

North-Eastern Hill University



Dr. J. S. D. O.
22/10/16

Forty First Annual Report



2014-2015

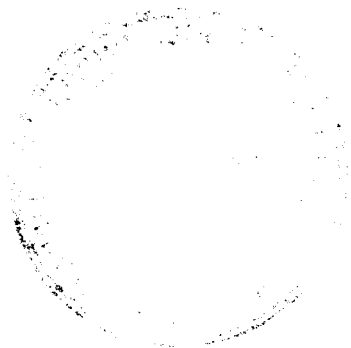


वर्ग-कक्ष समूह
(OTHER THAN SCIENCES)
CLASSROOM CLUSTER



Forty First

Annual Report



North-Eastern Hill University

Shillong

Forty First

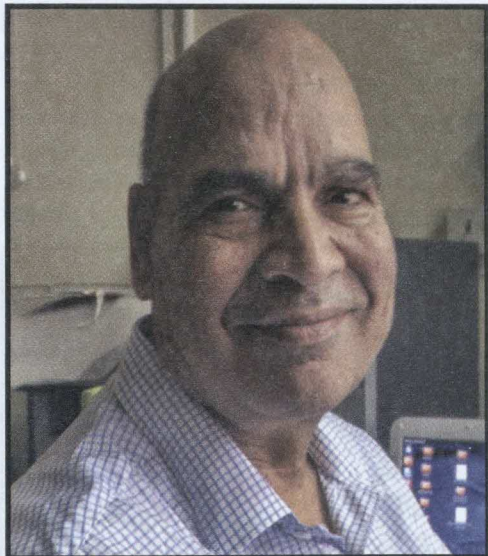
Annual Report



2014 – 2015

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From the Vice-Chancellor's Desk



Greetings from North-Eastern Hill University!

Since its establishment in 1973, NEHU has grown in size and stature to become the Flagship University of the north-east. Annual report for the financial year 2014-2015 gives an account of the university's activities and accomplishments in the 42nd year of its existence. As in the past, we have strived for excellence in our teaching, research, and service to the community. A record number of 10547 students graduated with various undergraduate and post-graduate degrees in the year 2014. This is an impressive record but not a reason for complacency as so much more is expected of us.

We are the oldest and the largest central university in the north-east, and are still growing. This is a matter of pride, but it also puts severe demands on our resources. Repair and maintenance of old buildings, roads, electrical and water supply systems are beginning to seriously dent our plans for new buildings and equipment for new laboratories. Government grants turn out to be only a fraction of our proposed requirements. This puts us in a very difficult situation and we have to look for ways of generating additional revenue in the years to come.

The higher education scenario in the country is in a flux. The nation is asking why our universities do not figure in the top hundred universities of the world. Why we are so far behind advanced countries in innovation and discovery. There is an urgent need to shift gears from reproducing knowledge to creating knowledge. This is easier said than done. It is bound to be a slow process involving action on many fronts: revision of course content, nature of interaction with students, examination reforms, inclusion of alumni in the governance of the university, linkage with industry etc. A relatively simple task of introducing semester system at the undergraduate level has taken us several years to complete this year. The reason lies in the inherent conflicts between the centralized examination system of an affiliating university and the freedom of the semester system at the classroom level.

Notwithstanding various difficulties, we along with other sister universities in the

country have set the wheels in motion for reform in higher education in the country. We hope things will improve in the years to come.

Finally, I should like to thank the Editorial Board of this Annual Report for

putting together the necessary information for your perusal.

Prabodh Shukla

Prabodh Shukla

Executive Summary

The North-Eastern Hill University (NEHU), established in 1973 by an Act of Parliament, is one of the oldest Central Universities of the North-East Region of India with its headquarter at Shillong and a Campus at Tura in Garo Hills. The University with its existence of more than four decades is continuously growing and improving its performance year after year. The present Annual Report (2014-15) contains the activities and achievements of the North-Eastern Hill University for the period from April 2014 to March, 2015. The University is comprised of the following eight schools with 44 departments and 2 centres as given below in Figure 1.

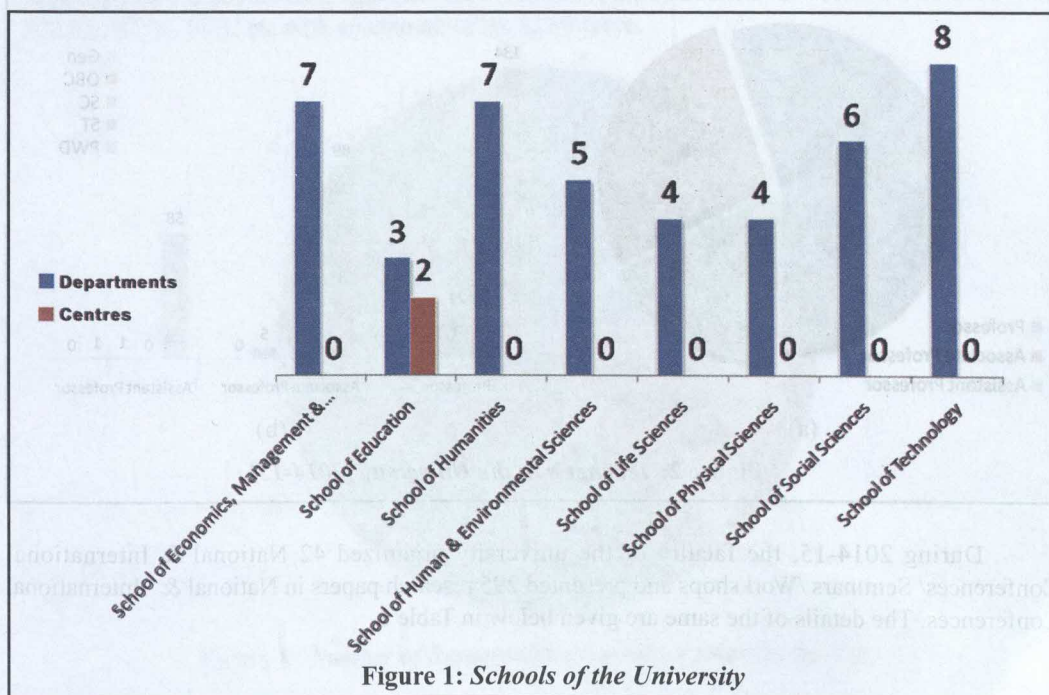


Figure 1: Schools of the University

These eight schools provide undergraduate and post graduate courses in various disciplines. Out of these 44 departments, 9 departments are situated at Tura Campus, Tura including one new department of Agribusiness Management and Food Technology which started functioning during 2014-15. Many of its departments are covered under SAP and Advanced Centre Schemes of the UGC. A large number of the departments had collaborative programmes with other institutes of repute within and outside India. Besides, the University has 64 colleges affiliated to it which includes

North Eastern Indira Gandhi Regional Institute of Health & Medical Science (NEIGRIHMS) offering MBBS and MD/MS courses and some minority educational institutions around the country in places like Gauhati and Surat.

The University also runs a number of Central Services like Central Library, Voice & Data Networks, Health Centre, Placement Cell, Student's Welfare Cell (each at Shillong Headquarter & Tura Campuses) and UGC- Human Development Centre, Bioinformatics Centre, Computer Centre, Hindi Cell, Equal Opportunity Cell, IQAC Cell, NSS Cell, Publication Unit, Sophisticated Analytical Instrument Facility (SAIF), Sports Department, Women's Cell, Campus Development Department and Career and Counseling Cell (at Shillong) which provide centralized services related to the educational & research activities and also to the health, sports and general welfare of the University Community.

At present, the university has 345 teachers in position at different levels as given in Figure 2.

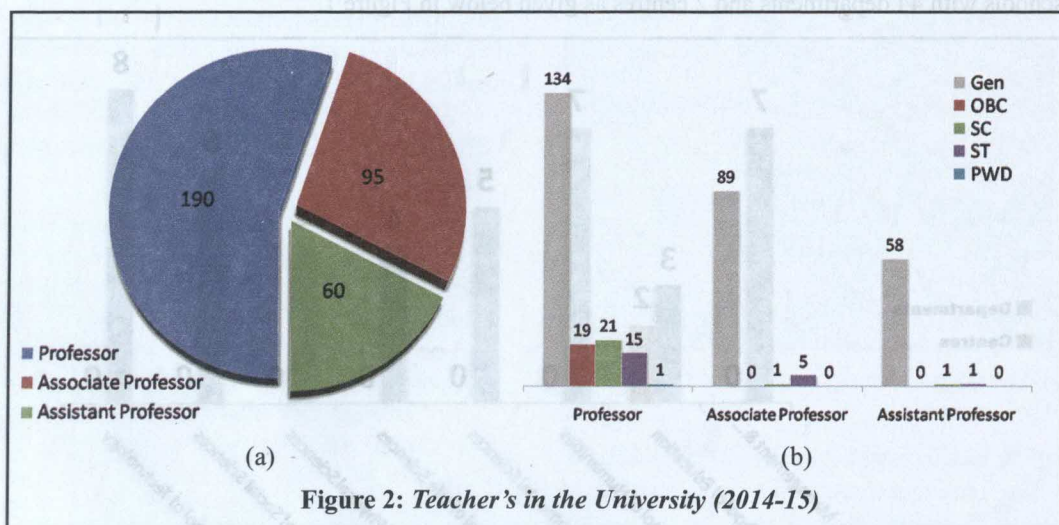


Figure 2: Teacher's in the University (2014-15)

During 2014-15, the faculty of the university organized 42 National & International Conferences/ Seminars /Workshops and presented 295 research papers in National & International Conferences. The details of the same are given below in Table 1.

Table 1: *Number of Seminar / Conferences / Workshops Organized and Research Papers Presented*

Sl. No.	Event	Seminars/Conferences/Workshops		Total
	Task	International Level	National Level	
1.	Organized	6	36	42
2.	Papers Presented	80	215	295

Besides teaching & extension activities, the faculty was also actively involved in 149 research projects during the period under report. Of these, 34 projects were completed, 28 new projects were sanctioned and about 87 projects are still going on. The same is given in Figure 3. These projects were supported by various funding agencies like UGC, DST, DBT, CSIR, DRDO, ICMR, DAE (BRNS), ICSSR, ICAR, NEC etc with an amount of Rs 32.90.crore.

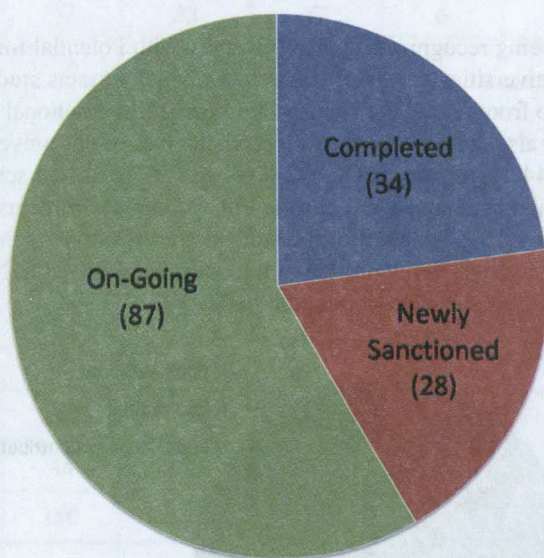


Figure 3 : *Number of Research Projects under taken by the Faculty*

Publications by the faculty included 265 research papers in National Journals, 242 in International Journals, 47 papers in Proceedings of Seminars/ Conferences, 39 Books Authored, 16 books edited, 131 chapters contributed in books by the faculty. In recognition of the academic achievements, many of the faculty members of the University have been awarded fellowship like FNA, FASc and FNASc etc. The same is given in Figure 4 & 5.

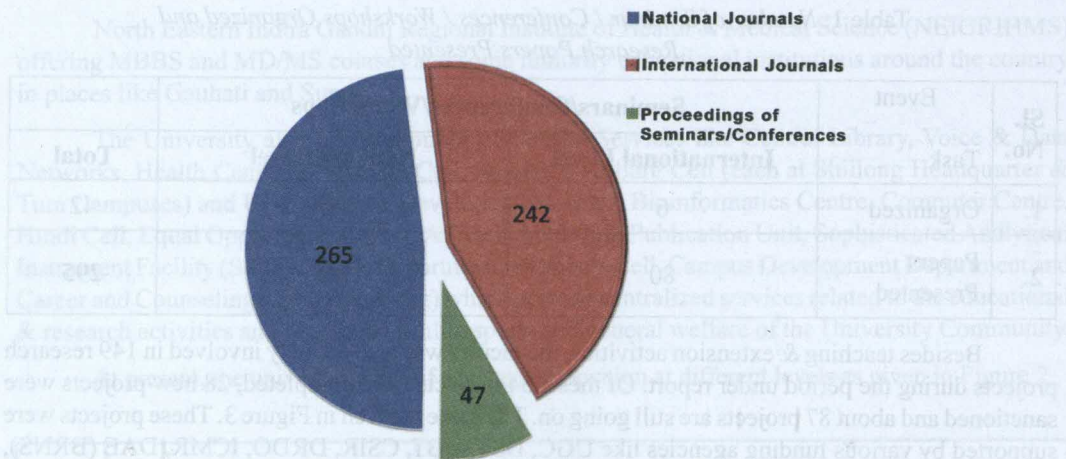


Figure 4: Research Papers Published by the Faculty in Journals etc.

The University, being recognized as the University with Potential for Excellence (2007-12), is one of the reputed Universities of North East India which attracts students not only from the North-East India but also from rest of the country. Numbers of International Scholars from different developing countries are also enrolled for their research degrees of this university. During the period under report, a total of 4472 students at UG/PG level and 817 research scholars at M.Phil / Ph.D level (including 10 foreign scholars) were enrolled in various departments of the university with a teacher-student ratio of 1:15. The detail of the student enrolment is given in Table 2. In addition to this, a total of 46900 students were enrolled in the colleges affiliated to NEHU in 2014-15, thus making the total strength of the student population to 52,189.

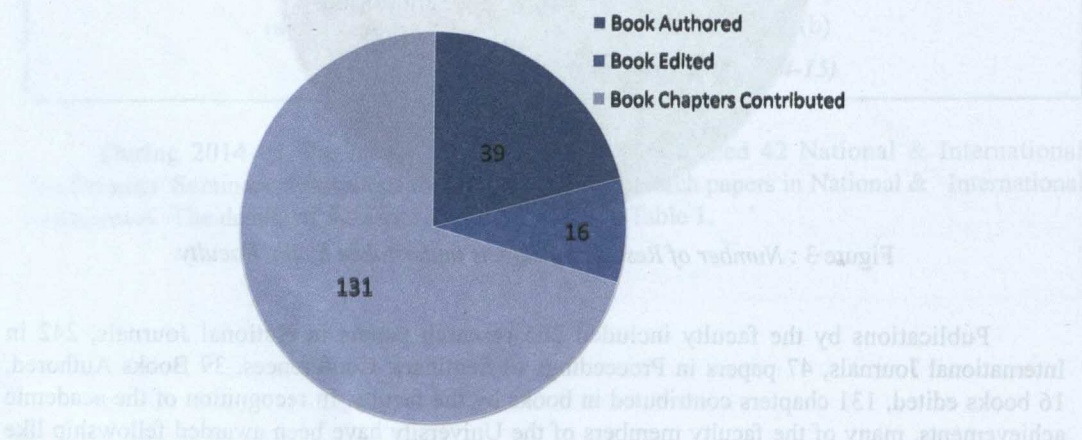


Figure 5: Book Authored/ Edited/ Book Chapters Contributed by the Faculty

Table 2: Student Enrolment in the Departments of the University (2014-15)

Sl. No.	Courses	Gen	ST	SC	OBC	M/F	Total
1	B.A. LLB	31	270	8	2	137/174	311
2	B. Arch	17	11	0	0	16/12	28
3	B Ed (SEDE)	149	157	19	74	154/245	399
4	B. Tech	276	286	90	42	534/160	694
5	M.A	64	1338	5	8	413/1002	1415
6	M. Sc	114	309	9	3	281/354	635
7	M.Com	18	71	1	1	29/62	91
8	M Lib Info Sc	12	33	0	6	22/29	51
9	MBA	14	58	3	1	46/30	76
10	MCA	8	17	0	1	17/9	26
11	MFA	0	15	0	0	8/7	15
12	M. Tech	27	31	11	1	47/23	70
13	LLM	3	7	0	0	2/8	10
14	M. Ed	1	22	0	0	4/19	23
15	M. Phil	18	50	2	4	31/43	74
16	Ph. D	274	410	33	26	373/370	743
17	P G Diploma	48	41	8	10	43/64	107
18	FC SEDE	180	240	20	81	341/180	521
Grand Total		1254	3566	209	260	2498/2791	5289

Presently, 743 research scholars are registered for the Ph.D programme and 74 for M.Phil programme all of which are receiving one or the other kind of fellowship for their research work. During the period under report, out of 191 admitted for Ph.D programme, 82 scholars are getting UGC- NET / JRF, 2 CSIR-JRF, 2 GATE fellowship, 22 Rajiv Gandhi National Fellowship, 17 ICSSR Fellowship and 2 Maulana Azad National Fellowship etc. The rest of the research scholars have been provided Non-NET Fellowship under the University Scheme. The same is given in Figure 6.

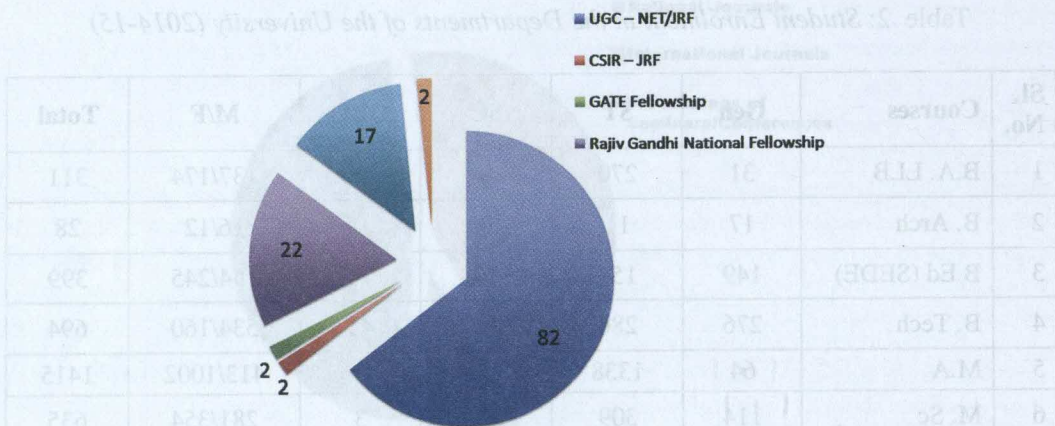


Figure 6: Fellowship Received by the Research Scholars

During the Twenty Second Convocation of the University held on 25th November 2014, a total number of 10,547 students of the various colleges and the departments of the university were awarded various degrees. Out of this, a total of 1,537 university students received various degrees viz: 370 students Bachelor's Degrees, 1007 Master's Degree, 13 M.Phil Degree, 111 Ph.D Degree and 36 P.G Diploma. The Table 3 given below shows the detailed classification of various categories of degrees awarded to the university students.

Table 3: Number of University Students Awarded Degrees/ Diplomas for various Courses (2014-15)

Degree	Gen	ST	SC	OBC	M	F	Total
BA LLB (Hons)	6	23	1	0	7	23	30
B Ed (Spl Edn)	32	41	1	9	43	40	83
B Tech	124	80	19	34	200	57	257
M.A	29	568	6	3	187	419	606
M.Sc	74	161	5	2	92	150	242
M.Com	7	19	1	0	13	14	27
M. Lib. Info. Sc	1	19	0	2	6	16	22
M.B.A	13	26	0	0	17	22	39
M.C.A	15	4	1	0	11	9	20
M.S.W	0	28	0	0	8	20	28
M.Ed (2013)	3	20	0	0	8	15	23
M.Phil	1	12	0	0	5	8	13

Ph.D	42	58	6	5	44	67	111
PGDCA	2	16	0	0	9	9	18
PG. Diploma	7	11	0	0	11	7	18
Total							1537

In Shillong Campus, there are 23 hostels with a total capacity of 1919 students whose details are given below in Table 4.

Table 4: *Number of Hostels in Shillong*

Sl. No.	Type of Hostel	Number
1.	Boy's Hostel	12
2.	Girl's Hostel	10
3.	International Hostel	01
	Total	23

The number of Students who were provided hostel accommodation in Shillong during the year 2014-2015 is given below in Figure 7.

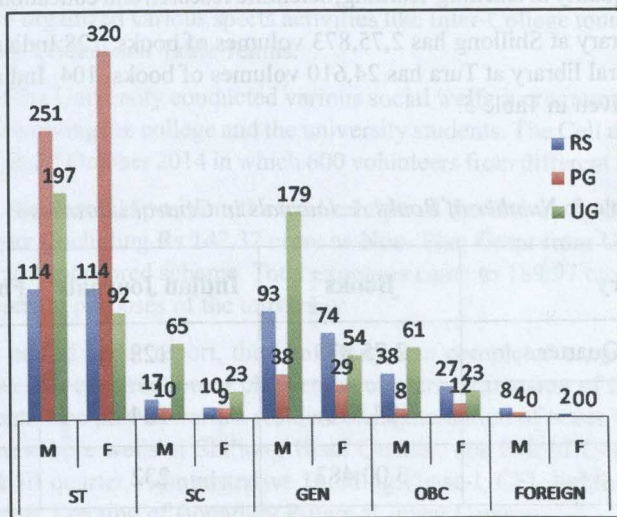


Figure 7: *Number of University Students Provided Hostel Accommodation in Shillong*

In the Tura campus, the numbers of students who were provided hostel accommodation during the year 2014-2015 is given below in Figure 8.

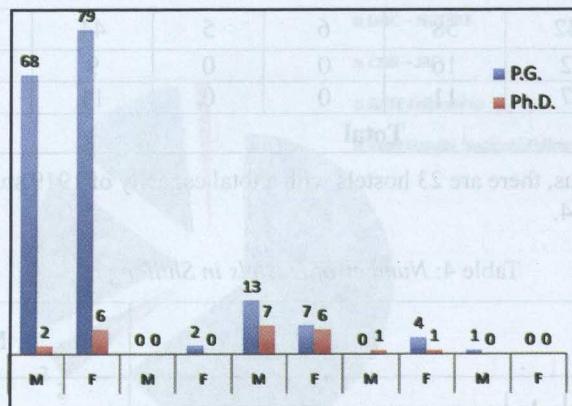


Figure 8: Number of University Students Provided Hostel Accommodation in Tura

There is a facility of Voice Data Network at the Campus which enables the faculty, research scholars and students to access Internet as well as UGC Info net and Infilbnet sources. All the academic departments have digital class rooms with Wi-Fi connection and the facility of on-line access to over 3500 journals. The University also has a Sophisticated Analytical Instrumentation Facility (SAIF) and Super Power Computer Centre to facilitate research work. The Internal Quality Assurance Cell works for the maintenance of quality in teaching-learning, scientific research and educational administration.

The Central Library at Shillong has 2,75,873 volumes of books, 128 Indian and 117 foreign journals while the Central library at Tura has 24,610 volumes of books, 104 Indian and 14 foreign journals. The same is given in Table 5.

Table 5: Number of Books & Journals in Central Libraries

Sl. No.	Central Library	Books	Indian Journals	Foreign Journals
1.	Shillong Head Quarter	2,75,873	128	117
2.	Tura Campus	24,610	104	14
	Total	3,00,483	232	131

The UGC-Human Development Centre conducted 4 Orientation Programmes, 6 Refresher Courses, 3 Short Term Course, 1 Summer School and 1 Winter School. Hindi Cell of the University published a Hindi Magazine titled 'NEHU Jyoti'.

The Career and Counseling Cell of the University is actively working for the placement of students. The details of the number of students who got selected for placement in various companies is given below in Figure 9.

