

North-Eastern Hill University
Shillong

Forty-Sixth
Annual Report



2019 - 2020

From the Vice-Chancellor's Desk



I feel privileged to present before you the Forty-sixth Annual Report on the activities and achievements of our University for the year 2019–2020. This Annual Report is a reflection of the milestones that we have achieved through our overall endeavour to strive towards excellence. In its 46 years of existence, NEHU has achieved distinction and recognition in both academic and non-academic domain. The achievements for the period under report reflects the University's motto – **RISE UP and BUILD**.

NEHU is committed to achieving what it has been set up as objectives with a vision to develop academic leadership, keeping in consonance with the national and global perspective that values diversity and inclusion. Its mission is, therefore, to achieve excellence in teaching, learning and research, capacity building, social outreach, skill development and innovative academic programmes.

The University is spread over two campuses located in Shillong and Tura with 44 teaching departments and one centre. There are 310 teachers and 5007 students with an appreciable teacher-student ratio of 1: 16. There are 72 colleges affiliated to NEHU, which offers undergraduate and postgraduate courses in different disciplines. In this reporting period, 14502 students from the University were awarded degrees in its XXVI convocation graced by His Excellency Mr. Ram Nath Kovind, the Honourable President of India, as the Chief Guest.

The academic output involving research activities of the faculty during 2019–2020 has been satisfactory with approximately 683 research papers published in national/international journals of repute including books, book chapters and conference proceedings. The academic departments of the University organized as many as 97 national and international

seminars, conferences and symposia. Many of our faculty members were involved in 115 extramural research projects funded by national and international agencies. During 2019–2020, 29 research projects were successfully completed and a good number of consultancy services were rendered by our faculty. Several collaborative research projects were also executed by the University faculty in various disciplines of Arts, Science and Technology during the period.

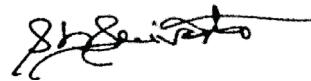
NEHU signed an MoU with IIT Guwahati with the objectives, viz. IITG- academic support to NEHU, internship programmes at IITG, joint degree programmes, IITG faculty support to NEHU and vice-versa, short-term training programmes, guidance in infrastructure development, joint twinning programmes, creation of Centre of Excellence and joint short-term programmes and workshops, thus to facilitate co-operation for developing new areas of R&D at NEHU.

In a follow-up to the visit of Her Royal Highness of Thailand, Princess Maha Chakri Sirindhorn two years ago, the academic collaboration between NEHU and Chulalongkorn University, Bangkok was strengthened further through an animated workshop organized by NEHU, Shillong, in collaboration with a team of innovators, graphic designers and artists from Chulalongkorn University, Bangkok.

The University sent 22 number of students to Japan under the exchange programme, 'IRIS', an initiative fully sponsored by the Govt. of Japan, with an objective to promote talented students of the North-East India, to understand Japanese culture, technology in the fields of environment and disaster prevention.

The Incubation Centres at the Shillong and Tura campuses were inaugurated this year, with an objective to attract talented students to share their innovative ideas for transformation into products and thus useful for the society at large.

I would like to place on record my sincere gratitude and indebtedness to the teaching and non-teaching staff, students and other stakeholders for their untiring efforts and contributions made towards achieving the goals of the University. I am grateful to the members of the Editorial Board for their commitment in timely completion of the Annual Report, which presents a gist of valuable information about North-Eastern Hill University for the year 2019–2020.

A handwritten signature in black ink, appearing to read 'Sh. S. S. S.', with a long horizontal flourish extending to the right.

Vice-Chancellor

Executive Summary

North-Eastern Hill University (NEHU) is a Central University established on May 26, 1973 by an Act of Parliament of India. It became functional on July 19, 1973 with the appointment of Dr. Chandran D. S. Devanesen as its first Vice-Chancellor. The University has its headquarters located at Shillong and a campus at Tura, Meghalaya. The motto of the University is **“Rise up and Build”**. The main objective of the University is “to disseminate and advance knowledge, pay special attention to the improvement of the social and economic conditions and welfare of the people of the hill areas in North-East India, particularly their intellectual, academic and cultural advancement”.

This Annual Report showcases the diverse activities and achievements of various Departments, centres, administrative Departments and central services of the University from April 01, 2019 to March 31, 2020.

