	-	-	-	-	-	6	0
Sub Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-
International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	2		5		-		-		-		-		7	

> Enrolment of students from different States of India and Abroad (Ph.D.)

	Gen	Gen		ST		SC		OBC		EWS		PWD		ΓAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	1	-	-	-	-	-	2	-	-	-	-	-	3
Meghalaya	-	-	2	3	-	-	1	-	-	-	-	-	3	3
Sub Total	-	1	2	3	-	-	1	2	-	-	-	-	3	6
Total	1		5		-		3		-		-		9	

Degrees Awarded

> B.Tech.: 47, M. Tech: 12, Ph.D.: 03

Degrees Awarded to students from different States of India and Abroad (B.Tech.)

	Gen		ST		SC		OBC	7	EWS	S	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	7	4	3	5	4	1	1	3	-	-	-	-	15	13
Bihar	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Delhi	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Jharkhand	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Meghalaya	1	-	11	1	-	-	-	-	-	-	-	-	12	1
Uttar Pradesh	1	-	-	-	-	-	-	-	-	-	-	-	1	-
West Bengal	-	-	-	-	1	1	-	-	-	-	-	-	1	1

Total	16	20	7	4	-	-	47

Degrees Awarded to students from different States of India and Abroad (M.Tech.)

	Ger	l	ST		SC		OBC	7)	EW	S	PWI)	TO	TAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	2	-	-	-	-	1	-	-	-	-	-	1	2
Bihar	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Meghalaya	-	-	3	3	-	-	-	-	-	-	-	-	3	3
Odisha	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Uttar Pradesh	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Total	5	-	6	•	-	•	1		-	•	-	•	12	•

Degrees Awarded to students from different States of India and Abroad (Ph.D.)

	Gen		ST		SC		OBC	,	EWS	5	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Arunachal Pradesh	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Assam	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Meghalaya	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Total	1		2		-		-		-		-		3	

Name of	Title of Thesis	Name(s) of Supervisor(s)/
Student		Joint Supervisor
Mr. Hafizur	Provisioning Semantic	Dr. Md. Iftekhar Hussain (Supervisor)
Rahman	Interoperability for Large-scale	
	Internet of Things.	
Ms. Sunita	Identification of Part of Speech	Dr. Arnab Kumar Maji (Supervisor)
Warjri	(POS) Tags for Khasi Language	Dr. Partha Pakray (Joint Supervisor)
		Dr. Saralin Lyngdoh (Joint Supervisor)
Ms. Leki	Designing Lightweight Authentic	Dr. Md. Iftekhar Hussain (Supervisor)
Chom	scheme for 6LoWPAN based	Dr. Subhash Chandra Sahana
Thungon	Internet of Things	(Joint Supervisor)

Placement of Students

Name of the	Organization	Place of
Student(s)		Work
Jasprit Singh	CongnizantGenC	Kolkata
Bitopan Dutta	CongnizantGenC	Kolkata
Ravi Prakash	C-DAC	Hyderabad
Srivastava		
Sharmistha Roy	C-DAC	Hyderabad
SweetyKumari Singh	C-DAC	Hyderabad
YmphaidienSurong	Dalmia Cement	Meghalaya
	Bharat Ltd.	
Seli Sinha	Capgemini India	Kolkata
PrastutiPriyodarshini	Capgemini India	Kolkata

Students Selected for Higher Studies

Name of the Student(s)	Name of the Programme	Institution/Organization	Country
Ymphaidien Sutong	M. Tech (IT)	NEHU, Shillong	India
Johnferson Marngar	M. Tech (IT)	NEHU, Shillong	India

Fennylightstar Hoojon	M. Tech (IT)	NEHU, Shillong	India
Roberto Kurbah	M. Tech (IT)	NEHU, Shillong	India

Research Fellowship

CSIR- UGC- NET	UGC Non- Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship (Inspire Fellowship)	Maulana Azad National Fellowship	Others
1	5	0	1	2	0

Field Work/Educational Tour of Students

Teacher-in-Charge: Prof. Goutam Saha.

Places/Institutions Visited: STPI Kolkata, NIC

Kolkata and NIELIT Kolkata.

Duration of Tour (Dates and number of days):

22/01/2023 to 29/01/2023 (7 days) **Purpose of Tour**: Academic Tour.

Courses Conducted

➤ B.Tech. (IT)

Semester I: Engineering Mathematics-I, EngineeringChemistry,Engineering Mechanics, Engineering Physics, Basic Electrical Engineering, Engineering Physics Laboratory, Engineering Graphics

Semester II: Engineering Mathematics II, Computer Systems and Programming, Elements of Environmental Science, Basic Electronics, Professional Communication Skills, Computer Programming Laboratory, Digital English Language Laboratory

Semester III: Digital Electronics, Data Structures and Algorithms, Discrete Computer Graphics Mathematics, and Data Communication, Multimedia, Data Structure Laboratory, Computer Graphics and Multimedia Lab.

Semester IV: Statistics and Random Processes, Relational Data Base Management Systems, Formal Language and Automata Theory, Object Oriented Programming & Methodology, Computer Organization & Architecture, Data Base Management Systems Laboratory, Object Oriented Programming using C++ Laboratory

Semester V: Compiler Design, Operating System, Algorithm Analysis and Design, Computer Networks, Operating System Lab, Computer Networks Laboratory, Java Programming Laboratory.

Semester VI: Engineering Economics and Accountancy, Web Technology, Cryptography & Network

Security, Elective-I (Open), Web Technology Laboratory, Cryptography & Network Security Laboratory Software System Laboratory.

Semester VII: Software Engineering, Artificial Intelligence, Elective-II (Open), Minor Project **Semester VIII:** Elective-III, Elective-IV 4 0 - 20 20 40 60 100 4, Major Project, Grand Viva

> M.Tech. (IT)

Semester-I: Mathematical Foundation of Information Science, Advanced Data Structure and Algorithms, Discipline Specific Elective Course Elective – I (Advanced Database System, Advanced Computer Networks, Theory of Computation), Generic Elective Course (Multidisciplinary) Elective - II (Cyber Security, Data Analytics, Optimization Techniques), Advanced Data Structure Lab, System Software Lab.

Semester-II: Computer System Architecture, Computational Intelligence, Discipline Specific Elective Course Elective – III (Distributed Systems, Object Oriented Modelling Design, Data Mining), Research Methodology and Proposal Writing, Skill Enhancement Course Elective – IV (Internet of Things, Multimedia and Animation, Advanced Internet Technologies), Computation Intelligence Lab, Discipline Specific Elective Course Elective – V (Advanced Database Lab, Internet of Things Lab, Data Analytics Lab).

Semester-III: Discipline Specific Elective Course Elective – VI (Advanced Wireless Networks, Machine Learning, Image Processing and Computer Vision), Discipline Specific Elective Course Elective – VII (Game Theory, Natural Language Processing, Computational Biology), Discipline Specific Elective Course Elective – VIII (Quantum Computing, Pattern

Recognition, Advanced Cryptography), Dissertation – Part I.

Semester-IV: Dissertation – Part II, Viva-Voce.

> PhD Courses

Research Methodologies, Design and Analysis of Algorithm, Elective

Seminars/Conferences/Workshops/ Symposia/Extension Programmes

 Organized an International conference (I3CS 2023) from March 16th 2023 to March 19th 2023, Venue– School of Technology, NEHU, Shillong (Organizing Chair – Prof. Md. Iftekhar Hussain),

Publications

> Research papers (29)

- 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/10.10 16/j.rsase.2022.100695.
- 2. Das, R.K., Ahmed, N., Maji, A.K., Saha, G. (2023). Nx-IoT: Improvement of Conventional IoT Framework by Incorporating SDN Infrastructure. IEEE Internet of Things Journal 10(3): https://doi.org/10.1109/ JIOT.2022.3 215650.
- 3. Thabah, N.D.J., Mitri, A.M., Saha, G., Maji A.K. (2022). A deep connection to Khasi language through pre-trained embedding. Innovations in Systems and Software Engineering. https://doi.org/10.1007/s11334-022-00497-9.
- 4. Wahlang, I., Hassan, S.M., Maji, A. K., Saha, G., Jasinski, M., Leonowicz, Z., Jasinska, E. (2022). Classification of Valvular Regurgitation Using Echocardiography. Applied Sciences12(20): https://doi.org/10.3390/app12201046.
- 5. Das, R.K., Maji, A.K., Saha, G. (2022). SD-6LN: Improved existing Internet of Things Framework by Incorporating Software Defined Network Approach, International Journal of Grid and Utility Computing 13(4): https://doi.org/10.1504/IJGUC.2022.125144.
- 6. SyedaZeenat Marshoodulla, Saha, G. (2022). An approach towards removal of data heterogeneity in SDN-based IoTframework, Internet of Things, Elsevier,
 Volume22, :https://doi.org/10.1016/j.iot.2023.10 0763.

- 7. SyedaZeenat Marshoodulla, Saha, G. (2022), Data Heterogeneity Handling in SDN-Based IoTInfrastructure, NeuroQuantology, Volume 20 No 14 (2022), DOI: 10.4704/nq.2022.20.14. NQ880112.
- 8. Ado, M., Amitab, K., Maji, A.K.; Jasińska, E., Gono, R., Leonowicz, Z., Jasiński, M. (2022). Landslide Susceptibility Mapping Using Machine Learning: A Literature Survey. Remote Sensing. 14: https://doi.org/10.3390/rs14133029.
- 9. Hazarika, R.A., Kandar, D., Maji, A.K. (2022). An experimental analysis of different Deep Learning based Models for Alzheimer's Disease classification using Brain Magnetic Resonance Images. Journal of King Saud University Computer and Information Sciences 34(10): https://doi.org/10.1016/j.jksuci.2021.09.003.
- 10. Hazarika, R.A., Maji, A.K., Sur, S.N., Olariu, L., Kandar, D. (2022). A fuzzy membership based comparison of the grey matter (GM) in cognitively normal (CN), mild cognitive impairment (MCI), and alzheimer's disease (AD) using brain images. Journal of Intelligent & Fuzzy Systems43 (2):https://doi.org/ 10.3233/JIFS-219279.
- 11. Hazarika, R.A., Maji, A.K., Kandar, D., Jasinska, E., Krejci, P., Leonowicz, Z., Jasinski, M. (2023). An Approach for Classification of Alzheimer's Disease Using Deep Neural Network and Brain Magnetic Resonance Imaging (MRI). Electronics12: https://doi.org/10.3390/electronics12030676.
- 12. Hassan, S.M., Maji, A.K. (2022). Deep feature-based plant disease identification using machine learning classifier. Innovations in Systems and Software Engineering:https://doi.org/10.1007/s11334-022-00513-y.
- 13. Hassan, S.M., Amitab, K., Jasinski, M., Leonowicz, Z., Jasinska, E., Novak, T., Maji, A.K(2022). A Survey on Different Plant Diseases Detection Using Machine Learning Techniques. Electronics 11: https://doi.org/10.33 90 /electronics 11172641.
- 14. Jana, S., Mallik, M., Khan, A., Maji, A. K., Pal, R. K. (2023). Design and Analysis of a Modified 3D Sudoku Solver.IEEE Access11: https://doi.org/10.1109/ACCESS.2023.325642
- 15. Hazarika, R.A., Kandar, D., Maji, A. K. (2022). A
 Deep Convolutional Neural Networks Based
 Approach for Alzheimer's Disease and Mild
 Cognitive Impairment Classification Using Brain
 Images.IEEE Access 10:
 https://doi.org/10.1109/ACCESS.2022.320638
- 16. Warjri, S., Pakray, P., Lyngdoh, S., Maji, A.K. (2022). Identification of POS Tags for the Khasi

- Language based on Brill's Transformation Rule-Based Tagger, Computación y Sistemas26(02):https://doi.org/10.13053/cys-26-2-4058.
- 17. Deb,S.,Bhuyan,B.,Kar,N.,Reddy,S.(2022).Colou r image encryption using an improved version of stream cipher and chaos,International Journal of Ad Hoc and Ubiquitous Computing (IJAHUC), Vol. 41(2) 2022:118-133.
- 18. Sur, S. N., Kandar, D., Silva, Nguyen, N. D., Nandi, S., & Do, D. T.(2022). Hybrid Precoding Algorithm for Millimeter Wave Massive MIMO-NOMA Systems. Electronics (MDPI), 11(14), 2198.
- 19. Sur, S. N., Singh, A. K., Kandar, D., Silva, A., Krejci, P., Leonowicz, Z., &Nguyen, N.D.(2022).IntelligentReflectingSurfaceAssisted Localization:Opportunities and Challenges. Electronics(MDPI), 11(9), 1411.
- 20. Kandar, D., Chyne, P., Sur, S. N., & Nandi, S. (2023). A study on the channelbonding in IoTnetworks: Requirements, applications, andchallenges. International Journal of Communication Systems(Wiley).
- 21. Ahmed, N., Hussain, M. I. (2023). A QoS-aware scheduling with node grouping for IEEE 802.11ah. Wireless Networks. 29: 1799–1814.
- 22. Thungon, L. C., Sahana, S. C., Hussain, M. I. (2023). A lightweight certificate-based authentication scheme for 6LoWPAN-based internet of things. The Journal of Supercomputing 79:12523–12548.
- 23. Rahman H., Medhi K., Hussain M.I. DynO-IoT (2023). A dynamic ontology for provisioning semantic interoperability in Internet of Things. International Journal of Sensor Networks. 41(2):114-125.
- 24. Medhi K., Hoque N., Dutta S.K., Hussain, M.I. (2022) An efficient EEG signal classification technique for Brain–Computer Interface using hybrid Deep Learning. Biomedical Signal Processing and Control. 2022: 104005. DOI: https://doi.org/10.1016/j.bspc.2022.104005.
- 25. Medhi K., Ahmed N., Hussain M.I. (2022). Dewbased offline computing architecture for healthcare IoT. ICT Express. 8(3):371-378.
- 26. Hassan, S. M., Amitab, K., Jasinski, M., Leonowicz, Z., Jasinska, E., Novak, T., & Maji, A. K. (2022). A Survey on Different Plant Diseases Detection Using Machine Learning Techniques. Electronics, 11(17), 2641.
- 27. Hujon, A. V., Singh, T. D., & Amitab, K. (2023). Transfer learning based neural machine translation of english-khasi on low-resource settings. Procedia Computer Science, 218, 1-8.

- 28. Das, Sufal. "LowEST: a low resource semantic text summarization method for big data." Innovations in Systems and Software Engineering (2022): 1-8.
- 29. Chowdhury, S., Majumdar, R., Pal, R. K., & Saha, G. (2023). Automated path selection technique while incorporating multiple assay operations and cross-contamination avoidance in cross-referencing DMFBs. Integration, 88, 125-138.

> Edited Books/Volumes (01)

1. Basu, S., Kole, D.K., Maji, A.K., Plewczynski, D., Bhattacharjee, D., Editors. (2022). Proceedings of International Conference on Frontiers in Computing and Systems COMSYS 2021. Springer International Publication, Singapore, E-book ISBN: 978-981-19-0105-8.

➤ Book Chapters (06)

- 1. Nath, A., & Nath, A. J. (2022). Assessing Land Degradation Using SDG 15.3. 1 Indicators: Case Study from Climate-Vulnerable Assam State of India. Panwar P., Shukla G., Bhat J. A., Chakravarty S. (Eds.). Land Degradation Neutrality: Achieving SDG 15 by Forest Management. Singapore: Springer Nature Singapore, Chapter 7, pp. 117-129.
- 2. Reang D, Nath A, Nath AJ, Das AK. (2022). Carbon stock potential and ecosystem services provisioned by major land-use systems in Southern Assam, India: A meta-analysis. In Sustainability, Development and Conservation of Natural Resources. Chakrabarty S (Eds.). Apple Academic Press (AAP) CRC, Taylor & Francis, ISBN: 9781774915929, Chapter 3, pp. 33-39.
- 3. Hassan, M. Sk., **Maji, A. K.** (2023). Rice Disease Identification Using Deep Learning Models. InProceedings of International Conference on Frontiers in Computing and Systems. S.Basu, D.K. Kole, A.K. Maji, D.Plewczynski, D. Bhattacharjee (Eds.). Springer, Singapore. ISBN: 978-981-19-0105-8, Chapter 20, pp. 203-212.
- 4. Jana, S., Dutta, N., Maji, A.K., Pal, R.K. (2023). A Novel Time-Stamp-Based Audio Encryption Scheme Using Sudoku Puzzle. In Proceedings of International Conference on Frontiers in Computing and Systems. S. Basu, D.K. Kole, A.K. Maji, D. Plewczynski, and D. Bhattacharjee (Eds.). Springer, Singapore. ISBN: 978-981-19-0105-8, Chapter 16, pp. 159-169.
- 5. Hynniewta, R., **Maji, A. K.**, Warjri, S. (2022). Implementation and Analysis of Different POS Tagger in Khasi Language. In Handbook of Research on Evolving Designs and Innovation in ICT and Intelligent Systems for Real-World Applications. K. Sarma, N. Saikia, and M.

- Sharma (Eds.). IGI Global, USA, ISBN: 978-1-7998-9795-8, Chapter 8, pp. 118-128.
- 6. Warjri, S., Pakray, P., Lyngdoh, S.A., **Maji, A.K.** (2023). Investigating Part-of-Speech Tagging in Khasi Using Naïve Bayes and Support Vector Machine. InInternational Conference on Innovative Computing and Communications. D.Gupta, A.Khanna, A.E.Hassanien, S.Anand, and A.Jaiswal (Eds).Springer, Singapore, ISBN: 978-981-19-3679-1, Chapter 11, pp. 141-149.

Proceedings of Seminar/Conferences.

- 1. Hoojon, R., & Nath, A. (2023). BiLSTM with CRF Part-of-Speech Tagging for Khasi language. In *Proceedings of the 4th International Conference on Computing and Communication Systems (I3CS)*. IEEE. pp. 1-7.
- 2. Warjri, S., Pakray, P., Lyngdoh, S., Maji, A.K. (2023). Fake news detection using social media data for Khasi language. *In Proceedings of the International Conference on Intelligent Systems, Advanced Computing and Communication (ISACC)*. IEEE. Silchar. pp. 1-
- 3. Kumar,B.,Bhuyan,B.(2022). Using game theory to defend elastic and inelastic services sgainst DDoS attacks. Proceedings of International Conference on Frontiers in Computing and Systems. Lecture Notes in Networks and Systems. Volume 404. Springer.pp. 371-382.
- 4. Passah, A., & Kandar, D. (2023, May). Classification of Synthetic ApertureRadar Images Using a Modified DenseNet Model. *In Proceedings of InternationalConference on Computer Vision and Image Processing: CVIP*

- 2022 Singapore:Springer Nature Singapore. pp. 610-622.
- 5. Medhi, K., Hussain, M.I. (2022). Lightweight arrhythmia detection using cross-correlation. In Proceedings of the 4th International Conference on Recent Trends in Computer Science and Technology (ICRTCST), Jamshedpur, Jharkhand, India. pp. 296-301.
- 6. Kumar, R., & Amitab, K. (2022, June). Semantic Segmentation of Road Scene Using Deep Learning. In Proceedings of International Conference on Frontiers in Computing and Systems: COMSYS 2021 Singapore: Springer Nature Singapore. pp. 129-139.
- 7. Hujon, A. V., Amitab, K., & Singh, T. D. (2023, March). Convolutional Sequence to Sequence Learning for English-Khasi Neural Machine Translation. *In 2023 4th International Conference on Computing and Communication Systems (I3CS)*. IEEE. pp. 1-4.
- 8. Ado, M., & Amitab, K. (2023, March). Landslide susceptibility mapping using support vector machine for Meghalaya, India. *In 2023 4th International Conference on Computing and Communication Systems (I3CS)*. IEEE. pp. 1-6.

IPR Items:

> Patents Granted (International) Dr. A.K. Maji

1. Saralin A. Lyngdoh, Arnab Kumar Maji, Partha Pakray, Sunita Warjri, A System for Developing Part-of-Speech (POS) Tagging Using Deep Learning-Based Approaches on Khasi POS Corpus,14.10/2022(Date of Granting), Fiule Number: 202022105577

Funds received during current year

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

Sr. No.	Funding Agency	Amount (Rs. In Lakhs),
01	NEHU	1.00
02	NEHU (for I3CS 2023)	2.0
03	MIETY for Conference I3CS 2023	1.00

(B) EMR Research Projects to individual faculty members

Title of Project (Total outlay in Lakhs)	Current Status (New /on- going/ complete d)	Name of Investig ator (Pl/Co- Pl)	Multi/Single Institute (Tenure)	Fundi ng Agenc y	Fund received by NEHU in the year under report
Net ecosystem production and carbon dynamics of forest ecosystems in North	On-going	Dr. Amitabh a Nath (Co-PI)	Multi (Mizoram University, Assam University	Depart ment of Scienc	INR 9.30

North-Eastern Hill University

Annual Report (2022-2023)

East India in relation to	& Tripura	e &	
altitude and latitude	University)	Techn	
gradient: Implications for	(January 2020 –	ology -	
carbon sink management	January 2023)	DST	
(INR 28.31960 L)			

Academic Collaborations

Dr. Arnab Kumar Maji National

- 1. Prof. Rajat Kumar Pal, Department of Computer Science and Engineering, University of Calcutta, Kolkata for collaborative research.
- 2. Dr. Thoudam Doren Singh, Department of Computer Science and Engineering, NIT, Sachar for collaborative research work related to English to Khasi translation.

Other Activities Prof. Bubu Bhuyan

1. Delivered a talk on "Hash based quantum safe digital signature scheme" in five-day online FDP

programme on Cyber Security organized by Dr. B. C. Roy College of Engineering, Durgapur during August 22-26 2022.

Dr. Arnab Kumar Maji

1. Invited as a resource person to deliver an Invited Talk on "Deep learning techniques for Medical Image Analysis" for the Refresher Course on Biomedical Engineering during 1st to 15th March, 2023

Dr. Amitabha Nath

1. Delivered an invited lecture on the topic "Introduction to Samarth e-gov suite" during 12th Faculty Induction Programme held at HRDC, NEHU.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

	Name		1	Dr. Amitabha Nath	Das	Dr. K.Amitab	Dr. Arnab Kumar Maji	Dr. Bubu Bhuyan
Details of	Date of Joining		2	04/07/2012	05/02/201 0	18/06/2012	28/07/2006	01/07/2009
Faculties	Field of specialisation		3	Machine Learning, Remote Sensing and GIS	Data Mining	Application of Machine Learning, Image Processing	Computer Vision, NLP	Information Technology
(A)	UG		4	10	13	11	19	22
Teaching Experienc e (in Years)	PG, including PhD		5	8	10	9		22
	Basic Research		6	Yes	Yes	Yes	Yes	Yes
	Applied Research		7	Yes	Yes	Yes	Yes	Yes
	Action Research		8	No	No	No	No	No
	Project Submitted		9	0	0	0	01	0
	Ongoing Project		10	01	0	0	-	0
		Group I	11	01	-	0	-	1
	UGC care list journals	Group II	12	0	_	3	13	-
	Books /Books	Books	13	0	-	0	01	-
	chanters Published	Book Chapters	14	02	-	0	04	-
]	Popular Articles (News Paper/ Magazines)	•	15	0	-	0	-	-
(B)	Seminar /	National	16	0	-	0	-	-
Research activities	Conference/ Symposia organized	International	17	0	1	0	-	-
	Seminar /	National	18	0	-	0	-	-
	Conference/ Symposia attended	International	19	01	1	0	_	-
	Conference Proceedings		20	01	2	3	01	1
	Consultancy		21	0		0	-	-
(C)	Applied		22	0	-	0	-	0
Patent	Published		23	0	-	0	-	0
	Granted		24	0	_	0	01	0
(D)	MOOC/SWAYAM/			NT.	NT.	NO		
	E-content developed		25	No	No	NO	No	No
	Teaching /Extension /outreach activities		26	Yes	Yes	Yes	Yes	Yes
	Responsibilities other than teaching		27	Yes	Yes	Yes	Yes	Yes
(E) Any Other	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	Yes	No	No	No	No
	Collaborations	National	29	0	_	1	01	No
	Collaborations	International	30	0	-	1	01	No

Annual Report (2022-2023)

	Name		1	Dr. Debdatta Kandar	Dr. Md. Iftekhar Hussain		Dr. Goutam Saha
	Date of Joining		2	07/06/2013	28/03/2007	04/01/2007	01/07/2013
Details of Faculties	Field of specialisation		3	Artificial Intelligence, Radar Image processing, Wireless Communication	Wireless Networks, Internet of Things	Artificial Intelligence, Cryptography	BioInformatics, IoT
(A)	UG		4	18	22	23	33
Teaching Experience (in Years)	PG, including PhD		5	16	18	20	22
,	Basic Research		6	Yes	Yes	Yes	Yes
	Applied Research		7	5	Y	1	Yes
	Action Research		8	0	N	0	00
	Project Submitted		9	0	1	0	00
	Ongoing Project		10	0	0	0	00
	Research Paper in UGC care	Group I	11	0	0	0	00
	list journals	Group II	12	5	5	0	07
	Books /Books chapters	Books	13	0	0	0	00
	Published	Book Chapters	14	0	0	0	00
(B)	Popular Articles (News Paper/ Magazines)		15	0	0	0	00
Research	Seminar / Conference/	National	16	0	0	0	00
activities	Symposia organized	International		0	1	0	00
deti vities	Seminar / Conference/	National	18	0	0	0	00
	Symposia attended	International	19	0	0	0	00
	Conference Proceedings		20	2	1	1	00
	Consultancy		21	0	0	0	00
	Applied		22	0	0	0	00
(C)	Published		23	0	0	0	0
Patent	Granted		24	0	0	0	00
(D) E-Content	MOOC/SWAYAM/ E-content developed		25	0	0	0	00
	Teaching /Extension /outreach activities		26	0	0	0	Yes
	Responsibilities other than teaching		27	Yes	Yes	Yes	Yes
(E)	Awards/ Honours/ Recognition/ Membership/ Fellowship		28	No	Yes	No	No
Any Other	•	National	29	0	0	0	01
	Collaborations	International	30	0	0	0	00

DEPARTMENT OF NANOTECHNOLOGY

Head: Dr L Robindro Singh **Telephone:** +91-364-272 3901

E-mail: hodnano@nehu.ac.in

Faculty Profile

Designation	Name and Qualification	Specialization
Associate Professor	Dr. L. Robindro Singh, Ph.D., MU	Nanomaterials, Nanophosphors, Sensors, CNT
Assistant	Dr. Davidson Pyngrope,	Nanotechnology (Nanomaterials,
Professor	Ph.D.	Nanoelectronics and Nanocomposites)

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

Students' Profile

> Enrolment Capacity: M.Tech.: 20

Ph.D.: Variable

Enrolment of students from different States of India and Abroad (M. Tech.)

	Gen		ST		SC		OBC	,	EWS	5	PWD		TOT	AL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Maharashtra	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Uttar Pradesh	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Sub Total	3	-	-	-	-	-	-	-	-	-	-	-	3	-
Total	3	•	-		-	•	-	•	-		-	•	3	

Degrees Awarded

> M. Tech:09

> Degrees Awarded to students from different States of India and Abroad (M. Tech.)

	Gen	l	ST		SC		OBO		EWS	S	PWI)	TO	ΓAL
STATES	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Assam	-	2	1	-	-	-	-	-	-	-	-	-	1	2
Manipur	1	1	-	-	-	-	-	-	-	-	-	-	1	1
Meghalaya	1	1	1	-	-	-	-	-	-	-	-	-	2	1
Tripura	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Sub Total	2	4	2	1	-	-	-	-	-	-	-	-	4	5
Total	6		3		-		-		-		-		9	

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. During this year a National Conference on Smart Material and Nanotechnology was conducted during 29th to 30th November, 2022.

Students Selected for Higher Studies

Name of the	Name of the	Institution/Organization	Country
Student(s)	Programme		
Mr. Yobraj m Mao	PhD	BITS, Hyderbad	India
Ms. Pooja Kumari	PhD	University of Johannesberg	South Africa
Mr. Chandan Saha	PhD	University of Johannesberg	South Africa
Mr. Jeffry	PhD	National Tsing Hua University	Tiwan
Nongkynrih		(NTHU)	

Research Fellowship

CSIR-UGC-NET	UGC Non-Net	Rajiv Gandhi National Fellowship (SC/ST)	Meritorious Fellowship	Maulana Azad National Fellowship
0	1	1	0	0

Courses Conducted

> Postgraduate – M.Tech. (Nanotechnology)

Semester I: Nanotechnology and Quantum Mechanics of Nanostructured systems, Nanomaterial Laboratory I, Discipline Specific Elective Course (DSEC)-I, Discipline Specific Elective Course (DSEC)-II, Data Analysis of sophisticated instruments (Crystallography, microscopy and spectroscopy).

Semester II: Mathematical Methods & Simulation for Engineers, Nanomaterial Laboratory II, Discipline Specific Elective Course (DSEC)-I, Discipline Specific Elective Course (DSEC)-II, Research Methodology & Proposal Writing, Skill Enhancement Course (SEC) [MOOCS - I/Department course].

Semester III: Semiconductor nanodevices,

Project Phase I.

Semester-IV: Project Phase II

> PhD Courses

Research methodology, Mathematical Methods and Simulation, Electives: (i) Optical Properties of Nanomaterials (ii) Nanomedicine and drug delivery (iii) Nanotechnology for Solar Photovoltaics.