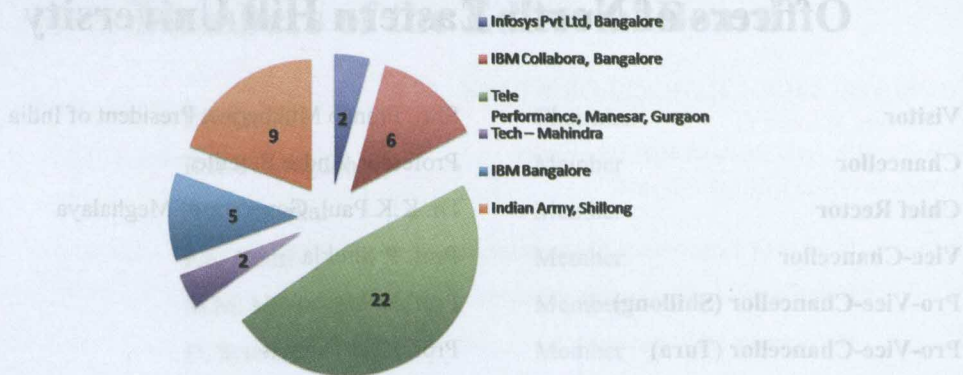


Figure 9: Number of Students Selected for Placement

The University took part in number of Zonal Level Games & Sports activities during this period which included East Zone Inter University Table Tennis & Chess (combined) Tournament at KIIT University, Bhubaneswar, East Zone Inter University Football Tournament at Mizoram University, Aizawl; East Zone Inter-University Badminton Tournament at Banaras Hindu University, Varanasi. The University also organized various sports activities like Inter-College tournament in Basket Ball, Volleyball, Football, Cricket and Table Tennis.

NSS Cell of the University conducted various social welfare programmes like tree plantation & blood donation involving the college and the university students. The Cell also organized ‘Swachh Bharat Campaign’ on 2nd October 2014 in which 600 volunteers from different institution participated.

As regards the financial position, the total receipts of the University during the year 2014-15 were Rs 219.16 crore (including Rs 142.37 crore as Non- Plan Grant from UGC), Rs 8.99 crore as special assistance and sponsored scheme. Total expenses came to 189.97 crore which were utilized for various development purposes of the university.

During the period under report, the University also completed a number of infrastructural development works like construction of class room clusters, extension of the building of English and Law departments, one unit of warden residence, augmentation of water supply system with the addition of three new bore wells at Shillong Head Quarter, one unit of L- type quarter, two units each of Type- II & III quarter, Administrative Building:Phase-I, CFL lighting at Tura Campus and Topography Survey & Erecting of Boundary Pillars at Jowai Campus.

The overall performance of the University in terms of teaching, research and governance has been excellent. This is confirmed with the re-accreditation of the University by the National Assessment and Accreditation Council (NAAC) which awarded the University with ‘A’ rank on two consecutive assessments.

Officers of North-Eastern Hill University

Visitor	Shri. Pranab Mukherjee, President of India
Chancellor	Professor. Andre Beteille
Chief Rector	Dr. K.K.Paul, Governor of Meghalaya
Vice-Chancellor	Prof. P. Shukla
Pro-Vice-Chancellor (Shillong)	Prof. B. Myrboh
Pro-Vice-Chancellor (Tura)	Prof. E.D. Thomas
Registrar	Dr. L. Cajee
Finance Officer	Smt. N.G. Marwein
Controller of Examinations	Dr. L. Cajee
Librarian	Shri. F.R. Sumer
Dean Students' Welfare	Dr. S.N. Lamare
Dean, School of Economics, Management & Information Sciences	Prof. N.M. Panda upto 4.3.2015 Prof. B.Misra from 5.3.2015
Dean, School of Education	Prof. Man Mohan Singh
Dean, School of Human and Environmental Sciences	Prof. H. Lamin upto 5.1.2015 Prof. D. K. Nayak from 6.1.2015
Dean, School of Humanities	Prof. Mrs. B. War
Dean, School of Life Sciences	Prof. A.K. Misra till forenoon 17.12.2014 Prof. R.Sharma since afternoon 17.12.2014
Dean, School of Physical Sciences	Prof. B. Jyrwa
Dean, School of Social Sciences	Prof. C.L. Imchen
Dean, School of Technology	Prof. P.V. Koparkar

Members of the Editorial Board

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R.H.D. Lyngdoh	-	Member
P.V. Koparkar	-	Member
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M.M. Mazumdar	-	Member
D. Syiem	-	Member
H. J. Syiemlieh	-	Member
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Amena Passah	-	Member
B. Misra	-	Member
B. Shylla	-	Member
Rajendra Ram	-	Member
Om Prakash	-	Member

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I

SCHOOL OF ECONOMICS, MANAGEMENT & INFORMATION SCIENCES

Dean : Prof. N.M.Panda (upto 4th March 2015)
Prof. B. Mishra (from 5th March 2015)

Telephone : 0364-2723131 (O); 9436101398 (M)

E-mail : deanemis@nehu.ac.in, bmishranehu@hotmail.com

The School consists of seven academic departments: Economics, Commerce, Library & Information Sciences, Tourism and Hotel Management, Journalism and Mass Communication, Management (Tura Campus), and Agribusiness Management and Food Technology (Tura Campus).

The Departments offer M.A, M.Phil and Ph.D programmes. The major areas of specialization and thrust areas of academic activities are: Economics of North East India with emphasis on Upland Economy, Public Economics, Economics of Agriculture and Rural Development, Small Scale Industry, Human Development, Financial Economics, Quantitative Economics & Econometrics in the discipline of Economics; Accounting, Finance & Control, and Management of Small Business

in the discipline of Commerce; Information Technology, Retrieval & Management and Computer Applications in the discipline of Library and Information Science; Cross-Cultural Management, Entrepreneurship, Small Business & Tourism Management, Micro-Finance, Business Process Re-engineering, Banking Sector Reforms, Agri-Business and Rural Marketing in the discipline of Management.

As is evident from the annual reports of the departments, the faculty members of the school through their active involvement in teaching, research and extension activities contributed appreciably towards knowledge advancement and social upliftment - the twin goal of Indian higher education.

DEPARTMENT OF COMMERCE

Head : Dr. K.C Kabra (upto 18th Feb 2015)
Prof. V.K Shrotryia (from 19th Feb 2015)

Telephone : 0364-2723161

E-mail : hodcom@nehu.ac.in; vkshro@gmail.com;

Faculty :

Designation	Name & Qualifications	Specialization
Professor	N.M. Panda, M.Com, LLB (Utkal Univ), Ph.D. (Manipur Univ), FDP(MIIMA)	Management Accounting & Entrepreneurship
	V.K. Shrotryia, M.Com, LLB, Ph.D (Rohilkhand Univ)	Management & Strategy
Associate Professor	A.P. Pati, M.Com, Ph.D., LLB (All from Utkal Univ), ACWA (ICWAI), DBF (ICFAI)	Finance
	K.C. Kabra, M.Com, Ph. D (JR Nagar Raj Vidyapeeth University, Udaipur)	Accounting
Assistant Professor	RAJ Syngkon, M.A, M.Com, Ph D (All from NEHU)	Managerial Economics & Entrepreneurship
	S. Kharmawphlang, M.Com, (NEHU), DFM (NILEM, Chennai)	Entrepreneurship & Marketing
	Santi Gopal Maji, M.Com, Ph.D (Burdwan Univ), DBM (ICFAI)	Accounting & Finance

Thrust Areas of Research:

The Department aims at imparting education that is needed for creating and management of business enterprises in an emerging economy

of North-East India. Keeping in view the importance of Business Research both at National and Regional Level, it also conducts socially relevant research work, Awareness

School of Economics, Management andn Information Sciences

Programs, etc. The following are the thrust areas of Research in the Department:

- Accounting & Finance
- Entrepreneurship & Small Business

Brief Statement of Academic Activities:

There are seven regular teachers including Two Professors, Two Associate Professors, and Three Assistant Professors. Currently the

Department has 91 students at Masters level (including one foreign national) and 26 students at doctoral level, including one foreign national. Besides regular teaching, the department conducts seminars, workshops, awareness programs, career counseling sessions and discussions on contemporary topics for the students to enhance their understanding and presentation skills and to share the outcome of their project/field work.

Students' Profile

Enrolment Capacity : M A / M Sc / Ph D

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
M.Com	-	40	11	12	39	31	20	51
Ph. D	1	1	-	1	1	1	1	2

Degrees Awarded:

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
M.Com	2	17	7+1*	15	12	21	6	27
Ph. D	-	-	-	-	-	-	-	-

*Foreign National

Placement of Students:

- | | |
|---|-----|
| a. Number of students qualified NET in 2014 | - 5 |
| b. UGC JRF | - 3 |
| c. UGC SRF | - 1 |
| d. RGNF (SRF) | - 1 |
| e. ICSSR | - 3 |
| f. Maulana Azad fellowship | - 1 |
| g. Non-NET fellowship | - 4 |

Courses Conducted

Postgraduate: M.Com

Semester – I

Business Environment, Organization Behavior, Corporate Accounting, Statistics for Decision Making, Managerial Economics.

Semester - II

Advanced Financial Management, Marketing Management and Policy, Corporate Reporting

Practices, *Service* Management, NGO Management, Information Technology & Business.

Semester – III

Financial Markets & Instruments, Entrepreneurship, Cost & Management Accounting, Financial Risk Management, Management of Small Enterprise, Business Survey and Research.

Semester – IV

International Business, Strategic Management, Security Analysis & Portfolio Management, Project Planning & Control, Human Resource Management. (Courses given in italics are open courses)

M.Phil / Ph D Course Work

Research Methodology, *Management Theory & Entrepreneurship*, and Literature Review.

Educational Tour of Students

Teacher in-charge : Dr. KC Kabra

Places/Institutions visited :

Ahmedabad, Udaipur, & Delhi. AMUL Dairy, Anand; Vidya Wir Pvt Ltd., Mehta Cad Cam Systems Pvt. Ltd, Ahmedabad, NJR Techno India Institute of Technology & Mgt, Udaipur; Tilo India Pvt Ltd., Udaipur; Papercraft Pvt Ltd., Udaipur; Rosava Engg, Udaipur; Pyrotech International Pvt L t d . , Udaipur; DNE Transformers, Udaipur; Birla Corpn, Chittoor.

Duration of Tour : 14 days

Purpose of Tour :

To familiarize students with operations of Industries like; Mining, Smelting, Tourism and Milk Products under Co-operative form of Business Enterprises.

Seminars / Conference/Symposia/Extension Programmes etc.

Attended

N.M. Panda

Participated in the 67th Annual Conference of the All India Commerce Association held at KIIT University Bhubaneswar during December 24th -27th , 2014 and presented a paper titled “Attributes of Corporate Bodies and Corporate Social Responsibility Scoring: The Indian Evidence”.

Participated in the National Seminar on the “Trends and Danger of Corruption in India with Special reference to Arunachal Pradesh” organized by the Department of Political Science, Rajiv Gandhi University, Itanagar and delivered the keynote Address on 19th March 2015.

Vijay Kumar Shrotryia

Participated in 3rd Annual Commerce Convention on Leveraging business : discovering new horizons at Department of Commerce, Delhi School of Economics, University of Delhi during April 12th -13th , 2014 and presented a paper entitled (i) “Corporate Social Responsibility in Petroleum Sector: a study of Beneficiaries” and (ii) “Perception in Oil Refineries in Assam” (the co-author, Ms Kasturi Saikia).

Participated in National Seminar on Human Resource Management in Higher Educational Institutions: Roadmap for Prosperity held during September 6th -7th , 2014 at Tinsukia Commerce College, Assam and delivered keynote address on Management of People in Indian Higher Educational Institutions and chaired two technical sessions.

Participated in 12th *International Conference of International Society of Quality of Life Studies* held at Freie Universität, Berlin, Germany during September 15th -18th, 2014 and presented a paper entitled “Trend in the Measures of Quality of Life viz-a-viz Happiness – A longitudinal study of Phongmey Geog and Trashigang town in Eastern Bhutan”.

Participated in 67th All India Commerce Conference 2014 held at KIIT University, Bhubaneswar during December 27th - 29th, 2014. Presented two papers presented by the co-authors entitled (i) “CSR Expenditure & Employees’ Satisfaction – a Study of Selected Refineries in Assam” and (ii) “What would you do if you are dissatisfied - exit, voice, loyalty or neglect: employees’ perception on Hirshman’s factors and HR intervention”

Participated in *National Seminar on Role of NSS in National Building: Scope and Challenges* held at NEHU Shillong during March 5th -6th, 2015. Chaired a session and presented a paper entitled “Strategies for National Well-Being: Role of youth power in India”.

Participated in *International Forum on Sustainable Happiness and Sustainable Development* held at Rangsit University, Thailand on 20th March 2015 –International Happiness Day and presented a paper entitled “Bhutan’s Experiments with Gross National Happiness – Leading towards Sustainable Development”.

A.P. Pati

Participated in *National Seminar on Emerging Trends of Financial Services in India*, organized by Dept of Management, NEHU, Tura held during November 20th -21st, 2014, and presented two papers entitled (i)

“Challenges to Microfinance Services in India: The days Ahead” and (ii) “A Probe into the Double Bottom Line Commitments of Indian Microfinance Institutions” (Mr. P Roy as Co-author).

K.C. Kabra

Participated in the *International Seminar on Environmental Degradation, Sustainable Development and Entrenchment of Poverty: Issues & Policy Implications*, organized by C.K.B. College, Teok, Jorhat, Assam during August 21st -23rd, 2014 and presented a paper (with research scholar) titled “Status of Corporate Environmental Disclosure Practices of Oil & Natural Gas Corporation Limited & Oil India Limited: Looking Forward to Sustainability”.

Participated in the 6th *International Conference on Corporate Governance: Corporate Corruption & Sustainability*, organized by the Institute of Public Enterprise, Hyderabad, Andhra Pradesh during November 20th -21st, 2014 and presented a paper (with research scholar) titled “Environmental Disclosures by Oil Companies in India: Way forward to Sustainability”.

Participated in the *National Seminar on Emerging Trends in Financial Markets*, organized by the Dept of Management, North-Eastern Hill University, Tura Campus, during November 20th -21st, 2014 and presented a paper (with research scholar) titled “Governance and Performance of Microfinance Institutions: A Review”.

Participated in the 11th *International Conference on Business and Finance* organized by IBS Hyderabad during January 8th -9th, 2015 and presented a paper (with research scholar) titled “Capital Structure Adjustment & Business

Group Affiliations: A Study of Indian Corporate Sector”.

Participated in 10th *International Seminar on Financial Markets: Issues and Challenges*, organized by Bharathidasan University, Tiruchirappalli, Tamil Nadu during January 10th -11th, 2015 and presented a joint paper (with research scholar) titled “Corporate Environmental Disclosure Practices: A Study of Coal India Limited”

R.A.J. Syngkon

Participated in a two day *National Seminar on Power sector - Its impact on economic growth and industrial development*, organised by Shillong Commerce College during October 30th -31st, 2014.

S.G. Maji

Participated in the *XI International Conference on Finance and Management (ICFBM-14)* organized by University Department of Commerce and Business management, Ranchi University, Ranchi during July 11th -12th, 2014 and presented two papers titled (i) “Budget Efficiency and Firm Performance: Evidence from Iraqi Oil Refineries”, (co-author S. Hussein) and (ii) “Competition in the Indian Banking Sector: A Panel Data Analysis” (co-author P. Hazarika).

Participated in *International Conference on Global Performance Challenges: Building and Sustaining Competitiveness*, organized by AMITY Business School, Gurgaon during September 11th -12th, 2014 and presented a paper titled “Competition and Bank Risk: Evidence from Indian Banking Sector” (co-author P. Hazarika).

Participated in RDA’s 15th *International Conference on Advances & Challenges in*

Global Business, Management, Economics, Tourism and Information technology, organized by Research Development Association & Research Development Research Foundation, Jaipur in Pondicherry during November 21st-22nd, 2014 and presented a paper titled “Corporate Sustainability Performance and Financial Performance: Empirical Evidence from India” (co-author N.Laskar).

Participated in the 11th *International Conference on Business and Finance* organized by IBS Hyderabad during January 8th -9th, 2015 and presented two papers titled (i) “Intellectual Capital and Firm Performance in India: A Comparative Study between Knowledge Based Sector and Traditional Sector”, (co-author M. Goswami) and (ii) “Corporate Sustainability Reporting Practices in India: Myth or Reality” (co-author N.Laskar).

Publications

Research Papers

Published in India

Shrotryia, V.K. (2014). Attaining Organizational Happiness through Value-Based Management – a conceptual framework. *Advances in Management*, 7(6): 7-11.

Shrotryia, V.K. (2014). Blue Ocean Entrepreneurship: an idea worth pursuing. *SME World*. 7(9): 122-123.

Shrotryia, V.K. (2014). General Budget 2014-15 and MSME Sector. *SME World*. 7(8): 24-25.

Shrotryia, V.K. (2014). Gender Based Budgeting for Holistic Development. *SME World*, 7(7): 22-23.

Shrotryia, V.K. (2014). Five Challenges the New Regime Faces for the Growth of MSMEs in India. *SME World*. 7(6): 14-15.

Shrotryia, V.K. (2014). Challenges for Entrepreneurship in Rural India. *SME World*. 7(5): 38-39.

Shrotryia, V.K. (2014). Successful Unrelated Diversification Strategy: story of a *Chai vala* (tea vendor) in Agartala. *SME World*. 7(4): 48-49.

Pati, A. P. (2014). Indian MFIs: The Funding Structure and Its Determinants. *The IUP Journal of Bank Management*. XIII (4): 63-83.

Bhattacharjee, J., Kabra, K.C. (2014). University Funding – A World View. *International Journal of Business & Administration Research Review*. 1(7): 88-98.

Maji, S.G., Laskar, N. (2014). Corporate Sustainability Performance and Financial Performance: Empirical Evidence from India. *Journal of Banking, Information Technology and Management*, 11(2): 62-71.

Ghosh, S.K., Maji, S.G. (2014). The Impact of Intellectual Capital on Bank Risk: Evidence from Indian Banking Sector. *The IUP Journal of Financial Risk Management*, XI (3): 18-38.

Das, U., Maji, S.G. (2014). Turning Cost Cutting into Cost Competitiveness: Empirical Evidence from Some Selected Companies. *The Management Accountant*, 49(5): 38-45.

Maji, S.G., Nandi, S. (2014). Family Control, Executive Compensation and Corporate Disclosure: An Empirical Analysis. *Business Insight: Journal of the Department of Commerce, B.U.*, 1, 89-100

Books/Book Chapters/Proceedings:

Shrotryia, V.K. (2015). Bhutan's Experiments with Gross National Happiness –Leading towards Sustainable Development. In *Proceedings of International Forum on*

Sustainable Happiness and Sustainable Development held on 20th March 2015 at Rangsit University (Economic & Business Research Center for Reforms, Faculty of Economics), Thailand.

Maji, S.G., Hazarika, P. (2014). Competition and Bank Risk: Evidence from Indian Banking Sector. In *Global Performance Challenges: Building and Sustaining Competitiveness*. Banerjee, P.; Madhukar, V. & Kumar, A. (Eds.). Excel India Publishers, New Delhi, 28-39.

Hussein, S., Maji, S.G., Panda, N.M. (2014). Impact of Demographic Factors on Job Satisfaction: A Study on North Refineries Company of Iraq. In *Global Performance Challenges: Building and Sustaining Competitiveness*. Banerjee, P.; Madhukar, V. & Kumar, A. (Eds.). Excel India Publishers, New Delhi, 347-357.

Hussein, S., Maji, S.G., Panda, N.M., (2014). Budget Efficiency and Firm Performance: Evidence from Iraqi Oil Refineries. In *Changing Finance and Economic Perspective*. Adigal, V.S. & Mehta, M.C. (Eds.). Bharati Publications, New Delhi, 248-255.

Maji, S.G., Hazarika, P. (2014). Competition in the Indian Banking Sector: A Panel Data Analysis. In *Changing Finance and Economic Perspective*. Adigal, V.S. & Mehta, M.C. (Eds.). Bharati Publications, New Delhi, 287-296.

Saikia, K., Shrotryia, V.K. (2014). Role of Corporate Social Responsibility in Community Development: A case study of Numaligarh Refinery Limited, Assam, Chapter 23 in *CSR in Community Development* (editor S Rajalakshmi), Shanlax Publications, Madurai, India, 162-172 (ISBN 978-93-80657-23-3).

Saikia, K., Shrotryia, V.K. (2014). Role of Corporate Social Responsibility in Societal Development in Assam: A study of CSR Activities in Petroleum Sector, Chapter 8 in *New Approach in Strategic and Operation Management* (eds RS Rawat, Manju & R Dwivedi), Bharti Publications, New Delhi, India, 48-55 (978-93-81212-81-3).

Honours/Awards/Recognitions

Santi Gopal Maji:

Received best paper award (with co-author N. Laskar) in the RDA's 15th *International Conference on Advances & Challenges in Global Business, Management, Economics, Tourism and Information technology*, organized by Research Development Association & Research Development Research Foundation, Jaipur on the paper titled "Corporate Sustainability Performance and Financial Performance: Empirical Evidence from India".

Other Activities

N M Panda

Participated in an interactive session on "Regional Plan in respect of Education Sector" organized by North Eastern Council on 23rd June 2014 and provided valuable inputs for formulation of Regional Plan.

Acted as a resource person in the UGC sponsored National Seminar organized by DHSK Commerce College at Dibrugarh during August 8th -9th, 2014 and delivered a lecture on "Economic Empowerment of Rural Farmers through Entrepreneurship".

Participated as a Resource Person in an Orientation programme organized by the University of Science and Technology on 23rd August 2014 at 9th Mile, Ribhoi District, Meghalaya and delivered a lecture titled

"Business Education in Emergent Indian Scenario- The Scope and Challenges".

Participated as a resource person, in the Training Programme on 'Accounts Management' organized by the RTI (Indian Audit & Accounts Department) Shillong on 10.01.2015 and delivered a lecturer on "Professional and Ethics".

Participated as a Resource Person in the ICSSR sponsored *National Seminar on "Women Entrepreneurship on North East India Issues and Challenges"* organized by the Department of Management Mizoram University, at Aizawl during February 26th -27th, 2015 wherein presented a paper titled "Women Entrepreneurship and Empowerment in North East India" and also chaired the technical".

V.K. Shrotryia

Delivered two lectures on 'Individual and Organization – Who Work for Whom', 27th Orientation Program – General on 12th April 2014, at the UGC Academic Staff College, NEHU, Shillong.

Delivered two lectures on 'Why we need to work hard?', 28th Orientation Program – General (5th May – 1st June 2014) on 30th May 2014, at the UGC Academic Staff College, NEHU, Shillong.

Delivered an Invited lecture on 'Role of head of HRD department in Placement, Probation, Evaluation and Future Prospects of employees', in a *Workshop (9th June 2014-14th June 2014) on Human Resource Management and Annual Performance Appraisal*, organized by Regional Staff Training Institute (TECH), Prasar Bharti, Shillong on 11th June 2014.

Delivered two lectures on 'Power and Possibilities: Role of a Teacher', 29th Orientation

School of Economics, Management and Information Sciences

Program – General (23rd June – 20th July 2014) on 9th July 2014, at the UGC Academic Staff College, NEHU, Shillong

Delivered an Invited lecture on Individual, Organizational and National Perspective on Happiness to the Research Scholars and Faculty Members of Department of Commerce, Delhi School of Economics, University of Delhi on 13th Sept 2014.

Delivered an Invited lecture on ‘Life Skill Education’, Refresher Course on ‘Community Education (27th Oct 2014-16th Nov 2014) on 12th Nov 2014 at the UGC Academic Staff College, NEHU, Shillong.

Delivered two lectures on “Human Resource Management in Higher Education in India”, UGC Special Winter School on the theme ‘Linking Education to Society’ (30th Oct 2014 to 19th Nov 2014) on 14th Nov 2014 at the UGC Academic Staff College, NEHU, Shillong.

Delivered an Invited lecture on ‘Happiness in Globalised World’ on 5th Dec 2014 during a Refresher Course on Political Science at the UGC Academic Staff College, NEHU, Shillong.