Background

The University has eight schools, viz. 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 44 academic Departments and one centre of studies (Figure 1), while 35 Departments and 01 centre of studies are located in Shillong campus, nine academic Departments are located in Tura campus.

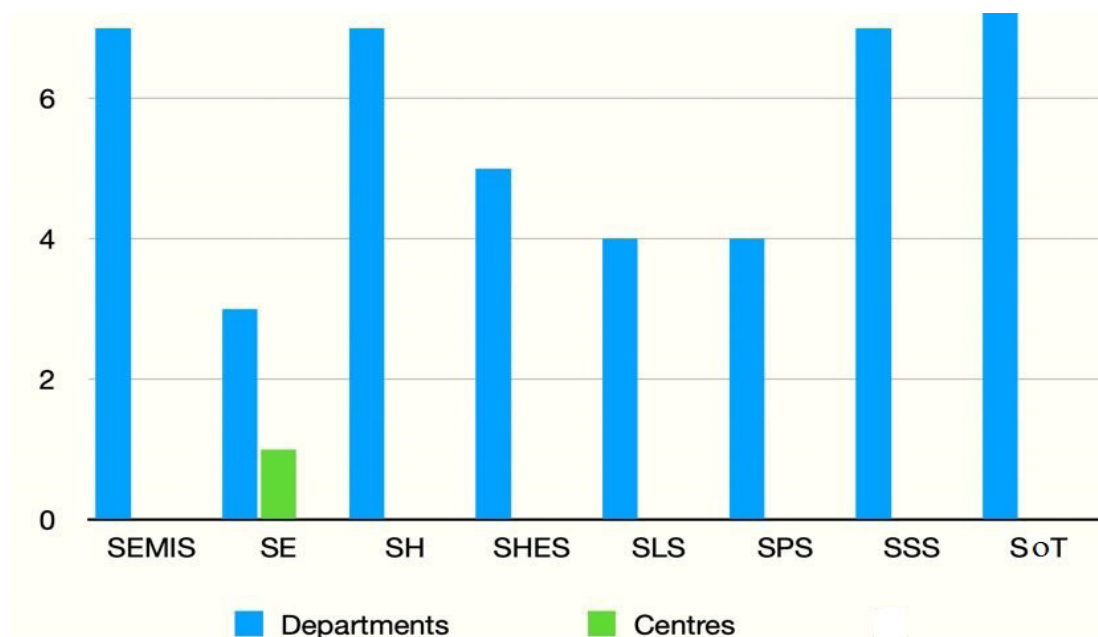


Figure 1. Departments and Centres in each School

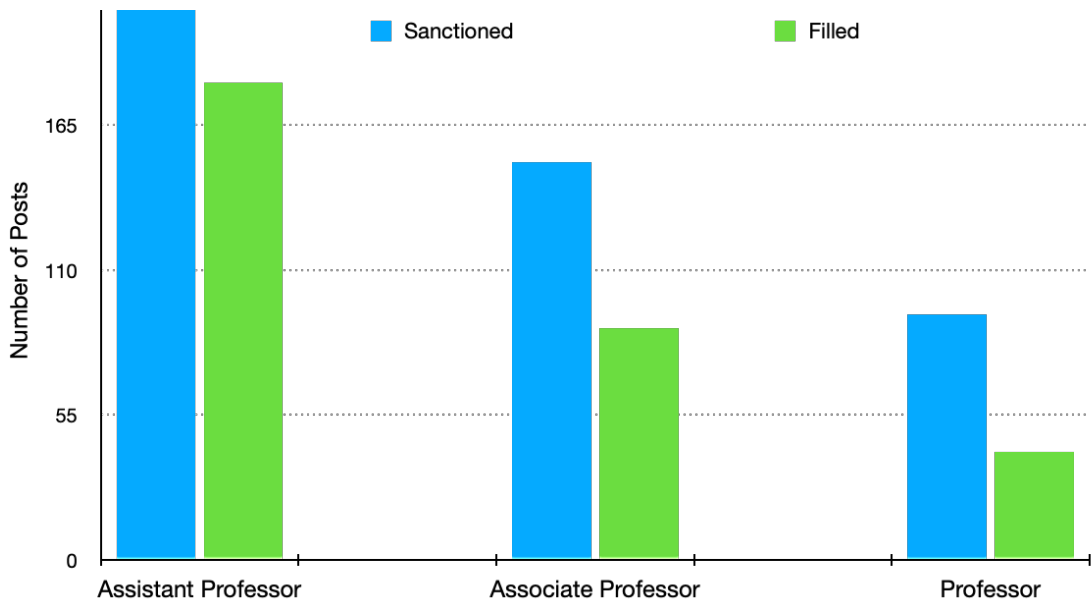
The Academic Departments of the University offer postgraduate and Ph.D. Programmes in various disciplines. Some Departments also offer undergraduate and M.Phil. programmes, in addition to conducting research and extension activities. Several Departments received financial assistance under SAP from the University Grants Commission (UGC) and under FIST from the Department of Science & Technology (DST), Govt. of India. The departments of Botany and Chemistry have been recognized as Centres for Advanced Studies (CAS) by the UGC. The University has a DBT-sponsored Bioinformatics Centre (BIC), a DST-supported Sophisticated Analytical Instrument Facility (SAIF) and the UGC-supported Human Resource Development Centre (HRDC). The University has 71 Colleges affiliated to it offering undergraduate programmes. Some of these colleges also offer postgraduate programmes. The North-Eastern Indira Gandhi Regional Institute of Health and Medical Sciences (NEIGRIHMS), a referral institute for medicine and health services for the region, established by the Union Ministry of Health & Family Welfare, Govt. of India is also affiliated to NEHU, and offers academic programmes in Medicine and Nursing. The University has also started one Deen Dayal Upadhyaya Community College at Wahiajer, Jowai for skill development of rural people in the Jaintia Hills.