Seminars/Conferences/Workshops/Symposia/E xtension Programmes

1. NATIONAL CONFERENCE ON SMART MATERIAL AND NANOTECHNOLOGY-2022

from 29th-30th Nov.,2022(Convener - Dr. L. Robindro Singh)

Publications

> Research papers (09)

- 1. Limbu, S., and Singh, L.R., A comparative study of a tunable body-centered cubic (I) red-emitting nanophosphor for warm WLED applications, Journal of Solid State Chemistry 308 (2022) 122929-122944.
 - https://doi.org/10.1016/j.jssc.2022.122929.
- Ghosh, N., Sen, S., Biswas, G.,Singh, L. R., Chakdar, D. & Haldar, P. K., A comparative study of CuO nanoparticle and CuO/PVA-PVP nanocomposite on the basis of dye removal performance and antibacterial activity in wastewater treatment, International Journal of Environmental Analytical Chemistry, Vol. 102 (2022) PP1-12 SSN: https://doi.org/10.1080/03067319.2022.2060088.
- 3. Limbu, S., Singh, L. R.,Okram, G.S., A single-phase white emitting nanophosphor with refined crystal structure and extremely luminescent characteristics for WLEDs and latent fingerprint detection, Mat.Chem and Phy. Materials Chemistry and Physics 290 (2022) 126619-635. https://doi.org/10.1016/j.matchemphys.2022.1266 19.
- 4. Singh, L. R., Site symmetry dependence on luminescence emission of Y2O3:Eu3+ dispersed in silica matrix, Materials Technology 2022, VOL.

- 37, NO. 11, 1906–1913. https://doi.org/10.1080/10667857.2021.2005983.
- 5. Hemam ,R., Singh, L. R.,Singh, S. D., Investigation of Thermoluminescence (TL) and Optically Stimulated Luminescence (OSL) Properties of Dy3+ Doped CaB4O7 Nanoparticles, Journal of Fluorescence, (2022) https://doi.org/10.1007/s10895-022-03009-x.
- 6. Saha, C., Bhushan, M., Singh, L. R., Pesticide sensing using electrochemical techniques: a comprehensive review, Journal of the Iranian Chemical Society, (2022) https://doi.org/10.10 07/s1 3738-022-02666-w
- 7. Nath, A., Chakraborty, A., Das, A., Singh, L. R., Sarkar, M. Barun., Post-annealing Effect on Surface Wettability by Electron Beam Evaporated Ag/In2O3 Thin Films, Brazilian Journal of Physics (2022) 52:204, https://doi.org/10.1007/s13538-022-01207-3.
- 8. Pyngrope, D., Prasad, A. I., & Pradhan, R. (2023). Enhancement of Intensity of Emission and Photoluminescence Properties of Red Light (A) Funds Received During Current

- Emitting YPO4: Eu3+ by Infiltration of Li+ in the Crystal Structure of YPO4: Eu3+. Journal of Metastable and Nanocrystalline Materials, 36, 49-56.
- 9. Pyngrope, D., Singh, L. R., & Prasad, A. I. (2022). Structural and photoluminescence studies of Gd2O3 doped with Ln3+ (Ln= Eu/Tb) and sensitised with Li+/Bi3+. Materials Today: Proceedings, 56, 1010-1023.

➤ Book Chapters (01)

1. Hrishikesh Kalita, Mahima Kumari, Mayank Bhushan, Debananda Mohapatra, and Laishram Robindro Singh, Point-of-Care Nanobiosensors for Determining Vitamin Deficiency, Biomedical Engineering and its Applications in Healthcare, Nanobiosensors for Point-of-Care Medical Diagnostics ISBN 978-981-19-5140-4 ISBN 978-981-19-5141-1 (eBook) https://doi.org/10.1007/978-981-19-5141.

Sr. No. Funding Agency Amount (Rs. In Lakhs), 01 NEHU 13.5 02 DST (Seminar) 2.0

(B) EMR Research Projects to individual faculty members

Title of Project (Total outlay in Lakhs)	Current Status (New /on- going/ completed)	Name of Investigator (Pl/Co-Pl)	Multi/Sing le Institute (Tenure)	Funding Agency	Fund received by NEHU in the year under report (in Lakhs)
Preparation of processable oxide nanoparticles doped with lanthanide ions and their luminescence study	Ongoin g	Dr. L. Robindro Singh (PI)	Single (2018- 2022)E xtended to 2023	UGC- DAE	Nil
Development of single- phase phosphor to produce white light emission for applications in phosphor converted white LED	Ongoin g	Dr. L. Robindro Singh (PI)	Single (2022- 2024)	DST- SERB	Nil
Fabrication and Characterization of Ag doped AL203:Ti02 Nanowire Array Device for UV-Vis Detection and Breath Sensing Application (28.35 L)	New	Dr. L. Robindro Singh (PI)	Single (2022-2025)	DST NEW Delhi	16.0

Annual Report (2022-2023)

Seminars/Conferences/Workshops/Symposia/Ex tension Programmes

Dr. Davidson Pyngrope

1. Presented a paper entitled "Enhancement of Intensity of Emission and Photoluminescence Properties of Red Light Emitting YPO4:Eu3⁺ by Infiltration of Li+ in Crystal Structure of YPO4:Eu3⁺ "in International Conference on Advanced Nanomaterials and Applications (ICANA 2022) organized by the School of Advanced Sciences, VIT-AP University, India and Indiana University-Purdue University Indianapolis (IUPUI), USA 16th-18th November 2022.

Academic Collaborations

Dr. L. Robindro Singh

National

- 1. Dr. R. S. Ningthoujam, Chemistry Division, Nanoscience Section, BARC, Mumbai.
- 2. "Preparation and analysis of luminescence properties of nanomaterials"
- 3. Prof. S.D. Singh, Department of Physics, Manipur University, Canchipur, Imphal, "Analysis of the thermoluminescence characteristics of sulphate based nanomaterials"
- 4. Dr. Munish Kumar, RPCD, AERB, BARC, Mumbai, "Analysis and designing and prediction of linear dosimetric samples, under BRNS project"

- 5. Dr. Mohondas Singh, Department of Chemistry, Mizoram University, "Preparation and analysis of ZnO nanomaterials doped with different dopants"
- 6. Dr. Tungenba Singh, Department of Botany, Mizoram University. "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"

International

1. Dr. Mona Saif, Faculty of Science, University of Cairo, Egypt for Indo-Egypt Project "Preparation of procesable oxide nanoparticles doped with lanthanide ions and their luminescence study.

Dr. Davidson Pyngrope National

1. Prof. D. Pamu, IIT – Guwahati, KNLNT-based Lead-Free Piezoceramics doped with Lanthanide ions for Piezoelectric applications

Other Activities

Dr. L. Robindro Singh

1. Delivered an invited talk on "Harvesting suitable phosphors for Luminescence Performance for PC-WLEDs" in the National Conference on Physical Science (NCPS)-2022 organized by Department of Physics, DHSK College, Dibrugarh, Assam and Department of Physics, Manipur University, Manipur from 29th to 30th April, 2022.

SUMMARY SHEET FOR THE ACADEMIC YEAR 1ST APRIL 2022 TO 31ST MARCH 2023

Details of	Name		1	Dr. L. Robindro Singh	Dr. Davidson Pyngrope
Faculties	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)	UG		4	5	0
Teaching Experience (in Years)	PG, including PhD		5	11	11
	Basic Research		6	Yes	Yes
1	Applied Research		7	Yes	Yes
1	Action Research		8	0	0
1	Project Submitted		9	3	0
1	Ongoing Project		10	3	0
1	Research Paper in UGC	Group I	11	7	0
1	care list journals	Group II	12	0	0
1	Books /Books chapters	Books	13	0	0
(D)	Published	Book	14	1	2
(B)		Chapters			
Research activities	Popular Articles (News Paper/ Magazines)		15	0	0
1	Seminar / Conference/	National	16	1	0
1	Symposia organized	International	17	0	0
1	Seminar / Conference/	National	18	1	1
1	Symposia attended	International	19	0	1
1	Conference Proceedings		20	0	0
1	Consultancy		21	0	0
(C)	Applied		22	0	0
Patent	Published		23	0	0
1	Granted		24	0	0
(D)	MOOC/SWAYAM/ E-		25	Nil	Nil
E-Content	content developed			1111	1111
	Teaching /Extension		26	Yes	Yes
İ	/outreach activities		_0		- 35
İ	Responsibilities other		27	Yes	Yes
İ	than teaching				
(E)	Awards/ Honours/		28	0	0
Any Other	Recognition/ Membership/ Fellowship				
İ	Collaborations	National	29	7	0
1	- CITACOTAVIOTIO	International	30	1	0

IX. ADMINISTRATIVE DEPARTMENTS

COLLEGE DEVELOPMENT COUNCIL

OSD: Debasish Chowdhury **Telephone:** +91-364-2721201/1202/1203

E-mail: dircdc@nehu.ac.in; cdcnehu@gmail.com

Background

The College Development Council (CDC) is the nodal link that connects the University with all its affiliated colleges. The Council is also the gateway through which permission to start new colleges can be processed and subsequently allowed to get affiliated with the University on fulfilment of the prescribed criterion. The CDC acts as the principal Advisory Body to the Executive Council and the Academic Council of the University in all affiliation related matters. The Council, re-constituted every two years, is a representative body of various stakeholders having university officials, faculty members, college principals, teachers of affiliated colleges and education department officials of the State Government as its sitting members. The Vice-Chancellor is the ex-officio Chairperson of the Council.

Activities

The Council is entrusted with responsibilities that include: (a) planning for effective and wholesome development of colleges under the aegis of the University; (b) acting as an effective academic guide for the college system and, (c) coordinating and pursuing supportive measures to facilitate sharing of academic resources available with the University departments with teachers at affiliated colleges.

The Council provides the affiliated colleges with a forum for exchange of ideas and, also helps them adopt various measures on diverse aspects of education with a view to improve the quality and general standard of higher education at colleges under the aegis of the University.

Besides the above, the Council also operates as an effective liaison between UGC/MHRD and the affiliated colleges enlisted under Section 2(f) and 12(B) of UGC Act, 1956. It also guides new colleges in fulfilling the procedural formalities if they wish to get enlisted under Section 2(f) and 12(B) of UGC Act, 1956. The Council also guides and extends its support to the eligible colleges to

apply and receive developmental assistance from the UGC and other governmental agencies under various schemes that are made available for these colleges from time to time.

The University currently has eighty-three (83) affiliated colleges under its belt. Thirty-three (33) of these colleges are permanent affiliates of the University while the rest fifty (50) out of the total of 83 colleges are admitted to the privileges of provisional affiliation only.

Some of the major official work activities of the Council may be listed as under:

- 1. Processing of applications of affiliated colleges for grant of affiliation
- 2. Constitution of Inspection Teams for visit to colleges
- 3. Convening of Affiliation Committee
- 4. Placing the recommendations of Affiliation Committee before the Academic Council/Executive Council for consideration and approval.
- 5. Appointing Subject Experts in various Selection/Screening Committees for the purpose of appointment / placement of Assistant Professors in affiliated Colleges as per University/UGC norms
- 6. Facilitating the process of obtaining the Nominees of Vice Chancellor in such Selection/ Screening Committees
- 7. Processing nomination of NEHU representatives from amongst the Academicians in the Governing Bodies/Advisory Committees of the affiliated colleges.
- 8. Circulation of relevant information/guidelines/regulations of NEHU, UGC, MHRD and other agencies to affiliated colleges.
- 9. Forwarding of proposals submitted by the colleges to the UGC for funding purposes under its various schemes.
- 10. Legal matters of affiliated colleges.
- 11. General/Miscellaneous correspondences with Affiliated Colleges/State Government/University Academicians/University Administration/UGC, New Delhi.

Brief Statement of Activities and Achievements

The following is the list of activities undertaken by CDC during the period under consideration (April 01, 2022 to March 31, 2023:

- 1. Arranged Visits to colleges by Various Inspection Teams to consider Renewal of Provisional Affiliation of UG Courses:
- a. St. Anthony's College Extension Byndihati, Jowai, East Jaintia Hills District:
- b. Union Christian College (UCC), Umiam Khwan, Ri-Bhoi District;
- c. Raid Laban Synod College, Shillong East Khasi Hills:
- d. Tura Government College, Tura, West Garo Hills;
- e. Lyngngam Presbyterian College, Mawthyngkut, West Khasi Hills;
- f. Shangpung College, Jowai, West Jaintia Hills;
- g. JJ.M. Nichols Roy College, Shillong, East Khasi Hills;
- h. Iaikyntiew College, Shillong, East Khasi Hills;
- i. Tikrikilla College, Tikrikilla, West Garo Hills;
- j. Shillong Commerce College, Shillong, East Khasi Hills.
- 2. Arranged Visits to the below listed colleges by Various Inspection Teams to consider matters relating to grant of Provisional Affiliation of UG Courses:
- a. St. Edmund's College, Shillong, East Khasi Hills District;
- b. Thomas Jones Synod College, Jowai, West Jaintia Hills;
- c. Union Christian College (UCC), Umiam Khwan, Ri-Bhoi District;
- d. St. Xavier's College Umoid, Umoid-793114, Via Mawkyrwat, South West Khasi Hills District;
- e. Umshyrpi College, Shillong, East Khasi Hills District.
- 3. Arranged Visits to the below listed colleges by Various Inspection Teams to consider matters relating to grant of Permanent Affiliation of UG Courses:
- a. Sohra Govt. College, Saitsopen, East Khasi Hills District:

- b. Nongstoin College, Nongstoin, West Khasi Hills District.
- 4. Arranged Visits to the below listed colleges by Various Inspection Teams to consider matters relating to Renewal of Provisional Affiliation to PG Courses:
- a. NEIGRIHMS, Mawdiangdiang, Shillong, East Khasi Hills District:
- b. Shillong College, Shillong, East Khasi Hills District.
- 5. Arranged Visits to the below listed colleges by Various Inspection Teams to consider matters relating to Grant of Provisional Affiliation to PG Courses:
- a. NEIGRIHMS, Mawdiangdiang, Shillong, East Khasi Hills District.
- 6. Arranged Visits to the below listed colleges by Various Inspection Teams to consider matters relating to Grant of Provisional Affiliation to Subject(s)/ Courses of Study in new College/Institution:
- a. Ri-Bhoi Synod College, Umsaitsning Nongpdeng, Umsning, Ri Bhoi District;
- b. St. Joseph's Academy of Nursing, Umtrew, Ri-Bhoi District;
- c. Christ College, Umeit, Bye Pass Road, Umiam, Ri-Bhoi District;
- d. PASF Abong Noga College, New Tura, West Garo Hills District;
- e. Shillong Government College of Engineering, Mawlai Kynton Massar, Shillong, East Khasi Hills District.
- 7. Arranged Visits to the below listed colleges by Various Inspection Teams to consider matters relating to Grant of Permission to Start New College:
- a. Ummulong Presbyterian College, Ummulong, West Jaintia Hills District;
- b. Synod College Nongstoin, Jur Ramsang, Nongstoin, West Khasi Hills District.

EXAMINATION DEPARTMENT

CoE: Col Omkar Singh (Retd.) **Telephone:** +91-364 2721211 / 1212

E-mail: coe@nehu.ac.in

Background

The Examination Department mandated to perform its activities as one of the key nerve centres in any university setup. The generic functioning of the University is concomitantly determined with the performance of its Examination Department in public domain. The routine activities of the Examination Department in any university system include all exercises pertaining to conduct of various examinations, processing, and timely declaration of results of courses offered by the University at its Postgraduate and Undergraduate level. The Department is also involved in processing of submitted research works for needful adjudication, arranging viva-voce, 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.

Brief Statement of Activities and Achievements

Accordingly, during the period under report (April 01, 2022 to March 31, 2023), the Examination Department of the North-Eastern Hill University had performed the following activities:

- 1. With the initiative of the Department the University has successfully registered with the National Testing Agency (NTA) to facilitate admission process through CUET. All the aspirant students have been enrolled in various Academic Departments for the Academic Session 2022-23 through CUET score as one of the criteria for admission.
- 2. The University has meticulously implemented NEP 2020 for the postgraduate course serviced at its Academic Departments in accordance with the guidelines of Union Government of India. The

first of batch of students for the academic session 2022-23 have been admitted under the revised course structure and pedagogy approved by the Statutory Bodies of the University. Accordingly, the Department is in the process of declaration of results of first batch of students under the NEP 2020 under the University Management System (UMS) which is University's exclusive ERP system.

- 3. Two end semester examinations (one even Semester examination during July 2022 and one odd semester examination during November 2022) have duly been conducted both at the academic departments of the university and at its affiliated colleges.
- 4. 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 reasonable timeframe.
- 5. 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.
- 6. The XXVII Convocation Programme of the University held on May 21, 2022. During which, Shri Dharmendra Pradhan Hon'ble Union Minister i/c of Education etc., Government of India attended the programme as the Chief Guest. The Examination Department was actively involved in most of the Convocation related activities and played crucial role towards a successful Convocation Ceremony of the University.
- 7. The Examination Department is closely working along with allied Departments to ensure that the facilities such as online availability of the academic credentials of students through the National Academic Depository (NAD) including

generating create id for students and upload data in the students' portal under Academic Bank of Credit so as to enable them to access their credits.

- 8. 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 the college/department end already introduced in the previous year have further been streamlined to facilitate hassle free services to the stake holders.
- 9. 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.
- 10. 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.
- 11. 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.
- 12. 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.
- 13. 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.
- 14. 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.
- 15. 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.
- 16. 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.
- 17. 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.

Like every other year, the year under review too was a very busy one for the Examination Department. 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:

Sri L. M. K. Lyngrah (till 31.10.2022); (i/c) Prof. K. C. Kabra (since 01.11.2022)

Telephone: +91-364 272 1021

E-mail: fo@nehu.ac.in

				Amount in Rupees			
RECEIPTS	CURRENT YEAR 2022-23	PREVIOUS YEAR 2021-22	PAYMENTS	CURRENT YEAR 2022-23	PREVIOUS YEAR 2021-22		
I. Opening Balances	2,05,25,85,795	2,12,47,35,523.00					
			I Evanges				
			I. Expenses a) Establishment				
			Expenses	76,30,74,842	76,28,56,726		
			b) Academic	70,30,74,642	70,20,30,720		
			Expenses	11,36,82,707	10,58,55,143		
			c) Administrative	,,,,			
			Expenses	8,70,45,018	3,83,89,317		
			d) Transportation	, , , ,	, , ,- :		
			Expenses	1,39,63,318	83,49,783		
			e) Repairs and Maintenance Expenses	5,16,73,302	2,81,61,294		
			f) Prior period				
			expenses	12,87,562	82,37,055		
			g) Salary Payable	83,19,67,021	81,28,78,811		
			h) Other Expenses(Code 1000)	71,400	1,06,564		
II.Grants Received			II. Payments against Earmarked/Endo wment Funds	2,05,60,315	1,51,71,236		
a) From Govt. of							
India	2,68,82,50,027	2,02,82,07,961					
b) From State							
Government							
c) From other sources							
3001003							
III. (a)Academic Receipts	21,59,01,258	26,69,18,728	III. Payments against Sponsored Project/Schemes	64,52,79,919	6,44,56,456		
(b) Establishment	7.07.200	27.45.460					
Receipts	7,07,388	37,45,460					
(c) Administrative Receipts	3,19,795	9,303					
(d) Transportation Receipts		8,000					
(e) Repair and Maintenance Receipts	6,37,250	21,000					
IV.Receipts against Earmarked,Endowm ent Funds	11,12,03,469	4,24,49,146	IV. Payments against Sponsored	63,11,930	94,38,485		

	1	-	Eallawahina/	T	
			Fellowships/ Scholarships		
			Senerarings		
V. Receipt against Sponsored Projects/Schemes	8,15,93,749	8,74,27,603	V. Investments made		
			a) Out of Earmarked/Endo wment funds	3,58,82,324	
VI. Receipts against Corpus Fund	48,69,100		b) Out of Own Funds c) Out of Corpus		
			Fund		
VII.Receipts against sponsored Fellowships and Scholarships	59,10,419	78,61,212	VI. Term Deposits with Scheduled Banks		
VIII. Income on Investments from			VII.Expenditure on Fixed Assets and Capital Work in Progress a) Fixed Assets		
Earmarked/Endowm ent funds					
b) Main account investments			b) Capital Works in Progress		
c) Corpus Fund	9,49,737		c) Statutory remittances and release of security and caution deposits		
IX. Interest received on			VIII. Other Payments including Statutory Payments	2,36,56,770	4,79,81,981
a) Bank deposits		4,29,370			
b) Loans & Advances					
c) Savings Bank accounts	1,03,43,411	1,95,43,103			
d) Corpus, Earmarked & Endowment Funds Account	1,01,045				
X.Investment encashed			IX. Refund of grants	24,34,667	17,59,934
XI.Term Deposits with Scheduled Banks encashed	1,18,12,075		X. Deposits & Advances/Interes t bearing advances	38,41,19,676	33,32,34,245
XII.Other income(including Prior Period Income)	4,21,05,888	35,48,362	XI. Other Payments (Interest on Savings Account Refunded to UGC and Design		

	T		T 1	T		
			Innovation Centre)			
			a) Payment to			_
			Creditos	2,22,07,654	3,62,81,330	
			b) Other current liabilities		38,78,57,157	
			b) Interest(code- 900)	1,833	16,436	
XIII. Deposits and Advances/Interest bearing advances	6,71,88,234	5,36,78,854	XII. Adjustments in Capital Account of Tura Campus			
XIV. Statutory dues including Security, Caution, Ear nest Deposits etc	2,37,90,865	2,00,04,774	XIII. Adjustments in Corpus Account	12	33	
XV. Any other			VIV Descints			┼
Receipts/Loan recovery		4,86,89,113	XIV. Receipts yet to be Identified	6,32,273	2,66,000	
•			XV. Cheques to be Reissued	4,55,300	11,08,275	
XVI. Miscellaneous			De Keissueu	4,33,300	11,00,273	-
in Corpus Account (Including Institutional Charges & Affiliation Fees)	1,04,297	37,634				
			XVI. Fixed	41.00.07.146	7.57.02.704	*
			Assets XVII. Investment	41,89,05,146	7,57,02,704	*
			From Corpus Fund, Earmarked Fund and Endownment Fund	2,31,32,088	11,28,00,000	
			XVIII. Loans			*
			And Advance	60,82,64,007	79,42,47,642	
			XIX. Closing balances			
			d) Cash in Hand			*
					18,385	
			e) Bank balances			<u> </u>
			i) In Current Accounts	11,74,46,460	3,98,93,970	*
XVII. Receipts yet to	4 (0 40 107	15 52 059	ii) In Savings			*
be Identified	4,68,40,107	15,53,058	Accounts iii) In RBI	1,19,65,89,643	1,02,99,23,095	1
			Accounts	15,94,562		
XVIII. Cheques to be Reissued	18,36,715	17,83,836		, ,		
XIX. Adjustments in Capital Account of Tura Campus						
XX. Income Tax Refund						
XXI. Extra Remittance by Tura Campus						

XXII. Remittance to						
Corpus Fund		43,40,015				
Total			Total			
	5,36,70,50,624	4,71,49,92,057		5,36,70,50,624	4,71,49,92,057	

^{*} For Previous FY (2021-22) Closing balance included XVI, XVII, XVIII and XIX. However, for current FY 2022-23, for Closing balance only closing balance of Cash in Hand and Bank balances are taken into Account.

PLANNING CELL

Assistant Registrar (i/c): Dr. Devendra K. Biswal

Telephone: +91-364-2721060

E-mail: devendra@nehu.ac.in

Background

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.

Brief Statement of Activities and Achievements

- 1. 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 1st installment under Salary and Recurring Head of Account (EWS Salary- Rs. 4.51 crores and EWS Recurring Rs. 2.56 crores).
- 2. 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 (Capital) Rs 25.93 crore has been released so far as on April, 2023.
- 3. The Planning Cell was keenly involved in building the following ambitious offices/projects by the University as detailed below:
- a. 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
- b. 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.
- c. 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
- d. 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)).
- e. Establishment of Research and Development Cell in the University.

X. CENTRAL SERVICES

DR. AMBEDKAR CENTRE OF EXCELLENCE

Coordinator & Nodal Officer: Telephone: +91-364-272 1241/1242

Dr. Devendra K. Biswal E-mail: devendra@nehu.ac.in

Background

The Ministry of Social Justice and Empowerment, Government of India has set up the Dr. Ambedkar Centre of Excellence (DACE) in North-Eastern Hill University (NEHU), Shillong for empowerment of the Scheduled Caste (SC) candidates by providing them free coaching for civil services Examinations (Prelims and Mains). A total of 34 students (SC category) got enrolled under the scheme for the year 2022-23.

Activities

On August 4, 2022, NEHU conducted a one-day workshop on the "Menace of Substance Abuse" at the Multi-Use Convention Hall, co-hosted by the National Service Scheme Cell and the Dr. Ambedkar Centre of Excellence (DACE). The event was attended by many students from various university departments, as well as NSS Programme Officers, NSS volunteers from colleges, the NSS Unit NEHU, and Deans of Schools from the university. The programme was created as a component of the "Nasha Mukt Bharat Abhiyaan." Dr. Virendra Kumar, the Hon'ble Union Minister of Social Justice and Empowerment, presented the opening comments through video conference to begin the session. The chief guest of the event was Smt. Sonal V. Misra, IPS, Inspector General, North-Eastern Sector, Central Reserve Police Force, Shillong, and the guest of honour was Smt. Supriya Das, IPS, SP (CID), Meghalaya, Shillong.

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BIOINFORMATICS CENTRE

Coordinator & Nodal Officer:

Dr. Devendra K. Biswal E-mail: devendra@nehu.ac.in

Co - Coordinator: Prof. S. R. Joshi

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 trematodiases. Extensive evolutionary bioinformatics work on phylogenomics of foodborne trematodiases 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 abovementioned 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" with effect from March 02, 2021.

Salient features

- 1. 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.
- 2. Information node of BTISNet: The Centre is part of the National Bioinformation Network and functions **Research Projects**

- as an information base in various areas of Biosciences and Biodiversity for the entire northeast ever since its inception.
- 3. 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 fulfilment of their M.Sc. degree.
- 4. Research & Database development: Molecular characterization, functional and comparative genomics, proteomics, metabolomics, and evolutionary bioinformatics of pathogenic worm infections and Orchid Biodiversity of NER.
- 5. 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

Dr. D. K. Biswal

Delivered invited lectures on (i) "Scientific interventional tools to improve Cognitive behaviour in children with neurodevelopmental disorders in India" organized by the Department of Biomedical Engineering, North Eastern Hill University (NEHU), Shillong, Meghalaya, India from 19th-24th September, 2022 in the KARYASHALA WORKSHOP and SNCI SATELLITE MEETING. (ii) "Fostering bioinformatics education through data skill development of educators" in the "Refresher course in Zoology" on the theme "Recent Advances in Zoology", from Nov 21 – Dec 05, 2022 by Department of Zoology and UGC-HRDC, NEHU, Shillong.

Publications

- 1. Das, K.C., Konhar, R. & Biswal, D.K. 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 Immunol (2023).
- 2. Konhar, R., Dash D., Biswal, D.K. First report of de novo assembly and annotation of organelle genomes of Indian Pitcher Plant Nepenthes khasiana. BMC Genom Data (2023)

Title of Project (Total outlay in Lakhs)	Current Status (New /on- going/ complete d)	Name of Investigator (Pl/Co-Pl)	Multi/Si ngle Institute (Tenure)	Fundi ng Agenc y	Fund received by NEHU in the year under report (in Lakhs)
Understanding the biosystematics and biodiversity of few selected carnivorous plants in Meghalaya: A next generation genomics and proteomics approach	Ongoing	Devendra K. Biswal (PI), Dr. Debasis Dash & Dr. Shantanu Sengupta (Co-PI)	Multi (2020- 2023)	DBT, GOI	117.00
Biodiversity Informatics: Northeast India Bio-Bank of Codes Network (NIBBCoNet).	On-going	Devendra K. Biswal (PI), S. R. Joshi (Co-PI)	Single (2022- 2023)	DBT, GOI	164.00

Academic Collaborations

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

- 1. Member of the DBT Expert Committee for Women Scientist Bio-CARE Scheme.
- 2. DBT e-library Consortium-Nodal Officer for NEHU
- 3. Member, International Society for Computational Biology (ISCB)

Infrastructure facilities

- 1. Computer & Communication facility: (a) LAN connectivity; Servers: 3 nos., PCs: 20 nos.; Workstations: 3 nos., Printers: 3 nos., Scanner: 1 no., UPS: 5 nos.; LCD Projector: 2 nos. (b) 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.
- 2. 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.
- 3. 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
- 4. Facility procured through NER Twinning Next-Gen Sequencing Project: Apple Mac Pro (1 no.), 10 kva UPS (1 no.), Apple iMAC 21" (6 nos.)
- 5. 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

- 1. *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).
- 2. Biodiversity of Nepenthes khasiana pitcher fluids
- 3. Ecological Genomics of Orchids (of Medicinal Importance) specific to North-East India
- 4. Biodiversity Informatics: North-east India Bio-Bank of Codes Network (NIBBCoNet)

Other Activities

Dr. D. K. Biswal

Member of the (i)NAAC & NIRF (ii) Executive Committee, NEHU Incubation Centre (iii) Member Secretary, Planning Committee, NEHU (iv) Co-opted Member, MOU Committee, NEHU (v) Building Committee.