Delivered an Invited lecture on ‘Why should we work hard’ on 18th Feb 2015 during Refresher Course for Academic Administrators at the UGC Academic Staff College, NEHU, Shillong.

Delivered two lectures on ‘Well-Being and Public Policy’ on 20 February 2015 during 30th

Orientation Program (29th Jan – 25th Feb 2015) at the UGC Academic Staff College, NEHU, Shillong.

Delivered two lectures on ‘Why should we work’ on 4th March 2015 during 31st Orientation Program (9th Feb – 8th March 2015) at the UGC Academic Staff College, NEHU, Shillong.

A.P.Pati

Chaired a Technical Session in the *National Seminar on Emerging Trends of Financial Services in India*, held on 20th and 21st November 2014, organized by Dept of Management, NEHU, Tura.

Acted as a Resource Person in the *National Seminar on Emerging Trend in Insurance*, organised by Guwahati Insurance Institute at Gauhati University, Gauhati on 11th December, 2014 and presented a paper on Insurance Awareness & Needs of Life Insurance.

K. C. Kabra

Participated at the Round Table *Workshop in Guwahati on ‘Sub-Regional Cooperation: India, Bangladesh & Myanmar’* organized by the Indian Council for Research on International Economic Relations, New Delhi on 27th November 2014.

Participated at ‘Accountancy & Commerce Education Summit’ organized by The Institute of Chartered Accountants of India, New Delhi on 19th January 2015.

DEPARTMENT OF ECONOMICS

Head : Prof. S.K. Mishra (upto 31.07. 2014)
 Prof. U. K. De (from 01.08. 2014)

Telephone : 0364-2723171

E-mail : utpalkde@gmail.com , <http://nehu-economics.info>

Faculty :

Designation	Name and Qualification	Specialization
Professor	S.K. Mishra. MA (Bhagalpur), M.R.P., Ph.D. (IIT Kharagpur)	Operations Research, Econometrics, Computer Applications, Planning
	N. Srivastav, M.A.(Rajasthan), Ph.D.(IIT Kanpur)	Industrial Economics
	E.D. Thomas, M.A,Ph.D.(NEHU) – (On Lien as Pro-VC, Tura)	-
	P. Nayak, M.A.(Utkal), Ph.D.(IIT Kharagpur)	Human Development, Women Empowerment
	B.Mishra, M.A.,Ph.D.(Utkal)	Public Economics, Political Economy, Budgetary Economics
	U.K. De, M.Sc., Ph.D. (Burdwan)	Econometrics, Environment & Resource Economics, Empowerment of Women
	B. Panda, M.A(Utkal), M.Phil (Berhampur), Ph.D.(Utkal)	Development Economics, Rural Economics
Associate Professor	P.S. Suresh, M.A., M.Phil. (S.V.Univ.), Ph.D.(Hyd.)	Financial Economics
	S. Umdor, M.A.,Ph.D.(NEHU)	Indian Economy, Local Govt. Finance

School of Economics, Management andn Information Sciences

Assistant Professor	W. Tariang, M.A.(NEHU)	Agricultural Economics, Gender & Poverty
	D. Nongkynrih, M.A.,Ph.D.(NEHU)	Labour Economics
	D.W. Thangkhiew, M.A.(NEHU)	Macroeconomics
	D. Das, M.Sc.(Guwahati),Ph.D.(IIT Guwahati)	Econometrics
	Veronica Pala, M.A.,Ph.D.(NEHU)	Microeconomics, Quantitative Economics

Thrust Areas of Research:

Environmental Economics, Econometrics, Economics of Development, Public Economics, Budgetary Economics, Economics & Political Economy, Financial Economics, Operations Research, Health Economics, Economics of Education, Gender Economics , Economics of North Eastern Region, Quantitative Analysis, Computer Applications, Poverty Analysis, Labour market studies,Intergroup Disparitie.

Brief Statement of Academic Activities

The Department admitted fifty four M.A. /M.Sc. students in Aug. 2014 and four Ph.D. students in December 2014. In the 2012-14 batche 48 M.A. /M.Sc. Student passed out. Six research scholars obtained their Ph.D. degrees. The Department offered four open courses namely, Budgetary Theory & Practice, Economics of Social Sector, Economics of

Agriculture and Economy of North-Eastern Region catering to its own students as well as the students of other Departments. The faculty members were actively engaged in research work publishing 12 papers in the Indian journals, 10 papers in the journals abroad and 9 research papers in the proceedings of seminar or edited book chapters, 4 as a Resource Person. They also attended/ participated in 13 other seminars and 30 other activities as invited speaker. During the period under reference, 2 research projects were completed amounting to Rs. 18,50,000/- , Additionally, the faculty members received recognition from national as well as international academic/ governmental organizations as members on various committees, experts and invited lecturers. According to the IDEAS ranking, the Department is the 20th among the top 25% Economics Departments/institutes in India.

Students Profile

Enrolment Capacity: M.A/ M.Sc. – Ph.D. – Variable

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
M.Sc./M.A	-	53	1	28	26	24	30	54
M.Phil.	-	-	-	-	-	-	-	-
Ph.D	-	2	2	2	2	1	3	4

Degree Awarded

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
M.Sc./M.A	-	42	6	13	35	22	26	48
M.Phil.	-	-	-	-	-	-	-	-
Ph.D	-	3	3	2	4	4	2	6

Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Ms. Sangeeta Dasgupta	“A study of Economic Development Strategy for Tribals in Meghalaya”.	Prof E. D.Thomas
Mrs.Polakshi Bhattacharyya	“Factors Affecting Participation of People in MGNREGA: A case Study of Morigaon District of Assam”.	Prof B. Mishra Prof U.K. De
Mrs. Darishisha War Thangkhiew	“Investment Behaviour in Indian Iron and Steel Industry: An Econometric Study”.	Dr P. S. Suresh
Mr. Kh. Pou	“Institutional and Attitudinal Impediments to Development of Ethnic Groups in North –East India: A case Study on the Continuing Underdevelopment of Poumai Naga”.	Prof S. K. Mishra

School of Economics, Management and Information Sciences

Mr. Krishna Chauhan	"Degradation of Forest and Its Impact on the Village Economy around Sariska National Park".	Prof U. K. De
Ms. Ibalari Phylla Khongjoh	"Liberalisation and Small Scale Sector in India: An Analysis of its Growth and Performance".	Prof B. Panda

Courses Conducted:

Postgraduate

Semester-I

Microeconomics Analysis-I, Macroeconomics-I, Mathematics for Economist, Economics of Development-I, Public Economics.

Semester-II

Microeconomics-II, Macroeconomics-II, Techniques of Statistical Analysis, Economics of Development-II.

Open Courses: Budgetary Theory & Practice, Economics of Social Sector.

Semester-III

Historical Perspective of Modern Economics-I, International Economics, Industrial Economics.

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

Semester-IV

Historical Perspective of Modern Economics-II, Indian Economic Problems and Policy, Environmental Economics, Labour Economics, Financial Economics.

M.Phil/Ph.D. Courses:

Research Methodology in Economics, Contemporary Economic Issues, Recent

Advances in Economic Theory, Review of Literature.

Seminars/ Conferences/ Symposia / Extension Programmes etc.

Attended:

S.K. Mishra

Attended the UGC Sponsored *National Seminar on "Micro Credit System"* organized by Nabajyoti College, Kalgachia on 17th and 18th November, 2014. Presented a paper titled "Economic Philosophy of Micro-Credit System."

N. Srivastav

Attended a *National Seminar on "Reviewing Public Provisioning in Basic Services and Infrastructure: Country Experience and Outcomes"*, organized by the OKD Institute of Social Change and Development, Guwahati, September 25th -26th, 2014 and chaired a technical session.

Attended a *National Social Science Conference 2014 on the theme Development Challenges in Developing Nations during Post Globalization Period* organized by Bababhimrao Ambedkar University, Lucknow and presented a paper on "Economic Development of North-Eastern States of India: Post Globalization Challenges" at the Vth Technical session on 17th December 2014.

Attended a Silver Jubilee *International Seminar on "Environment and Development Trade-off"* and chaired the Vth technical session on 'Environment and Agriculture Issues'. This Seminar was organized by the OKD Institute of Social Change and Development, Guwahati, January 21st -22nd, 2015.

B. Mishra

Participated as a Resource Person to delivered the Key-Note address and Chaired one technical Sessions in the *National Seminar on "Agro based industries and Rural Development of North-East India with special reference to Assam"* at Department of Economics, Khowang College, Khowang Ghat, Assam, 15th -16th June, 2014.

Invited as a Resource Person to delivered an Invited lecture on "Informal Sector and Taxation" in an Extension programme on Fiscal Issues and State Finances in India organized by Centre for Training and Research on Public Finance and Policy(CTRFPF), Kolkata on 14.08.2014.

Participated as a Resource Person to delivered an Invited talk and chaired one technical session in the *National Seminar on "Emerging Trends of Financial Services in India"*, organized by the Department of Management, NEHU, Tura Campus, 20th -21st November, 2014

Participated as a Resource Person to delivered the Key-Note address and Chaired one technical Sessions in the *International Conference on "Infrastructure Finance Development"* organized by the Department of Business Management, Indira Gandhi National Tribal University, Amarkantak, Madhya Pradesh, 25th -27th February, 2015

U. K. De

Participated as an invited speaker and presented 4 papers on (i)"Farmers' Response to Changing

Climate in India's North East", (ii) "Informal Household Water Market and Determinants of Price: Evidence from an Indian Hill City" (with Prof M. Pal), (iii) A Modified Diversity Index and its Application to Crop Diversity in Assam, India" (with Prof P. Bharati and Prof M. Pal) and (iv) "Women in Natural Resource Collection: Experience from Rural Jharkhand in India" (with BN Ghosh), in the 2nd *ISM International Statistical Conference 2014 with Applications in Sciences and Engineering (ISM-II)*, held in Pahang, Malaysia during 12th -14th August 2014.

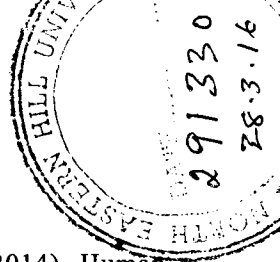
B.Panda

Participated as an invited panelist in a live panel discussion on 'NITI AYO: A New Paradigm in Development Planning' on 24th Feb' 2014 organised and telecast by Doordarshan Kendra, Shillong

Participated and presented the key note paper titled 'The Importance of Research Project Proposal : Why to Research, What to Research and How to Research' in the UGC sponsored *Workshop on 'Research Project Writing'* organised by S.B. Deorah College and held at Ulubari, Guwahati on 9.5.2014.

Participated as a resource person, chaired one technical session and discussed two research papers in the *National Seminar on 'Reviewing Public Provisioning in Basic Services and Infrastructure : Country Experiences and Outcomes'* organised by OKD Institute of Social Change & Development and held at Guwahati during 25th -26th September 2014.

Participated as a resource person, chaired two technical sessions and presented an invited paper 'Financial Inclusion for Inclusive Growth' in the *National Seminar on 'Financial Inclusion and Financial Literacy for Inclusive Growth with Special Focus on NE Region'*



organised by MNC Balika Mahavidyalay, Nalbari, Assam during 17th-18th October 2014.

Participated as an invited panellist in a live panel discussion on 'Union Budget 2015-16', held on April, 2015 and organised and telecast live by Doordarshan Kendra, Shillong

S. Umdor

Presented a paper titled 'Power Sector in Meghalaya' in a *National Seminar* organized by Shillong Commerce College and sponsored by NEEPO and Government of Meghalaya on 30th-31st October, 2014

Presented a paper titled 'State of Finances of Meghalaya' in a *National Seminar* organized by Geography Department, NEH, 6th – 8th, November, 2014

D. Nongkynrih

Attended an *International Seminar on BCIM: Sub-Regional Cooperation for Development of Peripheral Areas*, ICSSR-NERC, Shillong, 27th-28th November, 2014.

V. Pala

Presented a paper titled "Trends and Patterns of Migration in the North Eastern Region of India" (with Ibalari Phylla Khongjoh), in the *Interdisciplinary International Seminar On Human Migration in South Asia: Dynamics and Implications*, organised by Synod College, Shillong, October, 9th-10th, 2014.

Publications:

Research Papers

Published in India

Nayak, P., Mahanta, B. (2014). Women Empowerment in Assam. *PCC Journal of Economics and Commerce*. 6(6): 61-74.

Nayak, P., Mahanta, B. (2014). Human Development in North Eastern Region of India: Issues and challenges. In *Poverty and Human Development: Issues and Challenges*. B. Mahanta and A. Konwar (eds.) Doomdooma College, Assam, 1-28.

Nayak, P., Mishra, S.K. (2014). A State Level Analysis of the Status of Social Sector in India. In the proceedings of the International Conference on *Social sector development: Issues, challenges and policy*. Institute of Public Enterprise, Hyderabad.

Panda, B. (2014). Impact of Budget on North East: A Critical Analysis. *Eastern Panorama*, 22: 42-46.

Thangkhiew, D.W., Suresh, P.S. (2014). Determinants of Fixed Investment Behavior in Iron and Steel Industry in India: An Econometric Analysis. *Asia Pacific Journal of Applied Finance*. III(8), 7-30.

George, Saji., Suresh, P.S. (2015). Noise Trading: An Analysis of Retail Trading in the Indian Equity Market. 2(1), January-March, 28-38.

Umdor, S. (2014). Social Audits of MGNREGA in Meghalaya, *India International Research Journal of Social Sciences*, 3(4), 12-16

Nongkynrih, D., Chakrabarty, Minakshi. (2014). Female Child Labour in India: An Econometric Analysis, *Child Hope*, Newsletter on Child Labour, V. V. Giri National Labour Institute, Noida, 3(12-15), 6-11.

Nongkynrih, D. (2014). Land Relations in the Tribal Societies of Meghalaya: Changing Patterns of Land Use and Ownership, *Social Change and Development*, XI(2), 2014, 1-20.

Tariang, W. (2015). "Socio-Economic Status of Men and Women in A Matrilineal Society", *EPRA International Journal of Economic and Business Review*, Vol(3), Issue-4, 52-57.

Pala, V. (2014). Combating Child Labour: The Need for a Holistic Approach, *The NEHU Journal*, 12(2), July-December, 27-40.

Thangkhiew, D.W., Suresh, P.S. (2014). Determinants of Fixed Investment Behaviour in Iron and Steel Industry in India: An Econometric Analysis, *Asia Pacific Journal of applied Finance* III. Issue-8.

Published Abroad

Xie, J.C., Mishra, S.K., Kar, T., Xie, R.H. (2014). "Generalized Interatomic Pair-Potential Function", *Chemical Physics Letters*. 605-606 (June 17, 2014): 137-146.

Nayak, P., Ray, Santanu. (2014). Inter District Disparities in Meghalaya: A Human Development Approach, in the proceedings of the *International Conference on Sustainable Development and Ethnic Minority Poverty Reduction in Mountainous Regions*. Thai Nguyen University, Thai Nguyen, Viet Nam.

De, U. K. (2015). "The Need for Climatic Analysis and Weather Forecasting", *Journal of Climatology & Weather Forecasting*, 3(1): 1-2.

De, U. K., Chauhan, K. (2015). "Degradation of Forest and Biodiversity in Sariska National Park, India and the Responsible Factors", *International Journal of Environment and Sustainable Development*, 14(2) (ISSN: 1478-7466 (Online), 1474-6778 (Print)).

De, U.K., Pal, M., Bodosa, K. (2015). "Global Warming and the Pattern of Overall Climate Changes in Sub-Himalayan Assam Region

of North-East India", communicated to *International Journal of Ecological Economics and Statistics*, 36(3) (ISSN: 0973-7537 (Online), 0973-1385 (Print)).

Maji, S. G., De, U. K. (2015). "Regulatory Capital and Risk of Indian Banks: A Simultaneous Equation Approach", *Journal of Financial Economic Policy*, 7(2), 140-156 (ISSN: 1757-6385).

De, U.K., Chauhan. K. (2014). "Impact of Degradation of Forest on the Livelihood of Inhabitants in Sariska Tiger Reserve, India", *Biodiversity Watch*, 3: 103-124 (ISSN No: 2438-4497).

De, U. K., Bodosa, K. (2014). "Crop Diversification in Assam and Use of Modern Inputs under Changing Climatic Condition", *Journal of Climatology & Weather Forecasting*, 2(2): 1-14; <http://dx.doi.org/10.4172/2332-2594.1000120> (ISSN: 2332-2594).

De, U. K. (2014). "Ethnic Conflict in India's North-East: Complexities of Causes and Consequences", *Indian Journal of Social Development*, 14(2): 147-160 (ISSN: 0972-3692).

Thangkhiew, D.W. (2015). Determinants of Inventory Investment Behaviour in Iron and Steel Industry in India. An Econometric Analysis, *International Journals of Advance Research in Computer Science and Management Studies*, Vol.No.03, Issue No. 1, January 2015, ISSN No. : 2321 – 7782 (online), ISSN No. :2347 - 1778 (print)

Books/ Book Chapters/Proceedings

De, U.K. (2014). "Empowerment of Rural People through MGNREGA with Special Emphasis to Women in Morigaon, Assam", in A. Mandal and S. S. Laha (Eds.) *Dynamics of*

Development and Discontent, Bookwell: Delhi, 101-136 (ISBN: 978-93-80574-65-3).

De, U.K. (2014). How Successful is India's Look East Policy under Globalisation?, In S. K. Datta and A. Sengupta (Eds.) *Development, Environment and Sustainable Livelihood*, Cambridge Scholars Publishing, 148-172, (ISBN (10): 1-4438-6305-X, ISBN (13): 978-1-4438-6305-6).

Bharati, P., De, U.K., Pal, M. (2015). "A Modified Diversity Index and its Application to Crop Diversity in Assam, India", Proceedings of The 2nd ISM International Statistical Conference 2014 with Applications in Sciences and Engineering (ISM-II), held in Pahang, Malaysia during 12th -14th August 2014, 19-29, (ISBN: 978-0-7354-1281-1) (doi: 10.1063/1.4907421).

Ghosh, B.N., De, U.K. (2015). "Involvement of Women in Natural Resource Collection: An Experience from Rural Jharkhand in India", Proceedings of The 2nd ISM International Statistical Conference 2014 with Applications in Sciences and Engineering (ISM-II), held in Pahang, Malaysia during 12th -14th August 2014, 476-486, (ISBN: 978-0-7354-1281-1) (doi: 10.1063/1.4907483).

Pal, M., De, U. K. (2015). "Informal Household Water Market and Determinants

of Price: Evidence from an Indian Hill City", Proceedings of The 2nd ISM International Statistical Conference 2014 with Applications in Sciences and Engineering (ISM-II), held in Pahang, Malaysia during 12-14th August 2014, 487-493, (ISBN: 978-0-7354-1281-1) (doi: 10.1063/1.4907484).

De, U. K. (2015). "Farmer's Response to Changing Climate in North East India", Proceedings of The 2nd ISM International Statistical Conference 2014 with Applications in Sciences and Engineering (ISM-II), held in Pahang, Malaysia during 12th -14th August 2014, 30-41, (ISBN: 978-0-7354-1281-1)

Panda, B. (2014). Research in Economics in North East India: Progress, Deficits and Limitations' In: *proceedings of the UGC-SAP National Symposium on Social Science Research on Northeast India: Practices, Problems and Prospects*, organised by the department of political science, NEHU held at ICSSR-NERC, Shillong.

Panda, B. (2014). The Importance of Research Project Proposal : why to research, what to research and how to research' In: *proceedings of the UGC sponsored Workshop on 'Research Project Writing'* held at S.B. Deorah College, Guwahati, Assam.

Research Project Complete during the year

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1.	Levels of Living and Poverty among Socio-religious Groups in India: Analysis of the Correlates and Determinants at the Region Level	PI: Dr. V. Pala Co-PI: Ms. A. M. W. K. Shadap, St. Edmund's College, Shillong	Indian Council of Social Science Research, New Delhi	Rs. 18,50,000/-

2.	Land as a private property: Changing patterns of land relations in tribal societies of North East India	Dr.D. Nongkynrih . Coordinator of the Meghalaya Chapter.	ICSSR, New Delhi.	NA
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Academic Collaboration:

U.K. De was a Visiting Scientist of Indian Statistical Institute, Kolkata for the period 22/12/2014 to 10/02/2015.

Other Activities

N. Srivastav

Delivered two lectures on 'Global Environmental Affairs: Economics and Sustainable Development' in the 27th UGC-ASC sponsored Orientation Program organized by the Academic Staff College, NEHU, Shillong, April 11th, 2014.

Delivered two lectures on 'Basic Principles of Environmental Economics' in the 28th UGC-ASC sponsored Orientation Program (General) organized by the Academic Staff College, NEHU, Shillong, May 30th, 2014.

Delivered two lectures on 'Environmental Economics of Sustainable Development' in the Special Summer School organized by the Academic Staff College, NEHU, Shillong, September 11th, 2014.

Delivered two lectures on (1) Theoretical Perspectives of Human Development and (2) Status and Trend of Human Development on 1.12.2014 in the U.G.C. Refresher Course organized by the Dept. of Political Science, NEHU, Shillong.

Delivered two lectures on 4th -5th December, 2014 in the ICSSR sponsored capacity building *National Workshop on Critical Research thought Process*, organized by the Dept. of Management, NEHU, Tura Campus, Tura.

Delivered two lectures on 'Happiness: an Inter-disciplinary Approach' in the Refresher course for Academic Administrators organized by the Academic Staff College, NEHU, Shillong, February 09th, 2015;

Delivered two lectures on 'The Review of Research on Happiness' in the 31st UGC-ASC sponsored Orientation Program organized by the Academic Staff College, NEHU, Shillong, February 27th, 2015

Delivered two invited lectures on "Introduction to Behavioral Economics" to the department of Economics, Mizoram University, Aizwal on 31.03. 2015.

P. Nayak

Participated as a Resource Person and delivered two lectures on Statistical tools and inferences in the ICSSR sponsored course on Research methodology in social sciences organized by the Dept. of Education, NEHU, Shillong during 8th -19th September, 2014.

Delivered a lecture on Perspectives of human development in north east India on 11.11.2014 in the U.G.C. Refresher Course on Community Education, organized by the Dept. of Adult and Continuing Education, NEHU, Shillong.

Participated in the *National Seminar on Emerging Trends of Financial Services in India* organized by the Dept. of Management, NEHU, Tura Campus, Tura during 20th -21st November, 2014 as Guest of Honor in the inaugural session and chaired the 2nd technical session.

Delivered two lectures on (1) Theoretical Perspectives of Human Development and (2) Status and Trend of Human Development on 1.12.2014 in the U.G.C. Refresher Course organized by the Dept. of Political Science, NEHU, Shillong.

B. Mishra

Acted as a Resource Person to deliver a lecture in the *Workshop on Capacity Building in North-East: The Challenges in the Capacity Building Programme*, organized by the Department of Management, NEHU, Tura Campus on 4th -5th December, 2014

Acted as a Resource Person to deliver 4 lectures on Public expenditure and Rural Development, Implication of Coase Theorem for Economic Transition, FDI in Retail Sector: Where does it lead? And Changing Scenario in Federal Fiscal Relations in India in the Refresher Course, organized by the Department of Business Administration, Sambalpur University, 12th -13th February, 2015

U.K. De

Participated as a discussant on the issues "Trade, Finance and Investment" in the Stakeholders' Consultative *Workshop on The Role of BCIM Economic Corridor in Regional Integration: Perspective from North-East India* held at Guwahati during 18th -19th July, 2014. Also, I Chaired a Session on "Sustainable Development" in the workshop.

Presented invited *Seminar on "Does Agricultural Diversity Always Contribute to the Progress of Farmers? An Example from North East India"*, at Indian Statistical Institute, Kolkata on 15-01-2015.

Delivered an Invited talk on "Agricultural Productivity, Crop Diversity and Regional Convergence in Assam, India: Effects of

Climate Change" in the *National Conference on Agriculture and Rural Development Issues in Eastern India*, organised by Indian Statistical Institute, Giridih during 12th -13th March, 2015.