The University has received several endowments from various organizations and eminent individuals. The University has instituted several awards like the President of India Dr. Shankar Dayal Sharma Gold Medal, Smt. Sarada Krishna Iyer Memorial Award, U Tirot Sing Memorial Prize, Rajendra Kumar Sunheri Devi Jain Charitable Award, U Kiang Nangbah Memorial Award, Prof. M. K. Khare Memorial Prize, Prof. M. N. Karna Young Sociologist Award, Dr. D. S. Babu Memorial Award and Prof. S. S. Khare Promising Mathematician Award. Some of the University faculty members have been conferred with several Civilian Honours, viz. Padma Shri, Padma Bhushan etc. in the past.

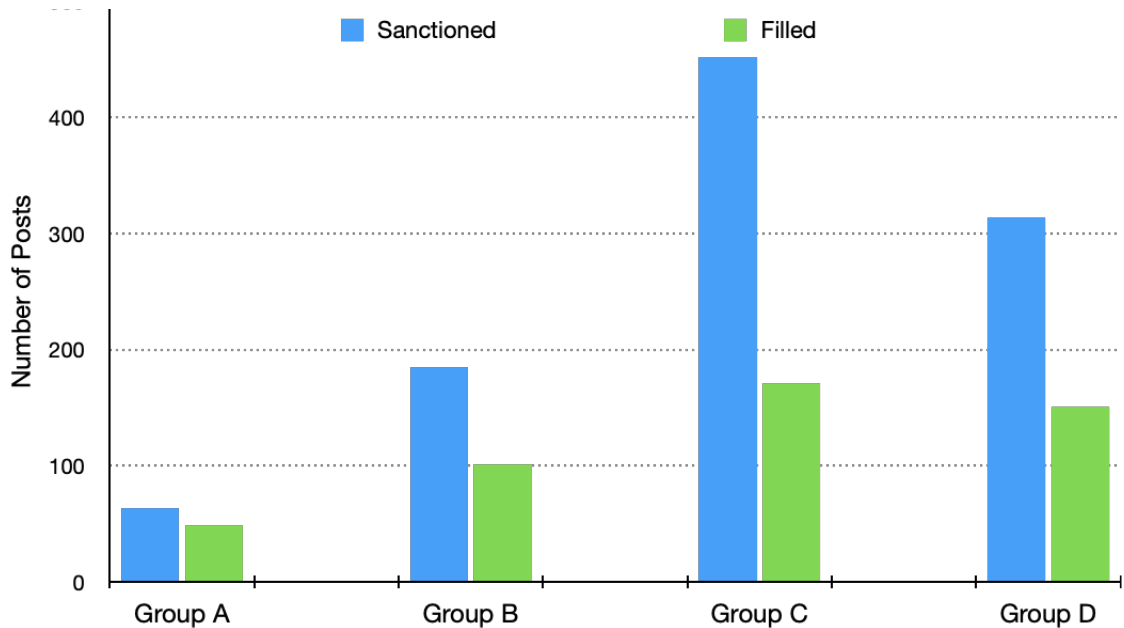
The University has Central Services, which facilitate the educational and research activities as well as health, sports and other civic activities for the general welfare of the University community. The Central Services include the Central Library, Voice and Data Network, Health Centre, Career and Counselling Cell and Students' Welfare Cell. Other Central Services are Guest Houses, College Development Council, Hindi Cell, Equal Opportunity Cell, Pension Cell, Women's Cell, RTI Cell, Internal Complaints Committee, Internal Quality Assurance Cell, National Service Scheme Cell, Incubation Centre, Design Innovation Centre, Sports Department and Campus Development Department. NEHU has extended its 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), Sports Authority of India (SAI) and the Shillong Science Centre.