BIOTECH KISAN HUB

Project Coordinator: Dr. Arindam Telephone: +91 8794703810

Barman E-mail:

biotechkisanhubnehu@gmail.com

Human Resource Profile

Designation	Name and Qualification	Specialization
Project	Ms. Neha M. Sangma, M.Sc. (NEHU Tura Campus, Meghalaya)	Horticulture
Assistant	Ms. Amy D. Shira, MSc (NEHU Tura Campus, Meghalaya)	Horticulture

Brief Statement of Academic Activities and achievements

Biotech-KISAN Hub, NEHU, Tura campus, Meghalaya funded by DBT, New Delhi was established in the year 2022. The aim of the hub is to work with small and marginal farmers especially the woman farmers for better agriculture productivity through scientific intervention and evolving best farming practices. The hub is working on the basis of cluster approach for economic upliftment in rural areas based on affordable technologies and providing support to the farmers. The performed activities of Biotech KISAN Hub are as follows: (i) Understanding the problems of the local farmers; (ii) Scouting for available technologies and solutions to problems of farmers in the region; (iii) Demonstration and scale-up programmes for implementing the solutions to the problems of farmers; (iv) Creation of strong Scientists-Farmers Interaction Platform and connectivity; (v) Training programmes for the farmer; (vi) Communication set up through social media etc; (vii) Special solution-driven thematic fellowships to women farmers (Mahila Kisan Biotech Fellowship) to develop them as leaders and grass root scientists.

Biotech-KISAN Hub, NEHU, Tura Campus, Meghalaya established its demonstration units for low-cost polyhouse growing and nursery raising of high value vegetables and production of compost in the university as well as in farmer's field. The production of high value vegetables and compost (including vermicompost) has already been started in the farmer's field. Some farmers started to produce compost as a small-scale business. At present total number of direct and indirect farmers' beneficiaries of the hub is more than eight hundred. Many self-help groups (SHGs) are also involved in the hub activities. The hub conducted around 32 training programmes/events for the farmers/scientists etc. Some of the important events are Kisan Mela 2022, National Seminar on Conservation of Biodiversity (NSCB 2022), International Conference on Environment and Sustainable Development (ICESD 2022), Startup & Entrepreneur Meet 2023 etc. The open Floor Meeting of Farmers, NE-Grass Root Innovators, Perspective Entrepreneurs etc. with Directors/ Senior Government Officials, heads of the Institutions etc. held during the above-mentioned programmes helped to take policy decisions to come with a possible solution for societal development.

Seminars/Conferences/Workshops/Symposia/Extension Programmes Organized

1. Inauguration programme of field demonstration unit of Biotech Kisan Hub. Date: December 9, 2022, Venue: NEHU, Tura Campus

- 2. Adoption of Draechikgre Village by Biotech-KISAN Hub, NEHU Tura Campus, Meghalaya. Date: December 8, 2022
- 3. Two days of International Conference on "Environment and Sustainable Development (ICESD)" Organizers: Biotech-KISAN Hub, NEHU, Tura Campus in collaboration with Department of Computer Application, NEHU, Tura campus, Meghalaya under the aegis of DBT. Date: November 24-25, 2022. Venue: NEHU, Tura, Campus, Meghalaya
- 4. A tour visit was organized to Nokrek National Bio-reserve peak, West Garo Hills, Meghalaya on November 26, 2022.
- 5. A two-day National Seminar was organized on Conservation of Biodiversity (NSCB) at NEHU, Tura, Campus, Meghalaya during September 2 &3, 2022.
- 6. KISAN Mela 2022 was organized at NEHU, Tura, Campus, Meghalaya during September 2 &3, 2022
- 7. Bio-Entrepreneurship Development Training Programme was organized at Darechikgre Village, West Garo Hills, Meghalaya on November 18, 2022.
- 8. Training-cum-input distribution Programme was organized at Katuli, Walkamgre, South-West Garo Hills on March 11, 2023.
- 9. Training-cum-input distribution Programme was organized at Bandalkona Training Centre, South-West Garo Hills on March 11, 2023.
- 10. Capacity Development Programme for Entrepreneurship Development was organized at NEHU Tura Campus on March 20, 2023.
- 11. Start-up & Entrepreneurs Exhibition was organized at NEHU Tura Campus on March 20&21, 2023
- 12. Farmers' Scientist Interaction on Formation of FPO (Framers' Producers Organization) was organized on Entrepreneurship Development Programme at NEHU, Tura Campus, Meghalaya on May 31, 2023. Organizers: Biotech-KISAN Hub, NEHU, Tura, Campus, Meghalaya in collaboration with ICAR-KVK, WEST Garo Hills.
- 13. National symposium on Agriculture, Environment and Food Security (NSAE&F 2023) was organized at NEHU, Tura Campus, Meghalaya on June 5, 2023 by Biotech-KISAN Hub NEHU, Tura Campus, Meghalaya & NSS PG Unit, NEHU, Tura, campus, Meghalaya
- 14. Inauguration Programme for the first issue of "AGRI-Vision" Magazine of Biotech-KISAN Hub was organized (Organizers: Biotech-KISAN Hub, NEHU, Tura Campus, Meghalaya). Date: May 13, 2023; Venue: NEHU, Tura Campus, Meghalaya.

Funds Received during the current Year

Sr. No.	Funding Agency	Amount (Rs. In Lakhs)
01	DBT, GOI	64.00

Other Activities/achievements

- 1. Biotech-KISAN Hub released its first product viz. Vermicompost in the year 2022.
- 2. Biotech-KISAN Hub also released its first magazine "AGRI Vision" in the year 2023.
- 3. Biotech-KISAN Hub, NEHU, Tura campus, Meghalaya had taken part at Darechikgre village programme conducted by NSS (National Service Scheme), NSS PG unit, NEHU, Tura Campus on June 15, 2023.

BIRAC'S BIONEST BIO-INCUBATOR (B3I) FACILITY

Project Investigator: Dr. Birendra Kr. Mishra Telephone: +91 9436306259

E-mail: bioincubator.nehu.tura@gmail.com

Human Resource Profile

Designation	Name and Qualification	Specialization
Chief Executive Officer	Dr. Suman Kumar Nandy, Ph.D.	Bio-Physics
(CEO)	(Kalyani University)	
	Mr. Arpan Ghosh, M. Tech.	Biotechnology
Technical Officer	(Kalinga Institute of Industrial	
	Technology, Odisha, India)	
	Ms. Alva Margareth Kharkongor,	Rural Development &
Program Manager	M.Sc. (North Eastern Hill	Agricultural Production
	University, Tura Campus)	(Sp.:Animal Science)
	Ms. Rimi Dey, M.Sc. (University	Biotechnology
	of Science & Technology,	
Laboratory Assistant	Meghalaya)	
_	Mr. Shanbor Sayoo, MSc	Microbiology
	(Pondicherry University)	

Brief Statement of Academic Activities and achievements

BIRAC's BioNEST Bio-Incubator (B3I) Facility established on October 6, 2021, at NEHU, Tura Campus is an incubation center supported by the Biotechnology Industry Research Assistance Council (BIRAC), a Government of India Enterprise. The main objective of B3I Facility is to identify, nurture and empower Ignited Minds, Innovators, Entrepreneurs and Start-ups from the North-Eastern Region (NER) and transform their innovative ideas addressing the unmet needs of society into a profitable and sustainable business. B₃I facility offering is unique HANDHOLDING program for **Innovators** comprising Infrastructural (Laboratory, Office space & Secretarial) Support; Technological, Business & Legal Mentorship; Facilitation in Government Funding, regulatory certification; and customized pre-incubation programs on Sensitization, Bio-entrepreneurship Opportunities, Capacity Building, Development to build a dynamic ecosystem for Entrepreneurship and Innovation in the NER.

Round the year B3I Facility has conducted 16 Awareness and Sensitization Programs, 07 Skill Development Training, 09 Outreach Programs, 06 Network Building, 15 Incubatee Meet, and took part in 09 Promotional events (Conclave, Expos, Exhibitions etc.) across the country. All-round assistance in grant writing was provided to 25 Entrepreneurs with Innovative Business Ideas for applying BIRAC's BIG and MSME Hackathon 2.0 schemes. Till date, B3I Facility has reached out to 4900+ participants from 28 States and 05 Union Territories across India and 09 countries across the Globe.

Seminars/Conferences/Workshops/Symposia/ Extension Programmes Organized

- 1. Awareness program on "IPR & MSME Innovative Schemes", Date: April 26, 2022, Venue: NEHU, Shillong Campus, Organizer: BIRAC's BioNEST Bioincubator Facility, NEHU, Tura Campus in association with Branch MSME-DI, Tura, Meghalaya, Ministry of MSME, Government of India; and the IPR Cell, NEHU.
- Awareness Program on BioNEST & Business
 Development Training programs on the
 preparation of Tungrymbai & Chubitchi to Rural
 Entrepreneurs (a) Date: June 03 & 04, 2022 ,
 Venue: Pahamsyiem, Nongpoh, Ri-Bhoi District,
 & at Umkhoi,, Mawkynrew, East Khasi Hills
 District Meghalaya; and, (b) Date: July 03 & 05,
 2022, Venue: Myrkhan, Mylliem, East Khasi
 Hills District, & at Sngap Syiem College,
 Mawkyrwat, South West Khasi Hills, Meghalaya.
 Organizers: Department of RDAP; BIRAC's

- BioNEST Bioincubator Facility, NEHU Tura Campus & Anand Agricultural University (AAU), Anand, Gujarat.
- 3. Awareness and Entrepreneurship Development Programme on Mushroom Cultivation to the students of Dept of RDAP. Date: June 17, 2022. Venue: BIRAC's BioNEST Bioincubator Facility, NEHU Tura.
- 4. Training program on the preparation of fermented rice beverage "Chubitchi". Date: July 08, 2022, Venue: Krishi Vigyan Kendra (CAU), Megagre, East Garo Hills, Meghalaya. Organizers: BIRAC's BioNEST Bioincubator Facility, NEHU, Tura Campus, Meghalaya in collaboration with KIIT-TBI, Bhubaneswar, Odisha and Anand agricultural University (AAU), Anand, Gujarat.
- 5. "Webinar on Writing the BIG GRANT" (a) Date: July 20, 2022, Organizers: BioNEST Bioincubator Facility, NEHU Tura Campus in collaboration with KIIT-TBI, Odisha; (b) Date: August 26, 2022, Venue: BioNEST Bioincubator Facility, NEHU Tura Campus. Organizers: BioNEST Bioincubator Facility, NEHU Tura Campus in collaboration with BRTC (BIRAC-Regional Techno-Entrepreneurship Promotion Centre).
- 6. "A three-day hands-on training program on the scientific preparation of Chubitchi & Tungrymbai". Date: August 25-27, 2022. Venue: BIRAC's BioNEST Bioincubation (B3I) Facility at NEHU Tura Campus. Organizers: BIRAC's BioNEST Bioincubation (B3I) Facility, NEHU Tura Campus in collaboration with BRTC (BIRAC- Regional Techno-Entrepreneurship Promotion Centre).
- 7. (i) Blended mode program on the Inaugural series of "Bio-entrepreneurship opportunities in Meghalaya" organised by BioNEST Bioincubator Facility, Date: September 07, 2022, Venue: PRIME Hub, Shillong. Organizers: BIRAC's BioNEST Bioincubator Facility, NEHU, Tura Campus in collaboration with PRIME Startup Hub Meghalaya.
 - (ii) Webinar series on "Bio-Entrepreneurship opportunities at Meghalaya"
- a. Theme: Regulatory Compliances and Certifications for Innovations in Food & Nutrition, Date: September 28, 2022
- b. Theme: *Prospects of Floriculture in Meghalaya*, Date: October 12, 2022
- c. Theme: Prospects of Medicinal Plants, Aromatic Crops Cultivation & Extraction of Bioactive compounds in NER in India, Date: November 03, 2022

- d. Theme: 'Repurposing of Traditional Bioresources- Livelihood from Bamboo' Date: December 07, 2022
- 8. Entrepreneurship Awareness Programme (EAP) on Food Processing. Date: September 16, 2022. Venue: NEHU, Tura Campus. Organizer: BIRAC's BioNEST Bioincubator Facility, NEHU, Tura and Branch MSME-DFO, Tura, Ministry of MSME, Govt of India.
- 9. Awareness program on Enabling Entrepreneurship through Academia. Date: September 23, 2022. Venue: St. Anthony's College, Shillong, Meghalaya. Organizers: BIRAC's BioNEST Bioincubator Facility
- 10. Online workshop on "Intellectual Property Rights (IPR) & Patents Design Filing Requirements, Date: October 10, 2022, Organizers: BIRAC's BioNEST Bioincubator Facility, NEHU, Tura Campus & RGNIIPM, Nagpur, Ministry of Commerce & Industry, Government of India, IPR Cell, NEHU, Shillong.
- 11. An offline 'Idea Presentation Seminar' in view of MSME 2.0 Idea Hackathon, Date: October 11, 2022, Venue: NEHU, Tura Campus, Organisers: BIRAC's BioNEST Bioincubator (B3I) Facility, NEHU, and Branch MSME-DFO, Tura, Ministry of MSME, Govt of India.
- 12. BIG Grant Writing Webinar for the 22nd call on 'Biotechnology Ignition Grant (BIG)' Date: January 05, 2023, Organizers: (C-CAMP), Bengaluru, Karnataka & BIRAC's BioNEST Bioincubator (B3I) Facility, NEHU, Tura.
- 13. Awareness Program on Intellectual Property Rights, Date: January 21, 2023, Venue: Ampati, South West Garo Hills District. Organizers: Branch MSME-DFO, Tura, Ministry of MSME, GOI in association with CIPAM, DPIIT and supported by NEHU, Tura and Ampati Degree College, Ampati, South West Garo Hills District.
- 14. Hands-on Laboratory Equipment Demonstration for the students of College of Community Science, CAU, Tura, Meghalaya, Date: January 25, 2023, Venue: Department of RDAP & BIRAC's BioNEST Bioincubation Facility, NEHU Tura Campus.
- 15. Webinar on 22nd BIG grant writing, Date: February 01, 2023, Organizers: KIIT TBI, Bhubaneswar and BIRAC's BioNEST Bioincubator (B3I) Facility, NEHU, Tura.
- 16. 2-Days Webinar On "Fermentation: Interplay of Microbes, Immunity & Nutrition", Date: February 03-04, 2023, Organizers: BioNEST Facility, NEHU, Tura Campus & Dept. of RDAP, NEHU, Tura Campus, Meghalaya supported by Biotechnology Industry Research Assistance

- Council (BIRAC), a Government of India Enterprise.
- 17. Emerging Trends on Biological Sciences: A North East Perspective, Date: February 28 & March 01, 2023, Organizers: Department of Biotechnology & Bioinformatics, NEHU, Shillong in collaboration with Bio-Resource Development Centre, Upper Shillong and BIRAC's BioNEST Bioincubator (B3I) Facility, NEHU, Tura.
- 18. Skill development Training Program on "Pickle Preparation" Date: March 22, & April 03, 2023, Venue: BIRAC's BioNEST Bio-Incubator Facility (B3I), NEHU, Tura Campus, Organizers: BIRAC's BioNEST Bio-Incubator Facility (B3I), NEHU, Tura Campus in association with the Dept. RDAP, NEHU Tura
- 19. Students visit from Jahawar Navodaya Vidyalaya, South Garo Hills as a part of the Vigyan Jyoti Program to NEHU Tura Campus, Date- March 27, 2023, Organizers: Department of Education, Department of Rural Development and Agricultural, roduction (RDAP), Department of Computer Applications and BIRAC's BioNEST Bio-Incubator (B3I) Facility of NEHU, Tura Campus

Seminars/Conferences/Workshops/Symposia/ Extension Programmes Attended

 North East Research Conclave, Date: May 20-22, 2022, Organizer: IIT, Guwahati; Department of Science Technology and Climate Change & Department of Education, Govt. of Assam

- 2. BioTech Start-up Expo, Date: June 09-10, 2022, Venue: Pragati Maidan, New Delhi. Organized: BIRAC and the Department of Biotechnology to celebrate the 10th nniversary of BIRAC.
- 3. Entrepreneurship Development Program, Date: July 28, 2022, Organizers: College of Community Science, CAU, Tura, Meghalaya.
- 4. Exhibitor at *Kisan Mela 2022*, Date: September 02 & 03, 2022, Venue: NEHU Tura Campus, Organizers: Biotech KISAN Hub, NEHU, Tura Campus, Meghalaya.
- 5. Attended the *Meghalaya Buckwheat Global Showcase 2022*, Date: September 10, 2022. Venue: Institute of Hotel Management, Shillong, Organizers: Meghalaya Farmers (Empowerment) Commission (MFEC).
- 6. 4-Day Start-Up Conclave of the 8th International Science Festival (IISF-2022), Date: January 21-24, 2023. Venue: Maulana Azad National Institute of Technology, Bhopal. Organizers: Ministry of Science and Technology; Ministry of Earth Science; Government of India in association with Vijnana Bharati
- 7. Kickstart 2.0 Industrial Conclave 2022, Date: February 14-15, 2023, Venue: BioNEST, IIT Guwahati, Assam, Organizers: BioNEST, IIT Guwahati, Assam
- 8. *NE India Launchpad 2.0*, Date: February 21, 2023, Organized by KIIT TBI- BRTC
- 9. Exhibitor in *Start Up and Entrepreneurs Exhibition 2023*, Date: March 20-21, 2023, Organizers: Bio-Tech KISAN Hub, NEHU Tura held at NEHU, Tura Campus

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	Biotechnology Industry Research Assistance Council (BIRAC)	65.86

Other Activities/achievements

BIRAC's BioNEST Bio-Incubator (B3I) Facility, NEHU, Tura Campus has been recognised as Best Exhibitor in the *North East Research Conclave* 2022, organised by IIT, Guwahati; Department of Science Technology and Climate Change & Department of Education, Govt. of Assam during May 20-22, 2022 at IIT, Guwahati.

CAMPUS DEVELOPMENT DEPARTMENT

In-Charge, CDD: Prof. R. Subadar Telephone: +91 364 2722061

E-mail: cddue@nehu.ac.in

Detail of Works Pertaining to CDD during 2022-23

Name of Work	Allocated Amount (Rs. Lakhs)	Status
2	3	4
COMPLETED WORKS		
SHILLONG CAMPUS		
Works taken up from O.H 31-06 Recurring Expenditure: Civil & Electrical Maintenance for the year 2022-23	251.41 lakhs	Work completed
Total amount of work completed in Shillong Campus	251.41 Lakhs	
WORK IN PROGRESS		
(A) SHILLONG CAMPUS		
Work taken up from XII Plan Grant for Infrastructure Development	;	
Construction of 100 seated Women's hostel including warden's residence	804.14	Work outsourced to CPWD. Physical progress is 56%.
Construction of Academic Building for conducting M.Ed. programme	409.62	
TOTAL AMOUNT IN THIS HEAD	1213.76 Lakhs	3
Work taken up from Grant in aid Capital Assets/Campus Developm Lakhs.	ent for the year	2018-19 amounting to Rs 200
(1) Construction of Main Entrance of NEHU near Gate No-1	74.93	Physical progress 95%
TOTAL AMOUNT IN THIS HEAD	74.93	Lakhs
Work taken up from Grant in aid Capital Assets/Campus Developm Lakhs.	ent for the year	2021-22 amounting to Rs 225
Renovation works of Sohpetbneng and Chinlung Hostels at	225.00	Entire work has been outsourced
P/Campus, NEHU, Shillong.	227.007.11	to CPWD. Work is yet to start.
TOTAL AMOUNT IN THIS HEAD	225.00 Lakhs	
Work taken up from Grant in aid Capital Assets/Campus Developm Lakhs.		2022-23 amounting to Rs 100
Works are in proposal state	100.00	Work is yet to start.
TOTAL AMOUNT IN THIS HEAD	100.00 Lakhs	
(V) Work taken up from Grant in aid to North Eastern Hill University Development projects towards implementation of Economic the year 2023-24.		
SHILLONG AND DDU COMMUNITY COLLEGE WAHIAJER		WORK IN PROGRESS
(1) Cluster of Class Room for Sciences at Shillong campus	7780.00	All the work has been outsourced
(2) Cluster of Class Room for other than Sciences at Shillong campus		to CPWD, Shillong and the Grant of Rs 2223.004 lakhs received till
(3) Faculty Apartments for 12 units at Shillong campus		March'23 is also released to CPWD.
(4)96 seated Boys Hostel at Shillong campus		
(5)96 seated Girls Hostel at Shillong campus		
(6) 48 seated students hostel for DDU community college at Wahiajer, Jowai,		
TOTAL AMOUNT IN THIS HEAD	7780.00 Lakhs	3

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	Total amount of work in progress in Shillong Campus	9393.69 Lakhs	
	(B)TURA CAMPUS		
(I)	Work taken up from Grant in aid to North Eastern Hill University for Earmarked grant for infrastructure Development projects towards implementation of Economic weaker Section (EWS) Under Capital Assets for the year 2023-24.		
	(1) 96 seated Boys Hostel at Tura Campus	1053.00	Work is outsourced to CPWD, Guwahati. However, Grant against this project is yet to be released as and when available.
	Total amount of work outsourced to be taken up in Tura Campus	1053.00 Lakhs	

CAREER COUNSELLING CELL

Coordinator: Prof Goutam Saha Telephone: +91 364 272-3604/3607

E-mail:placement.nehu@gmail.com,

placement@nehu.ac.in

Background and Objective

Established in the year 2008, the Career & Counselling Cell, endeavours to provide the very best opportunities to NEHU graduates in terms of counselling 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. 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, who coordinate the different activities of the Cell. Job-oriented awareness and related workshops are being organized by the Cell regularly for the students of NEHU and affiliated colleges. Apart from hiring activities, the Cell organizes interactive sessions, special lectures, and seminars to prepare the students for a smooth transition to their professional lives and face the challenges of the corporate world. The Cell invites experts from the corporate organization for interactive sessions, lectures on soft skills, and giving away placement training to the students. 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.

Placement of the Students

Name of the Student(s)	Post Held	Place of Work
Ravi Prakash Srivastava (IT Department)	Software Engineer	C-DAC, Hyderabad
Sharmistha Roy (IT Department)	Software Engineer	C-DAC, Hyderabad
Sweety Kumari Singh (IT Department)	Software Engineer	C-DAC, Hyderabad
Gilbert Alexander Wahlang (Commerce Department)	Business Development Executive	The 10x Academy, Hyderabad
Diforland Wahlang (MBA Department)	Management Trainee	Kent Ro Systems Limited, UP
Neshit Kuri (Chemistry Department)	Quality Control	Dalmia Cement Bharat Ltd
Tipsngi Lucy Rymbai (Chemistry Department)	Quality Control	Dalmia Cement Bharat Ltd (East Jaintia Hills)
Lebinson Lyngdoh (Chemistry Department)	Quality Control	Dalmia Cement Bharat Ltd (East Jaintia Hills)
Prabijit Kutum (ECE Department)	Electronics & Instrumentation	Dalmia Cement Bharat Ltd (East Jaintia Hills)
Sambon Langshiang (ECE Department)	Electronics & Instrumentation	Dalmia Cement Bharat Ltd (East Jaintia Hills)
Biplab Newar (ECE Department)	Electronics & Instrumentation	Dalmia Cement Bharat Ltd (East Jaintia Hills)
Ymphaidien Surong (IT Department)	Electronics & Instrumentation	Dalmia Cement Bharat Ltd (East Jaintia Hills)
Seli Sinha (IT Department)	Software Engineer	Capgemini India, Kolkata
Prastuti Priyodarshini (IT Department)	Software Engineer	Capgemini India, Kolkata
Alicia Passah (IT Department)	Asst. Professor	GLA University, Mathura, UP

CAREER AND COUNSELLING CELL (TURA CAMPUS)

Officer-In-Charge: Prof. Abhigyan Bhattacharjee Telephone: +91 9435017519/ 7099005955

E-mail: pncnehutura@gmail.com

The Career and Counselling Cell (CCC) is also functioning on Tura Campus known as Placement & Counselling 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 undertaken during 2022-23

- 1. Organized Two Days' workshop on 'Export Promotion and Self Employment Avenues in Meghalaya, June 17-18, 2022, Sponsored by ICSSR-NERC, Shillong.
- 2. Organized one day Workshop on "Healthcare in the Northeast: The Current Status and the Road Ahead", June 14, 2022, in association with Guwahati Management Association.
- 3. Organized one week workshop on "Statistical and Research Methodologies with R for Social Scientists", March 13-18, 2023, in association with Indian Statistical Institute, Kolkata.
- 4. One (1) student Rohit Gupta from Department of Computer Applications, NEHU, Tura Campus was placed as Software Developer, at Edneed Technologies, Noida, India.
- 5. One (1) student Angelbert Riahtam from Department of Computer Applications, NEHU, Tura Campus was placed as Software Developer, at Lewduh Tech, Shillong.
- 6. Two (2) students, viz., Ayushman Duarah and Adnan Rahman from Department of Computer Applications, NEHU, Tura Campus was placed as Software Developer at Haaku Technology, Guwahati.
- 7. One (1) student Rose Ahmed from Department of Computer Applications, NEHU, Tura Campus was placed as Software Developer, at Flyerssoft Pvt. Ltd, Bangalore.
- 8. Five (5) students, viz., Rimonlang Shadap, J. Hazellica Shabong, Fairdardstone Lyngkhoi, Rynkatlang Ryngksai and Ebansius Synghli of Department of Management, NEHU, Tura Campus were placed as Assistant Managers at IDBI Bank.
- 9. One (1) student, viz., Diforland Wahlang of Department of Management, NEHU, Tura Campus were placed as a Management Trainee at Kent-RO.
- 10. One (1) student, viz., Diforland Wahlang of Department of Management, NEHU, Tura Campus were placed as a Customer Executive at Varun Beverages Ltd (North-East).

CENTRAL LIBRARY

Librarian: Dr. F.R. Sumer Telephone: +91 364 272 1251

E-mail: <u>librarian@nehu.ac.in</u>

Overview

The Central Library witnessed an increase in the availability of online resources during the period. The library now provides access to millions of electronic resources, including e-books, e-journals, and streaming audio and video, readily available to our students and faculty. The document scanning operations were augmented to provide digitized versions of our physical books, theses/dissertations and newspapers. Basic activities including instruction, research consultations, reference services and users' awareness programmes were enhanced to ensure that all members of our university's academic community have the resources they need.

A significant event during the period was the IASLIC 29th National Seminar held at the Multi-Use Convention Hall in the NEHU Campus, Shillong which commenced with the Inaugural Programme at 10:30 AM. The session was chaired by Prof. Prabha Shankar Shukla, Hon'ble Vice-Chancellor, NEHU while the event was graced by Dr. W.R. Kharlukhi, Hon'ble Member of Parliament (Rajya Sabha) as the Chief Guest. Prof. Sanjay Kumar Singh, Vice-President IASLIC Zone-5 and Shri. Abhijit Kumar, General Secretary IASLIC also shared the dais. Dr. F.R. Sumer, Organizing Secretary welcomed all present at the Inaugural Programme of the seminar. The Souvenir Volume and the Abstracts of the Seminar Papers were released during the session. Saplings were also planted by the dignitaries at the premises. The 2nd IASLIC General Body Meeting, convened alongside each national seminar, was held on 16th March 2022 in the seminar venue and the members deliberated on a host of issues confronting the library profession in India. The Valedictory Programme was held in the Multi-Use Convention Hall, NEHU Campus, Shillong. The programme was chaired by Prof. Pravakar Rath, Vice-Chancellor (Incharge), Mizoram University. Others on the dais included Prof. Narendra Lahkar, President IASLIC; Prof. Sanjay Kumar Singh, Vice -President IASLIC Zone 5; Dr. J.J. Thabah, Faculty Member, Department of Library & Information Science, NEHU; Dr. F.R. Sumer, University Librarian, NEHU and Organizing Secretary, and Dr. Tilak Hazarika, Rapporteur General.

Library Budget (2022-2023): ₹135 Lacs

Particulars	Rupees in lacs
Books	
Grants for Creation of Capital Assets OH-35: Books	34.00
Journals and Periodicals	
a) Grants for Creation of Capital Assets: Scientific journals, periodicals and E-	66.00
Resources including online databases	
Recurring: Grant in aid-Other expenditure OH-31.06: University Library	35.00
Total	135.00

Subscription to Academic Journals, Periodicals and Newspapers

1. Newspapers :13 2. Magazines. :15

Revenue Generated by the Library during the Year

1. Consultation fees : ₹2300.00

2. Fines from Books overdue (including Law Library): ₹49,159.00

Total. : ₹51,459.00

Library Collection: 298445 volumes

Particulars	Volumes
Economics, Management and Information Sciences	0038
Education	0010
Humanities	0111
Human and Environmental Sciences	0027
Life Sciences	0020
Physical Sciences	0022
Social Sciences	0029
Technology	0036
General & Computers	0003
Gifts and others	0227
Theses	0222
Data Bank (Government Publications and Reports)	0127
E-books	0296
Total books added during the period excluding Gifts, Theses & Databank documents	0592

New Membership Enrolment during the year (2022-23)

Particulars	Number
Undergraduate Students	0226
Postgraduate Students	1180
PhD Scholars	0161
University Teachers	0000
Non-Teaching Staff	0000
Visiting/Guest Professors/Lecturers	0026
Others (Including College Teachers)	0000
Total number of new members	1593

Usage of Books, Journals and e-resources

- 1. Average number of books issued/returned/renewed: 288 per day
- 2. Number of users who availed consultation services during the year: 96
- 3. NEHU's usage of E-ShodhSindhu Consortium eresources during 2022: 1,35,122 total full-text articles downloaded from 29 publishers/platforms.

Other Activities

Awareness/Orientation/Internship Programme for Students and Research Scholars

- 1. The 10th Library Internship Programme was conducted smoothly during 23rd March 27th May 2022 for 19 M.L.I.Sc. students (2019-2021 batch) of the Department of Library & Information Science, NEHU, Shillong. The programme was coordinated by Dr. Lalhmachhuana, Documentation Officer.
- 2. The 11th Library Internship Programme was conducted during 1st August 30th September 2022 for 25 M.L.I.Sc. students (2020-2022 batch) of the Department of Library & Information Science, NEHU, Shillong. The programme was

- coordinated by Dr. Lalhmachhuana, Documentation Officer.
- 3. The Library House-Keeping Operations (Job Diary) was conducted for the 2nd semester students of the Department of Library and Information Science, NEHU, Shillong during 05th May to 27th May 2022. The programme was coordinated by Shri. A. Blah, Assistant Librarian.
- 4. Library Orientation Programme was conducted for the first semester students and newly-enrolled research scholars of different departments of NEHU, Shillong during 8th to 16th December 2022 in the Conference Hall, Central Library, NEHU, Shillong
- 5. 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.remotexs.in/user/logi n).