B. Panda

Delivered two lectures on 'Inclusive Development' at the 28th orientation programme for college and university teachers, organised by ASC, NEHU on 13.05.2014.

Delivered two invited lectures as resource person at the 29th orientation programme for college and university teachers, organised by ASC, NEHU on 13.05.2014.

Published an article entitled 'Budget, Development and The North East' in The Shillong Times, dated 17th July, 2014.

Delivered two invited lectures on 'Theory, Practice and Approaches to Community Development' as resource person at the refresher course for college and university teachers, organised by the department of adult & continuing education, NEHU on 28.10.2014.

Delivered one invited lecture on 'Development in the Framework of Civil Society, Government and Globalisation' as resource person at the refresher course for college and university teachers, organised by the department of political science, NEHU in November 2014.

Delivered two invited lectures as resource person at the 30th orientation programme for college and university teachers, organised by ASC, NEHU on 13.02.2015.

S. Umdor

Undertaken an assignment for the World Bank on Addressing Key Challenges to Improve Service Delivery and Development Outcomes in Meghalaya, November- December 2014.

D. Nongkynrih

Organized a Capacity Building Programme for Faculty Members in Social Science (6th -19th March, 2014), ICSSR-NERC, Shillong (Topic: Techniques of Research).

Organised a Short-Term Course in Research Methodology with Special Reference to SPSS

for College/University Teachers and Research Scholars (19th – 24th May, 2014), UGC-ASC, NEHU, Shillong (Topic: Data Collection).

Attended 29th Orientation Course (General), (23rd June – 20th July, 2014), UGC-ASC, NEHU, Shillong (Topic: Research Methodology).

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

Head : Dr. Bikika Laloo.

Telephone : 0364-2723149; 0364-2723142 (O)

E-mail : bikilaloo@rediffmail.com. & bikitariang@gmail.com.

Faculty :

Designation	Name and Qualification	Specilization
Professor	Moses. M. Naga, M.L.I.Sc. (NEHU), Ph.D. (NEHU).	Management of Library and Information Systems Foundations of Library & Information Science. Information Literacy.
Associate Professor	Bikika Laloo, MLISc, (NEHU), Ph.D. (G.U) M.A. English (IGNOU).	User Studies, CollectionDevelopment, Library andInformation Science Education, ProfessionalDevelopment Activities in Librarianship.
Assistant Professor	Paokholun Hangsing, MLISc, (Delhi), Ph.D. (NEHU), PGDCA (NEHU).	Open Source Digital Library Software, Consortia, Bibliometrics, Library & Information Science Education, Rural Libraries, and Media Content Analysis.
	Jacqueline Jeane Thabah, M.L.I.Sc. (NEHU).	Organisation of Knowledge.
	Jiarlimon Khongtim, MLISc. (NEHU).PGDCA (NEHU).	Computer Application, Research Methodology.
	S. Ravikumar, MSc. (Madras) M. Phil (Allagappa) : Ph.D (Mizoram); PGDC - v t (Bharathidasan University	Scientometrics and Information Retrieval

Thrust Area of Research

The Thrust Areas of Teaching and Research of the Department are: Knowledge Organisation,

Information Storage and Retrieval, Information/ Knowledge Management, Information Literacy, Reading Habits of Students, Tapping,

Preservation and Conservation of Indigenous Knowledge of the North East India, Users Needs and their Information Seeking Behaviour, Computer Applications and Applications of Information Communication Technology in Managing Libraries and Information Centres, Digital Libraries, Utilization of Information Resources both in Urban and Rural Settings of the North East India.

The Department has been regularly revising and updating the syllabus keeping pace with the rapid advances in Information Communication Technology (ICT) and its impact and its crucial role in the library and information profession on one hand, the ever-changing and the ever-increasing needs and requirements of the users on the other. The last revision of the syllabus has been made in July, 2013.

Brief Statement of Academic Activities

The Department remained vibrant and active through the year. Most of its Faculty and PhD scholars were academically productive through attendance and paper presentations at seminars and conferences as well as through publishing in journals of national and international repute, raising the prestige of the Department a few notches. A Festschrift was also produced in honour of Prof. J.C. Binwal, (former Head of the Department and former Dean, SEMIS). Most of the Faculty also served the profession in various capacities such as giving lectures at various programmes, chairing sessions at seminars as well as participating as panelists at conferences. All in all it was a fruitful year for the Department.

Students' Profile

Enrolment Capacity: M.A/M.Sc.- Ph.D – (Variable)

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non- Meghalaya	Total
M.L.I.Sc	-	28	12	10	20	24	6	30
Ph. D	-	1	2	3	-	-	3	3

Degrees Awarded:

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non- Meghalaya	Total
MLISc	-	25	1	9	17	9	17	26
Ph. D	-	-	1	-	1	-	1	1

Students Awarded Ph. D Degree:

Name of Student	Title of Thesis	Names(s) of Supervisor(s)/ Joint Supervisor.
Mrs.Bobby Goswami Baruah	“Relevance of Library and Information Science Education in the Indian Job Market : A Study of Indian University and Corporate libraries”.	Dr. P. Hangsing.

Placement of Students

- a. Number of students qualified
NET in 2014 - 4
- b. UGC JRF - 2
- c. Non-NET fellowship - 1

Courses Conducted

M.L.I. Sc

Semester – I

Foundations of Library and Information Science, Knowledge Organization - 1 (Theory), Knowledge Organization - 1 (Practice), Information Sources and Services, Foundation of Computer Application.

Semester – II

System Analysis and Design, Knowledge Organization –11 (Theory), Knowledge Organization –11 (Practice), Library Software Package (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.

Ph.D Course Work

Research Methodology in Library and Information Science, Advance in Knowledge Management and Organizational Studies, Advance in Library and Information Management, Trends in Libraries and Librarianship, Advances in Information System Studies, Review of Literature

Educational Tour of Students

Teacher(s) in-charge : Jacqueline Jeane Thabab, Assistant Professor and Batskhem Sten, Information Scientist, NEHU Central Library.

Places/Institutions visited :

(i) Kolkata :- British Council Library, American Information Resource Center, Jadavpur university, Indian Statistical Institute, National Library, IIM :- Calcutta, Book Fair.

Duration of the tour :

1st – 10th February 2015.

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.

Seminars / Conference/Symposia/Extension Programmes etc.

Organized:

Librarians' Day, 12th August, 2014 – To commemorate the birth anniversary of Dr. S. R. Ranganathan, Father of Indian Library and Information Science, the Department observed Librarians' Day along with the rest of India. Prof. B. Myrboh, Pro-Vice Chancellor, NEHU was Chief Guest on the occasion. Library Professionals from the NEHU Central Library and different colleges of Shillong were also present on the occasion. A poster competition and exhibition on the Life and Work of Ranganathan were also held where the best three posters were awarded prizes.

Attended

Bikika Laloo

Attended PLANNER, organized by INFLIBNET at Dibrugarh University, 25th-27th September, 2014

Attended IASLIC 26th National Seminar on "Roadmap to Usher in Knowledge Society" Gauhati University, 25th-28th November, 2014.

Presented a paper titled Students' Perception of the Information Literacy of their Teachers:

A Study of NEHU Teachers, with Deity Kharakor at the *International Conference on Quality of Higher Education* organized by the Department of Education, NEHU, Shillong, 18th -19th March, 2015

Jarlimon Khongtim

Attended a two days *National Workshop on "Digitization and Digital Preservation of Documents & Books"* held on 4th to 5th November 2014, organized jointly by the Centre for Development of Advanced Computing (C-DAC), Kolkata, Govt. of India and Directorate of Arts and Culture, Govt. of Meghalaya

Publications

Published in India

Laloo, B., Passah, P. (2014). "Managing and Documenting Indigenous Traditional Knowledge of North-East India: A Proposal," In Proceedings of the *International Seminar on Application of Communication and Information Technology in Library (SACITIL)* organized by Variable Energy Cyclotron Centre (VECC), Kolkata, 155-157

Laloo, B., Kharbihkhiew, R. (2014). "Use of Search Engines by the Students of National Institute of Technology, Meghalaya: A Study," *International Journal of Librarianship and Administration (IJLA)* 5: 113-123

Laloo, B., Kharmyndai, L. (2015). Adaptive Facilities for Supporting Differently-Abled Persons in the Library Environment: A Case Study of Libraries in Shillong, Meghalaya, India, *SRELS Journal of Information Management*, 52: 31-35

Ravikumar, S., Vunglianaching. (2014). A Study on Use of Electronic Resources by the Research Scholars of North Eastern Hill University,

Pearl; A Journal of Library and information Science 8(3), 145-150

Published Abroad

Ravikumar, S., Agrahari, A., Singh, S .N. (2015). Mapping the Intellectual Structure of Sceintometrics: A Co – Word Analysis of the *Journal Scientometrics*(2005-2010) *Scientometrics* 102 (1),929 -955.

Singson, M., Hangsing, P. (2014). Reaffirming Pareto 80/20 Rule in Indian Academic

Consortia. *World Digital Library*, 7 (1), June 2014, 57- 70.

Singson, M., Hangsing, P. (2014). Implication of 80/20 Rule in Electronic journal Usage of

UGC – Infonet Consortia. *The Journal of Academic Librarianship*. 41, (issue 2), march 2015, 207 – 219.

Books/BookChapters/Proceedings

Binwal, J.C., Naga, Moses.M., Singh, Ch.Ibohal. (2015). Changing Dimensions in Librarianship, Guwahati, Assam ,Niveda Publications.

Any other

Bikika Laloo

Delivered one lecture on “The Teaching Profession : Issues and Challenges,” in the UGC Special Summer School on the 2nd of September, 2014.

Chaired one session at the PLANNER, organized by INFLIBNET at Dibrugarh University, 25th-27th September, 2014.

Panelist during the Panel Discussion at the PLANNER, organized by INFLIBNET at Dibrugarh University, 25th-27th September, 2014.

Delivered two lectures titled “Personality Development amongst Teachers,” and “ICT and Time Management amongst Teachers,” at the UGC Refresher Course in Education, on the 22nd and 24th of October, 2014

Chaired one session at the IASLIC 26th National Seminar on “Roadmap to Usher in Knowledge Society” Gauhati University, 25th-28th November, 2014

Moses M. Naga

Delivered a talk on “Information Literacy on Rural Development Programmes : A Community Information Service Initiative for the National Service Scheme (NSS) Volunteers” at Manipur University organized by the NSS Cell of Manipur University during 2nd – 5th November, 2014.

S.Ravikumar

Delivered two lectures in the Refresher Course organized by the Department of Education, NEHU, Shillong, on 18-10-2014.

Jacqueline Jeane Thabab

Attended a Short –term Course in SPSS conducted by the UGC – Academic Staff College, NEHU, Shillong w.e.f. 23rd – 28th June, 2014.

Attended a Special Winter School conducted by the UGC – Academic Staff College, NEHU, Shillong w.e.f. 30th October - 19th November, 2014.

Jarlimon Khongtim

Attended a Short –Term Course on “Research Methodology with Special Reference to SPSS” from 19th to 24th May 2014 Conducted by the UGC -Academic Staff College, NEHU, Shillong.

DEPARTMENT OF MANAGEMENT (Tura Campus)

Head : Prof. G. Singaiah
Telephone : 03651-224566 (0); 9485190779 (M)
E-mail : gsingaiah@yahoo.co.in
Faculty :

Designations	Name and Qualifications	Specialisations
Professor	G. Singaiah, M.Com., MBA (Andhra University), Ph D (Utkal University), FDP (SICI)	Cross Cultural Management, Marketing and Entrepreneurship Development
	J. U. Ahmed, M.Com, Ph D, LL.B (Assam University), LL.M (GOU)	Finance, Banking and Statistical Methods
Associate Professor	A. Bhattacharjee, M.Com., Ph D (Gauhati University)	Human Resource Management, Rural Marketing and Entrepreneurship Development
	K.C. Biswal, M.Com., MBA., M.Phil., Ph D (Berhampur University)	Accounting & Finance, Management Information System and E-commerce.
Assistant Professor	D. Bhagat, MBA (Assam Agricultural University), Ph D (Gauhati University)	Agri-Business Management, Supply Chain Management & Quantitative Technique
	Kh. Devananda Singh, PGDIBO, M.Com., MBA (IGNOU), Ph D (Manipur University)	Accounting & Finance, Entrepreneurship and Agricultural Finance
	S.B.A. Mazumder, MBA (Assam University)	Marketing & Finance
	S.L.S. Akoijam, MBA (Amity University), Ph D (Manipur University)	International Business & Marketing

School of Economics, Management and Information Sciences

Thrinadha Rao Bandaru, MBA (Pondicherry University)	Tourism and Human Resource Management
Bimal Deb Nath, MBA (Devi Ahilya University), Ph D (NEHU)	Information System and Information Technology

Thrust Areas of Research

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

international journal. The faculty members published books and research papers in various national / international journals and edited books. They also participated and presented papers in a number of national and international seminars / conferences. The faculty members also organised seminars/ workshop / symposiums / conferences and participated in MDP, FDP, refresher course and orientation programmes.

Brief Statement of Academic Activities

During the period under report, the department published two issues of its bi-annual

Students Profile:

Enrolment Capacity: MBA- General: 33; MBA- Services: 10; Ph D – Variable

Actual Admission:

	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
MBA-General	2	2	5	17	11	24	4	28
MBA-Services	-	5	2	2	5	6	1	7
Ph D	01	02	08	5	6	04	07	11

Degrees Awarded:

	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
MBA-General	01	25	6	16	16	20	12	32
Ph D	-	-	-	-	-	-	-	-

Placement of Students:

The conscious effort put in by the placement cell of the NEHU Tura campus under Dr. Abhigyan Bhattacharjee, placement co-ordinator, has resulted in some of the biggest recruiters like Vodafone India Ltd, Airtel, Hi-Design-HR, PRADAN, Dabur, HDFC Bank, Axis Bank, ICICI Bank etc. showing keen interest in our department. The placement record has been cent per cent with average CTC offered being Rs. 4.00 lakhs.

Courses Conducted:

The department offers two master's programme viz., MBA (General) & MBA (Service Management) and Ph D programme.

MBA (General)

The department under MBA programme offers 32 courses, out of which 20 are core courses and one project work equivalent to two courses. Besides these, 10 special courses, five each from two specialisation groups are to be pursued. The dual specialisation courses are based on four functional areas of management, viz., Financial Management, Marketing Management, Human Resource Management and Agri-Business Management.

MBA (Service Management)

The department under MBA (Service Management) offers 32 courses, out of which 20 are core courses and one project work equivalent to two courses. Besides these, 10 special courses, five from any one of the functional areas and five from any one of the sartorial areas are to be pursued. The specialisation courses are based on four functional areas of management, viz, Finance, Marketing Management, Human Resource Management and Agri-Business Management;

and three sartorial areas of Management, viz., Banking & Insurance, NGO Management And Tourism Management.

Ph D:

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

Industrial Tour of Students:

Name(s) of the Teacher(s) in-charge : Dr. Sunildro Akoijam and Ms. S.B.A. Mazumber

Places/ Institutions visited : Cochin, Trivandrum and Bangalore

Duration of the tour : 19 days (20th January 2015 to 7thFebruary 2015)

Purpose of visit : The industrial visit with the second semester students (35 students) of the department was carried out for practical industrial exposure. They visited some reputed industries/institutions like HP petroleum (Refinery), HP petroleum (Cylinder refilling station), Kerala Vegetable & fruits promotion council, Coca cola Company, Karnataka milk corporative Ltd, etc

Seminar/Conferences/Workshop/Extension Programmes

Organized:

Organized a *National Symposium on "The Role of Logistics and Supply Chain Management in the Development of North-East India"* in collaboration with Basin Development Unit, West Garo Hills (IBDLP), Meghalaya Basin Development Authority, Govt. of Meghalaya on 23rd May, 2014. Dr. Deepak Bhagat was the coordinator and Dr. S.L.S. Akoijam was the joint coordinator of the symposium.

Organized an “*International Seminar on Entrepreneurship in the Fast Changing Society: The Socio- Economic Perspectives*” during 26th – 27th June, 2014. The seminar was sponsored by Department of Planning, Govt. of Meghalaya and coordinated by Dr. Kh. Devananda Singh.

Organized a Management Fest- MOSAIC 2014 on 31st October, 2014. Dr. Sunildro L.S. Akoijam co-ordinated the event.

Organized a “*Case Study workshop in Management Education and its Importance*” during 2nd- 5th November, 2014. Dr. Sunildro L. S. Akoijam coordinated the workshop.

Organized a *National Seminar on “Emerging Trends of Financial Services in India”* during 20th – 21st November, 2014. The seminar was sponsored by ICSSR and NABARD. Dr. K. C. Biswal coordinated the seminar.

Organized a “*Capacity Building Workshop on Critical Research Thought Process for University/College Teachers*” sponsored by ICSSR, New Delhi during 24th November to 7th December, 2014. The workshop was coordinated by Prof. G. Singaiah and Dr. S. L. S. Akoijam.

Attended:

G. Singaiah

Presented a paper titled “Re- Engineering Supply Chain Management Systems from Cross- Cultural Perspectives in North East India” in the *National Symposium on The Role of Logistics and Supply Chain Management in the Development of North-East India* organised by Department of Management, NEHU, Tura Campus on 23rd May, 2014.

Presented a paper titled “Understanding Entrepreneurial Motivation among Aborigines

in North East India – A Cross Cultural Study” in *International Seminar on Entrepreneurship in the Fast Changing Society – The Socio- Economic Perspectives* organised by Department of Management, NEHU, Tura Campus during 26th – 27th June, 2014.

Presented a paper titled “University Learning vs. Industry Orientation – A Dichotomy for Sustainable Interaction” in *National Seminar on Development of Competencies and Skills* organized by Department of Commerce and Management studies, Andhra University during 25th -26th, July, 2014.

Presented a paper titled ‘Development of Entrepreneurial skills among Artisans of Handicrafts in North East India’ in *National Seminar on Development of Entrepreneurial Skills of Craftsmen of Different Handicrafts of Dhubri District* organized by Dhubri College, during March, 2015.

Abhigyan Bhattacharjee

Presented a paper titled “ Economics of Tea Supply Chain: A Case Study of Garo Hills” in *National Symposium on The Role of Logistics and Supply Chain Management in the Development of North-East India* organised by Department of Management, NEHU, Tura Campus on 23rd May, 2014.

Presented a paper titled “Working Capital Finance to Micro and Small Enterprises by Banks- Analysis of Constraint factors” in the *International Seminar on Entrepreneurship in the Fast Changing Society – The Socio- Economic Perspectives* organised by Department of Management, NEHU, Tura Campus during 26th – 27th June, 2014.

Presented a paper titled “ Exploring the Status and Constraints of Micro- Finance Institutions of North- East India” in the *National Seminar*

on *Emerging Trends of Financial Services in India* organised by Department of Management, NEHU, Tura Campus during 20th – 21st November, 2014.

Participated in a *National Seminar on Emerging Trends of Financial Services in India* organised by Department of Management, NEHU, Tura Campus during 20th – 21st November, 2014.

Participated in ICSSR, New Delhi Sponsored *Capacity Building Workshop on 'Critical Research Thought Process'* organized by the Department of Management, NEHU, Tura campus from 24th November -7th December, 2014.

Presented a paper on “Teaching Ethics and Values in Higher Education” in *National Conference on Leading Organisation to Sustainable Growth* organised by School of Management Sciences, Lucknow during 27th -28th Feb, 2015.

K.C.Biswal

Presented a paper entitled “Self Employment Of Opportunities in West Garo Hill District of Meghalaya.” at the *International Seminar on Entrepreneurship in the Fast Changing Society: The Socio-Economic Perspectives* organised by Department of Management, NEHU, Tura campus on 26th-27th, June, 2014.

Presented a paper entitled “Emerging trends of Financial Services in India” at the *National Seminar* organised by Department of Management, NEHU, Tura campus, Meghalaya on 20th-21st November, 2014.

Presented a paper entitled “Emerging Trends in the Indian Banking Sector –Challenges and Opportunities” at the 76th All India Commerce

Conference & International Seminar on Corporate Social Responsibility and Financial Reports on 27th-29th, December, 2014 organised by KIIT University and Utkal University in Bhubaneswar, Odisha.

Deepak Bhagat

Presented a paper titled “Analysis of Agriculture Supply Chains: A Conceptual Framework” in the *National Symposium on The Role of Logistics and Supply Chain Management in the Development of North-East India* organised by Department of Management, NEHU, Tura Campus on 23rd May, 2014.

Presented a paper entitled “Border Haats and Economic Development: An Assessment from the Perspective of the Garo Hills, Meghalaya” at *The National Seminar on Situating Tura Town from West Garo Hills* during 5th- 7th June, 2014, organised by Department of History and Archaeology and Department of Garo in collaboration with *A-Chik Literature Society*, Tura Meghalaya.

Presented a paper entitled “Problem and Prospects of Dairy Entrepreneurship Development in Jorhat District of Assam” at the *International Seminar on Entrepreneurship in the Fast Changing Society: The Socio-Economic Perspectives* during 26th – 27th June, 2014.

Presented a paper titled “BF/BC Model for Financial Inclusion: A Critical Analysis” at the *National Seminar on Emerging Trends of Financial Services in India* organised by Department of Management, NEHU, Tura Campus during 20th – 21st November, 2014.

K. D. Singh

Presented a paper titled “Role of Banks in Financial Inclusion of SHGs: With Special

Reference to Hailakandi District of Assam” at the *National Seminar on Emerging Trends of Financial Services in India* during 20th – 21st November, 2014.

Participated in *Capacity Building Workshop on ‘Critical Research Thought Process’* organized by the Department of Management, NEHU, Tura campus from 24th November - 7th December, 2014.

Participated in *One Day National Conference on Tourism and Entrepreneurship: Future Directions* organized by Centre for Entrepreneurship Development, Manipur University, Imphal on 3rd February, 2015.

S. B. A. Mazumder

Participated in a *National Symposium on ‘Role of Logistics and Supply Chain Management in the Development of North East India’* organized by Department of Management, NEHU, Tura campus held on the 23rd of May, 2014 .

Presented a paper titled “Remittances and Micro Enterprises” in *International Seminar on Entrepreneurship in the Fast Changing Society – The Socio-Economic Perspectives* organised by Department of Management, NEHU, Tura Campus during 26th – 27th June, 2014.

Presented a paper titled “Emergence of Islamic services in India” at the *National Seminar on Emerging Trends of Financial Services in India* organised by Department of Management, NEHU, Tura Campus during 20th – 21st November, 2014.

S. L. S. Akoijam

Participated in a *National Symposium on Role of Logistics & Supply Chain Management in the Development of North East India* on May 23rd, 2014 organised by Dept. of Management, NEHU, Tura Campus.

Presented a paper on “Strategic Entrepreneurship in Small Entrepreneurial ventures: A tool for providing Sustained Competitive Advantage” in *International Seminar on Entrepreneurship in the Fast Changing Society – The Socio-Economic Perspectives* organised by Department of Management, NEHU, Tura Campus during 26th – 27th June, 2014 .

Presented a paper on “Microfinance Regulations in India: A Critical Analysis” in *National Seminar on Emerging Trends of Financial Services in India* organised by Department of Management, NEHU, Tura campus during 20th – 21st November, 2014.

Thrinadha Rao Bandaru

Presented a paper entitled “Retaining Employees of Hotel Industry- Challenges Ahead” at the *International Conference on ‘Contemporary Research in Tourism and Hospitality: Theory, Practice and Pitfalls’* organized by the Department of Tourism Studies, Pondicherry University in collaboration with Bournemouth University, UK and Indian Institute of Tourism and Travel Management, Gwalior during 18th -21st February 2014.

Participated in a *National Symposium on role of Logistics and Supply Chain management in the Development of North-east India*, held at Dept. of Management, NEHU, Tura Campus, Tura on 23rd May, 2014.

Presented a paper entitled “ Tourism Entrepreneurship – A Boon to North East India” in the “*International Seminar on Entrepreneurship in The Fast Changing society: The Socio-Economic Perspective*” organized by Dept. of Management, North Eastern Hill University, Tura Campus, Tura, Meghalaya during 26th to 27th June, 2014.