Teaching faculty and Non-teaching staff

The University has 467 sanctioned positions of teachers, of which 310 have been filled and 157 posts are lying vacant (Figure 2).



The total sanctioned positions of non-teaching staff in the University are 1013. Among these 64 are in Group-A, 185 in Group-B, 451 in Group-C and 313 in erstwhile Group-D. At present, the filled-in posts are 472 and the vacant posts are 541 (Figure 3).



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 Choice Based Credit System (CBCS) for PG courses and is all set to introduce it at the UG level as well. During 2019–20, 5007 students were enrolled in degree/diploma/certificate programmes in various Departments of the University. Of them, 16 students are from Asian and African countries. The student-teacher ratio is 16:1 in the University during the period under report. The enrolment of students for various academic programmes in the University is detailed in Table 1 and Figure 4.

Table 1: Enrolment of students in various programmes of the University

Programmes	GEN		ST		SC		OBC		Total	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
B.A. LLB. (Hons)	11	18	127	146	0	3	0	0	138	167
B.Arch.	51	41	30	21	7	4	0	2	88	68
B.Tech.	202	59	196	60	62	12	20	3	480	134
UG Total	264	118	353	227	69	19	20	5	706	369
M.A.	34	106	370	948	5	8	6	18	415	1080
M.Sc.	59	72	188	326	5	3	6	6	258	407
M.Com.	7	12	45	35	1	1	0	0	53	48
M.L.I.Sc.	0	1	24	35	0	0	0	0	24	36
MBA (GM)	17	16	13	8	1	1	0	0	31	25
MBA (SM)	6	2	1	3	0	0	0	0	7	5
MBA (ABFT)	0	3	20	9	0	0	0	0	20	12
MCA	17	4	20	15	0	0	0	0	37	19
MTTM	3	5	24	27	0	1	0	0	27	33
LL.M.	0	1	7	13	0	1	0	0	7	15
M.Ed.	0	3	15	70	1	0	1	0	17	73
M.Tech.	11	14	30	18	2	2	3	0	46	34
PG Total	143	225	727	1489	13	15	13	24	942	1787
M.Phil.	1	12	9	16	0	1	2	3	12	32
Ph.D.	148	151	227	307	34	17	25	28	434	503
PG Diploma	29	21	18	27	3	2	4	0	54	50
FC SEDE	5	8	42	59	0	1	1	2	48	70
SubTotal	601	549	1406	2143	121	57	68	62	2196	2811
Total	1150		3549		178		130		5007	