- 6. 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
- 7. To facilitate online services for the subscribed edatabases 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.
- 8. The Documentation Section provided assistance to individual students, M.Phil. and PhD scholars and faculty members for accessing socio-economic data sources available on www.indiastat.com.
- 9. Awareness of the National Digital Repository for theses and dissertations, viz., Shodhganga and the use of Anti-Plagiarism Urkund software were conducted by the University Library with initiation of the Computer Unit. The Computer Unit supervised the submission of the soft copies of PhD theses awarded by NEHU to the INFLIBNET Centre, Gandhinagar and uploading in the Shodhganga National Digital Repository.
- 10. Access to online services for the subscribed edatabases and e-journals is provided through hyperlinks on the NEHU Library webpage (http://www.nehu.ac.in/library) for the convenience of the library members.

Subscription to e-books and Online Databases

The following online databases and e-journals collection were subscribed during the period: (a) IndiaStat (b) Scopus (c) CMIE databases viz. Economic Outlook, States of India & ProwessIQ, (d) Turnitin Solutions, (e) EPWRF India Time Series database, (f) Grammarly Edu (g) e-books published by Elsevier (98 titles), Taylor and Francis (67 titles) and Arts & Science Academic Publishers (104 titles)

Important Activities/Steps Accomplished towards Improvement of Library Services

- 1. 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.
- 2. A total of 13,312 pages of newspapers viz. The Shillong Times and U Nongsain Hima were digitized during the period and a total of 167 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

- 1. The Central Library, NEHU is one of the active members of UGC's Inter University Centre (IUC) viz. INFLIBNET Centre, Gandhinagar, Gujarat.
- 2. 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

Dr. F.R. Sumer

- 1. Delivered the following lectures as Resource Person for the various programmes conducted through Zoom platform by the UGC-Human Resource Development Centre, NEHU, Shillong:
- 2. Two lectures on 3/6/2022 during the 9th Faculty Induction Programme held from 30/5/2022 to 28/6/2022.
- 3. One lecture on 6/9/2022 during the Short-Term Course on Research Methodology for Social Sciences and Humanities held from 1/9/2022 to 7/9/2022.
- 4. Three lectures on 1/7/2022 and 6/7/2022 during the 10th Faculty Induction Programme held from 29/6/2022 to 28/7/2022.
- 5. One lecture on 30/11/2022 during the Workshop for Principals held from 29th 30th November, 2022.
- 6. Four lectures on 10/1/2023, 17/1/2023 and 18/1/2023 during the 11^{th} Faculty Induction Programme held from 10/1/2023 to 8/2/2023.
- 7. Two lectures on 15/2/2023 during the Short-Term Course in Research Methodology for Basic Sciences held from 14/02/2023 to 20/02/2023.

- 8. Two lectures on 2/3/2023 during the 12th Faculty Induction Programme held from 28/2/2023 to 29/3/2023.
- Organizing Secretary of the IASLIC 29th National Seminar organized by the Central Library, NEHU in collaboration with the Indian Association of Special Libraries and Information Centres (IASLIC), Kolkata during 15th - 17th March 2023 at the Multi-Use Convention Hall, NEHU Campus, Shillong.

10.

xtended expert advice during the period to Librarians of affiliated colleges and other institutions in Meghalaya and other states of the North Eastern Region on aspects related to library management, automation and delivery of online services.

Dr. Lalhmachhuana

- 1. Delivered the following lectures as Resource Person for the various programmes conducted through Zoom platform by the UGC-Human Resource Development Centre, NEHU, Shillong:
- a) Two lectures on 31/5/2022 during the 9th Faculty Induction Programme conducted from 30/5/2022 to 28/6/2022.
- b) Two lectures on 30/6/2022 during the 10th Faculty Induction Programme conducted from 29/6/2022 to 28/7/2022.
- c) One lecture on 2/9/2022 during the Short-Term Course in Research Methodology for Social Sciences and Humanities for College and University Teachers and Research Scholars conducted from 1/9/2022 to 7/9/2022.
- d) Two lectures on 11/1/2023 during the 11th Faculty Induction Programme conducted by the UGC Human Resource Development Centre, NEHU from 10/1/2023 to 8/2/2023.
- e) Two lectures on 17/2/2023 during the Short-Term Course in Research Methodology for Basic Sciences conducted from 14/2/2023 to 20/2/2023.
- 2. Coordinated and delivered lectures along with hands-on guidance during the 10th Library Internship Programme conducted for the M.L.I.Sc. students (2019-2021 batch) by the Central Library, NEHU from 23rd March 27th May 2022.
- 3. Presented a set of tutorial lectures and demonstrations for the "Library House-Keeping Operations (Job Diary)" paper for the 2nd Semester students of the Department of Library & Information Science, NEHU from 05th May to 27th May 2022.

- 4. Participated in the webinar on "Empowering Knowledge on Ethical Publishing: Mastering the Art of Identifying Predatory, Fake and Cloned Journals" organized by Elsevier on 8th June 2022.
- 5. Coordinated and delivered lectures along with hands-on guidance during the 11th Library Internship Programme conducted for the M.L.I.Sc. students (2020-2022 batch) by the Central Library, NEHU from 1st August 30th September 2022.
- 6. Convener of the Cultural, Publicity & Souvenir Subcommittee of the IASLIC 29th National Seminar organized by the Central Library, NEHU in collaboration with the Indian Association of Special Libraries and Information Centres (IASLIC), Kolkata during 15th 17th March 2023 at the Multi-Use Convention Hall, NEHU Campus, Shillong.

Dr. Manoj Rana

- 1. Invited as subject expert for the NEHU Inspection Team to NEIGRIHMS Library, Mawdiangdiang, Shillong, on 25th April 2022.
- 2. Completed a free online course in Django in Hindi from Great Learning Academy on 1st of June 2022.
- 3. Completed a free online course in Data Science Foundation from Great Learning Academy on 10th of June 2022.
- 4. Completed an Online UGC-Approved Short Term Professional Development Programme under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching on Implementation of NEP 2020 for University and College Teachers organised by IGNOU, New Delhi during 21st to 29th September 2022.
- 5. Coordinator of Library Orientation Programme from 8-16 December 2022 held in the Conference Hall, Central Library. NEHU for the first semester students and newly-enrolled research scholars of different departments of NEHU.
- 6. Convener of Reception, Decorations & Funds Generation Subcommittee for the IASLIC 29th National Seminar on Library and Information Centres in Digital India: Present Scenario and Future Strategies organized by the Central Library, North-Eastern Hill University, Shillong during 15th to 17th March 2023 at Multi-Purpose Convention Hall, NEHU, Shillong.
- 7. Delivered an online lecture as Resource Person for the one-day webinar on "NEP 2020: Scope and future for Open and Distance Learning" jointly organized by IGNOU Study Center 1811 and

- IGNOU Regional Centre Shillong on 30th May 2022.
- 8. Delivered a lecture as Resource Person on IPR, Plagiarism and Digital Property Right and Reference Management Software with practical hands on with Mendelay for the RUSA 2.0 Approved Short Term Course on Online Courses, E-Content Development, OER organised by UGC-Human Resource Development Centre, Gauhati University, Guwahati during 6th to 12th February 2023.
- 9. Delivered an online lecture as Resource Person for Open Educational Resources (OER) and Digital Libraries for the RUSA 2.0 Approved online Refresher Course on "Online Teaching Learning Courses, E-Content development, OER organised by UGC-Human Resource Development Centre, Guwahati University, Guwahati during 14th to 28th February 2023.

10.

resented a set of tutorial lectures and demonstrations for the "Library House-Keeping Operations (Job Diary)" paper for the 2nd Semester students of the Department of Library & Information Science, NEHU from 05th May to 27th May 2022.

11.

elivered lectures and hands-on guidance during the 10^{th} Library Internship Programme conducted for the M.L.I.Sc. students (2019-2021 batch) by the Central Library, NEHU from 23^{rd} March -27^{th} May 2022.

12.

elivered lectures and hands-on guidance during the 11th Library Internship Programme conducted for the M.L.I.Sc. students (2020-2022 batch) by the Central Library, NEHU from 1st August – 30th September 2022.

Shri J.P. Nongbri

- 1. Presented a set of tutorial lectures and demonstrations for the "Library House-Keeping Operations (Job Diary)" paper for the 2nd Semester students of the Department of Library & Information Science, NEHU from 05th May to 27th May 2022.
- 2. Delivered lectures and hands-on guidance during the 10th Library Internship Programme conducted for the M.L.I.Sc. students (2019-2021 batch) by the Central Library, NEHU from 23rd March 27th May 2022.

- 3. Delivered lectures and hands-on guidance during the 11th Library Internship Programme conducted for the M.L.I.Sc. students (2020-2022 batch) by the Central Library, NEHU from 1st August 30th September 2022.
- Convener of the Registration Subcommittee of the IASLIC 29th National Seminar organized by the Central Library, NEHU in collaboration with the Indian Association of Special Libraries and Information Centres (IASLIC), Kolkata during 15th 17th March 2023 at the Multi-Use Convention Hall, NEHU Campus, Shillong.

Shri A. Blah

- 1. Acted as Co-ordinator and presented a set of tutorial lectures and demonstrations for the "Library House-Keeping Operations (Job Diary)" paper for the 2nd Semester students of the Department of Library & Information Science, NEHU from 05th May to 27th May 2022.
- 2. Delivered lectures and hands-on guidance during the 10th Library Internship Programme conducted for the M.L.I.Sc. students (2019-2021 batch) by the Central Library, NEHU from 23rd March 27th May 2022.
- 3. Delivered lectures and hands-on guidance during the 11th Library Internship Programme conducted for the M.L.I.Sc. students (2020-2022Dbatch) by the Central Library, NEHU from 1st August 30th September 2022.
- 4. Convener of the Food, Refreshments& Funds Generation Subcommittee of the IASLIC 29th National Seminar organized by the Central Library, NEHU in collaboration with the Indian Association of Special Libraries and Information Centres (IASLIC), Kolkata during 15th 17th March 2023 at the Multi-Use Convention Hall, NEHU Campus, Shillong.

Dr. B. Sten

- 1. Delivered a set of tutorial lectures and demonstrations for the "Library House-Keeping Operations (Job Diary)" paper for the 2nd Semester students of the Department of Library & Information Science, NEHU from 05th May to 27th May 2022.
- 2. Extended hands-on training on Koha (ILS) software to the College Librarian of Christ College, Umeit, Ri Bhoi District at NEHU Central Library during 6th to 12th April 2022.
- 3. Extended hands-on training on Koha (ILS) software to the College Librarian of Synod College, Jaiaw, Shillong, at NEHU Central Library during 11th to 15th July 2022.

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- 4. Extended hands-on training on Koha (ILS) software to the College Librarian of William Carey University, Nongmynsong, Shillong, at NEHU Central Library during 24th 20th August 2022.
- 5. Extended hands-on training on Dspace Digital Library Software to the College Librarian of Shillong Commerce College, Laitumkhrah, Shillong at NEHU Central Library, Computer Unit during 15th to 30th March 2023.
- 6. Delivered lectures and hands-on guidance during the 10th Library Internship Programme conducted for the M.L.I.Sc. students (2019-2021 batch) by the Central Library, NEHU from 23rd March 27th May 2022.

Other Information

Central Library Sanctioned Staff Strength

Librarian. = 1

Deputy Librarian = 1 (vacant)

Assistant Librarian = 4 (1 post vacant)

Documentation Officer = 1 Information Scientist = 1

Other staff (Includes PA, SPA, JLA, Technical, Secretarial, MTS) =76 (54 posts vacant)

Achievement

Dr. F.R. Sumer on having relinquished the post of Deputy Librarian, NEHU assumed the post of the University Librarian, NEHU, Shillong on the 22nd December 2022.

- 7. Delivered lectures and hands-on guidance during the 11th Library Internship Programme conducted for the M.L.I.Sc. students (2020-2022 batch) by the Central Library, NEHU from 1st August 30th September 2022.
- 8. Convener of the Accommodation, Audio-Visual & IT Subcommittee of the IASLIC 29th National Seminar organized by the Central Library, NEHU in collaboration with the Indian Association of Special Libraries and Information Centres (IASLIC), Kolkata during 15th 17th March 2023 at the Multi-Use Convention Hall, NEHU Campus, Shillong.

CENTRAL LIBRARY (TURA CAMPUS)

Assistant Librarian: Dr. Angom Jeevan Singh, Telephone: +91 94021 96926

E-mail: <u>libtura@gmail.com</u>

Background and Objective

During 2022-2023, 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.

NEHU, Tura Campus Library is not only rendering services to its academic user communities but also providing Library services to the neighbouring colleges of Garo Hills district. NEHU Tura Campus Library always maintain 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.

Budget Allocation of Books & Periodicals 2022-2023 (Capital Budget): 13.90 lakhs

- i) Book Grant = Rs. 4.60 Lacs
- ii) Periodicals Subscription= Rs. 9.30 Lacs

Note: (For the financial year 2022-2023 the allocated budget amounting to Rs. 13.90 lakhs for purchase of books and renewal of journals were utilised in buying e-books which were processed from the Central Library, NEHU, Shillong).

1. Collection Development.

- a) Total Book collection upto 31.03.2023= **29661 Vols.**
- i) Books on Purchase = 28445 Vols.
- ii) Books on Gift= 816 Vols.
- b) Books Added during the year (2022-2023) = 01 Vols.
- i) Purchased Books = 00 Vols.
- ii) Gifted Books= 01 Vols.
- No. of Journals Subscribed (2022) = 67
- i) Indian Journals= 56
- ii) Foreign Journals= 11

2. Library Membership Statistics (Total member: 599)

- i) Students of 10 (Ten) PG Department = 507 Members
- ii) M.Phil. / Ph.D. Scholars= 26 Members
- iii) Faculty Members= 41 Members
- iv) Guest Lecturers= 07 Members
- v) Non-Teaching Staffs= 18 Members
- 3. Library Circulation Statistics During the Year
- i) Books Issued= 2595 Vols.
- ii) Books Returned= 2470 Vols.
- iii) Books Consulted= 12843 Vols.

4. Statistics of Technical and Library Automation Unit

- i) Books Classified (2022-2023) = 01 Vols.
- ii) Books Added in the Database & Barcoded= 01 Vols.

- 5. Statistics of Reprography Units (2022-2023)
- i) Total no. of Xerox Exposure Provided= 32819

6. Revenue Collected during 2022-2023

- i) Reprography Services= Rs.21734/-
- ii) Overdue Fine= Rs. 910/-

7. 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) Re-shelving of Reference books in the reference section.
- iii) Rectification of bay guides in all the sections and rearrangement of reference sections of the library.

8. 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/Outsourcing Staff (Daily wages): 12 Nos

COMPUTER CENTRE

Head: Professor L. Joyprakash Singh Telephone: +91 364 272 3751/272833

E-mail: hodcc@nehu.ac.in /

jplairen@nehu.ac.in

Faculty/Staff Profile

Designation	Name and Qualification	Specialization
	Dr. Lairenlakpam Joyprakash Singh,	Signal Processing and its
Head	M.Tech. (Tezpur Univ.), Ph.D. (Jadavpur	Applications
	Univ.) (Head w.e.f. 28/05/2020)	
Senior	Mr. P. P. Dey, B.Tech (REC Warangal),	Electronics and Communication
System	M.Tech (NEHU)	Engineering, Information
Analyst		Technology
	Mr. H. Kharshiing, B.Tech (Jawaharlal	Computer Science &
	Nehru Engg College)	Engineering, Information
System		Technology
Analyst	Mr. M. Kharjana, B.E. (Sardar Patel College	Computer Science &
	of Engg., Mumbai), M.Tech (NEHU)	Engineering, Information
		Technology
Computor	Mr. P. Kharlukhi, BCA (NEHU)	Computer Hardware &
Computer Operator	(Posted to Examination section w.e.f. Sept.	Networking
Орстатог	2016)	

Thrust Areas of Research

- 1. Providing a High-Performance Computing facility (24x7) to faculty members, research scholars, and students of the University.
- 2. Conducting short-term courses in computer-related subjects.
- 3. 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 utilise 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 (by Mr. P. P. Dey);
- 2. Java Programming (Mr. M. Kharjana)
- 3. Windows & MS Office (by Mr. H. Kharshiing)
- 4. Computer Hardware & Networking (Mr. P. Kharlukhi)
- c) The centre 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 regularly.

Infrastructure facilities

The infrastructural facilities in computer centre (listed below) are extensively used by the students and faculty members of the university for their teaching and research activities. The publication details of

the student/faculty members with these facilities are adequately mentioned in the respective departmental details.

- 1. High-Performance Cluster Computer: SULEKOR-Dell Cluster has been used 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 users for Fortran, Gromacs, and Gaussian primarily.
- 2. SULEKOR-HP High Performance Cluster Computer: SULEKOR-HP Cluster was reinstalled w.e.f. June 2016. It has been used 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.
- 3. 21 Nos. Desktop PCs (Linux): These are connected on a LAN and to the NEHU internet facility.
- 4. 31 Nos. Desktop PCs (Windows): These are also connected on a LAN and to the NEHU internet facility.

Other Activities

- 1. Computer Centre earned an amount of Rs.57,812/- during the period through its various activities.
- 2. Mr. P. P. Dey is deputed as the Nodal Officer, National Academic Depository (NAD), Academic Bank of Credit (ABC), RTI, Central University Portal (CUP) and Assistant Nodal Officer, CUET.
- 3. Mr. P. P. Dey is deputed as the Convener for the ongoing Azadi Ka Amrit Mahotsav Celebration at the University.
- 4. Mr. P. P. Dey is continuing as the Assistant Project Manager for the ongoing UMS automation.
- 5. Mr. H. Kharshiing is deputed as the Co-Nodal Officer for the ongoing implementation of the Samarth e-governance suite in the University.
- 6. Mr. H. Kharshiing, Mr. P. P. Dey, and Mr. P. Kharlukhi have been assisting the Examination Section, Administration Section, and Finance Section of NEHU in computer automation work.
- 7. Mr. H. Kharshiing and Mr. P. P. Dey are supporting the helpdesk to provide replies to any query from students seeking admission in the university.
- 8. Mr. P. P. Dey and Mr. M. Kharjana are deputed to Examination Section in addition to their regular duties in the Computer Centre.
- 9. Mr. M. Kharjana is deputed as the University Nodal Officer for All India Survey on Higher Education (AISHE).
- 10. Mr. M. Kharjana assists with the ongoing Azadi Ka Amrit Mahotsav Celebration at the University by managing its web portal.
- 11. The staff of the Computer Centre are engaged by the Finance Section, Examination Section, and College Development Council of NEHU as and when required.

DEEN DAYAL UPADHYAY COMMUNITY COLLEGE (JOWAI CAMPUS)

Principal (i/c): Prof. (Mrs) S.M. Sungoh Telephone: +91 9436307570

E-mail: nehudducc@gmail.com

Objective

With a broad objective to integrate the relevant skills into the higher education system in order to make the higher education relevant to the learner and community, the Centre runs a program of **Medical Laboratory Technology** (MLT) certificate course with the following details.

Faculty/Instructor: 2

Designation	Name and Qualification	Specialization
	Shri. Ganelson Nongphud, M.Sc. Medical, Saveetha	Medical
Faculty/	Medical College, Saveetha University, Chennai.	Microbiology
Instructor	Mrs. Wanda Lanong, M.Sc. MLT, Padmashree	Clinical
Ilisti uctoi	Institute, Rajiv Gandhi University of Health Sciences,	Biochemistry
	Bangalore.	-

Non-Teaching Staff: 6

Thrust Areas of Research

Anatomy and Physiology, Clinical Biochemistry, Immunology and Serology, Microbiology and Pathology.

Enrolment Capacity

Course	Male	Female	ST	State	Total
Certificate	6	47	53	Meghalaya	53

Certificate Awarded

Course	Male	Female	ST	State	Total
Certificate	01	19	19	Meghalaya	20

Placement of Students and Students Selected for Higher Studies

A total number of 6 students were placed as Laboratory Technicians in different hospitals and laboratories in the Shillong and Jowai. A number of 8 students were selected for Higher Studies

Other Activities/Programmes Conducted at the Centre

- 1. Conducted a programme on Mushroom Cultivation with a total of 81 participants on the 9th May 2022
- 2. Conducted a programme on The Birth Anniversary of (L) Pandit Deen Dayal Upadhyay on the 24th September 2022.
- 3. Conducted a programme on Essay Writing and Drawing Competition where 77 students participated in these programmes on 17th September 2022.
- 4. Conducted a programme in Sports: viz. Marathon race where 100 students from the locality of Waiajer participated after which a Football Match was also organised on 24th September 2022
- 5. Field work for MLT students was conducted on 4th November, 2022.

DESIGN INNOVATION CENTRE

Director: Prof. D. Syiem Telephone: +91 9863109538/ 364-272-2118

E-mail: <u>director.dic@nehu.ac.in/doc@nehu.ac.in/dsyiem@yahoo.com</u>

Background

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 member of the faculty.

Mission/ Work Performed at DIC NEHU

In the Hubs	In the Spokes
Dept. of Cultural & Creative Studies, NEHU	IIIT, Guwahati, Assam
Dept. of Architecture, NEHU	St. Anthony's College, Shillong
Dept. of Biomedical Engineering, NEHU	St. Mary's College, Shillong

Courses and collaboration

#	Name of the Institution/ University	Hub/ Spoke	Coordinators	Type of Courses
1	Dept. of Cultural and Creative Studies (DCCS), NEHU		Prof. Desmond Kharmawphlang	(i) Modelling and material behaviour(ii) Experimental mechanism (Interior/ Exterior)
2	Dept. of Architecture (DA), NEHU	Hubs	Mr. Banbhalang Swer	(i) Traditional product design proto typing(ii) Sustainable design component(Interior/ Exterior)
3	Dept. of Biomedical Engineering, NEHU		Dr. Manashjit Gogoi	(i)Biomedical Engineering and its application - Basic of anatomy & physiology excretory system, special organs, and endocrine glands. (ii)Biomedical instrumentation and signals - Microprocessor and microcontroller, biomechanics and rehabilitation engineering, nanomedicine and drug delivery, biosensor. (iii)Responsible conduct of research in biomedical engineering- Biomaterials, Biomedical product design, design for manufacturability, systems design, and analysis.

				(iv)Diagnostic and therapeutic equipment's for biomedical application - Biomedical safely and security, radiological and imaging equipment's
4	IIIT,	Spoke-	Dr. Ferdous	(i)Design of internet of things
	Guwahati	I	Ahmed	(ii)System on chip with internet of things
	(IIITG)		Barbhuiya	application
5	St. Anthony's	Spoke	Mr. Jacob L.	(i)Product design
	College	- II	Shylla	(ii)Protocol/Business model design
	(SAC),			
	Shillong			
6	St. Mary's	Spoke	Ms. Nirupama	(i)Culinary Art: Design and Innovation of
	College	- III	James	Indigenous and Traditional Food
	(SMC),			(ii)Innovation design of the domestic waste
	Shillong			management: A tool for health promotion

Major achievements

Since the inception, the centre is striving ahead to achieve new height of success. To run its functioning smoothly, the DIC was allocated a permanent space which is located at Center of Diversity, (NEICOD) building complex at NEHU campus. The space has adequate rooms to house the various labs proposed to be established under the extended DIC programmed.

Activities

➤ Workshop/Programs undertaken

- 1. The DIC hub has jointly organized a 3-day National Seminar/workshop on "Economics and Social Impact of Medical Devices on the healthcare Sector in the country" on the 28th -30th April 2022 at dept. of Biomedical Engineering, NEHU. About 71 participants were present in the workshop including faculty members, research scholars and students from Biomedical Engineering, NEHU and some from other departments from NEHU campus and Institutions like NEIGRIHMS and NEIAH. The sub-theme of the event focuses on "The Growth of Medical Devices in India- towards Atma Nirbhar Bharat".
- 2. An interactive session was conducted on 23rd May 2022 related to "Micro Small Scale Medium Industries" with the Ministry of MSME, Govt. of India at VC Conference room, Admn. Building, NEHU. There are about 30 participants attend the program including faculty, students, and start-up. The main aim of this program was to provide information to the faculty, student and entrepreneurs about the various activities and schemes under MSME and he also dwell at length on the IPR and related issues.
- 3. On 18th January 2023 the DIC had organized a brainstorming workshop on Augmented Reality, Virtual Reality, Mixed Reality etc., with resource persons and participants from local start-up, entrepreneurs, faculty from NEHU and resources person from the University of Melbourne, Australia and MIT, Meghalaya.
- 4. MoU: Listed are the Memorandum of Understanding which have been approved or proposed between DIC NEHU and a few Start up in the State:

#	Name of the firm	Address
1	<i>Turbit</i> -A private company established in the	Nongrimbah Road,
	year 2014 a registered society under the	Laitumkhrah, Meghalaya,
	Meghalaya Societies Registration Act	Shillong - 793003
	XII. Work in areas related to 3D printing, VR	C
	and allied technologies.	

2	SawaiomFresh & Allied Products - An established firm dealing with hydroponics & Aquaponics	Quetzal Villa, Upper New Colony, Laitumkhrah, East Khasi Hills, Shillong – 793003.
3	Bio Resources Development Centre (BRDC), under DBT, Govt. of India.	Office headquarters at Upper Shillong - 793009, Meghalaya
4	Déjame Creación: Involved in the production and manufacturing of various innovative products made from Polycarbonate, Acrylics, MDF, ACP, Metal, Wood and Epoxy Resin	Office at Dongshyiap, Mawlynrei Village, Meghalaya, 793006

IPR Activities (Patent, Design Registration, and copyright)

1. The DIC has supported the filing of one patent to Prof. R. N. Sharan, professor of Biochemistry Department, NEHU, and the former Director DIC. The patent is on "Bio monitoring device for detection and monitoring of cancer and a method thereof" which was awarded recently in July, 2022.

Other Activities

- 1. A total of 200 students were enrolled in DIC courses (Hub + Spoke institutions) during the year 2022-2023.
- 2. MoU signing Ceremony was held on the 5th September 2022 at Multiuse Conventional Hall, NEHU campus. The MoU signing ceremony building synergistic relations between NEHU and multiple institutions.
- 3. Participated at the 3rd ALL INDIA DIC MEET event which was held on 6th February, 2023 at Dr. Ambedkar International Centre (DAIC), Janpath, Windsor Place, New Delhi.
- 4. Fab. Lab facilities at NEHU Hub are being created.
- 5. Short term skilled certificate course has been put up for approval by the academic council to be run on a PPP Mode with our MoU partners. This program is proposed to carry out on a self-financing mode (revenue model).

EQUAL OPPORTUNITY CELL

Assistant Registrar: Georgina Umdor Telephone: +91 364-272 1087 E-mail: gumdor@nehu.ac.in

Background

The Cell deals with matters pertaining to implementation of Government of India Orders, UGC Guidelines and other instructions issued from time to time about reservation, etc. in co-ordination with Establishment-I & II Sections and Office of the Dean of Students' Welfare of the University.

Activities

As per the information collected by the Cell from the concerned Sections, the present position of SCs/STs, OBCs & PWDs at teaching, non-teaching levels and admission to various courses/degrees as on 31.03.2023, is as under:

(A) Teaching staff

	Name of the	Total Post	Total Post		In Position out of Total Filled					
	post	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

	Name of the post	Total Post	In Position out of Total Filled							
•	Name of the post	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 (2022-23)

	Course/Dogree Total Seats			In Position out of Total Filled						
	Course/Degree	Sanctioned	Filled	Gen.	OBC	SC	ST	PWD	EWS	Total
1.	UG	1532	1058	370	56	74	515	0	43	1058
2.	PG	2927	2927	403	10	28	2377	16	93	2927
3.	M.Phil	Variable	-	-	-	-	-	-	-	-
4.	Ph.D.	Variable	671	189	29	33	415	2	3	671
5.	Cert/Dip	Variable	163	17	8	4	134	0	0	163

HEALTH CENTRE

CMO & In-Charge: Dr. (Mrs.) C. Mukhim

Telephone: +9-364-272-1701/1709

E-mail: cmukhim@nehu.ac.in

Background and Objective

The NEHU Health Centre is catering to the health needs of teaching, non-teaching staff with their dependents and the students. Health Centre has 3 Medical Officers, 2 Nursing Officers on casual basis, 1 Regular Laboratory Technician, 1 Regular Pharmacist and 1 UDC at present. The other paramedical & MTS staffs are on casual basis.

Medical Officers are available for consultation during office hours as well as for emergencies. The consultation hours are daily between 9 am to 5 pm and on holidays and Saturdays from 10 am to 12 Noon.

Facilities and Activities

1. A total number of 9434 employees, their dependants and students attended the reception room for consulting doctors which includes 4691 Males and 4743 Females during 2022-2023.

Dressings, injections, IV drips are administered to patients at the Dressing Room. Minor surgical procedures are also performed. Some patients are kept in the observation room till they are stable.