Presented a paper entitled “Public Debt and Financial Development” in the “*National Seminar on Emerging Trends of Financial Services in India*” organized by Dept. of Management, North Eastern Hill University, Tura Campus, Tura, Meghalaya during 20th to 21st November, 2014.

Presented a paper titled “Development of Soft Skills for sustaining Entrepreneurship with reference to Kautilya Arthashastra’ in *National Seminar on Development of entrepreneurial skills of craftsmen of different handicrafts of Dhubri District* organized by Dhubri College, held during 8th, 9th and 10th March, 2015.

B. Debnath

Attended a *National Symposium on Role of Logistics & Supply Chain Management in the Development of North East India* on May 23, 2014 organised by Dept. of Management, NEHU, Tura Campus and in *International Seminar on Entrepreneurship in the Fast Changing Society – The Socio-Economic Perspectives* during 26th – 27th June, 2014 organised by Dept. of Management, NEHU, Tura Campus.

Participated in a *National Seminar on Emerging Trends of Financial Services in India* organised by Department of Management, NEHU, Tura Campus during 20th – 21st November, 2014.

Participated in *Capacity Building Workshop on Critical Research Thought Process* organized by the Department of Management, NEHU, Tura campus from 24th November -7th December, 2014.

Publications:

Research Papers:

Published in India:

Bhattacharjee, A. (2014). Distribution Management Paradigm and Channel Behaviour

Dimension of Rural Retailers: An Empirical Study in Rural Assam. *Scholars World, IRMJCR*, 2(2): 72-82.

Bhattacharjee, A. (2014). FMCGs as Change agents in Rural Transformation: An Empirical Study. *Journal of Rural and Industrial Development*, 2 (2): 1-8.

Biswal, K. C., Lyngdoh, Y. B. (2014). Impact of Working Capital on Profitability of Cement Companies in Meghalaya: A study on Mawmluh Cherra Limited. *Journal of Business Management, Commerce & Research*, 1(7): 68-87.

Biswal, K. C., Yadav, P. (2014). A study on Profitability Analysis of SBI (New Silchar Branch), Assam. *The International Manager*, 1(2): 127-171.

Biswal, K.C. (2014). The Role of MIDC in the Industrial Development of Meghalaya. *Scholarly Research Journal for Humanity Science & English language*, July-September, 1(1): 205- 227.

Biswal, K.C. (2014). Emerging Trends in the Indian Banking Sector –Challenges and Opportunities. *International Journal of Advances in Arts, Sciences and Engineering*. 1(2): 14-18

Bhagat, D. & Dhar, U. R. (2014). Relationship Dynamics in Pineapple Supply Chain: Empirical Evidence from Garo Hills of Meghalaya. *Global Business Review*, 15(4): 747- 765.

Priyamvada, S., Bhagat, D., Mishra, B. K. (2014). Factors Contributing the Success of Rural Dairy Entrepreneurs in Jorhat District of Assam. *Journal of Hill Agriculture*, 5 (1): 35-44.

Bhagat, D., Dhar, U. R. (2014). Exploring Relationship Dynamics in Areca Nut Supply Chains. *Royal Business Review*, 1(1): 7-22.

Bhagat, D., Barooah, B. K. (2014). Application of Expectancy- Value Model in Understanding Farmers Perceived Value and Buying Behaviour towards Fungicide Used in Paddy in Jorhat District of Assam. *International Journal of Applied Management Research*, 2(1): 83-92.

Bhagat, D. (2014). Conversion to Organic Farming: A Critical Review. *Source*, 4(4): 138-151.

Singh, K. D. (2014). Factors Influencing the Growth of Microenterprises in West Garo Hills District of Meghalaya. *Kangleipak Business Review*, 3: 58-69

Books/Book Chapters/ Proceedings

Ahmed, J. U., Rashid, M. A. (2015). *Financing Micro and Small Enterprises in India: Diagnosis & Directions*. Abhijeet Publications, New Delhi, (ISBN: 978-93-5074-151-1).

Ahmed, J. U., Bhattacharjee, A. (2015). *A Compendium on Contemporary Issues in Management Thoughts and Practices*. New Century Publications, Kolkata.

Ahmed, J. U., Rashid, M. A. (2014). *Micro, Small & Medium Enterprises in India: Institutional Framework, Problems and Policies*. New Century Publications, New Delhi, India.

Ahmed, J. U., Bhandari, G. P. (2014). *Efficacy and Working of Regional Rural Banks in India: An Implication*. Concept Publishing

Company Pvt. Ltd, New Delhi, India.

Bhagat, D., Sah, S. P. (2014). Grass Root Level Institutions Evolved Under NERCORMP –IFAD. In J. U. Ahmed and Kh. Devananda Singh (Eds.) *Financing Priority Sector in India: Scenario, Setback and Solution*, Manas Publishers, Jaipur, 199-212.

Akoijam, L. S. S. (2014). *Regional Rural Banks: A Source of Sustainable Rural Agricultural Credit*. Manas Publisher, Jaipur. (ISBN: 978-93-83231-21-8).

Akoijam, L. S.S., Mazumder, S.B.A. (2014). *Crime against Women: Global Scenario*. Manglam Publications, New Delhi. (ISBN: 978-93-82983-24-8).

Akoijam, L. S. S. (2015). *Social Enterprise as an Intervention for Regional Development: Evidences from the North-Eastern India*. Manas Publisher, Jaipur, (ISBN: 978-93-83231-23-2).

Mazumder, S. B. A. (2015). Women Entrepreneurship. In J. U. Ahmed & K. D. Singh (Eds.) *Entrepreneurship: A Drive Towards Socio-Economic Development of North Eastern Region of India*. Manas Publisher, Jaipur, (ISBN: 978-93-83231-23-2)

Mazumder, S. B. A (2014). *Crimes against women- A global scenario*. In S. Sarkar, *Crimes against women*. Manglam Publications, New Delhi. (ISBN: 978-93-82983-24-8).

Singh, K. D. & Ahmed, J. U. (2015). *Financing of Priority sector in India: Scenario, Setback and Solutions*, Manas Publishers and Distributors, Jaipur (ISBN 978-93-83231-19-5).

Singh, K. D. (2015). *Entrepreneurship: A Drive towards Socio-Economic Development of North Eastern Region of India*. Manas Publishers, Jaipur (ISBN 978-93-83231-23-2).

Singh, K. D. (2015). Agricultural Credit in Arunachal Pradesh-A Study of Arunachal Pradesh Rural Bank, India, *Lakshi Publishers and Distributors, New Delhi*, (ISBN: 978-93-82120-40-7).

Singh, K. D. (2015). "Priority Sector Lending by Rural Banks in India: An Evaluative Study on Meghalaya Rural Bank", *Manas Publishers*

and Distributors, Jaipur, (ISBN 978-93-83231).

Singh, K. D. (2014). Micro Enterprises in India: An Empirical Study of West Garo Hills District of Meghalaya (2014), Lap Lambert Academic Publishing, Germany (ISBN: 978-3-659-59770-1).

Research Projects:

Ongoing:

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1	Comparative study for Micro & small enterprises in Impal West District of Manipur & West Garo Hills district of Meghalaya – The Entrepreneurial Prespective	Dr. K.D. Singh	ICSSR, New Delhi	Rs. 7,00,000/-
2.	Institutional Credit for Income & Employment Generation in some select villages in West Garo Hills District, Meghalaya – the Socio Economics Aspects	Dr. K.D. Singh	NABARD, Mumbai	Rs. 5,33,000/-
3.	An evaluative study on the performance and working of Meghalaya rural bank	Prof. J.U. Ahmed	ICSSR, New Delhi	Rs. 8,00,000/-

Any other

K.C. Biswal

Delivered two lecturers given on Future Commodity Market in West Garo Hill District, Meghalaya, organised by NABARD, Tura Branch on 25th November 2014.

Attended ICSSR Sponsored Faculty Development Programme "Capacity Building"

On Critical Research Thoughts organised by Department of Management, NEHU, Tura campus, Meghalaya. On 24th November, 2014 -07th, December, 2014.

Attended AICTE Sponsored Faculty Development Programme on "Application of MS EXCEL AND SPSS IN RESEARCH" on 2nd-15th, February, 2015. Organised by

Trident Academy of Creative Technology, Bhubaneswar, Odisha.

Deepak Bhagat

Participated in *Capacity Building Workshop on Critical Research Thought Process* organized by the Department of Management, NEHU, Tura campus from 24th November -7th December, 2014.

K.D. Singh

Delivered lectures as Resource Person in the *Workshop on Human Resource Management and Annual Performance Appraisal/Evaluation/APAR for Senior IB(E)S Officers of AIR and Doordarshan*, during 9th to 14th June, 2014 at Shillong, organized by, PrasarBharati, Regional Staff Training Institute (Tech.) AIR and Doordarshan, Shillong, Meghalaya.

S.B.A. Mazumdar

Participated in a *Workshop on 'Latex- A Document Preparation System'* organized by the Department of Computer applications, NEHU, Tura campus from 16th -17th September, 2014
(3) *Capacity Building Workshop on Critical Research Thought Process* organized by the Department of Management, NEHU, Tura

campus from 24th November -7th December, 2014.

S.L.S. Akoijam

Participated in *Capacity Building Workshop on Critical Research Thought Process* organized by the Department of Management, NEHU, Tura campus from 24th November -7th December, 2014.

Thrinadha Rao Bandaru

Delivered a lecture on the topic "Team Building and Communication" in *Five Day Workshop on Skill Development Training Program on Food Processing*. Sponsored by National Institute for Micro, Small and Medium Enterprises (ni-msme), NIFTEM, MoFPI, Govt. of India. Organised by Department of History, NEHU, Tura Campus, Tura, during 22nd -27th March 2014.

Participated in a *Capacity Building Workshop on Critical Research Thought Process sponsored by Indian Council of Social Science Research, New Delhi*, organized by the Department of Management, NEHU, Tura campus from 24th November -7th December, 2014.

DEPARTMENT OF JOURNALISM & MASS COMMUNICATION

Head- In-Charge : Kamaljit Chirom
Telephone : 0364-2723403
E-mail : kamalchi@yahoo.co.in
Faculty :

Designation	Name and Qualification	Specialization
Assistant Professor	Kamaljit Chirom, MA (Manipur)	Film Studies, Advertising, Cultural Communication.
	Barath N., MA, M.Phil,(Hyderabad).	Media and Culture Studies, Development Communication, Print Media
	Karen L. Donoghue,M.A,(Sikkim Manipal)	Electronic Film Production, Television, New Media Studies

Thrust Areas of Research:

Film Studies, Culture and Media, Television, New Media, Print Culture, Development Communication.

Brief Statement of Academic Activities:

The Department started its academic programme from 2014 and the first batch of the students for MA (Journalism & Mass Communication) was admitted.

Students' Profile

Enrolment Capacity: M.A/M.Sc. - Ph.D. – Variable: Nil

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
M.A.	-	10	4	8	6	10	4	14
M.Phil. Ph.D.	-	-	-	-	-	-	-	-

Courses Conducted

Postgraduate: MA (Journalism & Mass Communication)

Semester-I

Mass Communication: Theory and Principles, History and Growth of Journalism, Print Journalism – Reporting practice, Print Journalism – Editing practice, Reporting (Practical), Editing (Practical).

Semester-II

Media, Culture and Society (Open), Film Production, Television, Studies (Open), Radio Production, Film Production (Practical), Radio Production (Practical).

Semester-III

Public Relations, Basic Photography (Open), Advertising, Communication Research, Advertising and Public Relations (Practical), Internship.

Semester-IV

Media Law, Ethics and Management, New Media, Film Studies, Communication for Development, Media and Gender.

Seminars/Conferences/Symposia/Extension Programmes etc.

Attended:

Kamaljit Chirom

Presented a paper titled “Representation of Transgender characters in Manipuri cinema: Case Study of Ang Tamo and Nupa Shabee” at the UGC Sponsored *National Seminar on the theme “100 Years of Indian Cinema with Special Reference to North East”* organised by Lakhimpur Commerce College, North Lakhimpur, Assam on 10th and 11th May 2014.

Presented a paper titled “Role of Media in Intercultural Dialogue” at the *National Seminar on “Cultural Pluralism in India and inter-cultural dialogue”* organised by Centre for Studies in Civilizations, New Delhi on 23rd -24th February 2015 at ICSSR.

Karen L. Donoghue

Presented a paper titled “Representation of Women in Mizo Cinema: A Case Study of Khawnglung Run (Invasion of Khawnglung)” at two-day UGC sponsored *National Seminar on “100 Years of Indian Cinema with Special Reference to North East”* organized by Lakhimpur Commerce College, North Lakhimpur Lakhimpur Commerce College on 10-11 May, 2014.

Any Other

Kamaljit Chirom

Delivered a lecture on the topic “Communication Skills for Facing Interviews” at a *Workshop on “Value Proposition - Personality Development and Communication Skills”* organized by the Career and Counselling Cell, NEHU, Shillong on 11th and 12th September 2014.

Barath N

Invited as a participant for a Colloquium on Social Media and Journalism under CHIME 2014 of Department of Journalism and Mass Communication, EFLU Shillong.

Karen L. Donoghue

Conducted series of programmes on “Career Guidance” for Doordarshan, Shillong Kendra.

Made a ten-minute film Mizo language titled “Nang Malsawmna Ni Ang Che”, for the Shillong Mizo Presbyterian Church.

DEPARTMENT OF TOURISM AND HOTEL MANAGEMENT

Head : Dr. Saurabh Kumar Dixit
Telephone : 0364- 2723441 (O); 09436565964 (M)
E-mail : saurabh5sk@yahoo.com, saurabhdixit@nehu.ac.in
Faculty :

Designation	Name and Qualification	Specialization
Associate Professor	Saurabh Kumar Dixit, B.H.M. & C.T. (M.J.P.R.K. University, Bareilly.), M.T.M. (I.G.N.O.U., New Delhi), Ph.D. (Bundelkhand University, Jhansi,),	Tourism / Hospitality Management /Marketing/ Consumer Behaviour
	Punit Gautam, M.T.A. (Kurukshetra University), D.Phil. (Garhwal University)	Tourism Management
Assistant Professor	Benjamin F. Lyngdoh, M.Com.(Gauhati University), Ph.D. (N.E.H.U)	Accountancyand Finance
	Sharad Kumar Kulshreshtha, M.Com. PG Dip in EDP , M.T.A. (Aligarh Muslim University, Aligarh), Ph.D. (B.R.A. University, Agra)	EventManagement/ Service Marketing

Thrust Areas of Research:

Hospitality Management; Guest/ Visitor Satisfaction; Tourism Marketing; Eco/ Sustainable Tourism; Tourism Policy; Planning Impacts ; Tour Operations; Finance; Human Resource Management; Entrepreneurship; Development Studies; MICE & Event Management; Travel

Agency Management; Service Marketing and Emerging Tourism trends.

Brief Statement of Academic Activities:

The faculty members engaged themselves in doing research in their areas of specialisations besides fortification of the departmental

resources. The Department with the help of external subject experts has got the course structure of its Post Graduate Programme approved and the programme is to be announced from 2015-16 academic session. The faculty members were invited occasionally in different committees and seminars for deliberations of academic inputs. The requisition of subject books/ journals is also forwarded to the Central Library for their procurement. Board of Studies of the Department is also got reconstituted in this period.

Seminars/Conferences/Symposia/Extension Programmes etc.:

Attended:

Saurabh Kumar Dixit

Delivered keynote address in *International Level ICC Look East Business Expo - 2015* on February 27th, 2015 at Hotel Pinewood, Shillong (Meghalaya).

Punit Gautam

Attended an *International conference on "Sustainable tourism"*, organized by Government of Gujarat at Ahmedabad, September 2014

Benjamin F. Lyngdoh

Presented a paper titled 'Branding of Tourism Resources of North East India: a Competitive Framework' at Indian Tourism Congress on Strategic Interventions in Tourism: Role in Regional Development organized by Imphal College, Imphal and MIMS, Manipur University, Imphal on 5th – 6th April, 2014.

Presented a paper titled 'Tourism Services as a Crucial Tourism Logistic' at Role of Logistics and Supply Chain Management in the Development of North-East India organized

by Department of Management, NEHU, Tura Campus on 23rd May, 2014.

Presented a paper titled 'The Socio-Economic Impact of Tourism Entrepreneurship: Some Evidences' at *International Seminar on Entrepreneurship in the Fast Changing Society: The Socio-economic Perspectives* organized by Department of Management, NEHU, Tura Campus on 27th June, 2014.

Presented a paper titled 'Tourism-Related Entrepreneurship and Socio-Economic Change: A Case Study of Meghalaya, India' at Inclusive Growth and Sustainable Development: Agenda for Tourism and Hospitality Industry organized by Indian Tourism and Hospitality Congress at Manali (HP), India on 6th – 8th February, 2015.

Presented a paper titled 'The Prospects and Challenges of Tourism-Related Entrepreneurship in North East India' at Entrepreneurial Issues in Indian Tourism and Hospitality Industry organized by Department of Tourism and Hotel Management, Kurukshetra University, Kurukshetra (Haryana) on 14th March, 2015.

Sharad Kumar Kulshreshtha

Presented a paper on "Potential of Wildlife and Eco tourism in North East India" in connection with Look East Business Show – 2015 the theme of "Exploring North East India: Tourism Unbound" Organized by Indian chamber of Commerce Look East Business Show – 2015 on 27th February, 2015 Shillong, Meghalaya, India.

Publications:

Research Papers

Published in India

Dixit, S.K. (2014). Community Involvement and Tourism Development in Meghalaya, India,

South Asian Journal of Tourism and Heritage, 7 (2), 25-32.

Dixit, S.K. (2015). Corporate Growth Strategies of Successful Indian Hotel Companies, *Indian Journal of Applied Hospitality and Tourism Research*, 7, 56-67.

Gautam, P. (2014). Analyzing Resource Potential for Nature Based Tourism: A Case Study of Himachal Pradesh (India), *International Journal of Multidisciplinary Approach & Studies (ISSN No: 2348-537X)*, 208-225.

Lyngdoh, B.F. (2014). Non-government Organizations and Inclusive Growth. *The NEHU Journal*. 12: 79-93.

Lyngdoh, B.F., Rynjah, M.O. (2014). Tourist needs gap in Cherrapunji Destination of Meghalaya, India. *Tourism Innovations: An International Journal of Indian Tourism and Hospitality Congress*. 3: 61-71.

Lyngdoh, B.F. (2015). Tourism-related Entrepreneurship and Socio-Economic Change: A Case Study of Meghalaya, India. *Tourism Innovations: An International Journal of Indian Tourism and Hospitality Congress*. 4: 38-53.

Kulshreshtha, S.K. (2015). "ICT: a Key of Global Transformation of Travel & Tourism Industry" in the *Tourism Spectrum- A Refereed International Journal (Special issue on "ICTs and Tourism Trade Transformation)* Bharti Publications New Delhi Vol.-I March-August-2015, Chapter No -8 44-55.

Books/Book Chapters/Proceedings

Dixit, S.K., Marios, D., Sotiriadis. (2015). Strategic Alliances in Hospitality Industry as an Expansion Strategy: An Indian Perspective'.

In Tourism Businesses and Destinations: A Handbook, Dogan Gursoy, Melville Saayman and Marios D. Sotiriadis (eds). Emerald Group Publishing Limited. Chapter No. 5. 77- 94.

Dixit, S.K. (2015). E - WOM Marketing in Hospitality Industry. Accepted for publication. *In Managing Public Relations and Brand Image through Social Media.*, Anurag Singh, Punita Duhan (eds), IGI Global Publishers, U.S.A.

Chourasia, B., Gautam, P. (2014). Check-in and Check-out of Hospitality Industry. Human Development in Developing Nations . *In Economic Development with Devaluation of Non Economic Values: Problems and Remedies*. A. K. Misra and A. Agarwal (Eds.). Mumkshu Publication of Humanities, Shahjahanpur: Unit-I, 23-29.

Lyngdoh, B.F. (2014). Branding of tourism resources of North-East India: a Competitive Framework, *In Strategic Interventions in Tourism Development*. M. Binota, Bhabananda T, L.J. Shimray and S. Ningthoujam (Eds.). Bharti Publications, Delhi: 165-76.

Kulshreshtha, S.K. (2015). "The Inclusive Growth of Incredible India with Special Reference to Tourism Industry" In *Tourism Inclusive Growth & Sustainable Development*, SP Bansal, Sandeep Kulshreshtha & Prashant Gautam (Eds) Bharati Publications, New Delhi, Chapter No. 50, 509-525 (INDIA).

Kulshreshtha, S.K. (2015). "Swachh Bharat Abhiyan a Mantra for Corporate Social Responsibility of Tourism & Hotel Sector ", *In Tourism & Hospitality-Trends- Concerns and Opportunities*, S.P. Bansal, Mr. Sandeep Walia (Eds) Bharati Publications, New Delhi, Chapter No. 21, 176-188.

Research Projects

New Projects

Sl. No.	Title of Project	PI / Co - PI	Funding Agency	Amount
1.	Study of Service Quality, Satisfaction and the Intent to Return among Tourists Visiting the Leading Hotels of Guwahati (Assam) and Shillong (Meghalaya)	Dr. Saurabh Kumar Dixit	University Grants Commission, New Delhi	Rs. 9,69,600/- (Nine Lakh Sixty Nine Thousand and Six Hundred Only)

Ongoing Projects

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1.	“Impact of Tourism-related Micro and Small Enterprise on Entrepreneur’s Socio-economic Outcomes: A Propensity Score Analysis of Meghalaya”	Dr. Benjamin F. Lyngdoh	Indian Council of Social Science Research, New Delhi	Rs. 400000/- (Rupees four lakh only)

Any Other

Saurabh Kumar Dixit

Participated in the Directors Conclave- 2015 as Resource Person on January 17th -18th, 2015 at Institute of Tourism and Travel Management, Govindpuri, Gwalior.

Punit Gautam

Participated in International Level ICC LOOK EAST BUSINESS EXPO - 2015 on February 27th, 2015 at Hotel Pinewood, Shillong (Meghalaya).

Sharad Kumar Kulshreshtha

Participated in a *Workshop on Value Proposition personality Development and Communication Skill*, organized by ITM Group, Mumbai &

Career & Counseling Cell, NEHU, Shillong, on 11th -12th September -2014.

Participated in the World Tourism Day Programme on the theme of Tourism and Community Development organized by Department on Tourism, Government of Meghalaya on Sept 27th, 2014.

Participated in a *Workshop on “Promoting Entrepreneurship in Meghalaya: Way forward”* organized by State Institute of Rural Development (An Apex Training Institute in Rural Development, Govt. of Meghalaya) Shillong on 8th October, 2014.

Participated in the Directors Conclave- 2015 as Resource Person on January 17th -18th, 2015 at Institute of Tourism and Travel Management, Govindpuri, Gwalior.

**DEPARTMENT OF AGRIBUSINESS MANAGEMENT AND
FOOD TECHNOLOGY
(Tura Campus)**

Head- In-charge : Dr. Sheena Haorongbam
Telephone : 03651-223107
E-mail : abmftnehutura@gmail.com,
sheenahaorongbam@gmail.com

Faculty :

Designation	Name and Qualification	Specialization
Assistant Professor	Sheena Haorongbam M.Sc. & Ph.D (Panjab University)	Plant Biochemistry, Plant Molecular Biology, Biochemical & Nutritional aspect of Plant-Based Foods, Food Chemistry and Analysis, Process and Preservation of Foods, its Health Impacts & Food habits
	Gino A. Sangma MBA (NEHU)	Marketing management and Agribusiness Management
	Sasi Kumar. R M.Sc. (G. B. Pant University of Agriculture & Technology)	Food Processing & Technology- Food Analysis and Quality Control, Fruits and Vegetables Processing Technology, Beverage Technology, Fermentation Technology

Thrust Areas of Research:

Food Processing & Technology, Post-Harvest and Preservation Technology, Food Analysis and Quality Control, Technology Pertaining to the Food Industry, its Health Impacts & Food habits, Indigenous Foods, Fruits and Vegetables Processing Technology, Beverage Technology,

Fermentation Technology, Marketing management, Agribusiness Management, Farm Business Management, Commercial Horticulture.