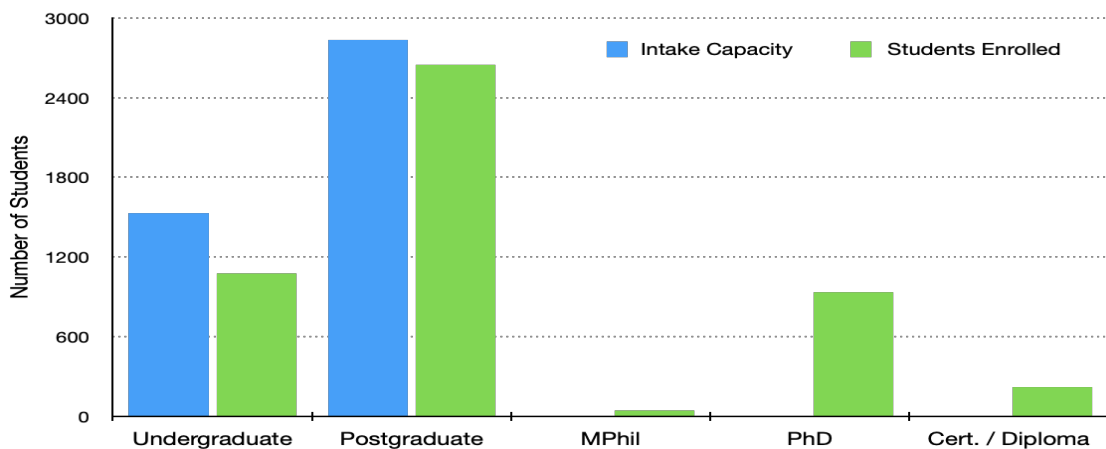


Figure 4: Course-wise Student Enrolment Status (2019 - 2020)

Enrolment of students from different states of India for the academic year 2019-2020 is detailed in Table 2 and Figure 5.

Table 2. Enrolment of students from different States in the University

	GEN		ST		SC		OBC		Total	
States	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Arunachal Pradesh	2	2	25	32	0	0	0	0	27	34
Assam	227	187	98	92	45	20	11	20	381	319
Bihar	8	0	0	0	1	0	0	0	9	0
Delhi*	3	2	0	0	0	0	0	0	3	2
Gujarat	0	2	0	0	0	0	0	0	0	2
Jharkhand	1	0	0	0	0	0	1	0	2	0
Kerala	0	4	2	4	0	0	0	0	2	8
Madhya Pradesh	1	0	0	0	0	0	0	0	1	0
Maharashtra	1	0	0	0	0	0	0	0	1	0
Manipur	10	9	35	46	1	1	1	0	47	56
Meghalaya	308	321	1178	1838	65	32	48	42	1599	2233
Mizoram	4	2	27	29	0	1	0	0	31	32
Nagaland	2	3	38	89	1	0	0	0	41	92
Odisha	1	0	0	0	0	0	0	0	1	0
Punjab	3	0	0	0	0	0	0	0	3	0
Sikkim	1	1	0	2	0	0	0	0	1	3
Tripura	2	5	3	9	0	1	4	0	9	15
Uttar Pradesh	5	0	0	0	1	0	1	0	6	1
West Bengal	13	4	0	2	7	2	2	0	22	8
International	9	7	0	0	0	0	0	0	9	7
Sub Total	601	549	1406	2143	121	57	68	62	2195	2812
Total	1150		3549		178		130		5007	

*Union Territory

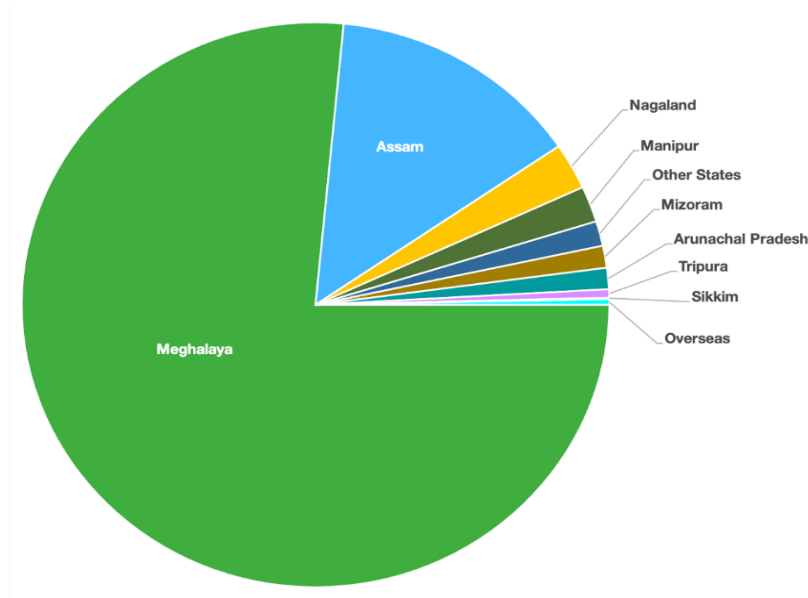


Figure 5: Student Enrolment from Within and Outside North-East India (2019 - 2020)

Figure 5: Enrolment of students within and outside North-East India (2019-2020)

Category-wise enrolment of students in Different Programmes (2019 - 2020), has been detailed in Figure 6.