- 2. There is a full-fledged Pharmacy and required medicines are procured through online tendering by the Central Purchase Committee and stored at the medical store. Medicines are then issued free of cost to the patients based on prescription by the Doctors.
- 3. Bio-Chemical and Clinical Pathology tests for blood and urine analysis are performed at the Medical Laboratory of the Health Centre by a qualified Laboratory Technician with the assistance of a Laboratory Assistant. During the year 2022-23, a total number of 1116 beneficiaries were attended for various tests that includes 633 Males and 483 Females. The detailed break-up is as follows:

	Type of test	Total Number	Male	Female
1	Biochemistry	308	175	133
2	Haematology	154	59	95
3	Urine R/E	22	10	12
4	Blood Grouping	33	15	18
5	Glucose Test	599	374	225

- 4. After the appointment of a Physiotherapist (MPT) on contractual basis in July 2016, physiotherapy has been made available at the Health Centre for the University community as well. During the year 2022-23 a total number of 1455 beneficiaries attended for Physiotherapy including 764 Males and 691 Females.
- 5. Ambulances along with 2 drivers are attached to the health Centre. The ambulances are provided for the transportation of sick patients from residences/hostels to clinic and hospitals.
- 6. Free medical camps like Bone Mineral Density, Blood Donation camps are being held at the health Centre. Free Covid 19 vaccination camps were also organised at the Health Centre since March'2021 till February'2023 and approximately 2800 beneficiaries have been vaccinated.
- 7. NEHU has credit billing facility available for patients admitted in Nazareth and KJP Hospitals in Shillong and CMC Hospital at Vellore. Patients requiring in-patient treatment are referred to the hospitals/specialists within Shillong and thereafter outside Shillong depending upon the necessity.

HINDI CELL

Hindi Officer: Sri Rajendra Kr Ram **Telephone:** +91 364 2721331/1332

E-mail: hindiofficer@nehu.ac.in

Objective

In pursuance of the Official Language Policy of the Government of India and to promote the Progressive use of Rajbhasha Hindi, the Hindi Cell was established in this University for the purpose. An Official Language Implementation Committee is constituted in the University for Proper Implementation of Rajbhasha Policy and to review the same from time to time.

Staffs Members in the Cell

1. Hindi Officer, 2. Translation Officer, 3. Hindi Typist, 4. M.T.S. (Peon)

Activities

- 1. To implement the Official Language Policy in this University, Translation of official letters/documents, conduct Hindi Training for the Regular Employees, Hindi Workshop for the employees, Quarterly OLIC meeting, Celebration of Hindi Divas/Fortnight/Matribhasha Divas, Translation of Annual Report, Audit Report, Audit Reply, Publication of Annual In-house magazine 'NEHU JYOTI' in Hindi etc.
- 2. The Departmental Official Language Implementation Committee held all the mandatory meetings in every quarter. The quarterly report regarding the Progressive use of Hindi regularly uploaded in the website of Ministry of Home Affairs, Govt. of India. Besides three Hindi Workshops were conducted for the employees of the University in the Shillong Campus.
- 3. During the year, a Hindi Training Programme for the regular employees of this University was conducted under the aegis of the Government of India, Hindi Teaching Scheme, Shillong Centre. After completion of different courses i.e., Prabodh, Praveen and Pragya, cash awards were given to the successful employees and after passing the last course i.e., Pragya, the successful employees were given one-year special increment as per the Government of India's order and guidelines.
- 4. During the period, the Hindi Cell observed Hindi Divas and Hindi Fortnight in Shillong Campus in the month of September, 2022 in which several Hindi programmes i.e., Hindi extempore speech, Hindi Solo Song, Hindi Essay Writing, Hindi Handwriting, Poem recitation, were conducted. The winners of the competitions were awarded cash prizes with Certificate on the valedictory function.
- 5. The Sub-Committee of Parliament on Official Language has Visited Shillong for inspection in the Month of September, 2022.
- 6. Hindi Cell has published the sixth edition of Hindi Magazine namely 'NEHU JYOTI'.

INCUBATION CENTRE

CEO/Head: Prof. Devesh Walia Telephone: +91 364 272 1150, 9436163641

l: <u>drdeveshwalia@gmail.com</u>; <u>hodgeology@nehu.ac.in</u>

Thrust Areas of Research

The focus areas are Agriculture; Biodiversity; Healthcare; Livelihood; Waste Management; Enabling Differently- abled; Disaster Related Issues and Construction, 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, etc.

Activities of the Centre

- 1. The Governing Council comprising of 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 Prof. P. S. Shukla met to discuss the functioning of the Incubation Centre.
- 2. 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. The Executive Committee met during the year on account of discussing various issues to build the entrepreneurship ecosystem in the university.
- 3. A representative team of IC-NEHU has visited the start-ups, budding entrepreneurs and Prime hub for the collaboration and coordination between them for undertaking various activities in the interest of the students.
- 4. Impact Lecture and Experience Sharing on Innovation, Communities and Decentralized future (Web3.0): Lectures delivered by Mr. Jonathan Pereira, Developer Relations at Polygon, Mr. Akash Shukla, Developer Relations Lead at Polygon and Mr. Govind Pandey, Senior Manager, Amazon India on 22nd April 2022, at Social Science Cluster Classroom No.103, North-Eastern Hill University, Shillong. More than 70 participants participated in the program.
- 5. **Impact Lecture series 2022 on Importance of Intellectual Property Right (IPR):** Lecture delivered by Dr. Partha Pratim Medhi, Advocate, Gauhati High Court, on 13th July 2022 at Multi- use Convention Hall, North-Eastern Hill University, Shillong. More than 100 participants participated in the program.
- 6. **Institution's Innovation Council Regional meet 2022**: Held at Royal Global University, Guwahati on 4th August 2022 organized by MoE's Innovation Cell, New Delhi. NEHU secured the best creative poster on Institute's Innovation & Entrepreneurship Journey.
- a. Certificate of Appreciation was presented to Prof. Devesh Walia, CEO, Incubation Centre, NEHU, for his valuable contribution as Session Chair for Track 3: Knowledge Sharing Session on Benchmarking, Measuring I&E Ecosystem in HEIs and Impact Creation.
- b. The team representing the NEHU Incubation Centre acquires special recognition due to their participation in all the activities during the IIC Regional meet.

INCUBATION CENTRE (TURA CAMPUS)

Nodal Officer: Dr. R. Sasikumar Telephone: +91 9863068311

Mail: incubationcenternehutura@gmail.com

Staff Profile

Designation	Name and Qualification	Specialization
Nodal Officer	Dr. R. Sasikumar, Ph.D. (TU)	Food Engineering and Technology
Program		
Officer	Dr. I. Barun Mangang Ph.D (NIFTEM-T)	Food Science and Technology
Technical Assistant	Mr. Thounaojam Puthiba Meetai, BSc in Applied Science	Applied Sciences

Background and Objective

Established during 2020, the aim of the incubation centre at NEHU Tura campus is to set up business incubators so that eligible youth can be adequately incubated in various skills and be provided the opportunity to set up their own business enterprises. The NEHU Incubation Centre intends to provide mentorship, knowledge networks, market access, and financial support for entrepreneurial start-ups in selected focus areas like Agriculture, Food Processing, Biodiversity, Healthcare, and Livelihood improvement of Tribal community of Meghalaya as wells North-Eastern Region too.

Mission and Vision

Activities

- 1. To mentor appropriate technology through NEHU LBI
- 2. To facilitate credit and market linkage to new and existing entrepreneurs
- 3. To offer market intelligent and pricing for domestic and export oriented
- 4. To facilitate transfer technology protocol (TTP) to interested entrepreneurs of rural youths,
- 5. To offer regress training and capacity building for viable process.

Overall, the primary focus of this centre is on Livelihood Improvement, Entrepreneurship development, Start-up creation, Technology upgradation, Micro and small-scale enterprise development for local youths.

1. The incubation centre NEHU Tura Campus conducted the following courses during 2022 to 2023

Category	Male	Female	Total
1. No. of beneficiaries admitted	190	260	450
2. No. of beneficiaries trained	150	200	350
3. No. of incubatees incubated in the LBI	70	80	150
4. No. of incubatees self-employed	60	40	100
5. No. of incubatees placed in nearby industries	20	30	50
6. No. of trainees availed benefit from PMEGP,	Nil	Nil	Nil
MUDRA, others			
7. No. of micro-enterprises established	1	Nil	1
8. No. of workshops/ Training conducted to provide	5	Nil	5
incubation support services			
9. No. of incubatees in others (higher studies, etc.)	Nil	Nil	Nil

Achievements

Infrastructure facility created

Established Piggery unit- 20 units

Established Kroiler unit-10 units

Established Sericulture unit-150 units

Established Fish culture and production 10 units

Established Agro processing unit-10 units in Meghalaya

Established Apiculture 150 units in Meghalaya

Layout plan and setting up Food Testing Laboratory (2500 Sq. Ft.)

Layout Plan, setting up, and commercial run of 3 processing plants (7500 Sq. Ft.).

Technology Developed

Name: Livelihood improvement programmes (Agro-based livelihood activities)

Features

To encourage farmers and unemployed youth into income earning through smallscale agro based livelihood activities

Potential

Large numbers of unemployed youths

Large gap between demand and supply daily needs of agro-based commodities in the state 98% of the total state population are consuming (pork, chicken, fish, silk pupa andits value added products)

Expected benefit over conventional technology

- Eco-friendly culture system.
- It reduces environmental impact.
- Improves land and water use efficiency
- Limited or zero water exchange

Target group/geographical region

Rural youths, Farm women, Farmers etc. (Meghalaya).

Year of technology demonstrated: 2022-2023

Adoption rate (among target group/region)

In the Meghalaya (Khasi, Garo and Jaintia Hill regions) the adoption rate is 92%.

Skill development training

Topic: Livelihood Improvement Programme in Agro-based sectors, Tribal Community of Meghalaya.

Duration: 5 skill development training, each training had 3- and 5-days duration in different time period from 2022 to 2023.

INTERNAL COMPLAINTS COMMITTEE (ICC)

Chairperson: Prof S.M. Sungoh Telephone: +91 364-223344, 9436307570

E-mail: iccnehu@nehu.ac.in

Background

The Internal Complaints Committee (ICC) was formed according to the provisions of "The Sexual Harassment of Women" at Workplace Act, 2013. This Act seeks to provide protection against harassment of women at the workplace including prevention and redressal of complaints of sexual harassment. The ICC of NEHU was adopted in 2018 as an obligation under the Act and is committed to providing a safe environment to students and women employees.

Vision

We envision a safe environment and protection against sexual harassment of women at NEHU and for redressal of complaints of sexual harassment and to ensure gender equality in NEHU

Mission

- 1. To provide safe workplace.
- 2. To develop a policy against sexual harassment for women at NEHU.
- 3. To ensure the implementation of the policy in letter and spirit through proper reporting of the complaints and their follow-up procedures.

Objectives

The Committee seeks to ensure fulfilment of the following objectives:

- To foster a safe and secure environment for protection of women from any act of sexual harassment at the workplace;
- 2. To implement a policy for prevention of sexual harassment at the workplace;
- 3. To devise a redressal mechanism for complaints relating to sexual harassment at the workplace;
- 4. To raise awareness about sexual harassment and other gender-related issues. 4. To uphold the commitment of the Institute to provide an environment free of gender-based discrimination.

- To promote a social and psychological environment to raise awareness on sexual harassment in its various forms.
- 6. To create a secure physical and social environment to deter any act of sexual harassment.
- 7. To evolve a permanent mechanism for the prevention and redressal of sexual harassment cases and other acts of gender-based violence at NEHU.

Activities Organized by ICC, NEHU, Shillong (2022-23)

- 1. Organization of motivational talk for Women Empowerment on International Women's Day, March 10, 2022. Prof Badaplin War and Prof. S.M. Sungoh were the resource persons for this programme.
- 2. Facilitated Prof Badaplin War for Achieving the Padma Shri 2022- Literature and Education Award on March 10, 2023.
- 3. Display of Banners and posters at prominent places in NEHU Campus during February-March 2022.
- 4. Organized awareness programs on Sexual Harassment for Non-teaching staff and Casual Workers, of North-Eastern Hill University, Shillong on March 10, 2022. The resource persons for these awareness programmes were Smti Kerpa M.Lyngdoh, Director, Meghalaya State Judicial Academy; Smti. Roshni Subba, Chairperson, SEED foundation, Meghalaya, and Prof Lucy Zehol, NEHU, Shillong, Dr. Firstborn Sumer, Librarian, NEHU, Shillong, Dr Vandana, NEHU, Shillong and Prof S.M. Sungoh, NEHU, Shillong.
- 5. Organized an awareness program on Sexual Harassment for post-graduate students of North-Eastern Hill University, Shillong on March 14, 2022. The resource persons for these awareness programmes were Smti Kerpa M.Lyngdoh, Director, Meghalaya State Judicial Academy; Smti. Roshni Subba, Chairperson, SEED foundation, Meghalaya, and Prof Lucy Zehol, NEHU, Shillong, Dr. Firstborn Sumer, Librarian, NEHU, Shillong, Dr Vandana, NEHU, Shillong and Prof S.M. Sungoh, NEHU, Shillong.
- 6. Organized Sports competition for Women from 21-23 March, 2023 to celebrate the International Women's Week for Empowering Women Through Sports, the details of which is given below.

Sl. No.	Name of Sports/Events Conducted	Number of Participants	Report
01	A. Badminton	60	The Sports Department of the North-Eastern Hill
			University, Shillong, Meghalaya in collaboration with
	B. Table Tennis		the Internal Complaint Committee of the University
			has organized 10 Ka Dum Badminton & Table Tennis

	1	1	4 ** , , , , , , , , , , , , , , , , , ,
			at the University Indoor Stadium, NEHU Permanent Campus, Shillong on the 21 st of March 2023. Women participants from the UG, PG and Research Scholars took part in the events
02	C. Basketball	60	The Sports Department of the North-Eastern Hill University, Shillong, Meghalaya in collaboration with the Internal Complaint Committee of the University has organized 10 Ka Dum Basketball at the University Basketball Courts, NEHU Permanent Campus, Shillong on the 22 nd of March 2023. Women participants from the UG, PG and Research Scholars and Teaching and Non-Teaching women staff were taking part in the events
03	D. VolleyballE. Tug of WarF. Cricket	140	The Sports Department of the North-Eastern Hill University, Shillong, Meghalaya in collaboration with the Internal Complaint Committee of the University has organized 10 Ka Du Volleyball, Tug of War & Cricket at the Chinlung Hostel Volleyball Court, University Multi-Purpose Ground, NEHU Permanent Campus, Shillong on the 23 rd of March 2023. Women participants from the UG, PG and Research Scholars and Teaching and Non-Teaching women staff were taking part in the events
04	G. Football H. Athletics	160	The Sports Department of the North-Eastern Hill University, Shillong, Meghalaya in collaboration with the Internal Complaint Committee of the University has organized 10 Ka Dum Football & Athletics at the Sports Authority of India Turf Football Ground & SAI Synthetic Athletics Track, NEHU Permanent Campus, Shillong on the 23 rd of March 2023. Women participants from the UG, PG, Research Scholars, Teaching and Non-Teaching women staff and women students of the SAI, STC, Shillong were taking part in the events

ICC Tura Campus

Internal Complaint Committee (ICC) wing Tura Campus has been re-constituted on 10/06/2023. Dr.Fameline K.Marak is presently serving as the presiding officer of the committee.

INTELLECTUAL PROPERTY RIGHTS CELL

Coordinator: Dr A. K. Singh

Telephone: +91 9436307530
E-mail: iprcellnehu@gmail.com

Background and Objective

Established in the year 2022, the primary objective of the Cell is to extend initiatives for spreading the awareness about the Intellectual Property Rights among the academicians, scholars, and students. The vision of the Cell to develop human resource in the management of intellectual property Rights as integral part of the innovation process in the University.

Activities

The Cell is gradually building IPR consciousness, and did various **activities** as organized various IPR awareness programme and implementation programmes in the University which are as follows:

- 1. The Cell organized IPR Awareness Programme on 26th April 2022 where Prof. H.S. Chawla former Dean, G.B. Pant University, Pant Nagar Uttarakhand and Shri NIlesh Trivedi, Assistant Director, MSME were the keynote speaker.
- 2. The Cell successfully organized the awareness programme on October 10, 2022 in association with RGNIIPM, Nagpur. Where Shri Pankaj Kumar and Dr Nalanda were the resource persons.
- 3. The Cell organised one day National Seminar on 25th February,2023 on "Competition Law and Practice" in collaboration with Competition Commission of India where Dr Rakesh Kumar, Member, Competition Commission of India and Dr Anil Kumar, Deputy Director, Competition Commission of India were the Speakers.
- 4. The Cell organised a two-day National Seminar on "Intellectual Property Rights; Emerging Trends and Challenges" on 13-14 March,2023 with a funding or Rs. 1,93,557.00 from NEHU. The Keynote speakers were, H.S. Chawla former Dean, G.B. Pant University, Pant Nagar Uttarakhand, Dr Rajnish Kumar Singh, Faculty of Law, Banaras Hindu University (BHU), Dr Digvijay Singh, Faculty of Law, Central University, South Bihar Gaya, Dr Pankaj Kumar, National Law University and Judicial Academy, Assam and Shri Binod Prasad, Patent Attorney.

Apart from the above, Dr A. K. Singh, Coordinator, IPR Cell, NEHU submitted the proposal to the Ministry of MSME on 23-06-2022 to recognize NEHU, Shillong as Host Institute (HI) as it can provide space, equipment, laboratory, and other supports incubate for nurture the ideas to flourish the business activities. Accordingly, NEHU, Shillong received the recognition as Host Institute (HI) on 30-09-2022 for implementation of the incubation component. Under this MSME new innovative scheme 23 Ideas have been submitted to MSME through the Cell which are under the scrutiny.

Besides, the Cell is going to apply MSME for the recognition of the Intellectual Property Facilitation Centre (IPFC).

INTERNAL QUALITY ASSURANCE CELL

Director: Prof. A. S. Dixit none: +91 364-272-1070/1080; l: directoriqac@nehu.ac.in

Background

The IQAC, NEHU is meant for planning, guiding, and monitoring 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.

Activities

The IQAC NEHU has done following activities to achieve the above goals in the Academic year 2022-23

- 1. 8th IQAC Meeting was convened on 25th March, 2022. The AQAR report for the academic years 2020-21 were placed before the members for consideration based on the New AQAR Format devised by NAAC, Bengaluru, in the meeting. After a threadbare discussion the Annual Quality Assurance Report (AQAR) of 2020-21 has been passed and submitted to NAAC, Bengaluru and uploaded in the NEHU website.
- 2. Several applications received from faculty members for their promotions under 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.
- 3. The Vice-Chancellor, NEHU has constituted a committee for preparation and submission of NEHU's application for NAAC assessment in the 4th Cycle. The 1st Meeting of the Committee constituted was held on 24th May, 2022 for preparation and submission of NEHU's application for NAAC assessment in the 4th Cycle. The committee had a series of meetings in which the roadmap for the NAAC application process was prepared and the work is in progress.
- 4. The applications received through the University advertisements for various teaching position have been screened for the interview.

MOOCS CELL

Chairman, MOOCs Technical Committee

Prof. Shailendra Kumar Singh

Telephone: +91 98632 79254

E-mail: sksingh@nehu.ac.in

In-Charge, MOOCs recording studio::Dr. Snehadrinarayan Khatua

Vision

- 1. To build up MOOCs as a viable model of pedagogy of the University to impart Education, involving Enhanced Information and Communication Technology (EICT).
- 2. To rise up as one of the premium institutions of the country, binding Online and Offline Learning and Teaching opportunities.

Mission

- 1. To adopt MOOCs through UGC-SWAYAM platform and to make online courses available for the students of the University.
- 2. To develop infrastructural facilities in the university campus for effective implementation of online courses.
- 3. To bring relevant Ordinances, Rules, Regulations, etc for effective promotion and implementation of online courses.
- 4. To create awareness amongst faculty members and students of the university about MOOCs.
- 5. To facilitate faculty members and e-content developers to develop quality MOOCs through capacity building programs.
- 6. To diversify pedagogical activities for disseminating indigenous and diversified knowledge through enhanced-technology of teaching and learning and, to enhance the potential of North-East Studies all over the world through ICT.
- 7. To seek funding collaboration from different public and private funding institutions and agencies for developing, promoting, and implementing online courses.
- 8. To promote National and International collaboration for developing online courses.
- 9. To provide global visibility, binding online and offline education together.

Achievement

- 1. The 2nd workshop titled "One day national workshop on development of MOOCs" was organized on 1st September 2022 in the cluster classroom, NEHU.
- 2. Department SWYAM Mentors (DSMs) of the university was appointed by Hon'ble Vice-Chancellor to facilitate and coordinate the following: (a) Registration of students to MOOCs; (b) To handhold the students for taking of the courses; (c) To guide a student throughout the courses; and, (d) To facilitate and conduct laboratory/practical session/examination etc and to coordinate with USC.
- 3. Under the initiative of the MOOCs local chapter, two state of the art Recording studios were developed and series of lectures are recorded. The lectures are to be uploaded in the NEHU website and in social media. Two MOOC courses titled "SWAYAM central: A guide to Online Courses for Students and Faculties of Higher Education" and "Preparing e-Content in Light of NEP 2020" for Submission of Proposal to SWAYAM MOOCs were prepared by Dr. Quendarisa Kharbuli, UGC-HRDCr, NEHU uploaded in the NEHU YouTube channel.

NATIONAL SERVICE SCHEME CELL

Programme Coordinator:

Dr. Marbhador M. Khymdeit

The National Service Scheme (NSS) of Government of India envisages to utilize the free of Higher Secondary School/Colleges/University students for socially productive works. 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 are divided into Regular Activities and Special Camping. The volunteer strength has increased to 16000 comprising volunteers from 2 P.G. units, 51 colleges and 1 Medical institutes with 108 NSS Programme Officers.

Activities

1. Review Meeting

- a) Programme Coordinator, NSS Cell attended the State Advisory Committee meeting of the NSS at the Conference Hall, Main Secretariat, on 12th July 2022.
- b) Programme Organiser attended a Joint Action Plan (JAP) meeting on *Prevention of Substance Abuse among Children and Illicit Trafficking* which was held on the 29th July 2022 at the Directorate of Social Welfare Conference Hall and organized by the Meghalaya State Commission for protection of child rights.

2. Blood Donation

- a) A voluntary *blood donation camp* was organized by the NSS Unit, Loyola College, Williamnagar at the college campus on 27th April, 2022. 15 donors donated blood.
- b) NSS unit of BBS College, Shillong organized a *voluntary blood donation camp* on 10th May 2022 at the college campus in collaboration with Pasteur Institute and Meghalaya AIDS Control Society. 26 donors donated blood.
- c) The unit of Jaintia Eastern College, Khliehriat and Don Bosco College, Tura also organized an *awareness /motivational talk* on voluntary blood donation followed by *pledge taking* to observe World Blood Donor Day on 14th June 2022 at their respective institutions.

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- d) The NSS unit NEHU, Shillong organized an *awareness/motivational talk* on voluntary blood donation on 10 June 2022 at NEHU campus, Shillong in collaboration with Nazareth Hospital, Shillong. A *Pledge Taking* for blood donation was also held. This was followed by a *Voluntary Blood Donation Camp* on 17th June 2022 wherein 43 volunteers, students and faculty of NEHU donated blood.
- e) NSS, Shillong Commerce College in collaboration with Regional Blood Bank, Pasteur Institute & MACS organised a *Blood Donation Camp* on 26th August 2022. 34 donors donated blood. Awareness talk was conducted before the camp.
- f) Mawlai Presbyterian College organised a *Blood Donation Drive* in the College premises on the 2nd September. An awareness programme was given by doctors from the Regional Blood Bank Pasteur Institute before blood collection. The Blood Donation Drive was carried out with the cooperation of the Youth Wing of the Mawlai Presbyterian Church in collaboration with the Pasteurs Institute along with the Youth Red Ribbon Club of the College. Blood Collection carried out saw the registration of over 30 people for Voluntary Blood Donation.
- g) Blood Donation camp in BBS college, Shillong. 5th September 2022 in collaboration with Regional Blood Bank, Pasteur Institute & MACS. 20 NSS Volunteers donated blood.
- h) Awareness programme on Blood Donation and HIV/AIDS organised by NSS Unit Shillong College on the 14th September 2022 in the college auditorium.
- i) *Blood donation camp* organised by NSS Unit Shillong College on the 14th September 2022 in the college campus.
- j) Blood donation camp was organized by NSS unit of Lady Keane College, Shillong on 21st March 2023 at the college campus in collaboration with Pasteur Institute.

3. Republic Day Parade Camp

- a) A *selection camp* for the Pre republic Day Parade camp was conducted at NEHU on 12th October 2022. 50 volunteers from NEHU, ICFAI and William Carey University participated. Shri. Dipak Kumar, Regional Director, NSS, Guwahati attended as resource person.
- b) 8 NSS Volunteers from different institutions participated in the *East Zone Pre Republic Day Parade Camp* 2022 held at Kalyani University, Nadia from 16th 25th November 2022.

4. Workshops/ Trainings/Orientations/Seminars

- a) NSS unit, NEHU, Shillong organized an *orientation programme* for the newly enroll NSS volunteers at NEHU campus on 6th May 2022. Around 300 volunteers enrolled.
- b) 2 NSS volunteers of NSS unit NEHU, Shillong attended an online workshop from 8th 10th June on Disaster Management organized by Rajiv Gandhi National Institute of Youth Development (RGNIYD), Sriperumbudur.
- c) Programme Organiser attended an online meet on *Digilocker* on 8th July 2022.
- d) Volunteers from different institutions attended a *Webinar* on *Data Privacy & Social Media Safety* on 16th July 2022.
- e) Programme Organiser, NSS Cell, NEHU attended as Resource Person to conduct the *Orientation Programme* for the newly enrolled students of NSS Unit, Lady Keane College, Shillong on 18th August 2022 at the college auditorium. 260 students attended the programme.
- "Out of School Awareness A two day Programme" on the theme "Drug and Alcohol Abuse, HIV-AIDS Awareness, Teenage Pregnancy and Career Guidance" organized by NSS unit, Don Bosco College, Tura in collaboration with Meghalaya AIDS Control Society (MACS) and another programme was organized collaboration with Internal Assurance Cell (IQAC), Red Ribbon Club (RRC), National Service Scheme (NSS) and Alumni Association of the Don Bosco College was held at the college campus and St. James U. P. School, Akimdora (Sampalgre) and Mother Angeles Secondary School, Jangga on 21st and 22nd August 2022.
- g) Training program for NSS Volunteers, St. Edmund's College, in "Composting for Waste Management" on 1st September, 2022.
- h) Awareness programme on *Blood Donation* and HIV/AIDS organised by NSS Unit Shillong College on the 14th September 2022 in the college auditorium.

- i) Programme Officer Representing Lady Keane College for *Orientation Course* for Programme Officers NSS from 14th 20th September, 2022 Organised by Indian Institute of Entrepreneurship.
- j) Orientation Programme for newly inducted NSS Volunteers of Lady Keane College and Pledge taking to observe Rashtriya Poshan Maah was held on the 15th and 16th September 2022 in the college campus.
- k) NSS P. G. Unit NEHU Tura organized a workshop on "Design Your Future". At the campus on 22nd September 2022. Mr. Vincent Singh of EDvantage, Prof. Sujata Gurudev, the Campus-in-Charge, Prof. Abhigyan Bhattacharjee, Placement Coordinator, and Dr. Deepak Bhagat, Profgramme Officer, from NEHU Tura spoke on the occasion.
- Volunteers of NSS unit, Ri-Bhoi College, Nongpoh participated at the 12 days training under Aapda Mitra Scheme organised by the office opf the District Disaster Management Authority at SIRD, Nongsder from 19th September to 1st October 2022.
- m) A lecture on Awareness about *Medical Ethics and Etiquettes* under transitional curriculum program 2023 was delivered by Programme Officer, NSS unit NEIAH for the newly admitted students of 1st Year BAMS on 24th February 2023.
- n) Awareness programme with people of Siejiong village on the occasion of International Women's Day on 4th March 2023.
- o) The NSS unit of Ri-Bhoi College, Nongpoh organized a *Digital Awareness Week* from 6th 10th March 2023 at the college campus.
- p) A webinar on "Burden of Tuberculosis" in Meghalaya was organized by NSS unit NEIAH on 14th March 2023 at the campus.
- q) The NSS unit of St. Mary's College, Shillong attended the online orientation session on *P2E* project Each One Help One EOHO on 25th March 2023.
- r) A Career Guidance Programme on civil Service as a career option was organized by the Department of political Science.
- s) A one-day programme State Level Workshop on "21st Century Skills with special emphasis on learning skill and life skill" organized by the Department of Education, St. Mary's College in collaboration with NSS unit, St. Mary's college, Shillong on 29th March 2023 at the college campus.

5. NSS Day

NSS Cell, North-Eastern Hill University celebrated 53rd NSS Foundation at NEHU, Shillong on 24th September 2022. Dr. W. R. Kharlukhi, the Hon'ble Member of Parliament, Rajya Sabha attended as Chief Guest. University Level Awards for Best Unit, Best Programme Officer and Best Volunteers were conferred. More than 1000 NSS volunteers and Programme Officers attended the programme.