Brief Statement of Academic Activities

The Department admitted its first batch of nine MBA (AFT) students in August 2013.

The Department offered two open courses namely Agribusiness Management and Food Technology and Management catering to its own students as well as the students of

other Departments. The faculty members are actively engaged in research work, publishing 6 papers in various journals and as edited book chapters.

Students' Profile

Enrollment Capacity: 15

MBA (Agribusiness and Food Technology)

Actual Admission:

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
MBA(AFT)	-	09	-	05	04	07	02	09

Courses Conducted:

Postgraduate : MBA (AFT)

Semester - I

Management Concepts, Managerial Economics, Computer Applications, Business environment, Quantitative Analysis for Managerial Decision, Accounting for Managers, Financial Management, Management of Food and Agribusiness.

Semester - II

Business Communication, Agri-Business Marketing, Human Resource, Management in Agri-Business, Operations Management, Supply Chain and Retail Management, Legal Aspects of Business, Fundamentals of Food Processing and Preservation, Tax Laws.

Semester - III

Research Methods, Entrepreneurship and New Venture Development, Agricultural Credit and Co-operative Management.

Open Courses

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.

Open Courses

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

Practical Classes:

IIIrd Semester and IV Semester for Food Technology and Management Specialization

Educational Tour of Students

Teacher-in-Charge : Mr. Sasi Kumar. R.

Duration of tour : 31st Jan to 14th Feb, 2015

Purpose of Tour : Industrial Exposure

Places/Institutions visited :

University of Agricultural Science, GKVK Campus, at Bangalore, Bakery Training Central, National Dairy Research Institute (NDRI), Karnataka Agro Corn Limited, Central Food Technological Research Institutes (CFTRI), Mysore, College of Dairy and Food Technology under Tamil Nadu Veterinary University, Chennai.

University of Agricultural Science, GKVK Campus, at Bangalore, Bakery Training Central, National Dairy Research Institute (NDRI), Karnataka Agro Corn Limited, Central Food Technological Research Institutes (CFTRI), Mysore, College of Dairy and Food Technology under Tamil Nadu Veterinary University, Centre of Food Biotechnology under Anna University, Department of Food Processing Technology under SRM University, Geete Private limited company(Tea, herbal and spices processing industry)

Seminar/Conference/Symposium/Extension Programme etc.

Attended/ Participated

Sheena Haorongbam

Participated in a *National Symposium on the "Role of Logistics and Supply Chain Management in the Development of North-East India"* organized by Department of Management, NEHU, Tura Campus in collaboration with BDU, West Garo Hills (IBDLP), Government of Meghalaya on 23rd May 2014.

Participated in a ICSSR Sponsored *National Seminar on "Situating Tura Town from West Garo Hills"* from June 5th-7th, 2014, organized by the Department of History and Archaeology, and Department of Garo, NEHU, Tura Campus, Tura, Meghalaya.

Participated in an *International Seminar on "Entrepreneurship in the Fast Changing Society: The Socio- Economic Perspectives"* from June 26th -27th, 2014, at Department of Management, NEHU, Tura Campus. Tura, Meghalaya.

Gino A. Sangma

Participated in a *National Symposium on the "Role of Logistics and Supply Chain Management in the Development of North-East India"* organized by Department of Management, NEHU, Tura Campus in collaboration with BDU, West Garo Hills (IBDLP), Government of Meghalaya on 23rd May 2014.

Participated in an *International Seminar on "Entrepreneurship in the Fast Changing Society: The Socio-Economic Perspectives"* organized by Department of Management, NEHU, Tura Campus on 26th – 27th June 2014.

Participated in a *National Seminar on "Emerging Trends of Financial Services in India"* organized by Department of Management, NEHU in collaboration with NABARD & State Bank of India, Tura Campus on 20th - 21st November 2014.

Participated in a HR – Conclave 'SYNERGOS', "Mapping Skills and Competencies for Future Managers" organized by Department of Management, NEHU, Tura Campus held on 9th May 2015.

Sasikumar, R.

Participated in a *National Conference on "Adaptation and Mitigation Strategies of Climate Change for Sustainable Livelihood"* March 5-7, 2014 at Uttar Banga Krishi Viswavidyalaya, Pundibari, Cooch Behar, West Bengal.

Participated in a *National Seminar on Situating Tura town from West Garo Hills*, June 5th -7th, 2014, at Department of History and Archaeology, North Eastern Hill University, Tura Campus, Tura, Meghalaya

Participated in a *National Seminar on Entrepreneurship in the Fast Changing Society: The Socio- Economic Perspectives*, June 26th -27th, 2014, at Department of Management, NEHU Tura Campus. Tura, Meghalaya.

Participated in a *National Seminar on Engineering Interventions for Global Competitiveness of Indian Dairy Industry*, September 8th -9th 2014, National Dairy Research Institute, Karnal, Haryana.

Participated in a *National Seminar on Dairy sector: The Key player for Nutritional Security in India*, September 19th -20th, 2014, National Dairy Research Institute, Karnal, Haryana.

Participated in a *National Seminar on Emerging Trends of Financial Services in India*, November 20th -21st 2014 at Department of Management, North Eastern Hill University, Tura Campus, Tura, Meghalaya.

Participated in a *National Seminar cum workshop on "Innovative Prospects in Food Processing Integration of Engineering and Biological Sciences"* March 27th – 28th 2015 at Department of Food engineering and technology Tezpur University, Assam.

Participated in a *National Conference on "Prospects and Challenges in Indigenous Foods and Drinks Sector"* April 11th -12th 2015 at College of agriculture, Central Agricultural University, Imphal, Manipur

Publications

Research papers

Published in India

Sangma, G.A. (2014). Problem and Prospects of Tourism in Garo Hills of Meghalaya: An Exploration, *International Journal of Applied Management Research*, No. 2(1): 39-48.

Books/Book Chapters/ Proceedings

Haorongbam, S., Nirmala, C. (2014). Comparative Study of the Cyanogenic Glucosides with Ageing in Edible Shoots of Some Indian Bamboos. In: *Science, Technology and Environment: Perspectives and Trends*, Panjab Academy of Sciences, Punjabi University Patiala. 17-21.

Sasikumar, R. (2014). Recent Innovation in Food Packaging Technology. In: *Dairy and Food Processing Industry (Recent Trends)*, B.K.Mishra (Ed), Biotech Books, New Delhi. No: (2) 12-29.

Ramesh, C.Ray., Aly F.EL, Sheikha., Sasikumar R. (2014). Oriental Fermented Functional (Probiotic) Foods. In: *Microorganisms and Fermentation of Traditional Foods*. Ramesh C. Ray and Didier Montet (Ed), CRC Press, Taylor & Francis, UK 283-311.

Sasikumar, R. (2014). Fermentation Technologies in Food Production. In: *Progress in Biotechnology in for Food Application*, Wing-Fu Lai (Ed). OMICS Group eBooks Foster City. CA 94404, USA. 1-20.

Sasikumar, R. (2015). *Text book on Post harvest Technology of Fruits and Vegetables* Biotech publication, New Delhi.

Other Activities:

Sheena Haorongbam

Attended 105th Orientation Programme organized by the Academic Staff College, Panjab University, Chandigarh, from 10th February 2015 to 9th March 2015.

Gino A. Sangma:

Attended Capacity Building *Workshop on "Critical research Thought Process"* organized by Department of Management, NEHU, Tura Campus in collaboration with sponsorship by ICSSR, New Delhi from 24th November to 7th December.

II

SCHOOL OF EDUCATION

Dean : Prof. Man Mohan Singh
Telephone : 0364-2723590; 0364-2723591 (O)
Email : deaneducation.nehu@gmail.com

The School of Education comprises of four Departments / Centres viz; Department of Adult & Continuing Education, Department of Education (both at Shillong & Tura Campus), Centre for Distance Education and Centre for Science Education. The Department of Education conducts M.A (Education) and Ph.D Programmes both at Shillong & Tura Campuses while M.ED programme is also conducted at Shillong Campus. The Department of Adult & Continuing Education, besides various kinds of training and extension activities offers M.A.

and Ph.D Programmes in Adult & Continuing Education.

The Centre for Distance Education offers various courses through distance mode viz: B.ED (Special Education) P.G. Diploma in Special Education, P.G Diploma in Entrepreneurship, Certificate and General Course in Floriculture, and Foundation Course on Education of Children with Disabilities. The Centre for Science Education mainly concentrates on research & extension activities. It also works for the popularization of science in the North-East India.

DEPARTMENT OF ADULT AND CONTINUING EDUCATION

Head : Dr. B.P. Sahu
Telephone : 0364-2723328 (O); 9436302933 (M); 0364-2726028 (R)
E-Mail : bishnusw@yahoo.com
Faculty :

Designation	Name and Qualification	Specialization
Professor	E. Jyrwa, M.A. M. Phil & Ph.D. (NEHU)	National, Regional and International Perspective of Adult Education, Philosophy of Adult Education, Rural Development, Research Methodology
Associate Professor	B.P. Sahu MSW, Ph.D. (Kurukshetra)	Human Resource Development, PMIR, Group Work Adult Education
	J.Mawthoh M.A. Ph.D. (NEHU)	Environmental Education, Research Methodology, Entrepreneurship and Skill Development, Management of Non-Governmental Organizations
Assistant Professor	W.S.Myllemngap, M.A., M.Phil (NEHU)	Adult and Continuing Education, Policies and Programmes of Adult Education in India, Material Development in Vernacular language for Non-Formal Education Intervention
	N.P.Goel, M.Sc., MPS (IIPS, Munai), Ph.D (NEHU)	Research Methodology, Population Education Adolescence Education
	E.Syngkon, M.A., Ph.D.(NEHU)	Adult Psychology, Women Education Research Methodology
	J.I.Rapthap, MSW (Mumbai)	Guidance and Counseling, Inclusive Education, Disaster Management, Community Organization and Development

School of Education

	N.S.Devi, M.Sc (NEHU)	Rural Development, Extension Education Communication Methods in Adult Education
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Thrust Areas of Research

The thrust areas of the Department are (i) Adult and Continuing Education (ii) Literacy Programmes (iii) Counselling (iv) Open Schooling (v) Mass Media (vi) Women Empowerment (vii) Aged People (viii) Rural Development (ix) Workers in organized and unorganized sector (x) Skill development and Training (xi) Self Help Groups (xii) Special Education (xiii) Tribal Health (xiv) Political Socialization (xv) Environmental Impact Assessment (xvi) Community Health workers (xvii) Child Labour and (xviii) Drug Abuse .

Brief Statement of Academic Activities:

Lifelong Learning and Skill development has emerged as the key component in the field of Adult and Continuing Education. Keeping this in mind, the department has widened its scope to cover multidisciplinary subjects. The

students admitted to this department are drawn from various academic disciplines. The teachers in the department make effort to utilize new techniques of teaching, supplementing lectures with slides presentations, group discussions and exposure trips.

The Department offers Open Courses on Extension Education, Rural Development and Human Resource Development. The department also introduced a core paper on Disaster Management which is a relevant subject in this contemporary world. Besides this, the students are taught to develop literacy materials such as posters and booklets for the neo-literates on various components of Adult education in the local dialect. These materials can be used for the benefit the neo-literates at the grass root level. The department is also involved in Field Outreach and Extension programmes besides Teaching and Research.

Students' Profile:

Enrolment Capacity: M.A: 40 Ph.D: 5

Degree	SC	ST	Gen	Male	Female	Meghalaya	Non-Meghalaya	Total
M.A	-	36	-	10	26	36	-	36
Ph.D	-	4	1	4	1	4	1	5

Degrees Awarded:

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
M.A	-	20	0	8	12	17	3	20
Ph.D	-	-	2	2	-	-	2	2

Students Awarded Ph.D Degree:

Name of the Student	Title of Thesis	Name(s) of Supervisor (s)
Trilochan Dash	Political Socialisation of Neo-Literate and Semi Literate Women of West Khasi Hills District of Meghalaya	Dr.B.P.Sahu
Deepak Pradhan	A Study of Primitive Tribal Women Dropouts from Literacy Campaigns in Bolangir District of Orissa	Dr.B.P.Sahu

Placement of Students:

Two students were placed as SSA Teachers and one student as teacher in a college

Five students were placed as Counselors in various health centres and one is practicing Law

Two Students were placed as Assistance District Project Officer under the Revenue Department (Disaster Management), Government of Meghalaya Students Availing Research Scholarships:

Non-Net Fellowship: 10 Research Scholars

Rajiv Gandhi National Fellowship (RGNF): 3 Research Scholars

ICSSR: 2 Research Scholars

Junior Research Fellowship: 4 Research Scholars

ICCR: 1 Research Scholars

Courses Conducted

M.A.: In Adult and Continuing Education:

Semester –I

ACE (C) 101: Introduction to Adult & Continuing Education, ACE (C) 102: Psychology of Adults, ACE (C) 103: Methods and Communication in Adult Education, ACE

(C) 104: Policies and Programmes of Adult Education in India, ACE (C) 105: Group Work in Adult and Continuing Education.

Semester –II

ACE (C) 201: National and International Perspective of Adult Education, ACE (C) 202: Environmental Education, ACE (C) 203: Research Methodology, ACE (C) 204: Inclusive Education, ACE (O) 205: Extension Education.

Semester –III

ACE (C) 301: Guidance and Counseling, ACE (C) 302: Women Education, ACE (C) 303: Management of Non- Governmental Organizations, ACE (O) 304: Human Resource Development, ACE (O) 305: Rural Development.

Semester –IV

ACE (C) 401: Population and Development, ACE (C) 402: Community Organization and Community Development, ACE (C) 403: Entrepreneurship and Skill Development, ACE(C) 404: Material Development in Vernacular Language for Non-Formal Education Intervention, ACE(C) 405: Disaster Management.

Ph.D Coursework:

ACE (C) 501: Research Methodology, ACE (C) 502: Adult and Continuing Education Practices, ACE (C) 503: Literature Review and Seminar Presentation

Educational Tour of Students

Teacher –in-Charge : Dr.B.P.Sahu

Places/Institutions visited : Jongssha village, Meghalaya

Duration of the Tour : 6 days (28th April 2014 to 3rd May 2014)

Purpose of Tour : Village Study

Teacher –in-Charge : Ms.N.S.Devi

Places/Institutions visited : Indian Council of Agricultural Research (ICAR) Barapani, Meghalaya

Duration of the Tour : 1 day (17th May 2014)

Purpose of Tour : Educational

Teacher –in-Charge : Ms.J.I.Rapthap

Places/Institutions visited : Jyoti Sroat Inclusive School, School and Centre for the Hearing Handicapped Children, Roilang Vocational Training Centre for Special Children, Mary Rice Centre and Dwar Jingkyrmen. Dhankheti and Laitumkhrah, Shillong.

Duration of the Tour : 3 days (13th March 2015, 20th March 2015 and 27th March 2015)

Purpose of Tour : Educational

Seminars / Conferences / Workshop / Symposia / Extension Programmes etc.,

Organized:

B.P. Sahu

Organized a Refresher course in Adult and Continuing Education under the theme

“*Community Education*” in collaboration with the UGC-Academic Staff College, NEHU, Shillong from 27th October 2014 to 16th November 2014.

N.P.Goel

Organized a Refresher course in Adult and Continuing Education under the theme “*Community Education*” as a Co-Course Coordinator, in collaboration with the UGC-Academic Staff College, NEHU, Shillong from 27th October 2014 to 16th November 2014.

J.I.Rapthap

Organized a Refresher course in Disaster Management in collaboration with the UGC-Academic Staff College, NEHU, Shillong from 25th September 2014 to 15th October 2014.

Attended:

E. Jyrwa

Attended the International Seminar on “*Professionalization of Adult Education*”, on the 29th August 2014, organized by the International Institute of Adult and Lifelong Education, New Delhi, Indian International Centre, New Delhi.

Attended the International Peace Conference on, “*Building Nations of Peace: Our Shared Responsibility*”, on 5th September 2014, organized by the Universal Peace Federation of India in collaboration with the Department of Political Science, NEHU, Shillong at ICSSR-NERC Conference Hall, NEHU Campus, Shillong.

Attended the Workshop on Value Proposition “*Personality Development and Communication Skills*” on 11th and 12th September 2014, organized by the Career and Counselling Cell, NEHU, Shillong, and sponsored by the Institute of Technology & Management

Group, Mumbai, at Multi-Use Convention Hall, NEHU, Shillong

B.P. Sahu

Acted as resource person for the National seminar on "Teaching Methodology" and presented a paper on "Innovative teaching methods for better learning" organized by Jaintia Eastern College, Khiliehriat, on 19th May 2014.

Acted as a resource person in the Workshop for college Teachers on Faculty Development and presented a paper on "*Use of ICT in class room*", organized by Nongstoin College, West Khasi Hills District on 19th September 2014

Acted as a resource person on the eve of Workshop for college Teachers on Faculty Development and presented a paper on, "*Formulation and implementation of action based projects for the college teachers*", organized by Nongstoin College, West Khasi Hills District on 20th September 2014.

Acted as a resource person on the eve of the Workshop for college Teachers on Faculty Development and presented a paper on "*Changing role of teachers for professional development*", organized by Nongstoin College, West Khasi Hills District on 20th September 2014.

Chaired a session in the National Seminar on "*Social Work Practice: Scope and Challenges in the present context*" sponsored by UGC and ICSSR, New Delhi, organized by Department of Social Work, Kurukshetra University, Kurukshetra on 14th November 2014.

Presented a paper on "*Environmental Impact Assessment of Coal mining In Jaintia Hills District of Meghalaya*" on the eve of National Seminar on "Social Work Practice: Scope and

Challenges in the present context" sponsored by UGC and ICSSR, New Delhi, organized by Department of Social Work, Kurukshetra University, Kurukshetra on 14th November 2014.

Delivered a lecture as resource person for the Block Level Seminar on Youth Leadership Training cum Community Development Programme on the theme, "*Personality Development & Leadership Skills*" on 22nd November 2014, organized by NYK, Nongstoin at Mairang College, Mairang for development of Youths and NGO's under the Chief Ministers youth development scheme.

Delivered five lectures as a resource person for the two days District Level Seminar on Career Guidance for (Class XII & Degree students) under the Chief Minister's Youth Development Scheme on, "*(a) Motivation for self development, (b) Personality Development through curricular and extra-curricular activities (c) How to be creative? (d) Searching for jobs in Job sites through internet (e) How to write resume*", from 27th November 2014 to 28th November, 2014 at Nongstoin College, Nongstoin, West Khasi Hills District.

Presented a paper with the coauthor on "*Understanding issues around Rural poverty: An indo-Canadian Rural Community Development Perspective*", on the eve of National Seminar on "Comparative Perspectives on Social Work Practices in Canada and India, organized by UGC Center for Canadian studies and M.S.University of Boroda, Vadodara from 13th - 14th March 2015.

N.P. Goel:

Delivered a series of lectures as Resource Person in the, "*Workshop on Capacity Building Programme in Imparting SPSS Skill*", to the

Scholars and faculty members in Social Science Discipline” from 4th - 8th November 2014, organized by the Department of Sociology, Tezpur University, Tezpur.

Publications:

Research Papers:

Sahu, B.P., P.Nongtdu (2014). Coal Mining in Jaintia Hills District of Meghalaya: Work Management and Impact of Mining. *Man and Society, ICSSR, NERC, Shillong*, XI: 96-116

Sahu, B.P., S.Kumar (2014). Problem and Prospects in Implementation Of SJSY In Haryana. *BSSS Journal of Social Work*, 6 (I), 72-85

Books:

Dash, T., Sahu, B.P., (2015) Political Socialisation of Tribals. Lakshi Publishers and Distributors, New Delhi, 1-383

Academic Collaborations:

The Department of Adult and Continuing Education collaborated with: (i) Nehru Yuva Kendra Sangathan: Shillong, (ii) Nehru Yuva Kendra Sangathan: Nongstoin, (iii) UGC-ASC: NEHU, Shillong, (iv) Nongstoin College, (v) Eastern Jaintia College, (vi) Women's College, (vii) Tezpur University, (viii) ICSS (NERC), (ix) Bethany Society, (x) Revenue Department (Disaster Management) under Government of Meghalaya, (xi) Social Welfare Department, Govt. of Meghalaya, (xii) RGNIYD, NSS Regional Centre Guwahati, (xiii) NSS Cell: NEHU, (xiv) Women Cell: NEHU, (xv) Women College, (xvi) Lady Keane College, (xvii) World Vision, (xviii) Seng Kynthei Mawkyrwat.

Honours/Awards/Recognitions

Ms. J.I. Rapthap was given a letter of appreciation by the Zonal Director of Nehru

Yuva Kendra Sangathan, Meghalaya Zone (Shri.R.P, S.Thakur) for delivering a lecture on, “*Need for Counselling the Adolescent in the 21st century*”, for the National Youth Corps Training on the 22nd August 2014.

Other Activities:

E. Jyrwa:

Delivered a lecture as Resource Person on the topic “*Role of ICT in Rural Education*”, for the UGC-Refresher Course in Education, organized by the Department of Education, NEHU, Shillong in association with UGC-ASC, NEHU on the 28th May, 2014

Delivered a lecture as a Resource Person on the topic “*Value of Education vis-à-vis Value Education-Swami Vivekananda's Thought on Education*”, for the UGC-Refresher Course for Teacher Education of DERT and DIET Education on 19th August, 2014 organized by the Department of Education, NEHU, Shillong in association with UGC-ASC, NEHU.

Delivered a lecture as a Resource Person on the topic “*Inculcation of Values: The Crucial Role of Teachers*” for the UGC-Refresher Course for Teacher Education of DERT and DIET Education, on 19th August, 2014, organized by the Department of Education, NEHU, Shillong in association with UGC-ASC, NEHU.

Delivered a lecture as a Resource Person on the topic, “*Value Education*”, for the UGC-Refresher Course for Teacher Education of DERT, on the 27th October, 2014, organized by the Department of Education, NEHU, Shillong in association with UGC-ASC, NEHU.

Delivered a lecture as a Resource Person on the topic, “*Human Values and Teacher Education*”, for the UGC-Refresher Course for Teacher

Education of DERT on the 28th October, 2014 organized by the Department of Education, NEHU, Shillong in association with UGC-ASC, NEHU.

B.P. Sahu:

Delivered a lecture as Resource Person on “*Integration of Multiple Reviews in Research Studies*” on the eve of the UGC-Refresher Course for Teacher Educators of DERT and DIET (from 4th Aug to 24th Aug 2014) organized by Department of Education in collaboration with Academic Staff College, NEHU on 13th August 2014.

Delivered a lecture as Resource Person on “*Review of related Literature*” on the eve of the UGC-Refresher Course for Teacher Educators of DERT and DIET (from 4th Aug to 24th Aug 2014) organized by Department of Education in collaboration with Academic Staff College, NEHU on 14th August 2014.

Delivered a lecture as Resource Person on “Cooper’s Taxonomy of Literature Reviews” on the eve of the UGC-Refresher Course for Teacher Educators of DERT and DIET (from 4th Aug to 24th Aug 2014) organized by Department of Education in collaboration with Academic Staff College, NEHU on 20th August 2014.

Delivered a lecture as a resource person for the Career Guidance programme under Chief Minister Scheme on the theme, “Motivation & Personality Development” on 11th October 2014, organized by J.N.V, Nongstoin.

Delivered a lecture as a resource person for the Refresher course in Education on, “*Recent Trends on Human Resource Development and Approaches to HRD*” on the 18th October 2014, organized by Department of Education, NEHU,

in collaboration with UGC –academic Staff College, NEHU, Shillong

Delivered a lecture as a resource person on the occasion of National Education Day at St.Mary’s College, on “*Education for All: Issues and Challenges*” on 11th November 2014, organized by IGNOU, Shillong Regional Center.

Delivered a lecture as a resource person for the First District Level NSS Meet-2014, on the topic, “*Social Work for Social Development - Roles and Challenges for the Youth*” on 3rd December 2014, organised by Jaintia Eastern College in collaboration with NSS CELL, NEHU, Shillong.