Figure 6. Category-wise students' enrolment in various programmes

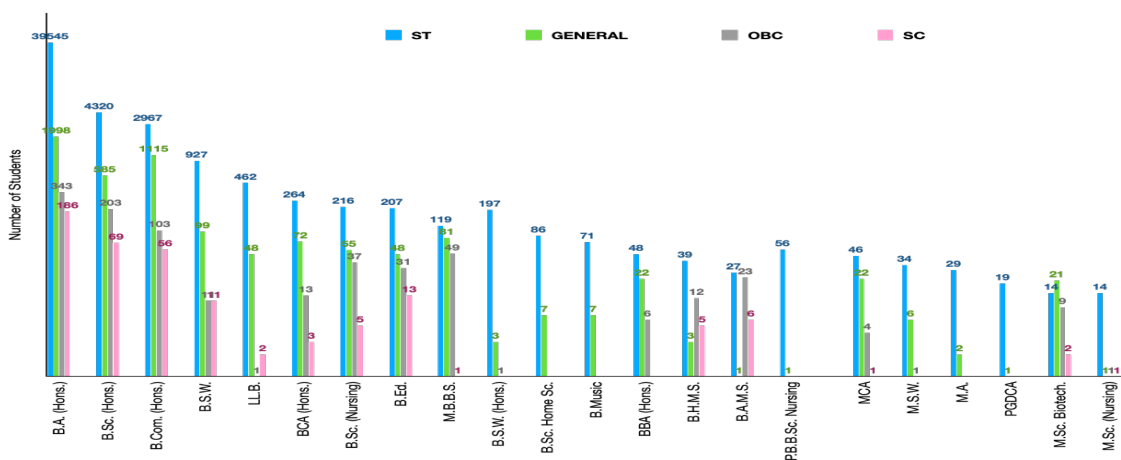


Figure 8: Course-wise Student Enrolment Status in Affiliated Colleges (2019 - 2020)

Figure 7. Course-wise Enrolment of Student in Affiliated Colleges (2019 – 2020)

Seventy-two affiliated colleges are affiliated to the University. The student enrolment in affiliated colleges of the University is detailed in Table 3 and Figure 7.

Table 3. Enrolment of Students in Affiliated Colleges for the Academic Year 2019-20

Courses	GENERAL		ST		SC		OBC		Total	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
B.A. (Hons)	828	1170	16557	22988	75	111	104	239	17564	24508
BBA (Hons)	12	10	32	16	0	0	5	1	49	27
BCA (Hons)	62	10	148	116	2	1	8	5	220	132
B.Com. (Hons)	664	451	1631	1336	30	26	55	48	2380	1861
B.Ed .	20	28	78	129	8	5	10	21	116	183
B.S.W. (Hons)	0	3	0	197	0	0	0	1	0	201
B.Sc. (Hons)	277	308	1858	2462	35	34	90	113	2260	2917
B.Sc. (Nursing)	8	47	5	211	0	5	3	34	16	297
B.Sc. Home Sc.	0	7	0	86	0	0	0	0	0	93
B.Mus.	6	1	52	19	0	0	0	0	58	20
B.A.M.S.	1	0	6	21	4	2	16	7	27	30
B.H.M.S.	1	2	13	26	3	2	5	7	22	37
B.S.W.	41	58	693	234	10	1	7	4	751	297
LL.B.	22	26	234	228	2	0	1	0	259	254
M.B.B.S.	49	32	59	60	1	0	28	21	137	113
UG Total	1991	2153	21366	28129	170	187	332	501	23859	30970
M.A.	0	2	3	26	0	0	0	0	3	28
M.C.A.	17	5	28	18	0	1	4	0	49	24
M.Sc. (Nursing)	0	1	1	13	0	1	0	1	1	16
M.Sc. Biotech.	4	17	4	10	1	1	3	6	12	34
M.S.W.	1	5	8	26	0	0	0	1	9	32
P.B.B.Sc. Nursing	0	1	0	56	0	0	0	0	0	57
PGDCA	0	1	8	11	0	0	0	0	8	12
PG Total	22	32	52	160	1	3	7	8	82	203
Grand Total	4198		49707		361		848		55114	

Table 4. Details of degrees awarded for various programmes in 2019-2020

Degree	In Person	In Absentia	Total
PhD	106	30	136
MPhil	18	23	41
Postgraduate	706	636	1342
Undergraduate	1159	11824	12983
Total	1989	12513	14502

Degrees Awarded

A total of 14,502 students were awarded degrees by NEHU in 2019–20 in various programmes, as detailed in Table 4.