6. Environmental Programmes

- a) The NSS Unit of Tura Government College organized a *cleaning drive* on 26th April 2022 at William Point, Hawakhana, Tura. More than 50 NSS volunteers participated.
- b) NSS unit UCC conducted *awareness cum cleaning drive* at Umiam Lakeside in the adopted village (Mawlyndep) on 6th May 2022.
- c) NSS unit of Umshyrpi College conducted *cleaning/beautification* drive at Laban area in collaboration with the Dorbar Shnong Laban on 10th May 2022.
- d) The NSS unit, NEHU, Shillong organized a *cleaning drive* at the campus on 20th May 2022. More than 200 NSS volunteers participated.
- e) The NSS unit NEHU, Shillong organized a *plantation programme* at Golf Course, Shillong in collaboration with Social Forestry Department, Government of Meghalaya, East Khasi Hills on 3rd June 2022 to observe *World Environment Day*. 240 NSS volunteers participated and about 100 saplings of *flowering shrubs* were planted as part of beautification programme.
- f) Various other institutions also conducting cleaning and plantation drives at their respective college campus and adopted villages. Besides this, awareness talks and poster campaign were also organized.
- g) The NSS unit, Ri-Bhoi College, Nongpoh, organized a tree *plantation/cleaning* of the roadside and distribution of saplings of wild edible fruit trees having medicinal properties at the adopted village (Umskun, Ri-Bhoi) on 26th and 27th July 2022. More than 200 volunteers participated.
- h) Observation of *Swachhta Pakhwada* jointly organised by Dean Students' Welfare, NEHU and NSS Cell, NEHU on 9th September 2022 at NEHU Campus (School of Education and School of economics, Management and Information Sciences).
- i) Observation of Swachhta Pakhwada jointly organised by Dean Students' Welfare, NEHU and NSS Cell, NEHU on 13th September 2022 at

- NEHU Campus (School of Life Sciences and School of Physical Sciences)
- j) Observation of Swachhta Pakhwada jointly organised by Dean Students' Welfare, NEHU and NSS Cell, NEHU on 14th September 2022 at NEHU Campus (School of technology)
- k) Observation of *Swachhta Pakhwada* jointly organised by Dean Students' Welfare, NEHU and NSS Cell, NEHU on 15th September 2022 at NEHU Campus (School of Human & Environmental Sciences and School of Humanities)
- Cleaning Drive at the adopted village and workshop on Plastic Waste Management as part of Swachhta Pakhwada organized by NSS Unit Mairang Presbyterian Science College on 16th September 2022.
- m) NSS Volunteers and Programme Officers of NEIAH participating in *Campus cleaning drive* as part of swacchta Pakhwada on 17/09/2022.
- n) Medicinal Plants under *Plantation drive* by NSS Unit, NEIAH organized at Community Hall, Mawdiangdiang village on 24th September 2022.
- o) The *Cleanliness Drive* was also organized by NSS Unit, NEIAH in front of Police outpost to Hospital NEIAH on 24th September 2022.
- p) The NSS unit of Women's College, Shillong conducted a *cleaning drive* programme on 30th March 2023 at the college campus.

7. Other Activities

- a) A programme on Yoga was organized by the NSS Cell, NEHU on 13th May 2022 in collaboration with Meghalaya Yog Samiti at the Community Hall, NEHU, Shillong. 160 NSS volunteers from different institutions participated in the same.
- b) The NSS unit of Umshyrpi College organized a one day programme on *Yoga promotion* through poster making at the college campus on 25th May 2022.
- c) International Yoga Day: 32 institutions of NSS NEHU observed International Day of Yoga in a befitting manner. A total of 3600 volunteers participated in the same.
- d) 30 NSS volunteers from Shillong College participated at the *Walkathon* cum 'Eat Right Eat Safe Mela' on the theme: "Walk for Health" on 19th May 2022 organised by the office of the Assistant Commissioner Food Safety, Government of Meghalaya. A painting, poster and extempore speech competition was also held.
- e) A rally and signature campaign on "No to Tobacco" was organized by NSS unit BBS

- College on 17th May 2022 in and around the College campus.
- f) Free preventive oncology-cum-awareness camp on "Screening and Early Detection/Diagnosis of Oral Cavity Cancer" organized by Cancer & Radiation Counter Measures Unit, Department of Bio-Chemistry, and National Service Scheme, NSS Cell, NEHU, Shillong in collaboration with North East Cancer Hospital & Research Institute (NECHRI), Jorabat on 28th May for residents of Mawtawar and Umshing Mawkynroh, Shillong.
- g) On the occasion of "World No Tobacco Day" 31st May 2022 several institutions held various programmes such as rallies, awareness talks, poster and signature campaign.
- h) NSS units of Thomas Jones Synod College, Jowai and Shillong Commerce College, Shillong observed *Thomas Jones Day* on 22nd June 2022 at their respective institutions.
- i) The NSS unit of Kiang Nangbah Government College organized a Jal Shakti Abhiyan programme on the theme "Catch the rain where it falls and when it falls" on the 25th July 2022. The event was organized by Soil and Water Conservation office of Jowai. The objective of the programme was to show the importance of saving water through various forms and the need to practice it from time to time. As part of the programme, slogan writing and a rally was organized in the town culminating in the said office.
- j) As part of the Azadi Ka Amrit Mahotsav (AKAM) celebration and to fulfill the objectives of Nasha Mukt Bharat Abhiyan, the NSS Cell, NEHU, Shillong organized a one-day programme on "Menace of Substance Abuse" on the 4th August 2022 at Multi-Use Convention Hall, NEHU. The Hon'ble Umion Minister of Social Justice & Empowerment, Dr. Virendra Kumar addressed the students through video link. Smti Sonal V. Misra, IPS, Inspector General, NE Sector, CRPF and Smti Supriya Das, IPS, Superintendent of Police(CID) Meghalaya graced the occasion. In this programme, a talk on the "influence of narcotic and other banned substances" among the youth was delivered by Shri Ivan Diengdoh, MPS,Dy.SP (Ops),followed by a poster and slogan competition on the topic "Say No to Drug". More than 400 NSS volunteers from various colleges of Shillong attended and around 100 volunteers participated at the poster and slogan competition.
- k) As part of the Azadi Ka Amrit Mahotsav celebrations, NSS units of all colleges organized several programmes under the "Har Ghar Tiranga"

- Campaign" & Iconic Week during the month of August.
- l) As part of the *International Youth Day*, NSS units from various institutions observed the day by organizing different programmes such as lectures etc.
- m) 10 NSS volunteers from NSS Unit, NEHU, Shillong attended *Ek Bharat Shreshtha Bharat (EBSB)* under the banner of Azadi Ka Amrit Mahotsav at Itanagar, Arunachal Pradesh from 16th to 20th August 2022.
- n) The NSS Unit of Tura Government College, Tura observed *Sadbhavana Diwas Pledge* taking ceremony so as to maintain peace and harmony of the Nation on 18th August 2022 at the college campus.
- o) 20 NSS volunteers alongwith 2 NSS programme Officers attended the *North East NSS Youth Festival* at Gangtok, Sikkim from 27th 31st August 2022.
- p) NSS unit Ri Bhoi College Nongpoh observed *Teachers' Day Celebration* Poetry competition and other activities on 7th September 2022 at the college campus.
- q) NSS PG Unit NEHU Tura observes *International Literacy Week* (8th to 14th September 2022)
- r) Pledge on the occasion of *Rashtriya Poshan Maah* (National Nutrition Week) 2022 by NSS unit Of Kiang Nangbah Government College ,Jowai, Meghalaya on 8th September 2022.
- s) NSS Volunteers, St. Edmund's College observed "World Literacy Day" with students of Kyrdemkhla school on 9th September, 2022
- t) Rashtriya Poshan Maah (National Nutrition Month) 2022: Pledge taking Program Observed by NSS Tura Government College, Tura along with Teaching Staffs and other Students on 13th September 2022 at 12:30pm in the College Campus.
- u) N.S.S volunteers of K.N.G.C Jowai delivering a speech on 1)Women and Health. 2)Children and Education to the students of Ummulong Pres. H/S School,West Jaintia Hills District, Meghalaya on the occasion of *Rashtriya Poshan Maah* on 15th September 2022.
- v) Nutrition Pledge (Poshan Shapath) was administered to the Students of Third Professional BAMS and BHMS students of NEIAH, Shillong on 15th September 2022.

- w) NSS Unit, RI Bhoi College Nongpoh *Rashtriya Poshan Maah* (National Nutritional week) Pledge taking and poster campaign 15 September 2022.
- x) Food festival on 19th September 2022 at college campus organised by NSS unit Lady Keane College as part of Fund raising programme for Asset Creation and social outreach programme.
- y) NSS P. G. Unit NEHU Tura organized a workshop on "Design Your Future". At the campus on 22nd September 2022. Mr. Vincent Singh of EDvantage, Prof. Sujata Gurudev, the Campus-in-Charge, Prof. Abhigyan Bhattacharjee, Placement Coordinator, and Dr. Deepak Bhagat, Profgramme Officer, from NEHU Tura spoke on the occasion.
- z) NSS Unit of St. Anthony's College Extension, Byndihati Campus celebrates *Rashtriya Poshan Maah* on 23rd September 2022.
- aa) Ms. Sachita Syrti, NSS volunteer of Kiang Nangbah Government College attended the programme on "participation of youth" in the event organized in the Central Hall of Parliament to pay homage to National Leaders and also in the speech competition on the contributions of Mahatma Gandhi and Lal Bahadur Shastri.
- bb) The NSS unit of NEIAH organized a free *health check-up camp* at Seng Khasi College, Jaiaw, Shillong under Har Din har ghar Ayurveda on on 29th September 2022.
- cc) The NSS unit of Women's College, Shillong observed the *National Nutrition Month* at their adopted village Mawryngkneng on 29th September 2022.
- dd) The unit of Don Bosco College, Tura conducted a "Youth Leadership" programme on 15th October 2022.
- ee) Units also observed the *Clean India campaign* during the month of October by conducting various programmes such as plantation drives, cleaning drives etc. An average total of more than 400 kgs of plastic waste was collected by the different units during the massive Swachhta drive on 19th October, 2022.
- ff) A free *health check-up camp and distribution of fruits* for orphanage home and served by NSS unit, NEIAH organized by Meghalaya Hindu Mission, Shillong at Mawprem on 18th February 2023.
- gg) NSS volunteers from NSS unit NEHU, Shillong attended the *National Youth Festival* at Hubballi

- Dharwad, Karnataka from 12th 16th January 2023.
- hh) NSS volunteers of Mawsynram Border Area College assisted the Persons with *Disabilities* (*PWDs*) and Senior citizen in the polling station on 27th February 2023.
- ii) *Skit and Signature campaign* to create awareness to promote Ethical voting was organized by NSS unit of Lady Keane College, Shillong.
- jj) The NSS unit of NEIAH organized a *yoga session* as part of International Women's day on 4th March 2023 at the campus.
- kk) *Yoga Mahotsav* 2023, an event to commemorate 100 days countdown to International Day of Yoga 2023 on March 13th and 14th at NEIAH, Shillong.
- ll) A free *health check-up camp* is organized by Shubham Charitable Association, Shillong in collaboration with NEIAH at Mawlongbna village on 11th March 2023.

mm)

- free *health check-up camp* was organized by NEIAH at Umrnong village on 25th March 2023.
- nn) Another free *check-up camp* at Madan Mawkhar, Umrynjah village on 25th March 2023.
- oo) A free health check-up camp is organized by 17BN, BSF, Shillong at Umkiang village Border Post on 18th March 2023.
- pp) A debate competition on "Digital Innovation and Technology" for gender equality was organized by NSS unit NEIAH as part of International Women's Day.
- qq) Ms. Lakyntiew Tang student of BHMS has represent in the *National Youth Parliament 2023* at New Delhi.
- rr) Various NSS units under NSS Cell, NEHU observed *International Women's Day 2023*.
- ss) NSS volunteers alongwith 1 NSS Programme Officer of Lady Keane College attended the *North East NSS Festival* at Guwahati University, Assam on March 2023.
- tt) The NSS unit of Lady Keane College, Shillong organized an *Adventure camp* at Shnongpdeng Dawki on 6th and 7th March 2023.
- uu) The NSS unit of St. Edmund's College, Shillong distribute *Handmade Bookmarks* to female teachers, staff, and female staff of few NGOs as part of *International Women's Day* celebration at the college campus on 8th March 2023.

- vv) Various NSS units of different colleges/institutions conducted a survey of "Youth not in Formal Education or Regular Employment" in their adopted villages.
- 8. Special Camping Programme
- a) The NSS unit of Nongtalang College organized a *special camping* programme at Mawlong Village (adopted village) from 4th 10th July 2022. *Road construction activity*, *white washing* of school building, *cleaning drive* etc was undertaken during the camp. The camp was attended by 60 campers.
- b) The NSS unit NEHU, Shillong organized a *special* camping programme at Madan Mawkhar Village (adopted village) from 18th 24th July 2022. Cleaning drive, plantation programme, awareness on voluntary blood donation, games & sports for

- village children were part of the camp activities. A total of 80 campers participated in the same.
- c) The NSS Unit, NEHU, Shillong organized a *Special Camp* at the adopted village (Madan Mawkhar), from 18th 24th July 2022. Around 80 NSS Volunteers participated.
- d) Units of St Edmund's College, Jaintia Eastern College and Mawlai Presbyterian College conducted *special camping* at their respective adopted village during 1st 7th October 2022.
- e) The NSS unit of Mairang Presbyterian Science College, Mairang organized a *Special Camp* at the adopted village (Weimynsier Village) from 9th 15th February 2023. Around 50 NSS volunteers participated.

NATIONAL SERVICE SCHEME CELL PG UNIT (TURA CAMPUS)

Programme Officer: Dr. Deepak none: +91 9436733357 Bhagat l: nssnehutura@nehu.ac.in

Background

The National Service Scheme (NSS), a Central Sector Scheme of Government of India, Ministry of Youth Affairs & Sports, provides opportunity to the students to take part in various community service activities & programmes. In the year 2022-2023, the NSS PG Unit (NEHU, Tura Campus) and its volunteers took active involvement in delivering community service. In addition, the Unit is also involved in coordination of co-curricular and cultural activities for the students; and organising special lectures by distinguished resource persons etc.

Student Strength

In the Tura campus, the numbers of students NSS volunteers during the year 2022-2023 are as follows:

Particulars		ST	SC	GEN	OBC	TOTAL
P.G. (2021-2023 batch)	Men	39		4		43
F.G. (2021-2023 batch)	Women	89	1	2	1	93
P.G. (2022-2025 batch)	Men	39	1	11	3	54
F.G. (2022-2023 batch)	Women	83	3	8	3	97
	Total	250	5	25	7	287

Activities

- 1. World Environment Day (5th June, 2022): In its continuous endeavour to keep the campus and environment green, World Environment Day was observed on 5th June, 2022.
- 2. Investing In Future Leaders- Be the Change (20th June, 2022): Azadi Ka Amrit Mahotsav Industry-Academia Interface Workshop on "*Investing In Future Leaders- Be the Change*", organized Jointly by Department of Management, North- Eastern Hill University, Tura Campus; the Buddha Institute, New Delhi and Post- Graduate Students Union, NEHU, Tura Campus and NSS PG Unit, NEHU, Tura Campus on 20th June, 2022.
- 3. International Yoga Day (21st June, 2022): To mark the celebration, on 21st June, International Yoga Day was organized. The event was successful with the participation of both teaching and non-teaching staff along with students.
- 4. Har Ghar Tiranga Campaign (11th August, 2023): Joining the 'Har Ghar Tiranga' campaign under the aegis of Azadi Ka Amrit Mahotsav, the North-Eastern Hill University (NEHU), Tura campus and National Service Scheme (NSS) P. G. Unit, NEHU, Tura campus jointly organized a ceremonial function on 11th August, 2022 in front of the Office of the Campus-in-Charge, NEHU, Tura Campus.
- 5. NEP-2020: Diversity, Disciplinarily and Humanities Education (31st August, 2022): A workshop on "NEP-2020: Diversity, Disciplinarily and Humanities Education" was organized on 31st August, 2022 at NEHU, Tura Campus.
- 6. International Literacy Week (8th to 14th September, 2022): NSS PG Unit NEHU Tura observed International Literacy Week during 8th to 14th September, 2022.
- 7. NEP 2020: Transforming Vision into Action (12th September, 2022): Workshop on "NEP 2020: Transforming Vision into Action" organized on 12th September, 2022 at NEHU Tura Campus

- 8. Design your Future (21st September, 2022): NSS P. G. Unit NEHU Tura organized a workshop on "Design Your Future". Mr. Vincent Singh of EDvantage, Prof. Sujata Gurudev, the Campus-in-Charge, Prof. Abhigyan Bhattacharjee, Placement Coordinator, and Dr. Deepak Bhagat, Profgramme Officer, from NEHU Tura spoke on the occasion.
- 9. India @2047 & North East (10th October, 2022): Workshop on "India @2047 & North East" organized on 10th October, 2022 at NEHU Tura Campus.
- 10. Plantation Drive (1st November, 2022): A plantation drive was organised in NEHU Tura Campus on 1st November, 2022
- 11. Fifth National Naturopathy Day (18th Nov, 2022): The Office of the District Medical & Health Officer, West Garo Hills, Tura in association with NSS P G Unit NEHU Tura Campus celebrated the 5th National Naturopathy Day on 18th Nov, 2022 in NEHU, Tura Campus.
- 12. Cleanliness Drive (20th November, 2022): A cleanliness drive was organised on 20th November, 2022 at NEHU Tura Campus.

NEHU DATA AND VOICE NETWORK (NDVN)

Administrative In-charge: hone: +91 364 272-6195/6196/6197/1297 Prof. A. K. Chandra il: admin@nehu.ac.in, ndvn@nehu.ac.in

Background

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.

Other Staff Members

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)

Facility & Services

A. The WIFI project of the MEITY - MHRD

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	Qnty
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 severs 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

- 1. The National Knowledge Network (NKN) of 1Gbps link commissioned on 19th 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.
- 2. The NextGen Firewall DELL SonicWall Super Massive 9200 provides the required up-to-date network security and performance.
- 3. The DELL SonicWall Email Appliance Security (ESA) provides enhanced security and spam filter for the mail server.
- 4. 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, VLANs access to and from all layer 2 (L2) switches located in department buildings.
- 5. 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.
- 6. Dedicated Internet connections with 48 port L2 HP Procurve Switches are provided to most departments having computer laboratory facilities.
- 7. WI-FI connectivity in all hostels with Fortinet LAN-Controller based Access Points.
- 8. Broadband Internet connectivity is provided to all P- Type, L- Type, Type V, Type IV, and Type III residential quarters with the installation of IPDSLAM.
- 9. The Network provides IP CCTV cameras connectivity across the campus.

D. VOICE NETWORK

- 1. 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 enable switch architecture for the voice/telephony network. All the Media-gateways are connected and registered to the Server-over-IP-Back-Bone.
- 2. 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
- 3. Voice Network (Telephone connectivity) is extended to all Departments, Centres, Administrative building, and most residences quarters with a capacity of over 1500 telephone extensions.
- 4. 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

1. Intranet and Internet connectivity for the Digital Repository under the Library Digitalization Project of UPE.

- 2. Intranet and Internet connectivity for the University Management Software (UMS), the ERP egovernance project running several Academic, Finance, and Administration Modules (https://erp.nehu.ac.in)
- 3. 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 Automated weather station.
- v. Newly implementation of accessing the e-resources remotely on https://nehulibrary.remotexs.in/user/login with LDAP authentication

OFFICE OF INTERNATIONAL AFFAIRS (OIA)

Officer-in-Charge: Prof. Prasenjit
Biswas
Telephone: +91 9436116642
E-mail: prasenjitbis@hotmail.com

Background

Since its inception, the office of international Affairs (OIA) has been functioning to look after all international academic relations with partnering Governments, Institutions, and other relevant bodies. The OIA shall act as a single-window facilitation office for the whole University in all matters of international cooperation.

Funds Received

Sr. No.	Funding Agency	Amount (Rs. In Lakhs),
01	NEHU	10.00
02	Chief Minister's Fund (Govt. of Meghalaya)	10.00

Activities

S No	Event/Activity	Date
01	Visit of US Consul General in Kolkata, Melinda Pavek to discussions on mutually beneficial cooperation and collaboration in some of the most cutting-edge areas of science and technology, American studies, indigenous culture and literature.	April 11, 2022
02	A Thai delegation led by Ambassador of Thailand to India, Pattarat Hongtong, visited NEHU. The delegation held wide-ranging discussions with academicians of NEHU on various subjects, including Indo-Thai relations.	April 07, 2022
03	The Ambassador of Republic of Korea to the Republic of India, Chang Jae-bok, visited the North-Eastern Hill University (NEHU) and dwelt at length on possible collaborations in wide ranging fields, especially on academic and economic front.	May 18, 2022
04	The Ambassador of Japan to India Kunihiko Kawazo and Political Counselor Kentaro Orita visited NEHU and expressed their deep satisfaction and appreciated the NEHU fraternity for holding an extremely productive bilateral discussion on wide ranging issues like academic and cultural collaboration in near future.	May 30, 2022
05	Meeting of the Vice Chancellor, Prof. Prabha Shankar Shukla with the High Commissioner for the Republic of Trinidad and Tobago to New Delhi, India, Dr Roger Gopaul, in the premises of High Commission of the Republic of Trinidad and Tobago, New Delhi.	June 06, 2022
06	Prof. P. S. Shukla, NEHU Vice-Chancellor held a meeting with Her Excellency Santi Bai Hanoomanjee and her secretaries to discuss the possibilities of wide-ranging collaborations and Memorandum of Understandings (MoUs) between NEHU and Universities in Mauritius.	June 08, 2022
07	The North-Eastern Hill University (NEHU) signed a memorandum of understanding (MoU) with Breakthrough Technology firm CV Laser Pty Ltd of Australia with the objective of initiating start-ups and innovation industries in the areas of medical laser technology and healthcare. The MoU was signed in the presence of Dr. Mukesh Jain, CEO of CV Lasers, Australia and Prof. P.S. Shukla, Vice-Chancellor of NEHU.	July 22, 2022

		1
08	An Erasmus lecture Series for the students of NEHU where eminent	May 16,
	Professor Gordana Medunić from University of Zagreb, Croatia and	2023; Aug
	Professor Laur Järv from University of Tartu, Estonia came to NEHU to	12, 2022
	share their domain knowledge and expertise.	
09	A Videsh Niti Distinguished Lecture Series under the initiative of	September
	Ministry of External Affairs, Government of India as a part of	22, 2022
	celebrations of 75 years of India's Independence was organised in NEHU.	
	Prominent Indian Diplomat Ambassador (Retired) Skand Ranjan Tayal	
	visited NEHU as part of the distinguished Lecture series. The Lecture	
	focussed on NEHU's Role for being at a Geostrategic juncture and how	
	it should gear itself up to academic and Intellectual support base to critical	
	discussions in Diplomacy and Foreign Relations, which, in turn, shall	
	help the process of internationalisation of higher education.	
10	Held a curtain raiser meeting at VC conference hall. Hon'ble Vice-	December
	Chancellor addressed the gathering of students, researchers and teachers	01, 2022
	drawn from inside the university and from some of the affiliated colleges.	
	Joined the virtual event conducted at Sushma Swaraj Bhavan with	
	Hon'ble vice-chancellor and many officials, faculty, and students.	
11	Lecture by Retired Ambassador Mahesh Sachdev organized jointly by	December
	Office of International Affairs, NEHU and NERC-ICSSR. The Lecture	06, 2022
	covered impact of India's G20 Presidency in the context of South West	
	Asia and South South Africa.	
12	Next Gen Democracy visit by 38 youth leaders from countries like Chile,	March 13,
	Kenya, Ecuador, Mexico, Suriname, New Zealand, Nigeria, Japan etc	2023
	under the aegis of ICCR as part of G20 Youth Connect.	

SOPHISTICATED ANALYTICAL INSTRUMENT FACILITY (SAIF)

Head: Prof. T. S. Basu Baul Telephone: +91 364 272 1801

E-mail: hodsaif@nehu.ac.in, offsaif@nehu.ac.in

Background and Thrust Area

The Department of Science and Technology (DST) is providing facilities of 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.

Scientific Staff

> Scientific Officers (02)

- 1. Dr. P. S. Dkhar, M. Sc. (Biochemistry, NEHU), Ph. D. (Biophysics, NEHU).
- 2. Dr. S. K. Prasad, M. Sc. (Biochemistry, NEHU), Ph.D. (Env. Sc., NEHU)

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 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 maintenance and operation of sophisticated instruments.

Seminars/Conferences/Symposia/extension programmes/ workshops/ Training etc.

Organized

- 1. DST-STUTI training program on "Instrumentation and Application of ICP-OES, GF-AAS and Electron Microscopy", organized by Sophisticated Analytical Instrument Facility (SAIF), NEHU, Shillong, in collaboration with NIT Agartala during 28th April to 4th May, 2022.
- 2. DST-STUTI training program on "Application of Sophisticated Instruments in Chemistry, Biology and Material Sciences", organized by the Dept. of Chemistry, NEHU, Shillong, in collaboration with Amity University, Noida, UP, and Sophisticated Analytical Instrument Facility (SAIF) during 28th June to 4th July, 2022.
- 3. DST-STUTI training program on "National Level Training Program Advanced Analytical And Imaging Techniques", organized by the Dept. of Zoology, NEHU, Shillong, in collaboration with JSS Academy of Higher Education & Research Mysuru, Karnataka, and Sophisticated Analytical Instrument Facility (SAIF) during 1st November to 4th November, 2022.
- 4. DST-STUTI training program on "Innovations in Healthcare Technologies", organized by the Dept. of Biomedical Engineering, NEHU, Shillong, in collaboration with Jamia Hamdard University, Delhi, Sophisticated Analytical Instrument Facility (SAIF), NEHU and the Society for Neurochemistry India (SNCI), during 6th to 12th February, 2023.

Attended

Mr. Joston P. Nongkynrih delivered invited lectures on "Introduction to Biological Sample Preparation techniques" and "Processing (Dehydration & Infiltration)" and provided Hands-on Training on

"Embedding and Block making" and "Trouble shooting, case study and Brain storming" in the National Workshop cum-Hands-on Training Program on Transmission Electron Microscopy" organized by University Science Instrumentation Centre (USIC), Burdwan University, W.B., during 7th -13th Feb, 2023.

Funds Received (from Agencies other than NEHU)

DST, Govt. of India, New Delhi Non Plan: Rs. 14,84,016.00

Plan: Rs. 0.00

Infrastructure Facilities

The students, research scholars and faculty members of the university extensively use the facilities at SAIF to augment their research and development activities. A significant number of publications arising out of these facilities are listed in the individual department/faculty pages of this report. The following sophisticated analytical instruments are available for analytical services:

- 1. Scanning Electron Microscope (JEOL JSM 6360)
- 2. Transmission Electron Microscope (JEOL JEM 2100) EDS (Attached with TEM, XMAX 65)
- 3. FT-NMR 400 MHz (BRUKER AVANCE II–400)
- 4. Inductively Coupled Plasma (ICP)-AES, (Thermo ScientificTM iCAPTM 7600)
- 5. Graphite Furnace (Analytik Jena AG Vario 6)
- 6. Microscope with Image Analyser (LEICA DMRX)
- 7. Liquid Nitrogen Plant (Philips PLN-106)

Instrument Usage

Instrument	Total number of samples analyzed	Total number of users utilizing the facility
Scanning Electron Microscope (JEOL JSM 6360)	73	585
Transmission Electron Microscope (JEOL JEM 2100) + EDS	79	270
FT-NMR 400 MHz (BRUKER AVANCE II–400)	11	1090
ICP-AES (Thermo ScientificTM iCAPTM 7600)	32	2283
Graphite Furnace (Analytik Jena AG Vario 6)	Nil	Nil
DMRX- Optical High Resolution Microscope (With Image analyzer) Leica Q 600	02	01
Liquid Nitrogen Plant (Philips PLN-106)	1561 L	04

Total Revenue Earned

Rs. **15,23,379.00** (Fifteen lakhs twenty-three thousand three hundred and seventy-nine only). (**External users:** Rs. 10,37,678.00, **Internal users:** Rs. 4,85,701.00).

SPORTS DEPARTMENT

Director-in-Charge:

Prof. B. S. Mipun (01/04/2022 to 30/06/2022)

Prof. L. Kma (Since January 2023)

Telephone: +91-364-272 1381/1383

Mail: nehusports@nehu.ac.in

Background

The Sports Department of the University functions under the overall guidance of the NEHU Sports Board, which is chaired by the Hon'ble 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 for other stakeholders of the University.

Staff Profile

ame	Designation
Shri. N. Das	Asst. Director (Physical Education & Sports)
Ms. A.R. Synnah	Basketball Coach

Activities

- 1. The Department of the University has organised Indoor Tournament i.e. Badminton (Men & Women) for students, teaching, non-teaching and campus residents under 'Azadi Ka Amrit Mahotsav' and 'Fit India Movement' at the NEHU Indoor Stadium on the 29th & 30th June 2022.
- 2. To commemorate the birth anniversary of Major Dhyan Chand which is also celebrated as the National Sports Day, the Department organized a Cricket Match on the 29th August 2022 between the Research Scholar vs. NEHU Staff under 'Fit India Movement'.
- 3. To commemorate the birth anniversary of Sardar Vallabhbhai Patel which is also celebrated as the National Unity Day "Rashtriya Ekta Diwas" on 31st October every year the Sports Department in collaboration with the Dean's Student Welfare and NSS Cell of the University organised the Run for Unity on the 31st October 2022 for teaching, non-teaching staff, students of the University and also people's from the neighboring locality.
- 4. The NEHU Football (Men) Team participated in the East-Zone Inter-University Football (Men) Tournament organised at the BIT Mesra Ranchi, Jharkhand from the 11th to 19th November 2022.
- 5. The NEHU Table Tennis (Women) participated in the All-India Inter-University Table Tennis (Women) Tournament organised by the Royal

- Global University, Guwahati, Assam from the 5th to 8th December 2022.
- The NEHU Athletics (Men & Women) participated in the North-East Zone Inter-University Athletics (Men & Women) Championship organised by the KIIT, Bhubaneswar, Odisha from 20th to 23rd December 2022.
- 7. The NEHU Badminton (Women) Team participated in the East-Zone Inter-University Badminton (Women) Tournament 2022-23 organised by the OP Jindal University, Raigarh, Chhattisgarh from the 27th to 30th December 2022.
- 8. The University also participated in the All India Inter University Best Physique (Men) Championship 2022-23 held at the Yenepoya (Deemed to be University), Mangalore, Karnataka.
- 9. To celebrate the Republic Day, on the 26th January 2023, the Department assisted University AKAM Core Committee to organize a Cricket Match between the Research Scholar vs. NEHU Teaching and Non-Teaching Staff under "Fit India Movement".
- 10. The NEHU Kickboxing (Men) Team participated in the All-India Inter-University Kickboxing (Men) Championship organised by the Veer Bahadur Singh Purvanchal University, Jaunpur, U.P. from 14th to 17th March 2023.
- 11. The NEHU Kickboxing (Women) Team also participated in the All-India Inter-University Kickboxing (Women) Championship organised by the Veer Bahadur Singh Purvanchal University,

- Jaunpur, U.P. from 20th to 23rd March 2023. Two girl participants qualify for the quarter final.
- 12. The Sports Department in collaboration with the Internal Complaint Committee of the University has organised 10 Ka Dum Empowering Women through Sports viz. Badminton, Table Tennis, Volleyball, Tug of War, Cricket, Football and Athletics at the NEHU Permanent Campus, Shillong from the 21st of March to the 24th of March 2023 for women of the University. More than 200 women participants from the UG, PG, Research Scholars and teaching & Non-teaching staff took part in the events.