Delivered a lecture as resource person for the International Social Work Day on, “*Scope of Social Work Practice in North East India*” on 17th March 2015 in the Department of Social Work, University of Science and Technology, Meghalaya.

Delivered a lecture as resource person for the Refresher course in English on, “*Disaster Management*” on 26th March 2015, organised by Department of English in collaboration with UGC –academic Staff College, NEHU, Shillong

N.P. Goel:

Delivered three lectures as Resource Person for the “*Short Term Course on research Methodology with Special reference to SPSS*” for College/University Teachers and Research Scholars from 19th May 2014 to 24th May 2014, organized by the UGC-ASC, NEHU, Shillong.

Delivered two lectures as Resource Person for the “*Refresher Course in Education on SPSS*” for College and University Teachers on 13th

June 2014, organized by the Department of Education, NEHU, Shillong in association with UGC-ASC, NEHU.

Delivered a set of five lectures as Resource Person on, "*Research Methodology*" for DIET and DERT faculty from 23rd June 2014 to 27th June 2014, organized by the Directorate of Educational Research and Training, Government of Meghalaya, Shillong.

Delivered a set of six lectures as Resource Person for the "*Refresher Course for Teacher Educators*" for DIET and DERT faculty from 4th August 2014 to 24th August 2014, organized by the Department of Education, NEHU, Shillong in association with UGC-ASC, NEHU.

Delivered a set of two lectures as Resource Person for the Refresher Course in Education on the theme, "*Use of SPSS*" from 8th September 2014 to 19th September, 2014, organized by the Department of Education, NEHU, Shillong in association with UGC-ASC, NEHU.

Delivered a set of 4 lectures as Resource Person for the, "*Capacity Building Programme in Research*", from 12th February, 2015 to 19th February 2015, organized by ICSSR-NERC, Shillong.

J.I. Rapthap:

Delivered a lecture as Resource Person for the training programme for youth volunteers on the theme, "*Need for Counselling the adolescent in the 21st century*" on the 22nd August 2014, at Nehru Yuva Kendra Sangathan, Shillong for the NYC Volunteers organized by the Zonal Director, Nehru Yuva Kendra Sangathan, Meghalaya Zone.

Delivered a lecture as Resource Person for the Special Winter School on the Theme

"Linking Education to Society", for College and University Teachers on the theme, "*Role of Community Disaster Management Teams for Disaster events*", on the 14th November 2014, organized by the UGC-ASC, NEHU, Shillong.

Delivered a lecture as Resource Person for UGC-ASC 31st Orientation Programme (General) for College and University Teachers on the theme, "*Role of Electronic Media in Disaster Management*", on the 9th February 2015, organized by the UGC-ASC, NEHU, Shillong.

Delivered a lecture as Resource Person for the Refresher Course for Academic Administrators (Assistant Registrars, Section Officers, Accountants, etc.) of the University on the theme, "*Impact of Disaster with special reference to North East India: Psychological Intervention Measures*" on the 11th February 2015, organized by the UGC-ASC, NEHU, Shillong.

Delivered a lecture as Resource Person for the UGC-ASC 30th Orientation Programme (General) for College and University Teachers on the theme, "*Role of Community in Disaster Management*", on the 12th February 2015, organized by the UGC-ASC, NEHU, Shillong.

Delivered a lecture as Resource Person for the UGC-Sponsored Refresher Course on, "Text and hypertext: Genres, Meaning and Interpretation", on the theme, "*Concept of Disaster – Psychological Impact*", on the 24th March, 2015, organized by the English Department, NEHU, Shillong in association with UGC-ASC, NEHU.

Working on a minor research project titled "Stages of Self Help Group (SHGs) Development in Ri-Bhoi District, Meghalaya".

NEHU Annual Report 2014-15

Contributed to the upliftment and extension of the School and Centre for the Hearing Handicapped Children (a Unit of Society for the Welfare of the Disabled) along with the second and fourth semester students. Also attended and contributed to the Mini Fete cum Food Fest organized by the School on the 8th May 2015 to raise funds.

E. Syngkon:

Appointed as Member of the Managing Committee of Glakyn Academy Higher Secondary School under the District School Education Officer, East Khasi Hills District, Shillong, Government of Meghalaya.

DEPARTMENT OF EDUCATION

Head : Prof. C. Nongbri
Telephone : 0364-2723340; 0364-2723346 (O); 9436102123 (M)
Email ID : hodedu@nehu.ac.in
Faculty :

Designation	Name and Qualification	Specialization
Professor	P. K. Gupta M.Sc Chem (Agra); M.Ed (C.I.E,Delhi); M.Phil; Ph.D. (Merrut)	Experimental Education, Research Methods and Statistics, Science and Mathematics Teaching, Economics of Education and Philosophy of Education.
	S. M. Sungoh M.A; M.Phil; Ph.D.(NEHU)	Teacher Education, Teaching at Tertiary Level, Measurement &Evaluation, Educational Psychology, Guidance & Counseling, Research Methodology.
	C. Nongbri M.A (Pol.Sc); M.Ed; Ph.D. (NEHU)	Educational Management and Change, Curriculum Development and Instruction, System of Teacher Education in India and Educational System in India
Associate Professor	Ibadani Syiem MA; B.Ed, Ph.D (NEHU),	Psychology of Education, Early Childhood Education, Guidance and Counseling, Environmental Education, Mental Health Education.
	B. Bazeley Kharrymbai M.A, B.Ed & Ph.D (NEHU), Diploma in Management PGDESD	Educational Technology, Philosophy of Education, Research Methods, Curriculum Development, Educational Testing & Evaluation, Higher Education, Economics of Education.

Assistant Professor	Yodida Bhutia MA Eng (Madurai Kamraj) M. Ed, (Mangalore), MA (Edu), PGDHE, Ph.D (NEHU)	Mental Health Education, Educational Technology, Educational Psychology, Educational Testing and Evaluation and Research Methodology in Education
	Rihunlang Rymbai M.Sc.(Chy), M.Ed (NEHU)	Teacher Education, Science Education, Methods of Teaching, Environmental Education.
	Ashok Kumar M.A(Psy);M.Ed;MPhil,Ph.D, M.Sc (Anthro),M.A.Eng (B.R.A.O.U.) ,M.Sc. Zoology (Nagarjuna)	Educational Psychology, Sociology of Education, Educational Testing.
	Vandana: M.A.English,(Purvanchal.), M. Ed, Ph.D (BHU)	Research Method in Education, Sociology of Education, Psychology of Education, Teaching Pedagogy: Languages (English, Hindi).
	Euodia B Myrthong M.A.Edn, (NEHU)	Educational Psychology, Guidance & Counselling, Educational Research.
	Naraginti Amareshwaran M.A. (Philosophy),M.Ed. Ph.D (Sri Venkateswara)	Value Education, Educational Philosophy, Educational Technology, ICT in Education.

Thrust Areas of Research:

- (i) System of Education in the North East
- (ii) Correlates of Achievement (iii) Test Construction and Standardization (iv) Mental Health (v) Teacher Education (vi) Higher Education (vii) Educational Psychology,

Brief Statement of Academic Activities

The Department of Education has been offering courses for M.A, M.Ed and Ph.D Programmes.

The Department admitted 48 Students in the M.A. Programme and 23 in the M.Ed Programme during the year 2014.

Three students were awarded Junior Research Fellowship (JRF) and twelve qualified UGC NET (Lectureship) during the period under report. Eight students were awarded their Ph.D Degree in 2014. Four research scholars received UGC Rajiv Gandhi Fellowship and seven research scholars received the Indian

School of Education

Council of Social Science Research fellowship, NER, New Delhi.

All the Faculty Members of the Department have actively participated in various activities, like attending Seminars, Conferences and Workshops. They have also conducted research in various areas and have published research paper and articles in journals and books.

The Department organized (i) UGC-ASC sponsored Refresher Course for College and University teachers on the theme ICT in Education in the month of May, 2014. (ii) National Seminars on Issues of Mental Health Education held on 26th & 27th February 2015. (iii) International Conference on “Quality of

Higher Education in Indian and Global Context” on March 18-19, 2015 under the sponsorship of NEHU, NEC and ICSSR. (iv) Science, Technology, Engineering & Mathematics (STEM) Programme – Teachers Try Science Workshop (on-line) in collaboration with Learning Links Foundation, New Delhi on 10th November 2014.

The Department of Education being the Monitoring Institution for SSA and Rashtriya Madhyamik Shiksha Abhiyan is engaged in monitoring SSA Project and signed the MOU with the Ministry of Human Resource Development (MHRD) New Delhi for the whole State of Meghalaya since 2003 till date.

Students' Profile

Enrolment Capacity: MA: 48, M.Ed: 23, PhD: 13

Actual Admissions

Course	OBC	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
MA	-	-	47	1	3	45	39	9	48
M.Ed	-	-	22	1	4	19	18	5	23
Ph.D	1	-	9	3	4	9	6	7	13

Degrees Awarded

Course	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
MA	-	48	-	3	45	30	18	48
M.Ed	-	21	1	4	18	17	5	22
Ph.D	-	3	5	2	6	2	6	8

Students Awarded PhD Degree

Name of the student	Topic of Thesis	Name (s) of Supervisor(s)
Ms.Khangembam Malemnganbi Chanu	“A Study of Women’s Higher Education in the Valley Areas of Manipur.”	Prof. A. Henia
Ms. Nancie M. Sangma	“A Study of Educational and Occupational Aspirations of Secondary School Students in Relation to Socio-Economic Status in Garo Hills.”	Dr. B.B. Rymbai
Ms. Dona Rai	“Attitude Towards Mathematics and Study Habits in Relation to the Achievement in Mathematics of Class X Students in East and South Sikkim.”	Prof. P.K. Gupta
Ms. Vanlalngaii Paite	“Emotional Intelligence and Teacher Effectiveness among High School Teachers in Lunglei District of Mizoram”	Dr. Ibadani Syiem
Ms. Shewali Bora	“A Study of Higher Education in Upper Assam”	Dr.B.B Kharbirymbai
Ms. Rionedy Syiem Sutnga	“Diagnosis of Under-Achievement in English at the Secondary School Level in Shillong.	Prof. P.K. Gupta
Mr. Md. Shahidul Islam Jadid	“A Study of Pre-School Education in Barpeta and Bongaigaon Districts of Assam”	Dr. B.B.Kharbirymbai
Mr. Daniel Owiti Odidi	“Sexual Abuse and Violence Against the Girls Child in Secondary Schools of Nairobi Country, Republic of Kenya”	Prof. S.M. Sungoh

School of Education

Courses Conducted:

MA (Education) Courses

Semester- I

Philosophy of Education, Psychology of Education, Educational Management and Change, Research Methodology in Education (I&II),

Semester –II

Curriculum Development and Instruction, Sociology of Education, Educational Testing & Evaluation, Environmental Education and Mental Health Education.

Semester- III

Educational Technology, Comparative Education, Early Childhood Education, Teacher Education, Special Education.

Semester –IV

Laboratory Practical, Higher Education in India, Guidance and Counseling, Methods of Teaching at Tertiary Level, Economics of Education.

M.Ed Courses

Semester- I

Foundations of Education; Educational Psychology; Research Methods- (I &II) and System of Teacher Education in India.

Semester- II

Theory and Practice of Teaching; Educational Testing; Dissertation, Educational Planning and Finance; Mental Health Education.

Ph.D Courses

Research Methodology, Data Analysis & Computer Applications and Review of Related Literature.

Study Tours/Field Trips of Students:-

Name(s) of the Teacher(s) in-charge : Ms. Euodia B. Myrthong & Dr. N. Amareswaran

Places/Institutions visited : Puri & Kolkata

Duration of the tour/trip : 12 (Twelve) days

Purpose of visit : The education tour covered two principal cities, i.e. , Puri and Kolkatta. The tour party halted for 4 and 5 days in these cities respectively and visited major Educational Institutions. This enabled the students to come in contact with research scholars, students and teachers in the field of Education of other institutions so as to have an opportunity to interchange their views. Students also carried out library work.

Seminars/Conférences/Symposium/Extension programmes, etc.

Organized

I.Syiem

Cordinator for the Refresher Course in Education for DERT/DIETs & CTEs on the theme- 'T heory, Practice and Research in Teacher Education' organized by Department of Education. NEHU Shillong and Government of Meghalaya from 4th to 24th August, 2014 at Academic Staff College, NEHU, Shillong

Organized Environment day programme in the Department of Education, NEHU Shillong on the 5th of June, 2014.

B. B. Kharbirymbai

Co-ordinator for the UGC-ASC Sponsored Refresher Course in Education for University and College teachers on the Theme: "ICT in Education" from the 23rd April – 14th May, 2014 organized by the UGC-Academic Staff College NEHU, Shillong.

Co-ordinator for the Refresher Course in Education for Teacher Educators on the Theme “Technology of Teaching” organized by Department of Education, NEHU Shillong and Government of Meghalaya from the 13th October to 1st November, 2014.

Organized a workshop on Science, Technology, Engineering, Mathematics (STEM) a Promotional Programme for teacher Capacity Building and using Online Teachers Try Science Program hosted by the Department of Education, NEHU, Shillong in collaboration with Learning Links Foundation, New Delhi, held on the 10th and 11th of November, 2014 at NEHU, Shillong, Meghalaya.

Organized a study programme on educational technology for the M.A 3rd Semester students of the department to NERIE-NCERT in collaboration with NCERT-New Delhi and NESAC, Umiam on the 17th of November, 2014.

Organizing Secretary for the International Conference titled “Quality of Higher Education in Indian and Global Context” organized by the Department of Education, NEHU Shillong in collaboration with NEC, ICSSR, NEHU held at the Old Guest House NEHU Shillong from the 18th -19th of March, 2015.

Y. Bhutia

Organised Research Methodology Course in Social Sciences from 8th- 19th September 2014, funded by ICSSR, New Delhi at NEC-ICSSR, Shillong.

Organised National Seminar on Mental Health Education on 27th and 28th February 2015 at North Eastern Hill University, Shillong.

Attended:

P.K. Gupta

Delivered an Invited lecture titled “Quality of Higher Education with a Special Reference to the North East on 20th June 2014 in an Orientation Programme on Planning and Management of Educational Institutions for College Principals of NE Region organized by National University of Educational Planning & Administration (NUEPA) New Delhi in Collaboration with NEHU at Shillong during June 15th -20th June, 2014.

Presented two papers titled (i) Teaching & Testing by Bloom’s Taxonomy of Educational Objectives and (ii) Setting of Objective Types of Questions & their Evaluation in the workshop on the theme “Evaluation & Paper Setting” organized by Examination Department NEHU, Shillong two times from 7-9th August 2014 and 17th – 19th September 2014.

Delivered Key Note Address on the topic “Role of Teacher Education” at National Seminar on Teacher Education organized by SCERT, Guwahati on 30th August 2014.

Delivered Key Note Address in the Science, Technology, Engineering & Mathematics (STEM) Programme – Teachers Try Science Workshop (on-line) organized jointly by Learning Links Foundation, New Delhi and Department of Education, NEHU, Shillong on 10th November 2014.

Delivered Key Note Address in the Workshop on “Evaluation & Paper Setting” organized by Examination Department NEHU, Shillong on 4th December, 2014 and also presented the Brief Report of the Workshop on 5th December, 2014.

Presented the report as a group leader for the sub-theme titled “Re-Orienting Priorities

through the Philosophical lense on 14th January 2015 in a Workshop on “Teaching Learning Centres in Higher Education” organized by National University of Educational Planning & Administration (NUEPA) New Delhi during 12-14th January 2015.

Delivered two Invited lectures titled (i) Logical and (ii) Scientific Method of Research Inquiry on 17th February 2015 in a Workshop on Capacity Building Programme for Faculty in Social Science organized by ICSSR-NERC, Shillong

Delivered Key Note Address in a National Seminar on “Issues of Mental Health” organized by Department of Education NEHU, Shillong on 26th February 2015 and Chaired the Valedictory Session on 27th February, 2015.

Attended International Conference on the “Quality of Higher Education in Indian and Global Context” organized by Department of Education, NEHU, Shillong during 18-19 March 2015 and presented a joint paper titled “ Literacy and Economic Development: A Study of Kenya” Also chaired one Academic Sessions on 18th March, 2015 and Valedictory Sessions on 19th March 2015.

S.M. Sungoh

Attended the Workshops on “Evaluation & Paper Setting” organized by Examination Department NEHU, Shillong from 7th -9th August 2014, 17th – 19th September 2014.

Delivered Key note Address on a Workshop organized by ICSSR (NERC) on “Research Methodology in Social Science” on 5th November, 2014 in ICSSR, NEHU Campus, Shillong.

Attended the International Conference on Sub-Regional Co-operation for the Development of

the Peripheral Areas at ICSSR, NEHU, Shillong on 27th -28th November, 2014 Sponsored by ICSSR, New Delhi, Ministry of Home Affairs, Govt. of India.

Presented a paper titled ‘Setting of Short Answer Types of Question and their Evaluation on 4th – 5th December, 2014.

Acted as a Chairperson at the National Seminar on Issue of Mental Health at NEHU on 26th February, 2015 organized by the Department of Education, NEHU, Shillong and sponsored by ICSSR, NERC and ICSSR, New Delhi.

Acted as a Chairperson at the International Seminar on Issue in Higher Education at NEHU on 18th March, 2015 organized by the Department of Education, NEHU, Shillong and sponsored by ICSSR, NERC and ICSSR, New Delhi.

Acted as Chairperson at the National Seminar on youth and Skill Development in North-East India NEHU on 26th March, 2015, organized by the ICSSR-NERC and Centre for North-East: V.V. Giri National Labour Institute, Noida.

Presented a paper on Life Skills of Adolescence in a National Seminar on Youth and Skill Development in North-East India NEHU on 26th March, 2015, organised by the ICSSR-NERC Centre for North-East: V.V. Giri National Labour Institute, Noida.

C. Nongbri

Attended an Orientation Programme on Planning and Management of Educational Institutions for College Principals of NE Region organized by National University of Educational Planning & Administration (NUEPA) New Delhi in Collaboration with NEHU, Shillong June 15th -20th June, 2014.

Attended the Science, Technology, and Engineering & Mathematics (STEM) Programme – Teachers Try Science Workshop (on-line) organized jointly by Learning Links Foundation, New Delhi and Department of Education, NEHU, Shillong on 10th November 2014.

Attended a Work Shop at the Department of Higher Education, NUEPA-New Delhi on the theme-”Privatization of Higher Education” held from the 17th -21st of December,2014.

Attended the National Seminar on “Issues of Mental Health” organized by Department of Education NEHU, Shillong on 26th February 2015 and presented a paper on “Stress amongst Teachers and their management”.

Chaired an Academic Sessions on “Quality Management in Higher Education” on 18th March, 2015 and an Academic Sessions on “Relevance in Higher Education” on the 19th of March,2015 at the International Conference on the theme “Quality of Higher Education in Indian and Global context” organized by the Department of Education, NEHU Shillong in collaboration with NEC,ICSSR,NEHU Shillong from the 18th-19th of March, 2015.

I. Syiem

Presented a paper titled “A study of Reaction to Frustration and Emotional Intelligence of Secondary School Students of Shillong” at the *National Seminar on Issues of Mental Health* held on the 27th-28th February, 2015 organized by the Department of Education NEHU,Shillong in collaboration with ICSSR-New Delhi.

Presented a paper titled “ A Study on Achievement Motivation and Academic Achievement of College Students in Shillong” at the International Conference on Quality of

Higher Education in Indian and Global context held on the 18th-19th March,2015 organized by the Department of Education, NEHU Shillong in collaboration with NEC,ICSSR,NEHU Shillong.

Brinda Bazeley Kharbirymbai

Attended a panel discussion on “Waste Management and civic sense” on account of celebrating world Environment day on the 5th of June, 2014 organized by the Department of Sociology NEHU,Shillong.

Attended a workshop on Ecology and Progress in North East India-Anxiety, hope and belonging in literacy consciousness organized by the Department of Cultural and Creative Studies, NEHU Shillong and Maulana Azad Institute of Asian Studies held from the 9th -10th of September,2014.

Attended the workshop organized by Assessment Survey Evaluation Research (ASER) in collaboration with Department of Education, NEHU, Shillong on 29th & 30th October, 2014.

Presented a paper titled “Youth and emotional problems: concerns and issues of today” at the Annual INSPA International Conference on the theme-School Psychology: Enhancing psychological competencies among school students for overall development, organized by the Department of Psychology,Gauhati University in collaboration with Indian School of Psychology Associations held from the 21st -23rd November,2014.

Attended a Work Shop at the Department of Higher Education, NUEPA-New Delhi on the theme-”Privatization of Higher Education” held from the 17th -21st of December, 2014.

Presented a paper titled “A study of Emotional Maturity of the secondary students of West

School of Education

Garó Hills” at the National Seminar held on the 27th-28th February, 2015 organized by the Department of Education NEHU, Shillong in collaboration with ICSSR-New Delhi.

Presented a paper titled “Study on Social Maturity in relation to Academic Performance of the College Students in West Garó Hills”, at the International Conference on Quality of Higher Education in Indian and Global context held on the 18th-19th of March, 2015 organized by the Department of Education, NEHU Shillong in collaboration with NEC, ICSSR, NEHU Shillong.

Chaired a Session on the 18th of March, 2015 at the International Conference on the Theme- “Quality of Higher Education in Indian and Global context” organized by the Department of Education, NEHU Shillong in collaboration with NEC, ICSSR, NEHU Shillong from the 18th-19th of March, 2015.

Presented a paper titled “RUSA in Higher Education” at the International Conference on Quality of Higher Education in Indian and Global context on the 19th of March, 2015 organized by the Department of Education, NEHU Shillong in collaboration with NEC, ICSSR, NEHU Shillong.

Attended the National Seminar on “Youth and Skill Development in North East India held from the 26th -27th of March, 2015 at ICSSR-NERC NEHU campus, organized by ICSSR-NERC and Center for North East, V.V. Giri National Labour Institute Noida.

Yodida Bhutia

Attended Refresher Course in Global Studies at UGC- ASC at JNU, New Delhi from 07.04.2014 to 02.05.2014.

Presented a joint paper on Depression among Adolescents of Jaintia Hills. Department of

Psychology, Gauhati University, from 21st to 23rd Nov’ 2014. Co-author :B. Sungoh.

Presented a joint paper on Alcohol and Drug attitude in relation to Values of Post Graduate Students. Department of Education, NEHU, 18th -19th March 2015. Co-author: E Myrthong

Rihunlang Rymbai

Participated in the Science, Technology, Engineering, Mathematics (STEM) Promotional Programme through teacher Capacity Building and using Online Forum of Teacher Try Science Programme organized by Department of Education, NEHU, Shillong in collaboration with the Learning Links Foundation, New Delhi on the 10th and 11th November 2014 at Department of Education, NEHU, Shillong.

Attended a Capacity Building Programme for Faculty in Social Sciences organized by ICSSR-NERC, Shillong from 9th - 21th February, 2015.

Presented a paper titled “Positive Psychology: A New Approach to Promote Mental Health” in a National Seminar on the theme “Issues on Mental Health Education” organized by Department of Education, North Eastern Hill University held on the 18th and 19th February 2015.

Presented a paper titled “Teacher Quality: The Need of the Hour” in an International Seminar on a theme “Quality in Higher Education in Indian and Global Context” organized by Department of Education, North Eastern Hill University in collaboration with NEC, Shillong and ICSSR-NERC, Shillong held on the 18th and 19th March, 2015.

Ashok Kumar

Presented a paper entitled “Attitude on Life Skills Education among Higher Secondary

Teachers of Shillong Town” in 6th International Conference on Life Skills Education organised by Indian Association of Life Skills Education and Don Bosco Institute, during 12th - 14th February, 2015, at Guwahati.

Presented a paper entitled “Social Exclusion and Higher Education among Marginalized Sections in India “ in International Conference on Quality of Higher Education in Indian and Global Context organised by Dept. of Education, North Eastern Hill University, during 18th - 19th March 2015, at Shillong.