Publications and Presentations

- In 2019–20, various Departments of the University organized 97 academic events such as conferences, seminars, symposia and workshops of which 89 were National, and 08 were International.
- Scholarly publications in peer-reviewed journals by the faculty included 213 research papers in journals published in India and 266 in journals published abroad. The faculty members have also authored/edited 40 books and 164 book chapters in edited volumes including seminar and conference proceedings (Figure 8).
- Faculty members of the University were actively involved in 115 research projects sanctioned by various funding agencies, viz. the UGC, DST, DBT, CSIR, DRDO, ICMR, DAE (BRNS), ICSSR, ICAR and NEC, out of which 24 were sanctioned during the year under report, 62 are ongoing project and 29 have been completed.



Figure 8: Publications in various categories (2019-2020)

Academic Collaborations

Academic collaboration is an integral part of teaching and research as enshrined in the Act and Statutes of NEHU. One of its main objectives is to collaborate with other universities and research organizations for such academic purposes. During the year, the University has signed MoUs with IIT Guwahati and several other institutions of National and International repute. Besides, the faculty members have also established academic collaborations with eminent scholars and scientists within and outside the country.

Hostel Accommodation

In total, the University has 26 hostels. The Shillong campus has 12 hostels for males, 11 for females and 01 for International students whereas the Tura campus has 01 hostel each for male and female students. A total of 2193 students were provided hostel accommodation at Shillong and Tura campuses during the year under report. Of these the campus residential facility was availed by 48% female and 52% male students. As many as 1304 students (59%) belonging to the Scheduled Tribe category were allotted hostel accommodation. The category-wise number of students residing in University hostels are shown in Figure 9.

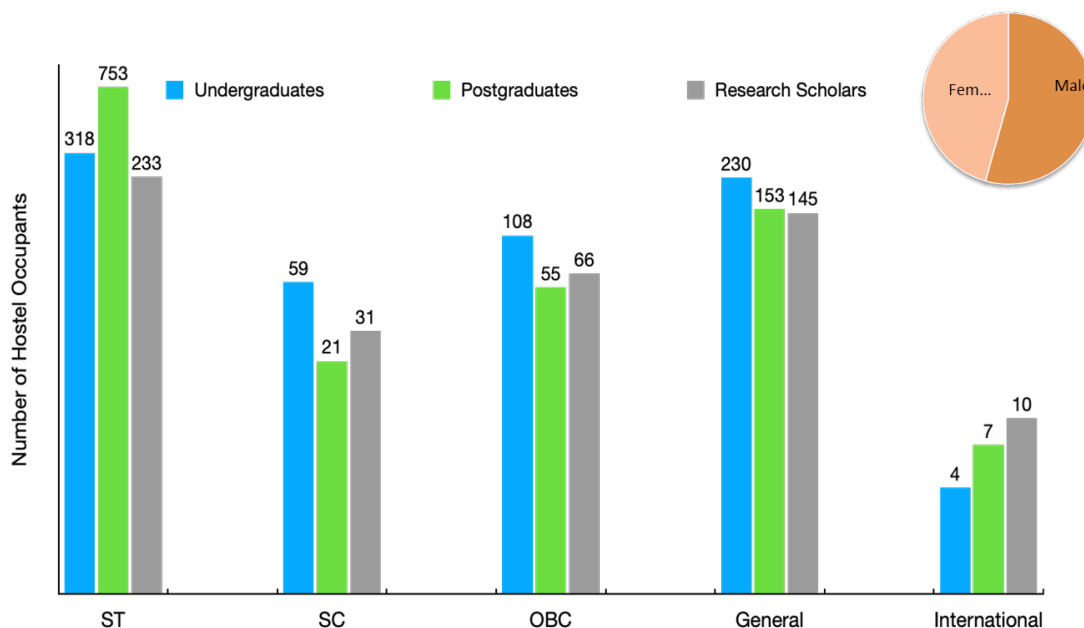


Figure 9: Number of Students provided with Hostel Accommodation (2019 - 2020)