Notable achievements of participants/teams

- 1. Out of 54 contestants, Mr. Ashit Baruah got seventh position in his weight category in the All India Inter University Best Physique (Men) Championship 2022-23.
- 2. Mr. Daowan Suchiang from the Shillong College and Mr. Nangsanlang Basaiawmoit from the Khadsaw Phra College, Mairang brought bronze medal for NEHU from All India Inter-University Kickboxing (Men) Championship.
- 3. Miss Glorify Kurbah participated in the All India Inter University Athletics (Women) Championship organised by the Tamil Nadu State Physical Education and Sports University, Chennai, TN from 13th to 16th March 2023.

STUDENTS' WELFARE CELL

Dean, Students' Welfare:

Prof. R. L. Nongkhlaw

Telephone: +91 364 272 1181

E-mail: dsw@nehu.ac.in

Objective

The office of the Dean, Students' Welfare serves as the nodal agency for student services and their welfare. The major concerns of the office have been the management of the Halls of residences of the Post- graduate, Under-graduate and Research Students, organizing academic study tours through the Departments, Co-ordination of students' sports and cultural activities, conduct of elections to the Students Union, award of the Ph.D. /M.Phil / Non-Net fellowships and Post-graduate scholarships, grant to outstanding students, and grant of Students' Aid to economically weak students. This office also facilitates admission of International Students.

Residence in Hostels

In Shillong Campus the number of Students who were given hostel accommodation during the year 2022-23 is as follows:

Programme of Study	Gender	GEN	ST	SC	ОВС	International students	Total
R.S.	MEN	59	110	14	28	3	214
K.S.	WOMEN	73	136	9	16	3	237
P.G.	MEN	98	123	12	42	4	279
r.G.	WOMEN	122	341	11	12	4	490
U.G.	MEN	141	154	22	27	2	346
U.G.	WOMEN	72	102	13	24	2	213
Total		565	966	81	149	18	1779

Study Tour

The office coordinated the study tours of the following fourteen academic Departments from Shillong Campus during the year 2022-23

Sl No.	Name of Department	Sl No.	Name of Department
1	Adult & Continuing Education	8	Khasi
2	Economics	9	BT&BI
3	IT	10	Anthropology
4	History	11	Physics
5	Chemistry	12	Political Science
6	Philosophy	13	Law
7	Mathematics	14	Education

NEHU P.G. Merit Scholarship

During the year 2022-23, 16 Post graduate students (Gen-13, ST-1 and OBC-2) were awarded the NEHU P.G. Merit Scholarship, @ Rs.3000/- per student per annum

U.G.C. Non-Net Fellowship

During the year 2022-23, a total number of 439 Ph.D. Scholars and 10 M.Phil Scholars were awarded the U.G.C. Non-NET Fellowship @ 8000/ students per month for Ph.D. scholars and @5000/students per month for M.Phil scholars.

Other Activities

1. In order that the term of the NEHUSU and of the Academic calendar coincides, the Elections to the

Union Executive Committee was held on 21st April, 2022 and the counting of the election results was held on 22nd April, 2022 and the charge for handing and taking of the outgoing and the new office-bearers of NEHUSU took place on 25th April, 2022. DSW office supported the Annual event of NEHUSU to showcase talents of students of the University. During 2022-23 the Varsity Fest was held from 6th March, 2023 that ended with students' sports and cultural activities and celebrations on 18th March, 2023.

- 2. As part of the "Azadi Ka Amrit Mahotsav" the DSW office organised the "Har Ghar Tiranga March/Yatra" on 12th August 2022 at 2 PM. The programme start from the premises of Law Department at 2 PM, culminate and concluded by a short programme at the Multi Use Convention Hall where Teachers, Non-Teaching Staff and Students of the University participated in this celebration.
- 3. To commemorate the "Partition Horrors Remembrance Day" the DSW office organised a silent march in the campus on 14th August 2022 starting from Central Library at 5 PM and culminate at VC's office followed by a short programme where Teachers, non-teaching staff and students participated in the programme.
- 4. As part of the celebration of the 'Azadi Ka Amrit Mahotsav', the office of the Dean, Students Welfare, NEHU, Shillong in collaboration with the Department of Linguistics, NEHU, Shillong celebrated the International Day on Sign Languages on 23rd September, 2022 in the Auditorium of U Kiang Nangbah Guest House, NEHU, Shillong. The programme was conducted to raise awareness of the sign languages that are recognized for the human rights of deaf and mute people.
- The office of DSW in collaboration with AVENUES and NEHUSU has conducted a student's interaction Programme with Entrepreneur & Author-Bhairavi Jani on 14th October, 2022 at Multi Use Convention Hall NEHU, Shillong.
- 6. The office of the DSW in collaboration with Tripura Adventure Social Expedition Organisation of Purba Chandigarh, Melaghar, Sepahijala conducted the Academic Exposure Training and International Exchange Programme 2022 held from 17th to 22nd October, 2022.
- 7. The DSW office in collaboration with the office of the National Health Mission, Govt. of Meghalaya has

- conducted an awareness Programme in implementing the Tobacco Free Educational Institutions Guidelines on the 19th October, 2022 at the Multi Use Convention Hall. The programme was attended by around 200 participants including the teachers, staffs and students which include class representatives of all the departments, prefects, and mess committee members of all hostels. Medical Officers from the office of the NHRM, Govt. of Meghalaya delivered the lectures and presentation on the menace and ill effects of tobacco use.
- 8. The office of DSW in collaboration with NSS Cell and Sports Department, NEHU, has organised the programme on Run for Unity & taking of pledge for teaching, non-teaching and students of the University on 31st October, 2022. The programme was conducted to celebrate 75th years of Independence and to commemorate the birth anniversary of Sardar Vallabhai Patel which is celebrated as "National Unity Day" (Rashtriya Ekta Diwas) on 31st of October every year.
- 9. The Office of the Dean Students' Welfare, NEHU in collaboration with the NEHU Students' Union organised a social outreach program on 14th November 2022, which is the Children's Day. During this programme, school kits, stationery items and old useable items like clothes, shoes, blankets, toys etc were donated to school children of Mawtawar L.P. School.
- 10. As part of the golden Jubilee celebration, the office of the DSW NEHU in collaboration with the NEHUSU, organised the debate competition on 15th November, 2022 to mark the celebration of Janajatiya Gaurav Diwas.
- 11. YUVA Sangam under Ek Bharat Shrestha Bharat an initiative by the Govt. of India was organised by DSW office as the Nodal Office. The aim of the YUVA Sangam is to strengthen people to people connect especially between youth belonging to the North Eastern States of India and the rest of the country. During this intercultural exchange programme, the team of 50 students and 6 staffs from BBAU visited NEHU/Meghalaya during 28th Feb, 2023 till 4th March, 2023. The University selected and sent 39 students (including off campus students and NEHU students) along with 5 staffs who visited the paired institution BBAU, Lucknow during 11th March, 2023 to 15th March, 2023.

STUDENTS' WELFARE CELL (TURA CAMPUS)

Teacher-in-Charge, Students Welfare: Dr. Crystal Telephone: +91 9436742768/ 9612155002/

Cornelious D Marak 9436733357

Teacher-in-Charge, Sports: Dr. Gino A Sangma

Coordinator - Events: Dr. Deepak Bhagat Mail: crystalmarak@gmail.com

Background and Objective

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-round development of the students. The major activities of the office have been coordination of student's admission in various hostels of the university; management of post-graduate students' hostel; conduct of election of the office bearers and other representatives of the student's union; supervision and coordination of co-curricular culture 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 number of students of North-Eastern Hill University Tura Campus, Tura during the year 2022-2023 are as follows:

Parti	culars	ST	SC	GEN	OBC	FOREIGN STUDENTS	TOTAL
P.G	Men	87	-	24	5	1	117
	Women	119	5	14	6	1	145
M.Phil	Men	-	-	-	-	-	-
	Women	-	-	-	-	-	-
Ph.D	Men	-	1	4	1	-	6
	Women	-	-	-	-	-	-
To	otal	206	6	42	12	2	268

Activities

- 1. World Environment Day: North- Eastern Hill University, Tura Campus, observed the World Environment Day on the 5th June, 2022 at the University Campus.
- 2. Industry-Academia Interphase: The Industry-Academia Interphase was organized on 20th June, 2022.
- 3. 6th PA Sangma Memorial Lecture: The 6th PA Sangma Memorial Lecture was organized on 1st September, 2022. The Memorial Lecture was delivered by Prof.P.K. Mishra, Hon'ble Chancellor, Dr. Rajendra Prasad Central Agriculture University, Pusa, Samastipur, Bihar, India.
- 4. Art Competition: Conducted an Art Competition on the theme "Human and the Environment" on 2nd November, 2022.
- 5. Participation in 46th 100 Drums Wangala Festival: The students of NEHU Tura Campus, has performed Wangala Dance and presented a folksong at the opening ceremony of the 46th 100 Drums Wangala Festival at Wangala Adam, Chibagre, West Garo Hills, Tura on 2nd November, 2022.
- 6. 27th Foundation Day of North-Eastern Hill University, NEHU Tura Campus, Tura: North-Eastern Hill University, Tura Campus celebrated its 27th Foundation Day on 23rd February, 2023.
- 7. Career Counselling Programme: The Career Counselling Programme for the First Semester students was conducted on 15th March, 2023 at the Conference Hall, NEHU Tura Campus, Tura

UGC- HUMAN RESOURCE DEVELOPMENT CENTRE

Director: Prof. H. K. Mishra **Telephone:** +91 364 2721401/2721402/

2951343

Mail: hrdcnehu@gmail.com

Background

The UGC-Human Resource Development Centre (UGC-HRDC) North-Eastern Hill University has been established in 2006 with an objective to fulfill the aim and goals as laid down by UGC for catchment area that is the state of Meghalaya. In these Sixteen years of its existence, the Centre has extended its services to the North-East Region and the country which has magnanimously benefitted its target group.

Faculty Profile

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)

Objective and Activities

The primary function of UGC-HRDC-NEHU 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. Lately, with the advancement in Information and Communication Technology, the Centre has taken initiatives to create awareness in MOOCs. The UGC-HDRC has also 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. Some of the academic activities are mentioned below: -

- 1. Participants are encouraged to prepare proposal in Research and e-content development for professional development. 5-6 minutes of introductory video on e-content development were prepared for assessment, these are put into practices for Workshop on MOOCs to enhance online training. Participants were also given opportunities for delivering lectures for knowledge dissemination amongst the peer.
- 2. Online submission of video-tutorials as a part of ICT –based teaching, followed by critical analysis

- and evaluation of each video by expert in the field, thus fine tuning the teaching methodology and teaching techniques of each participant.
- 3. Preparation and online interactive sessions on curriculum development by participants belonging to specific disciplines.
- 4. Hands on for SPSS Short term course through online mode to ensure learning outcome despite the virtual mode.
- 5. For Seminar and other presentations by participants' video recording were encouraged and links provided to coordinators though live presentations were recorded in Zoom.
- 6. Online group activities and online interactive games on Soft Skills, Teaching Skills, etc, aiming at professional and personality development.
- 7. Active participation in weekly online discussions which motivated the participants to share and express their views on various issues/topics relevant to the programmes.
- 8. Asynchronous classroom created (MOODLE) for active participation. Uploading all important information relevant to the course, e-text (pdfs/ppts of lectures), video recorded lectures, formative assessments, submission of assignments

such as research proposal, curriculum development, proposal for e-content development, questionnaire, short video tutorials and discussion forum. Assessing the assignment and uploaded for improvement with feedback to participants.

9. Live Discussion on problems of online delivery with suggestions for improvement.

Funds Received (from Agencies other than NEHU)

The UGC-Human Resource Development Centre is a fully funded scheme of UGC. For the year 2022-23 University Grants Commission, New Delhi sanctioned **Rs. 40.00** Lakhs only for conducting Refresher Course /Faculty Induction Programmes/Short-Term

Courses/Workshops/National Webinars in approved subjects and for meeting other expenditures.

Available infrastructure

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 Faculty Induction Programmes, Refresher Courses, and Short-term Courses as well as the faculty, and students of the University in information technology with special reference to teaching and research. Recently Inverter Flat Panel (2 nos.), SSD (3 nos.) were inducted in its facilities. Two lecture rooms were fitted with the latest Interactive Flat Panel connected with the Internet for the purpose of teaching-learning process while conducting of programmes in on-line mode.

Courses Conducted

During 2022-23, the UGC-HRDC conducted a total 44 nos. of programmes in the online mode i.e., 4 Faculty Induction Programmes, 10 Refresher Courses, 8 Short-Term Courses, 5 Workshops, 12 nos. of National Webinars on NEP 2020, 5 ShikshakParv Lecture Series and trained a total of 2363 participants belonging to various universities and colleges recognized by the UGC.

1. Faculty Induction Programme (FIP)

Sl. No.	FIP	Coordinator	Duration	No. of participants
1	9thFIP	Dr. (Mrs.) Kuheli Biswas Das	30/5/2022 to 28/6/2022	35
2	10thFIP	Dr.(Mrs.) Q. Kharbuli	29/6/2022 to 28/7/2022	41
3	11thFIP	Dr.(Mrs.) Q. Kharbuli	10/1/2023 to 8/2/2023	53
4	12th FIP	Dr. (Mrs.) Kuheli Biswas Das	28/2/2023 to 28/3/2023	47

2. Refresher Couse (RC)

Sl. No.	RC	Duration	No. of participants
1	RC in Linguistics (ID)	25/5/2022 to 7/6/2022	35
2	RC in Law and Social Transformation in India	1/6/2022 to 14/6/2022	35
3	RC in Life Sciences (ID)	26/7/2022 to 8/8/2022	42
4	RC in Biodiversity and Conservation (ID)	3/8/2022 to 18/8/2022	35
5	RC in Political Science	11/10/2022 to 25/10/2022	69
6	RC in Economics	12/10/2022 to 26/10/2022	41
7	RC in Chemistry	31/10/2022 to 15/11/2022	41
8	RC in Zoology	21/11/2022 to 5/12/2022	42
9	RC in History	24/11/2022 to 7/12/2022	73
10	RC in Biomedical	1/3/2023 to 14/3/2023	28

3. Short-Term Course (STC)

Sl.No.	Short-Term Course	Coordinator	Duration	No. of
				participants
1	STC on MOOCs & e-	Dr.(Mrs.) Q.	11/7/2022 to	37
	content development	Kharbuli	18/7/2022	
2	STC in Physical	Shri. Nantu Das	19/7/2022 to	38
	Education: A Solution		25/7/2022	
	to Stress Management			
3	STC on Restructuring	Dr. Rihunlang	30/8/2022 to	24
	of Indian Education	Rymbai	5/9/2022	
	System through NEP			
	2020			
4	STC in Research	Dr.(Mrs.) Q.	1/9/2022 to	42
	Methodology in Social	Kharbuli	7/9/2022	
	Sciences and			
	Humanities			
5	STC in Gender	Dr. (Mrs.) Kuheli	13/9/2022 to	32
	Sensitization	Biswas Das	19/9/2022	
6	STC in Statistical	Dr.(Mrs.) Q.	21/9/2022 to	38
	Analysis using various	Kharbuli	27/9/2022	
	softwares			
7	STC on Academic	Dr. (Mrs.) Kuheli	30/11/2022 to	47
	Administrators	Biswas Das	6/12/2022	
8	STC in Research	Dr. (Mrs.) Kuheli	14/2/2023 to	40
	Methodology in Basic	Biswas Das	20/2/2023	
	Sciences			

4. Workshops (One Day)

Sl. No.	Details	Duration
1	Workshop for Principals [No. of participants – 21]	29/11/2022 to 30/11/2022
		(Two Days)
2	Multiple Entry and Exit Principals [No. of participants	08/06/2022
	[-40]	
3	National Skill Qualifications Framework [No. of	16/06/2022
	participants – 81]	
4	Good Academic Research Practices/Academic 20/06/2022	
	Research Integrity [No. of participants – 71]	
5	Educational Framework for Global Citizenship in 27/06/2022	
	Higher Education [No. of participants –61]	

5. One day National Webinars

Sl. No.	Details	Date
1.	One Day National Webinar on NEP 2020: Research Innovation and	18/5/2022
	Rankings of HEIs [convener: Dr.(Mrs.) Q. Kharbuli; Participants	
	attended: 36]	
2	One Day National Webinar on NEP 2020: Technology Enabled	27/5/2022
	Teaching & Learning Process [convener: Dr.(Mrs.) Q. Kharbuli;	
	Participants attended: 37]	
3	One Day National Webinar on Education Policy, Implementation	8/6/2022
	and Implication [convener: Dr.(Mrs.) Q. Kharbuli; Participants	
	attended: 57]	

4	One Day National Webinar on NEP 2020: Motivated, Energized and	20/7/2022
т	Capable Faculty [Convener: Dr. (Mrs.) Kuheli Biswas Das;	20/7/2022
	Participants attended: 68]	
5	One Day National Webinar on NEP 2020: Promotion of Indian	8/8/2022
3	Knowledge Systems [Convener: Dr.(Mrs.) Q. Kharbuli; Participants	0/0/2022
	attended: 51]	
6	One Day National Webinar on Academic Leadership in Higher	23/9/2022
-	Education Institutions in India [Convener: Dr. (Mrs.) Kuheli Biswas	
	Das]	
7	One Day National Webinar on ICT Applications in 21st Century	19/10/2022
	[Convener: Dr. (Mrs.) Kuheli Biswas Das; Participants attended:	
	92]	
8	One Day National Webinar on NEP 2020: Global Outreach of	3/11/2022
	Higher Education, Indian Perspective [Convener: Dr. (Mrs.) Kuheli	
	Biswas Das; Participants attended: 83]	
9	One Day National Webinar on Assessment and Evaluation in Higher	9/12/2022
	Education Institution in India [convener: Dr.(Mrs.) Q. Kharbuli;	
	Participants attended: 96]	
10	One Day National Webinar on NEP 2020: Languages, Culture and	24/2/2023
	Values [Convener: Dr. (Mrs.) Kuheli Biswas Das; Participants	
	attended: 88]	
11	One Day National Webinar on NEP 2020: Multidisciplinary and	14/3/2023
	Holistic Education [Convener: Dr. (Mrs.) Kuheli Biswas Das;	
	Participants attended: 72]	
12	One Day National Webinar on NEP 2020: Need of Equity and	15/3/2023
	Inclusion in Higher Education Institutions in India [convener:	
	Dr.(Mrs.) Q. Kharbuli; Participants attended: 107]	

6. SHIKSHAK PARV LECTURE ON "NATIONAL EDUCATION POLICY 2020: CHANGING ROLE OF TEACHERS"

Sl. No.	Topic	Date
1.	ShikshakParv Lecture Series for Faculty of Colleges and	5/9/2022
	Universities [Organizer: Dr. (Mrs.) Kuheli Biswas Das; participants attended: 81]	(One Day)
2.	ShikshakParv Lecture Series for College Students	7/9/2022
	[Organizer: Dr. (Mrs.) Kuheli Biswas Das; Participants attended: 54]	(One Day)
3.	ShikshakParv Lecture Series for University Students	8/9/2022
	[Organizer: Dr. (Mrs.) Kuheli Biswas Das; participants attended: 56]	(One Day)
4	ShikshakParv Lecture Series for Academic Administrators	9/9/2022
	[Organizer: Dr. (Mrs.) Kuheli Biswas Das; participants attended: 46]	(One Day)
5	ShikshakParv Lecture Series for Research Scholars	9/9/2022
	[Organizer: Dr. (Mrs.) Kuheli Biswas Das; participants attended: 51]	(One Day)

7. Orientation for Coordinators & Resource persons

71 0110110	ation for Coordinators & Resource persons	
Sl. No.	Name of the programme	Date
1	Orientation for Coordinators & Resource persons	4 th May, 2022
	[Coordinator: Dr. (Mrs.) Q. Kharbuli & Dr. (Mrs.) K. B. Das; (One Day)	
	Participants: 68]	

Seminars/ Conferences/ Symposia/ Extension Programmes etc.

Dr.(Mrs.) Q. Kharbuli, Organized

1. International Conference on "Biodiversity and Conservation (ICBC)", organized by Department of Zoology and Fishery Science, St. Anthony's College, Shillong in collaboration with the Bio Resources Development Centre (BRDC), Govt. of Meghalaya, Zoological Survey of India (ZSI), Govt. of India, Meghalaya Biodiversity Board (MBB), Govt. of Meghalaya and Fisheries Dept., Govt. of Meghalaya, December 14th and 15th, 2022

Attended

1. National Seminar on "NEP 2020: The way forward" held at Synod College Shillong, November 17-18, 2022 Organized by Department of Education, Synod College Shillong. <u>Title of the paper</u>: Motivated, Energized and Capable Faculty in Higher Education: Impact of Faculty Development Training Programmes through Human Resource Development Centres (HRDCs).

Other Activities

- One Day National Webinar on Education Policy: Implementation and Implications", organized by UGC-Human Resource Development Centre, North-Eastern Hill University, Shillong, June 8, 2022. Title - "Mentoring: Mentor – Mentee pairing the Process"
- 2. One Day National Webinar on Education Policy: Motivated, Energized, And Capable Faculty", organized by UGC-Human Resource Development Centre, North-Eastern Hill University, Shillong, July 20, 2022. Title "Motivated, Energized and Capable Faculty: Role of HRDCs".
- 3. One Day National Webinar on Education Policy: Assessment and Evaluation", organized by UGC-Human Resource Development Centre, North-Eastern Hill University, Shillong, December 9, 2022. Title "Pedagogy, Evaluation and Assessment: Continuous and Comprehensive Evaluation".
- 4. Three-day Seminar and Workshop on "Research Paper Writing for undergraduates (Humanities)", organized by the Department of English, St. Anthony's College, Shillong. Topic "How to structure a Paper", 19th 21st April, 2022.
- 5. District Seminar on "Faculty Development", organized by the Academic activities committee,

- Thomas Jones Synod College, Jowai. Topic "Teaching and Learning during Covid-19: Effectiveness and Challenges", June 24, 2022.
- 6. Faculty development Programme, organized by IQAC, Sankardev College, Shillong. Topic Academic and institutional performances, research and publication and the National Education Policy, 2020, July 8, 2022.
- 7. "One day national workshop on development of MOOCs" organized by MOOCs Technical committee, North-Eastern Hill University, Shillong. Topic "Development of MOOC courses through SWYAM" September 1, 2022.
- 8. Outcome Based Education Workshop for faculty organized by IQAC, Martin Luther Christian University Shillong. Topic Introduction to Outcome Based Education and Formulating/Identifying Programme Outcomes (POs), Programme Specific Outcomes (PSOs), Course Outcomes (Cos), September 16, 2022.
- 9. Awareness Programme on Professional Ethics and Research Projects organized by Research Development Committee & Seminar Committee, Kiang Nangbah Government College, Jowai. Topic Research Projects (Major/Minor), October 7, 2022.
- 10. RUSA 2.0 Approved STC on "Online Courses, E-Content Development, OER etc.," (Physical mode) organized by UGC-Human Resource Development Centre, Gauhati University. Topic -Preparation of **Proposal** for E-Content Development (SWAYAM MOOCs, Swayam Central: Awareness for professional development. MOODLE **Environment:** Administrator, Activities and Resources, 10th February 2023.
- 11. RUSA 2.0 Approved Refresher Course on Online **Teaching** Learning E-Content Courses, Development, etc.," (online mode) OER organized by **UGC-Human** Resource Development Centre, Gauhati University. Topic – Concept of Measurement and Levels of Measurement in Quantitative Research, 6th, 23rd and 27th February, 2023.
- 12. Faculty Development Programme with special emphasis on NEP 2020 organized by Ri-Bhoi College, Nongpoh. Topic Blended Mode of Teaching, Government of India Digital Initiatives. Open Educational Resources and Creative Commons Licence. MOODLE Environment. February 15, 2023.

- 13. Workshop on e-Content Development for the faculty organized by IQAC, Martin Luther Christian University Shillong. Topic Preparation of Proposal for E-Content Development (SWAYAM MOOCs). Swayam Central: Awareness for professional development. Open Educational Resources and Creative Commons Licence, February 17, 2023.
- 14. RUSA 2.0 Approved Orientation Programme on "Research Methodology" (online mode) organized by UGC-Human Resource Development Centre, Gauhati University. Topic Concept of Measurement and Levels of Measurement in Quantitative Research, 22nd February 2023.
- 15. RUSA 2.0 Approved Orientation Programme on "Research Methodology in Social Sciences and Humanities" (Physical mode) organized by UGC-Human Resource Development Centre, Gauhati University. Topic(s) –Research Process, Concept of Measurement and Levels of Measurement in

- Quantitative Research, and Measures of Association. 06th March, 2023.
- 16. Two –Day Workshop on "Development of e-Content" for faculty of Sciences, Professional Courses and Arts, organized by IQAC, Lady Keane College, Shillong. Topic(s) "Development of e-Content and Awareness on SWAYAM MOOCs" 28th and 30th March, 2023.

Other Activities

- (i) Life member of Indian Society for training and development, India; (ii) Department SWAYAM Mentor;
- (iii) SWAYAM Course(s) Completed with e-Certification: (a) Foundations of R Software (4 Credits) NPTEL; (ii) Descriptive Statistics with R Software (3 Credits) NPTEL; (iv) Referee for a paper in the "Spectrum: Science and Technology", Research and Consultancy Cell, St Anthony's College, Shillong

Acted as resource persons for following

Lecture(s)/Hands On/Discussion/	Name of the Programme/Course/
	Workshop
Guide to preparation of Refresher Courses for Coordinators	Orientation for Coordinators of RC
	2022-23; 4th May, 2022
Research Process;	9th FIP (30th May – 28th June, 2022)
Minor and Major Research Projects	
Concepts of Measurement	
Levels of Measurement	
Role and Responsibilities of National Agencies: HRDCs	
Preparation of Proposal for E-Content Development	
SWAYAM Central: Awareness for professional development	
MOODLE Environment (Activities and Resources)	
Presentation Tube: An Online Delivery Tool Role and	
Responsibilities of HRDCs	
Performance Appraisal for Teachers of Higher Education	
Research Process: Preparing for the future in light of NEP 2020	
Research Projects: Designing for Seeding Research through Funding	
agencies	10th FIP (29th June -28th July, 2022)
Concept of Measurement in Quantitative Research	,
Levels of Measurement in Quantitative Research	
Academic Performance Indicator (API) 2018 Regulation for College	
and University Teachers	
Mentoring Process: mentor-mentee pairing	
Preparation of Proposal for E-Content Development	
SWAYAM Central: Awareness for professional development	
MOODLE Environment: Introduction (Administrator), Resources	
and Activity	
Presentation Tube: An Online Delivery Tool	
NEP2020: Motivated, Energized and Capable Faculty	
Research Projects: Designing for Seeding Research through Funding	11th FIP (10thJanuary -08thFebruary,
agencies	2023)
Research Process: Preparing for the future in light of NEP 2020	<i>'</i>
Concept of Measurement in Quantitative Research	
Levels of Measurement in Quantitative Research	

Preparation of Proposal for E-Content Development	
SWAYAM Central: Awareness for professional development	
MOODLE Environment: Introduction (Administrator), Resources	
and Activity	
Presentation Tube: An Online Delivery Tool	
Academic Performance Indicator (API) 2018 Regulation for	
College and University Teachers	
NEP2020: Motivated, Energized and Capable Faculty	
NEP2020 Guidelines to Pedagogical, Evaluation and Assessment	
NEP2020:Mentoring and Mentorship	
Research Process: Preparing for the future in light of NEP 2020	12th FIP
Minor and Major Research Projects	(28th–29thMarch, 2023)
Concepts of Measurement	
Levels of Measurement	
Preparation of Proposal for E-Content Development	
SWAYAM Central: Awareness for professional development	
MOODLE Environment (Assessment& Resources)	
Presentation Tube: An Online Delivery Tool	
Performance Appraisal System in the Institute of Higher Education	
NEP 2020: Pedagogy, Evaluation and Assessments	
Mentoring Process: mentor-mentee pairing	
Preparation of E-Content for online courses in Linguisticsusing the	RC in Linguistics Interdisciplinary
four quadrant approach	(25th May – 7thJune, 2022)
Preparation of E-Content for online courses in Political Science using	RC in Political Science
the four quadrant approach	(11th – 25thOctober 2022
Preparation of E-Content for online courses in History using the four	RC in History
quadrant approach	(28thNovember – 3rd December, 2022)
Preparation of E-Content for online courses in Zoology using the four	RC in Zoology
quadrant approach	(21st November – 5th December, 2022)
Preparation of E-Content for online courses in Biomedical using the	RC in Biomedical Eng
four quadrant approach	(1st – 15th March, 2023)
Preparation of Proposal for E-Content Development	Short Term Course in MOOCs and E-
SWAYAM Central: Awareness for professional development	Content Development
MOODLE Environment: Introduction	(11th– 08thJuly, 2022)
Presentation Tube: An Online Delivery Tool	(1131 33316 31), 2022)
Mentoring: Mentor Mentee Pairing	Short Term Course on Restructuring of
Westernage Westernage	Indian Education System through NEP
	2020
	(30thAugust – 05th September, 2022)
Gender and Biology	Short Term Course in Gender
Gender and Brotogy	Sensitization
	13th – 19th September, 2022
Research Process: Seeding Research in light of NEP 2020	Short Term Course in Research
Concepts of Measurement	Methodology for Social Sciences and
Levels of Measurement	Humanities
Develo of Moustionion	(1st- 7thSeptember, 2022)
Introduction to SPSS	Short Term Course in Statistical
Chi-square Test	Analysis using various Software
Loglinear Analysis	(21st- 27th September, 2022)
Logistic Regression	(2150 27011 September, 2022)
Motivated, Energized and Capable Faculty in Higher Education: Role	Workshop for Principals
of Human Resource Development Centres (HRDCs)	29th– 30th November, 2022
of Haman Resource Development Centres (HRDCs)	27m Juni indvellidel, 2022
Building Leadership Qualities through Teacher Training	Short Term Course for Academic
Programmes: Role of HRDCs	Administrators
1 Togrammics. Note of TINDOS	(30th November - 6th December, 22
Statistical Software in Scientific Research	Short Term Course in Research
Concept of Measurements Levels of Measurements	Methodology for Basic Sciences
	14th – 20th February, 2023
Total Number of Sessions (2022-23)	

"Mentoring: Mentor – Mentee pairing the Process"	One Day National Webinar on
	NEP2020: Implementation and
	Implications
	8th June, 2022
Motivated, Energized and Capable Faculty: Role of Human Resource	One Day National Webinar on
Development Centres	NEP2020: Motivated, Energized and
	Capable Faculty
	8th June, 2022
"NEP 2020: Continuous Comprehensive Evaluation"	"Assessment and Evaluation in Higher
	Education Institutions in India"
	9th December, 2022

Dr. (Mrs.) Kuheli Biswas Das

Organized

- 1. Interaction for Resource Persons (4th May, 2022).
- 2. Two Day National Workshop on the theme "Vocational Education, Experiential Learning and Skilling" on 29th & 30th August 2022, held at North Eastern Hill University, Shillong, organized by Faculty Development Centre, Mahatma Gandhi National Council of Rural Education (MGNCRE), Department of Higher Education, Ministry of Education, GOI.

Attended

- 1. Lectured delivered as resource person in Teacher's Orientation Programme for LP School Teachers, organised by Ramakrishna Mission, Higher Secondary School, Sohra on 6th February, 2023 on the topic "Soft Skills in the Teaching-Learning Environment: A Holistic Approach Towards 21st Century Education".
- 2. Lectured delivered as resource person in Workshop on "Faculty Improvement on Teaching and Learning with Special Emphasis on New Education Policy 2020" organised by Departments of History and Political Science and IQAC, Ri Bhoi College, Nongpoh from 13th - 17th February, 2023 on the topic "Google Tools in Teaching Learning Process".

Acted as Resource person in the following:			
Programmes/Courses	Title of Lectures		
9 th Faculty Induction Programme (30 th May – 28 th June, 2022) organised by UGC-HRDC, NEHU, Shillong	 Developing Effective Presentation Styles and PowerPoint Presentations Techniques of Time Management at Work Place Getting Started with Google Classrooms Google Forms: Creating, Editing and Distributing Working with others: Working in Teams and Team Building 		
10 th Faculty Induction Programme (29 th June – 28 th July, 2022) organised by UGC-HRDC, NEHU, Shillong Short-term Course on MOOCs and E-content Development (11 th July – 18 th July, 2022)organised by UGC-HRDC, NEHU, Shillong	 Time Management at Work Place Working in Teams and Team Building I Google Classroom: Emphasis on Google Forms Working in Teams and Team Building II Google Classroom: Emphasis on Google Forms 		
Short-term Course on Restructuring of Indian Education System through NEP 2020 (30 th August – 5 th September, 2022)organised by UGC-HRDC, NEHU, Shillong	Understanding Soft Skills: A Holistic Approach Towards 21st Century Education		
Short-Term Course for Academic Administrators (30/11/2022 to	 Understanding Soft Skills: A Holistic Approach Towards 21st Century Education 		

6/12/2022) organised by UGC-	
HRDC, NEHU, Shillong -793022	
11 th Faculty Induction Programme	 Google Forms: Creating, Editing and Distributing
$(10^{th} \text{ January} - 8^{th} \text{ February}, 2023)$	 Getting Started with Google Classrooms
organised by UGC-HRDC,	• Developing Effective Presentation Styles and PowerPoint
NEHU, Shillong	Presentations
	 Understanding Team Work for Academic Proficiency
	Techniques of Time Management at Work Place
Refresher Course in Biomedical	Effective Presentation Styles
(1st – 15th March 2023) organised	, and the second
by UGC-HRDC, NEHU, Shillong	
12 th Faculty Induction Programme	Getting Started with Google Classrooms
(28 th February – 29 th March, 2023)	 Google Forms: Creating, Editing and Distributing
organised by UGC-HRDC,	• Soft Skills in the Teaching-Learning Environment: A Holistic
NEHU, Shillong	Approach
	 Developing Effective Presentation Styles
	 Techniques of Time Management at Work Place
	Working with others: Working in Teams and Team Building

Attended/participated in the following online courses/webinars:

- 1. One day National Level Panel Discussion on "Implementation of National Education Policy (NEP) 2020", jointly organized by the North-Eastern Hill University (NEP 2020 Implementation Committee) and North-Eastern Hill University Teachers' Association (NEHUTA), North-Eastern Hill University (NEHU), Shillong, on 11th April 2022.
- 2. One Day National Webinar on NEP 2020: "Technology Enabled Teaching & Learning Process" organized by the UGC-Human Resource Development Centre, North-Eastern Hill University, Shillong, on 27th May, 2022.
- 3. Online Workshop on NEP 2020: "National Skills Qualifications Framework (NSQF)"organized by the UGC-Human Resource Development Centre, North-Eastern Hill University, Shillong, on 16th June, 2022.
- 4. Online Workshop on NEP 2020: "Good Academic Research Practices/Academic Research Integrity" organized by the UGC-Human Resource Development Centre, North-Eastern Hill University, Shillong, on 20th June, 2022.
- Online Workshop on NEP 2020: "Educational Framework for Global Citizenship in Higher Education" organized by the UGC-Human Resource Development Centre, North-Eastern Hill University, Shillong, on 27th July, 2022.
- 6. One Day National Webinar on "Assessment and Evaluation in Higher Education Institutions" in India organized by the UGC-Human Resource Development Centre, North-Eastern Hill University, Shillong, on 9th December, 2022.

UNIVERSITY MANAGEMENT SYSTEM (UMS)

Project Manager: Prof. A.K. Chandra

Telephone: +91 364-272 2622

Mail: ums@nehu.ac.in,

Background

The University Management System (UMS) has been functioning since 2014 when the HR (Establishment) and Finance module were used for pay roll of NEHU teaching and non-teaching staff. It is an ERP (Enterprise Resource Planning) initiative under e-Governance program of Govt of India.

Staff Profile

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

Activities

At present, UMS has the following modules in place.

Sr.	Module type	Activity details
No.		
01	Establishment Module	HR & Leave Management
02	Finance Module	Fund; Payroll; Project; Accounting
03	Students Affair Module	DSW; Student Portal (Course & Exam Registration,
		Hostel, Fee payment); Hostel; Fee Payment Module (Both
		Academic fees and Hostel fees)
04	Academic Module	Academic Matters; Admission Matters
05	Examination Module	Examination Matters and result publication
06	Purchase & Stores	
07	Guest House	
08	Administration Module	General administration; Transport; DAK; Asset; Estate
07	Medical Module	Patients Details; Doctors Details; Medicine Details;
		Treatment Records; Blood/ Urine Test Records
08	Conference Module	Conference; Event Management details
09	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 Examination Hall Ticket generation; processing of results for PG/B.Tech./BArch/BALLB/B.Ed./MBBS examination, Monthly Salary Processing of employees including generation of salary slips, Employees Loan/ Fund processing, GPF, CPF and NPS monthly report generation, Report of Monthly Income Tax deductions and Accounting management, Employee's annual increments, promotions and Departmental transfers, and Generation of provisional merit list for admission, list of admitted students data.

There are two Servers for the UMS which are installed in NEHU campus within the NDVN Section. The UMS service is accessible through the campus network backbone provided by NDVN. It is also accessible via internet.

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)

Ex-Officio members	·
(i) Chancellor, Ex-officio	Vacant
(ii) Vice-Chancellor, Ex-officio	Prof. Prabha Shankar Shukla
· •	(w.e.f.27.07.2021 till date)
(iii) a. Pro-Vice-Chancellor, Ex-officio	Vacant
b. Pro-Vice-Chancellor, Tura Campus	Vacant
(iv) Dean of Students' Welfare	Prof. D. R. L. Nongkhlaw
(v) Registrar, Ex-officio	In-Charge
(vi) Librarian, Ex-officio	Dr. F. R. Sumer
(vii) Proctor, Ex-officio	Dr. L Cajee
(viii) Finance Officer, Ex-Officio	In-charge
Representatives of Schools and Departments	·
(ix) Deans of Schools of Studies, Ex-officio	
(x) All Professors, ex-officio	
(xi) Heads of Departments, who are not	Shillong Campus
Professor, Ex-officio	1. Department of Basic Sc. &
	Social Sciences,
	2. Department of Journalism &
	Mass Communication (i/c)
	3. Depart of Tourism &Hotel
	management
	4. Department of Bio-Medical
	Engineering
	5. Department of Nano
	Technology
	6. Department of Architecture
	(i/c)
	7. Department of Energy
	Engineering
	Tura Campus
	1. Department of Garo
	2. Department of Computer
	Application (i/c)
	3. Department of History &
	Archaeology (i/c)
	4. Department of Agri
	Business Management & Food
	Technology (i/c)
(xii) Two Associate Professors who are not Head of the Professors to be	•
appointed by rotation in the manner prescribed by the	
Associate Professors	1. Dr. Aseem Sinha, Dept. of
	BSSS, NEHU, Shillong
	(w.e.f.22.08.2021 up to

	2. Dr. V. Pakyntien, Department of Anthropology, NEHU,
	Shillong (w.e.f.02.05.20222 up to 12.11.2022)
	3. Dr. Laphynshai Syiem, Department of Cultural and
	Creative Studies, NEHU, Shillong (w.e.f. 23.02.2023 up to
A : A D C	22.02.2026)
Assistant Professors	1. Dr. P. K. Ambasht, Department of Biochemistry, NEHU,
	Shillong (w.e.f.3.03.20 up to 18.07.2022)
	2. Smti. J. R. Marak, Department of Garo, NEHU,
	Tura (w.ef. 25.07.2019 up to
	18.07.2022)
	1. Mrs W. Mylliemngap, Department of Adult
	Continuing Education, NEHU, Shillong
	(w.e.f.18.07.2022 up to 17.07.2025)
	2. Dr. Ricky A. J. Syngkon, Department of Commerce, NEHU, Shillong (w.e.f.
	18.07.2022 up to 17.07.2025)
(xiii) Seven Principals of Colleges in the State of Meghalaya	1 D : 1 C 1 C 1
Principals of Colleges	1. Principal, Synod College, E. K. Hills Dist.
	Meghalaya, Dhankheti - 793001
	2. Principal, Shillong Law College, E. K. Hills Dist.
	Meghalaya, PIN- 793002 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, E. K. Hills Dist. Meghalaya, PIN - 793002
	6. Principal, Tura Law College, West Garo Hills Dist.
	New Tura P.O. Araimile, Tura - 794003
	177003

	1 (
	7. Principal, Nongstoin College, West Khasi Hills District, Nongstoin -973119, Meghalaya.
(-:-) F41	<u> </u>
(xiv) Four teachers from affiliated Colleges nominated by the vof the Vice-Chancellor	visitor on the recommendation
Nominated Teachers from Affiliated Colleges	Vacant
(xv) Representatives of the parliament, four to be nominated b	y the Sneaker of the Lok Sahha
from among the members thereof and two to be nominated by	
Sabha from among the member thereof. However, in the event	
becomes a Minister or Speaker /Deputy Speaker/Lok Sabha or	
Deputy Chairman, Rajya Sabha, her/his nomination/election of	on Statutory Body snan be
deemed to have been terminated	
Representatives from Lok Sabha	(w.e.f 28.08 2021 up to
	27.08.2024)
	1. Abdul Khaleque, Vilage
	Bartari, P.O. Chandmama,
	P.S.Kalgachia, Dist. Barpeta-
	781319, Assam.
	Delhi Adress-B-503, Gomti
	Apartment, M.S. Flat,
	B.K.S Marg, New Delhi-
	110001
	2. Dr.Rajdeep Roy,
	Lochan, Bairagi Road Bilpar,
	Silchar,
	PIN -788001, Assam.
	Delhi Adress- 77, South
	Avenue, New Delhi-110004
	3. Smti.Agatha
	K.Sangma, Walbakgri
	,P.O,Aramile,
	New Tura, West Garo
	Hills,Meghalaya-737113
	Delhi Address- 25, Ferozeshah
	Road
	New Delhi- 110001
	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
Representatives from Rajya Sabha	(w.e.f 09.08.2019 up to 08. 08. 2022)
	1. Shri. Kamakhya Prasad
	Tasa, Garamur Dulia
	Goan, P. O. Jorhat Engineering
	College, Jorhat,
	Assam - 785007.

	2. Shri. Rakesh Sinha, Village,
	Manserpur, P.O-Lakhminia
	Dist.Begusarai(Bihar)-851211
	Vacant (w.e.f. 09.08.2022 - till
	date)
(xvi) Ten members representing learned professions and speci	al interests including
representatives of industry, commerce, trade unions, banking, nominated by the Visitor	,
Persons representing learned professions and special interests	Vacant
(xvii) Six representatives of the Registered Graduates of the Umanner prescribed by the Ordinance	Iniversity are to be elected in the
Representatives of Graduate Students	Vacant
(xviii) Four students to be nominated by the Vice-Chancellor,	for a period of one year
Student Representatives	(w.e.f. 10.01.2022 to
ı	09.01.2023)
	1. Ms. Ritu Sharma, Deptt.
	Zoology,NEHU, Shillong
	2. Ms. Iadakmen Shisha
	Marbaniang, Deptt. of
	Chemistry, NEHU, Shillong
	3. Ms.Phibanshanlang
	Nongpluh, Deptt. Of
	Education, NEHU, Shillong
	4. Alexa B. Tham, Deptt. of
	Cultural & Creative Studies,
	NEHU, Shillong
	(w.e.f. 23.02.2023 up to
	22.02.2024)
	1. Ms. Sreyoshee Sensarma,
	Ph.D. Department of Botany
	NEHU, Shillong
	2. Ms. Porinita Gogoi,
	Department of Anthropology,
	NEHU, Shillong
	3. Ms. Darilin E. Reswelltang,
	_
	Ph.D. Department of
	Management, NEHU, Shillong
	4. Mr. Risamhauni Shylla,
	Department of Biomedical
(xix) Other Members	Engineering, NEHU, Shillong
(xix) (a) Not more than five persons are to be nominated by the	Vacant
visitor	vacant
(xix) (b) Not more than two persons to be nominated by the Chancellor	Vacant
(xix) (c) Not more than two persons	(w.e.f 11. 02. 2021 up to
to be nominated by the Chief Rector	10.10.2024)
to be nominated by the effect rector	1. Smti. A.Ali Nagi, Joint
	_
	Director of Higher &

	Technical Education, (T),
	Govt. of Meghalaya,
	Shillong.793001
	(w.e.f.01.05.2022 up to 30.05.
	2022)
	1. Shri O.R.Challam, Retd,
	Senior Associate Professor,
	•
	History, Panaliar Jowai
	WJHD-793150
(xx) Two members of non-teaching staff to be nominated by the	ne Vice-Chancellor
Representatives of the Non-Teaching Staff	(w.e.f. 15.09.2022 to 15.09 2025)
	1. Dr. W. R. Synrem, President,
	Non-Teaching Staff
	Association, NEHU, Shillong
	2. Shri. J. Nongbri, General
	Secretary, Non-Teaching
	Staff Association, NEHU,
	Shillong
(xxi) Representatives of State Governments	
Two representatives of the State of	1. Smti .D.Pde, Kiang Nangbah
Meghalaya to be nominated by the	College, Jowai -793150.
State Government concerned.	(w.e.f. 07.08.2019 to
	06.08.2022)
	2. Shri.S.Bhattarjee, Joint
	Director of Higher & Technical
	Education Meghalaya. (w.e.f.
	21.10.2019 up to 22.10.2022)
	w.e.f. 03.01.2023 – 02.01.2026
	1. Shri. W. L. Warjri,
	Additional Director,
	Polytechnic and
	Shillong Engineering College
	2. Shri. F. Rumnong, State
	NSS Officer, Meghalaya,
(vvii) Domaining Mambaus of the Evecutive Council	Shillong
(xxii) Remaining Members of the Executive Council	1 Duinsing 1 Caraca Caria
Members of the Executive	1. Principal, Sngap Syiem
Council, who is not otherwise	College, South West Khasi
members of the Court: for a period of 3 years	Hills District (w.e.f. 10-6-2020
	up to 09.06.2023)
	2. Principal, Ri-Bhoi College,
	Nongpoh.
	(w.e.f 21.10.2019 up to
	20.10.2022)
	3. Principal, Khar Ar Doloi
	Law College, West Jaintia
	Hills District, Jowai-793150,
	Meghalaya
·	

	(w.e.f. 22.12.2022 up to 21.12.2025)
	3. Director, Higher & Technical Education, Govt of Meghalaya, (w.e.f.
Officio)	22.7.2019 up to 21.07.2022) Registrar

Appendix B

MEMBERS OF THE EXECUTIVE COUNCIL

(Constituted under Clause 12(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) of	Prof. Prabha Shankar Shukla, Vice-Chancellor,
statute 12, Vice-	NEHU, Shillong, Email id: vcnehu@nehu.ac.in
Chancellor,	Contact No.: 03642721001
Ex-officio	
Clause 1(ii) Pro-	VACANT
Vice-	VIIOIIIVI
Chancellor, if	
any, ex-officio	
Clause 1 (iii)	1. Prof. C. Nongbri,
Four Deans of	Dean, School of Education, NEHU, Shillong.
School by	(up to 21.07.2022)
rotation	Prof.K.Debbarma,
according to	Dean, School of Social Science, NEHU, Shillong.
seniority, to be	(w.e.f. 22.07.2022)
nominated by	2. Prof. L.J.Singh, Dean, School of Technology,
the Vice-	NEHU, Shillong. (up to 24.11.2022)
Chancellor	Prof Lucy.T.V.Zehol,
	Dean, School of Human & Environmental
	Sciences, NEHU, Shillong. (w.e.f. 25.11.2022)
	3. Prof.K.M.Rao, Dean, School of Physical Sciences,
	NEHU, Shillong (up to 20.02.20223)
	Prof. Vanlalnghak, Dean, School of Humanities,
	NEHU, Shillong (w.e.f. 03.02.2023)
	4. Prof. A.P.Pati,
	Dean, School of Economics Management and
	Information Sciences, NEHU, Shillong.
	(w.e.f. 01.12.2021)
Clause 1 (iv)	1.Prof. Henry Lamin
One Professor,	Department of Anthropology
other than a	NEHU, Shillong (up to 28.02.2023)
dean by rotation	1. Prof. D.K. Nayak, Deptt. of Geography,
according to	NEHU, Shillong (w.e.f. 01.03.2023)
seniority, to be	112110, Similary (w.c.i. 01.03.2023)
nominated by	
the Vice-	
Chancellor.	
Clause 1 (v) One	1. Dr. Aseem Sinha,
Associate	Department of Basic Sciences and Social Sciences,
Professor,	NEHU Shillong.
according to	INDITO Simiong.
seniority, to be	
nominated by the	
Vice-Chancellor	
Clause 1(vi) Two	1. Principal, Sngap Syiem College,
Principals, by	South West Khasi Hills District,
rotation according to seniority, to be	Mawkyrwat-793114
determined with	(For three years w.e.f. 13.05.2020)
reference to the	
date of	2. Principal, Ri-Bhoi College,
date of	2. Finicipal, Ki-Dhoi College,

establishment of	Nongpoh-793102 (up to 26.09.2022)
the colleges	Principal, Khad-Ar-Daloi Law College,
concerned to be	West Jaintia Hills, Jowai-793150 (w.e.f. 27.09.2022)
nominated by the	
Vice-Chancellor	D'
Clause 1 (vii) Director in charge	Director, Higher & Technical Education, Govt. of
of Collegiate	Meghalaya, Shillong
Education in the	
State of	
Meghalaya	
Clause 1 (viii) Two	VACANT
members of the	
Court, to be	
nominated by the	
Visitor, none of	
whom shall be	
employee of the	
University or a	
college or an institution	
affiliated to or	
recognized by the	
University.	
Clause 1(ix)	1. Prof. Joram Aniya Tana, Department of Hindi,
Four persons to	Dera Natung Govt. College, Itanagar,
be nominated by	Arunachal Pradesh-791113.
the visitor	(for three years w.e.f. 29.12.2021)
tile visitei	2. Prof. (Dr) Bibhash Chandra Das Purkayastha,
	H.No.21.Ananda Nagar Lane-3, Adabari
	Guwahati-781012.
	(for three years w.e.f. 29.12.2021)
	3. Prof.Ganga Prasad Parsain, Vice-Chancellor,
	Tripura University, Tripura-799022.
	(for three years w.e.f. 29.12.2021)
	4. Prof. Sudeshna Bhattacharjya,
	Department of Sanskrit,
	Gauhati University, Guwahati-781014.
D	(for three years w.e.f. 29.12.2021)
Permanent	Finance Officer, NEHU, Shillong,
Invitee	Email id: fo@nehu.ac.in
Ex-officio-	Registrar, NEHU, Shillong,
Secretary	Email id: regtoffice@nehu.ac.in
	Contact No.: 03642721011

Quorum of the Committee: **7 Members;** Tenure of the Committee: **3 years**

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 nominate	ed /appointed
14. (1) The Academ	ic Council shall consist of the following members	s, namely:
Ex-officio members	s:	
(i) Vice- Chancellor, Chairman	Prof. Prabha Shankar Shukla, Vice-Chancellor NEHU, Shillong	r,
(ii) Pro-Vice- Chancellor, if any,	Vacant	
(iii) Deans of Schools,	All Deans of School NEHU, Shillong	Members
(iv) Dean of Students' Welfare,	Dr. R.L.Nongkhlaw	Member
(v) Heads of Departments and Centres	All Heads of the Department/Centre, NEHU, Shillong	Members
(vi) Librarian	Dr. F.R.Sumer	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 Heads of Departments and Centres	Members
(ix) Six Principals	of affiliated Colleges	
Principals of affiliated colleges	1. Principal Mawlai Presbyterian College Mawlai, Nongkwar, Shillong – 793017 East Khasi Hills District, Meghalaya	Member
	 Principal Phukan Memorial College Dalu – 794103, West Garo Hills District, Megh 	Member nalaya
	Principal K.L. Bajoria Colleg	Member
	Boyce Road, Shillong - 793001 East Khasi Hills District, Meghalaya.	

	Principal Member
	Don Bosco College of Teacher
	Education, Tura - 794002
	West Garo Hills District, Meghalaya.
	Principal Member
	NEIGRIHMS, College of Nursing
	Mawdiangdiang, Shillong - 793018
	East Khasi Hills District, Meghalaya.
	Principal Member
	Mairang Presbyterian Science College
	Mairang – 793120, West Khasi Hills District, Meghalaya.
	e teachers of the University, by rotation according to seniority of
which t	two shall be Associate Professors and three Assistant Professors
Representative of	ASSOCIATE PROFESSOR
teachers of the	1. Prof. Mrs V.Pakyntien Member
University	Associate Professor (up to 12.11.2023)
Chrysley	Department of Anthropology, NEHU, Shillong.
	Dr. Laphynshai Syiem (wef.21/02/2023)
	Associte Professor, Department of Creative
	. 1
	Studies, NEHU, Shillong
	2. Dr. Aseem Sinha Member
	Department of BSSS, NEHU, Shillong
	ASSISTANT PROFESSOR
	Mrs. W.S.Mylliemngap Member
	Department of Adult & Continuing Education
	NEHU, Shillong. (up to 06.08.2022)
	Smti. Jacinta I. Rapthap (w.e.f. 20.09.2022)
	Department of Adult & Continuing Education,
	NEHU, Shillong.
	2. Dr. Jonnsly W.Dkhar Member
	Department of Anthropology (up to14/06/2022)
	NEHU, Shillong.
	Dr. Jacqueline J. Thaba (w.e.f. 15.06.2022)
	Department of Library & Information Science
	NEHU, Shillong
	3. Dr. P.K.Ambasht Member
	Department of Biochemistry (up to 18.06.2021)
	NEHU, Shillong.
	Dr. Ricky A.J.Syngkon (w.e.f. 06.07.21)
:) \\':\a:\(\alpha\) == \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Department of Commerce, NEHU, Shillong
i) Visitor's Nominee:	
Four persons, not	Vacant
being employees of	
the University or of a college or	
a college or Institution by or	
affiliated	
	res of teachers from affiliated colleges
(AII) Nepresentativ	es of wachers from affinated coneges
Six teachers of	1 Vacant (ratired from college)
	1. Vacant (retired from college)
the Colleges	2. Dr. Batskhem Myrboh
admitted to the	Department of Political Science
	Synod College, Jaiaw, Shillong – 793002
	Synod Conege, Jaiaw, Sinnong – 173002

3. Dr. Prashanta Sarkhel

Privileges of the

Department of Chemistry, St. Edmunds College, Laitumkhrah Shillong – 793003
4. Shri Alphonse Richard Myrthong
Department of History, Lady Keane College
Shillong – 793001
5. Shri A.A.Jyrwa
Department of English, Tirot Singh Memorial College
Mairang – 793120, West Khasi Hills District
Meghalaya
6. Shri S.K.Pradhan
Department of Commerce, St. Anthonys College
Laithumkhrah, Shillong – 793003
ves of Students
(up to 09.01.2023)
Post –Graduate Students
1. Pradeep Arya, Department of Chemistry, NEHU, Shillong.
2. Ms. Pushpanjali Barman, Department of Sociology, NEHU, Shillong.
Research Scholar
3. Ms. Jutismita Kalita, Department of Education, NEHU, Shillong.
(w.e.f. 09.01.2023)
Post – Graduate Students
1. Ms. Sumarlangki Bareh, Department of Pol. Science, NEHU, Shillong.
2. Ms. Upasana Sarma, Department of Biochemistry, NEHU, Shillong.
Research Scholar
3. Ms. Mandita Devi, Department of Chemistry, NEHU, Shillong.
1. Director, College Development Council, NEHU, Shillong.
2. Controller of Examinations, NEHU, Shillong.
Registrar, NEHU, Shillong.

Quorum for the meeting of the - Half of the total members of the Academic Council 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)

Vice- Chancellor (Ex-officio Chairman)	1. Prof. Prabha Shankar Shukla Vice –Chancellor NEHU, Shillong
	(w.e.f. 27.7.2021 till date)
Pro-Vice Chancellor (Members)	Vacant
Dean of Schools (Ex-Officio Member)	 Dean, School of Life Sciences, NEHU, Shillong. Dean, School of Humanities, NEHU, Shillong. Dean, School of Physical Sciences NEHU, Shillong. Dean, School of Social Sciences, NEHU, Shillong. Dean, School of Economics Management & Information Sciences, NEHU Shillong. Dean, School of Human and Environmental Sciences NEHU, Shillong. Dean, School of Education NEHU, Shillong. Dean, School of Technology, NEHU, Shillong.
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
With effect from 30.09.2022 to 29. 09. 2024 for two years	
Six Readers, from NEHU to be nominated by the Vice-Chancellor, Three from	1. Dr. J. R. Marak, Department of Garo, NEHU, Tura Campus, Tura.
Human & Social Sciences and Three from	2. Dr. R. K. Mishra, Department of Law, NEHU, Shillong.
Sciences	3. Dr. Saralin A Lyngdoh, Department of Linguistics, NEHU, Shillong.
	4. Dr. P. S. Negi, Department of Chemistry, NEHU, Shillong.
	5. Dr. S. Majaw, Department of Biotechnology & Bio-informatics, NEHU, Shillong.
	6. Dr. A. K. Maji, Department of Information Technology, NEHU, Shillong.
Four External experts, two representing from Humanities & Social Sciences and two from sciences	1. Prof. Rajesh Singh, Vice-Chancellor, Deen Dayal Upadhaya Gorakhpur University Civil Lines, Gorakhpur, Uttar Pradesh-273009
	2. Prof. Kapil Deo Mishra, Vice-Chancellor, Rani Durgavati University Jabalpur, Madhya Pradesh, Vivekandand Nagar Chitrakoot, Satna, Madhya Pradesh-485334
	3. Prof. (Dr) Unnath P Pandit, Controller General of Patents Design, Trade Marks and Registration of Geographical Indications Govt of India, Ministry of Commerce & Industry Boudhik Sampada Bhavan, S M Road Antop Hill, Mumbai-400037.
	4. Prof.Alok Kumar Chakrawal, Vice-Chancellor, Guru Ghasidas Vishwavidyalaya, G. G. Koni, Bilaspur, Chhattisgarh-495009.
Secretary (Ex-Officio)	Registrar, NEHU, Shillong.