The Massive Open Online Courses (MOOCs) was adopted by the University in May 2019, as an integrated course of the academic curricula for all programmes of the University. The MOOC's action programme was promoted for the students and faculty in accordance with the UGC Regulation on the Credit Framework for Online Learning Courses through SWAYAM. A two-day workshop on MOOCs was organized during May 28 - 29, 2019 with the goal of acclimatizing the participants on the adoption, promotion and development of MOOCs on the SWAYAM platform.

During 2019-2020, the Hon'ble President of India, Shri Ram Nath Kovind visited the University and graced the XXVI Convocation on November 04, 2019. He conferred the Degree of Doctor of Letter (Honoris Causa) on Shri Kanubhai Hasmukhbhai Tailor, for his outstanding contributions in advancing the cause of humanitarian services for specially-abled persons. The Minister of Human Resource Development, Govt. of India, Dr. Ramesh Pokhriyal 'Nishank' e-inaugurated the Incubation Centre at Tura Campus on February 14, 2020 and the Minister of State for Social Justice and Empowerment, Govt. of India, Shri Ramdas Athawale inaugurated the Incubation Centre of NEHU at Shillong Campus on August 28, 2019.

Of the 50 members delegation from North-East India, 22 students from the University participated in the 3rd IRIS Programme (A Youth Initiative Programme undertaken by the Ministry of Foreign Affairs, Government of Japan), in Japan from February 01 to February 08, 2020. The University organized several events and observed the days of National and International significance as mandated by the UGC and MHRD, Govt. of India during the year.

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 higher position in terms of student-enrolment, student-teacher ratio, female-to-male ratio enrolment, and above all, teaching and research activities. The University's potential for excellence in teaching and research has also been endorsed by the National Assessment and Accreditation Council (NAAC), which has accredited the University with 'A' Grade. The National Institutional Ranking Framework (NIRF) has ranked NEHU 74th overall position in India and at 49th position among Indian universities in 2019–2020.

Major Highlights (2019-2020)

- **Gender Parity Index** for students' gross enrolment (female to male students) ratio is 1.30. The highest value of female student enrolment was from Meghalaya with female to male student ratio of 1.39.
- There were **16 international students** from Asian countries (Bangladesh, Bhutan, China, Myanmar, South Korea, Sri Lanka, Thailand) and African countries (Namibia, Nigeria, South Africa) for the period under report.
- **Total number of Publications** for the year 2019-2020 was 683.
- Twenty-two students from the University participated in the 3rd IRIS Programme in Japan from February 01 to February 08, 2020.
- The NSS units under NSS Cell, NEHU adopted 42 villages from Meghalaya.
- Important events organized in NEHU
 - The International Yoga Day on June 21, 2019.
 - The Run for Unity on October 31, 2019 to mark the National Unity Day.
 - The National Sports Day on October 16, 2019 in commemoration of the birth anniversary of Major Dhyan Chand.

NORTH-EASTERN HILL UNIVERSITY

Visitor
Chief Rector

President of India
Governor of Meghalaya

Officers of the University

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Vice-Chancellor	Prof. Sri Krishna Srivastava
Pro-Vice-Chancellor (Shillong)	Prof. H. Lamin
Pro-Vice-Chancellor (Tura)	Prof. G. Singaiah
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Dean, School of Education	Prof. S. M. Sungoh (up to July 21, 2019) Prof. C. Nongbri (w.e.f. July 22, 2019)
Dean, School of Humanities	Prof. Streamlet Dkhar
Dean, School of Human and Environmental Sciences	Prof. R. Khongsdier
Dean, School of Life Sciences	Prof. B. B. P. Gupta
Dean, School of Physical Sciences	Prof. R. H. D. Lyngdoh (up to February 02, 2020) Prof. K. Mohan Rao (w.e.f. February 03, 2020)
Dean, School of Social Sciences	Prof. C. A. Mawlong
Dean, School of Technology	Prof. Gautam Saha (up to November 24, 2019) Prof. Lairenlakpam Joyprakash Singh (w.e.f. November 25, 2019)

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