Vandana

Presented a paper titled “Role of Higher Education in Women Empowerment” in International Seminar on Quality of Higher Education in Indian and Global Context organized by Department of Education NEHU, Shillong on 18.03.15 to 19.03.15.

Euodia Bahun Myrthong

Attended the National Seminar on the theme: “Issues on Mental Health Education”. Organized by Department of Education, North Eastern Hill University, Shillong held on the 18th - 19th February 2015 and presented a paper on “Academic Pressure and Its impact on Mental Health of Secondary School Students in East Khasi Hills of Meghalaya”.

Attended the International Seminar on Quality of Higher Education in Indian and Global Context organized by Department of Education, NEHU, Shillong during 18th -19th March, 2015 and presented a paper on “Alcohol and Drug Attitude in relation to Values of PG students.

Amareswaran

Presented a paper on Academic Adjustment of Class IX Students in East Khasi Hills District

of Meghalaya in the National Seminar on Improving Learning Outcomes at School Level: Issues in Policy & Implementation organized by NERIE in Collaboration NEC, Shillong during 15th -16th October 2014.

Presented a paper on Mental Health in Mahabharata – Need to Know for Peaceful Life in the National Seminar on Issues of Mental health organized by the Dept. of Education, NEHU, Shillong during 26th – 27th February 2015.

Presented a paper on Teacher Education in Nagaland in the International Conference on Quality of Higher Education in India & Global Context organized by the Dept. of Education, NEHU, Shillong during 18th – 19th March 2015.

Presented a paper on Status of Higher Education in Nagaland in the International Conference on Quality of Higher Education in India & Global Context organized by the Dept. of Education, NEHU, Shillong during 18th – 19th March 2015.

Publication:

Research Papers

Gupta, P.K; Rai, Dona. (2014), Attitude of Class X Students towards Mathematics : A Study of Sikkim State. Education: North East – *Journal of the North East India Education Society*, 18(1), June 2014, 1-18.

Gupta P.K., Dkhar, M. (2014), Intelligence, Adjustment Patterns and Study Habits of High, Average and Low Achievers of Class X Students in Ri-Bhoi District of Meghalaya. *Education: North-East – Referred Journal of the North-East India Education Society*, 18(1), June 2014, 19-32.

Sungoh, S.M. (2014). General Intelligence (G Factor) of College Students of Shillong,

- Meghalaya. *Education : North East, Referred Journal of the North-East India Education Society*, 18 (2) Dec. 2014, 59-64
- Thabor, R., and Nongbri, C.,(2014) School Dropout at the Elementary Level in Meghalaya: An Analysis. *Education: North East- Referred journal of the North East India Education Society (NEIES)*, 18(1) June 2014, 68-77.
- Wallang, C., Nongbri, C. (2014): Empowerment through Education: A Status of Khasi Women in the Matrilineal Society of Meghalaya. *Education: North East - Referred Journal of the North East India Education Society (NEIES)*, 18(2) December 2014, 82-92.
- Nongbri, C. (2013-14): A Book Review of Primary Education: The Journey Towards Universalisation. *Education: North East- Referred journal of the North East India Education Society (NEIES)*, 18,(2) December 2014, 103-106
- Syiem I., Nongrum, L. (2014) Social Competence of Secondary School Students in Shillong Town. in an international *Journal of Interdisciplinary and Multidisciplinary Studies-A peer reviewed journal*, 2014, ISSN No.2348-0443,1(6), 268-271.
- Kharbiryumbai , B.B. (2014) Educating Rural women for Entrepreneurship. *International Journal of Education and Humanities: A peer reviewed journal*, June 2014, ISSN No.2320-1762 3(1), 76-79.
- Kharbiryumbai, B.B. (2015). Variation of social customs in the tribes of Meghalaya in a journal titled- *International Journal of Educational Research and Administration (IJERA)*. A peer reviewed Journal. ISSN No: 2229-7162 13(4), 1-5.
- Kharbiryumbai, B.B. (2014) Yoga Education in Education and Development (A peer reviewed journal): *An International Journal of Education and Humanities APH Publishing Corporation*.3(1), ISSN 2320-3684 Jan- Dec -2014, 371-374.
- Kharbiryumbai, B.B. (2014) Communication Skill for personality Development for Library Profession in Education and Development (A peer reviewed journal): *An International Journal of Education and Humanities APH Publishing Corporation* 3(1) ISSN 2320-3684 Jan- Dec -2014, 375-381.
- Kharbiryumbai, B.B. (2014) Communication Skills for Personality Development in Education –North East (*Referred Journal of North East India Education Society*) 18(.2) December-2014, ISSN-0973-4902,7-14.
- Kharbiryumbai, B.B. (2014) An Evaluative study on the implementation of SSA in Bhawanipur Education Block of Barpeta District of Assam, India in online *Interdisciplinary Research journal*.ISSN-2249-9598, 4(6) ,Nov-Dec 2014, 1-5.
- Bhutia, Y. (2014). Attitude towards Sex Education. *EDUTRACKS*, 13 (11): 43-46.
- Bhutia, Y. (2014). *Are Class X students of Sikkim having Academic Anxiety*. *Education Today*, V (1): 44-49.
- Bhutia, Y. (2014). Time Management Skill of Post Graduate Students. *International Journal of Research and Development*, 2(2): 50-53
- Rymbai, R. (2014). Twenty First Century Skill in Teaching: The Need of the Present Day Teachers. *Education: North East-Referred Journal of the North East India Education Society*, 18(2), 40-46.
- Amarewaran Naraginti & Nongbri C, (2015) Need of Examination and Evaluation Reforms

in Teacher Education at Secondary Level. In the Proceedings of 21st Annual Conference-cum-Seminar of the North East India Education Society (NEIES) on the Theme Current Trends and Issues in Education and Research.

Books/Book Chapters/Proceedings

Gupta, P.K. (2014). Transforming Teacher Education in India. In S.M. Sungoh & I.Syiem (Eds): *Transforming Teacher Education in the North Eastern Region of India..* Guwahati : Chandra Prakash Publication..ISBN-978-93-244-0389-6, VI-XIV.

Sungoh, S.M., Syiem, I. (2014). *Transforming Teacher Education in the North Eastern Region of India.*(Eds) , Guwahati: Chandra Prakash Publication , ISBN No. 978-93-244-03896.

Sungoh, S.M. (2015). *Women's Education in India.* In E. Kharkongor & I.S. Warjri, (Eds.). *Women's Wide Canvas – Issues and Challenges.* Guwahati : EBH Publishers

Nongbri, C., (2015) Autonomy of B. Ed Colleges in Meghalaya: An Analysis. In S.M. Sungoh & I. Syiem(Eds). *.Transforming Teacher Education in the North Eastern Region of India.* Guwahati: Chandra Prakash Publication , ISBN No. 978-93-244-03896 ,47-57.

Nongbri, C.(2014) Higher and Technical Education in Meghalaya: An Overview In Dulomoni Goswami (Eds). *Education in North East India.* ISBN No. 978-81-286307-85-4, 101-119.

Kharbiryumbai, B.B. (2014) Development and Quality Requirements in Teacher Education System, In S.M. Sungoh & I. Syiem (Eds). *Transforming Teacher education in North Eastern Region of India.* Guwahati : Chandra

Prakash Publication..ISBN-978-93-244-0389-6, 52-58.

Kharbiryumbai, B.B. (2015) Women Empowerment-Indian Perspective, In E. Kharkhongor & I.S.Warjri (Eds).*Women's Wide Canvas- Issues and Challenges* EBH Publishers(India) Panbazar, Guwahati-781001, 51 ISBN-978-93-83252-45-9 ,42-51.

Kharbiryumbai, B.B (2015) Students Perception Regarding Curriculum of Colleges with Special Reference to Upper Assam. In R.Gohain & R. Phukon(Eds). *Higher Education in India-Post Independence Era.* EBH Publishers (India) Panbazar, Guwahati-781001 ISBN-978-93-83252-43-5,171-178.

Kharbiryumbai, B.B. (2014) Communication Skill for Personality Development for Library Profession. In S.Babu (Ed). *Education in the New Millennium.* APH Publishing Corporation, Darya Ganj, New Delhi- 110002.. ISBN-978-93-313-2557-0, 21-30

Kharbiryumbai, B.B. (2015) Pathways for women empowerment in India. In M.K.Shrivastava (Ed). *Context of Women Empowerment in North East India: An Interdisciplinary Standpoint* Lakshi Publishers, New Delhi- 110002. ISBN-978-93-82120-68-1, 190-195

Bhutia, Y. (2014). *Status of Education in Sikkim: bird's eye view.* In Goswami, D. (Ed). *Education in North East India.* Guwahati: DVS Publishers. 162-169.

Rymbai, R. (2014). Continuing Transformation for Quality Teacher Education. In S.M. Sungoh & I. Syiem. (Eds.) *.Transforming Teacher Education in the North Eastern Region of India.* Guwahati : Chandra Prakash Publication..ISBN-978-93-244-0389-6. 59-76.

Ashok Kumar Erigala (2014). *Constructivism in Teacher Education-Towards Enhancing the*

School of Education

Quality. In S.M. Sungoh & I. Syiem (Eds.) *Transforming Teacher Education in the North Eastern Region of India*. Guwahati : Chandra Prakash Publication..ISBN-978-93-244-0389-6, 209-217.

Vandana, Kushwaha, M. (2014).Education of Muslim girls: Problems and Perspectives. In A. Chaturvedi& R. Kumari (Eds.). *Emerging Dimensions of Higher Education Through Open and Distance Learning (ISBN 978-9382462163)*. Lucknow: Rapid Book Service, 58-64.

Vandana (2014). Development and Challenges in Teacher Education of Meghalaya. In S.M. Sungoh & I. Syiem (Eds.) *Transforming Teacher Education in the North Eastern Region of India..* Guwahati; Chandra Prakash, ISBN: 978-93-244-0389-6, 176-182.

Myrthong, E.B. (2014). A Study on Emotional Maturity of Student Teachers. In S.M. Sungoh & I. Syiem (Eds). *Transforming Teacher Education in North Eastern Region of India.,* ISBN: 978-93-244-0389-6, 303-315.

Amareswaran, N. (2014). Need of Physical Education in Schools- A Philosophical Perspective. In A .Sukumar, N .Pradhan, and F.G. Dkhar (Eds) *New Perspective of Health and Physical Education in School*. NERIE, 93-102.

Amareswaran, N. (2014). Need of IASEs in North-East India for Quality Teacher Education. In S.M. Sungoh& I. Syiem (Eds).*Transforming Teacher Education in the North Eastern Region of India*. Guwahati: Chandra Prakash Publication, 226-235.

Funds Received from Agencies other than NEHU/UGC

Received Rs. 6,30 lakhs (Rupees Six Lakhs Thirty Thousand) only from MHRD, New Delhi for monitoring work of SSA for the State of Meghalaya.

Received 3, 60 lakhs (Rupees three lakhs sixty thousand) only from MHRD, New Delhi for monitoring work of Rashtriya Madhyamik Shiksha Abhiyan.

Research projects

Ongoing

Sl.No	Title of project	PI/Co-PI	Funding Agency	Amount
1.	Monitoring Institution for SSA for the State of Meghalaya.	Prof. C.Nongbri	(MHRD) New Delhi	Rs.6.30 lakhs
2.	Monitoring Institution for RMSA for the State of Meghalaya.	Prof. S.M. Sungoh	(MHRD) New Delhi	Rs. 3.60 lakhs

3.	Development and Problems of Secondary Education in Sikkim.	Dr. Y Bhutia	ICSSR - New Delhi	Rs 6 lakhs
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Academic Collaboration:

Orientation Programme on Planning and Management of Higher Education Institutions for College Principals of North Eastern Region from 16th-20th June 2014 was organised by National University of Educational Planning and Administration (NUEPA) New Delhi in Collaboration with Department of Education, North-Eastern Hill University (NEHU), Shillong held in the Conference Hall, New Guest House, NEHU, Shillong.

Workshop organised by Department of Education, North-Eastern Hill University (NEHU), Shillong in Collaboration with Assessment Survey Evaluation Research (ASER) Delhi on 29th & 30th October, 2014.

Workshop organized by Department of Education, North-Eastern Hill University (NEHU), Shillong on Science, Technology, Engineering, Mathematics (STEM) from 10th November to 11th November 2014 in Collaboration with Learning Links Foundation, New Delhi.

Award

Ms Vandana Singh has been awarded Doctor of Philosophy in Education from Banaras Hindu University, Varanasi.

Dr. Yodida Bhutia has been awarded IKY scholarship by Hellenic Republic of Greece for Post Doctorate.

Other Academic Activities:

P.K. Gupta

Delivered Two Lectures on the topics (i) Experimental Methods of Inquiry and (ii)

Why People Behave as they do in the 27th Orientation Programme organized by UGC Academic Staff College, NEHU, Shillong. NEHU, on 1st & 3rd April 2014.

As a Member Coordinator of the NAAC's Peer Team visited Bhartiya College Of Education, Udhampur (J&K) on 18th-19th April 2014.

Delivered five lectures titled (i) Logical Methods of Inquiry (ii) Scientific Method of Inquiry (iii) Experimental Method of Inquiry (iv) Why People Behave as they do?(v) Mental Health in the 28th Orientation Programme Organized by Academic Staff College, NEHU, Shillong on 5th, 9th, 12th, 13th and 16th May, 2014.

As a Member Coordinator of the NAAC's Peer Team visited Hari Institute of Technology Department of Education, Randevi (Nakur), Saharanpur, U.P on 21st-22nd May 2014.

Delivered six lectures titled (i) ICT & Quality Education (ii) Logical Method (iii) Scientific Methods of Research Inquiry (iv) Experimental Method of Research Inquiry (v) Mental Health and (vi) Why People Behave as they do? In UGC- Refresher Course in Education organized by Department of Education at Academic Staff College, NEHU, Shillong on 29th may, 2nd 5th, 9th, 10th & 12th June 2014.

Delivered an Invited Lecture titled "Quality in Higher Education with Special Reference to North-East India" on 20th June 2014 in and Orientation Programme on Planning and Management of Educational Institutions for

School of Education

College Principals of NE Region organized by National University of Educational Planning & Administration (NUEPA) New Delhi in Collaboration with NEHU at Shillong.

Delivered Six lectures titled (i) Logical Method of Inquiry (ii) Scientific Method of Inquiry & (iii) Experimental Method of Inquiry (iv) Why People behave as they do (v) Mental Health (vi) Psycho Analysis in 29th Orientation Programme organized by UGC Academic Staff College, NEHU Shillong. Lectures delivered on 23rd & 26th June 2015 1st, 7th & 9th July 2014.

Delivered Six lectures titled (i) Logical Method of Inquiry (ii) Scientific Method of Inquiry & (iii) Experimental Method of Inquiry (iv) Why People behave as they do (v) Mental Health (vi) Psycho Analysis in 29th Orientation Programme organized by UGC Academic Staff College, NEHU Shillong . Lectures delivered on 23rd & 26th June 2015 1st, 7th & 9th July 2014.

Attended a consultative Meeting of National council of Teacher Education (NCTE), New Delhi on New Teacher Curriculum at Guwahati on 12th July, 2014.

Delivered an Invited Lecture on “Methods of research Inquiry” in a Faculty Development Programme organized by Shillong Commerce College, Shillong on 2nd August, 2014.

Delivered six Invited lectures titled (i) Quality of Teacher Education (ii) Qualitative & Quantitative Approach to Research (iii) Logical Method (iv) Scientific Method (v) Experimental Method (vi) Revamping Teacher Education in a Refresher Course for Teacher Educators of DERT and DIET organized by Department of Education, NEHU, Shillong on 4th, 5th, 11th, 12th, 13th, & 14th, August, 2014.

As a Member Coordinator of the NAAC's Peer Team visited Vishweshraiya College of

Education, Garh Road, Meghrajpur, Mawana, Merrut (U.P) on 21st-22nd, 2014.

Delivered six Invited Lectures titled (i) Quality in Higher Education (ii) Good Teaching (iii) Qualitative Vs Quantitative Approaches to Research (iv) Logical Method 27th, 29th August 2014 (v) Scientific Method and (vi) Experimental Methods of Inquiry in the Special Summer School for College & University teachers organized by UGC-Academic Staff College, NEHU, Shillong on 25th, 26th, 1st and 2nd September, 2014.

ICSSR- Sponsored Research Methodology Course in Social Sciences and delivered three Invited lectures titled (i) Logical Method (ii) Scientific Method of Research Inquiry and (iii) Quantitative Research Design at Department of Education, NEHU, Shillong on 8th, 15th & 16th September, 2014.

As a Member of the NAAC's Peer Team visited Assam University, Silchar (Assam) on 22nd-25th September, 2014.

As a Member Coordinator of the NAAC's Peer Team visited Shivaji College of Education, Amravata (Maharashtra) on 10th-11th October, 2014.

Delivered five Invited lectures titled (i) Qualitative & Quantitative Approaches to Research (ii) Scientific Method (iii) Experimental Method (iv) Technology of Teaching (v) Logical Method of Inquiry in a Refresher Course in Education organized by Department of Education, NEHU, Shillong on 16th, 17th, 20th, 21st, 27th, & 31st, October 2014.

Delivered five lectures titled (i) Research Process (ii) Qualitative Approaches to Research (iii) Quantitative Approaches to Research (iv) Hypothesis Formulation (v) Research Proposal in the Winter School for College and University

teachers on the theme "Linking education to society organized by UGC-ASC, NEHU, Shillong from 30th October to 19th November 2014. Lectures delivered on 1st, 10th, 11th, 12th, & 13th, November 2014.

As a Member Coordinator of the NAAC's Peer Team visited Institute of Education, Haldia (West Bengal) on 8th-10th December, 2014.

As a Member of the NAAC's Peer Team visited S.B.D.D Vispute College of Education, Raigad (Maharashtra) on 18th-20th December, 2014.

Delivered a lecture on "Mental Health" in a Refresher Course for Academic Administrators organized by Academic Staff College, NEHU, Shillong on 2nd February 2015.

As a Member Coordinator of the NAAC's Peer Team visited Sitapur Shiksha Sansthan, Kanwakhara-Resoura, Sitapur(U.P) on 6th-7th February 2015.

Acted as a Member of the Advisory Board for the Refereed Journal titled "Recent Educational and Psychological Researches, Roorkee, Haridwar (U.P) for the year 2014.

S.M. Sungoh

Acted as an Expert for NAAC Inspection for Department of Teacher education, Vinayak Vidyapeeth, Meerut, Uttar Pradesh on 4th – 5th April, 2014.

Acted as resource person in the 27th Orientation Programme organized by UGC-ASC, NEHU, Shillong on 10th April, 2014.

Acted as an Expert in the Syllabi Revision Committee for Education in Sikkim University, Gangtok, Sikkim on 14th April, 2014.

Acted as an Expert in the Syllabi Revision Committee for Education in Mizoram University, Tanhril, Mizoram, on 23rd April, 2014.

Acted as a resource person in the 28th Orientation Programme organized by UGC-ASC, NEHU, Shillong on 8th, 9th and 15th May, 2014.

Acted as Resource Person to a Seminar on "Quality Indicators in HEIs and How to Set Benchmark for Quality Enhancement" at Synod College, Shillong on 23rd May, 2014.

Acted as a resource person in a Seminar on Assessment and Accreditation : Impact on Quality Culture in HEIs on the topic "Quality Indicators in HEIs and how to set benchmarks for quality enhancement" on 23rd May, 2014 at Synod College, Shillong.

Acted as a resource person in the Refresher Course in Education organized by UGC-ASC, NEHU, Shillong on 26th -27th May, 13th July, 2014.

Acted as a resource person in the 28th Orientation Programme organized by UGC-ASC, NEHU, Shillong on 4th, 7th and 8th July, 2014.

Acted as a resource person in the Refresher Course for DIETs Lecturers organized by UGC-ASC, NEHU, Shillong on 4th, 11th and 12th August 2014.

Acted as a resource person in the Special Summer School for College and University Teachers organized by UGC-ASC, NEHU, Shillong on 1st September, 2014.

Acted as a resource person for School Principals Advisory Meet, organized by North-East India Union of SDA, Shillong, on the topic: "Congenial Ambience : Aesthetics and Soft Skills Development in an Educational Institution" held at RRTC, Umran, Ri Bhoi District, Meghalaya on 24th September, 2014.

Acted as a resource person in the Refresher Course in Education organized by UGC-

ASC, NEHU, Shillong on 15th -18th October, 2014.

Delivered a Lecture on “Introduction to Research Methodology in Social Sciences” on the 5th November, 2014 in ICSSR, NEHU Campus, Shillong.

Acted as resource person in the 30th Orientation Programme organized by UGC-ASC, NEHU, Shillong on 2nd, 3rd and 4th February 2015.

Delivered a Lecture on Review of Related Literature on the 9th February, 2015 in ICSSR, NEHU Campus, Shillong.

Delivered a lecture on “Stress Management” in Refresher Course for Academic Administrators on 10th February, 2015 organized by Academic Staff College, NEHU, Shillong in the New Guest House Conference Hall, NEHU, Shillong.

Acted as a resource person in the 31st Orientation Programme organized by UGC-ASC, NEHU, Shillong on 20th, 23th and 24th February 2015.

C. Nongbri

Delivered two lectures on Curriculum Development at the Higher Education in the UGC-ASC 27th Orientation Programme (General) on 28th March, 2014 organised by the UGC Academic Staff College, NEHU, Shillong during 20th March – 16th April, 2014.

Delivered a lecture on Curriculum Development in the UGC-ASC 28th Orientation Programme (General), on 23rd May, 2014 organised by the UGC Academic Staff College, NEHU, Shillong during 5th May – 1st June, 2014.

Delivered lectures titled (i) Curriculum Development at Higher Education-I & II on 26th May, 2014 (ii) ICT and Teacher Education-I

on 10th June, 2014 and (iii) ICT and Teacher Education-II on 12th June, 2014 in the UGC-Refresher Course in Education organised by Department of Education, NEHU, Shillong during 26th May to 15th June 2014.

Delivered a lecture on Curriculum Development in the 29th Orientation Programme on 3rd July, 2014 organised by the UGC Academic Staff College, NEHU, Shillong during 23rd June – 20th July, 2014.

Delivered two lectures on Curriculum Development (I & II) in the Refresher Course for Teacher Educators of DERT & DIET on Teacher Education & RTE (I & II) on 7th and 8th August, 2014 organised by the Department of Education, NEHU, Shillong during 4th – 24th August, 2014.

Delivered a lecture on the topic Layout of Research proposal in the ICSSR sponsored course “Research Methodology in Social Sciences” on 9th September 2014 organized by Department of Education, NEHU, Shillong.

Delivered a lecture on Curriculum Development (I and II) in the Refresher Course in Education on 15th October, 2014 organised by the Department of Education, NEHU, Shillong 13th October – 1st November, 2014.

Delivered a lecture on Curriculum Development in the UGC-ASC 31st Orientation Programme (General), on 13th February, 2015 organised by the UGC Academic Staff College, NEHU, Shillong during 9th February – 8th March, 2015.

I. Syiem

Acted as a resource person in the 28th Orientation Programme conducted by UGC-ASC NEHU Shillong on the 6th of May, 2014, topic of interaction- “Research Methodology- An Overview.

Acted as a resource person in the 28th Orientation Programme conducted by UGC-ASC NEHU Shillong on the 1st June,, 2014, topic of interaction- “Emotional Intelligence – Why It Matters for Teachers.”

Acted as a resource person at the Research Methodology course on the 18th of September, 2014 organized by Department of Education, NEHU Shillong and ICSSR-New Delhi,topic for interaction- “ Introduction to Research Methodology.

Acted as a resource person in the refresher Course conducted by Adult and Continuing Education on Emotional Intelligence: Its Relevance and Importance organized by UGC-ASC on the October, 2014.

Acted as a resource person in the Refresher Course in Education on the 13th October- 1st November, 2014 on four topics, interacted on - “Emotional Intelligence : The Key to Human Well-Being.

Acted as a resource person in the One Day Programme conducted by Shillong College on Emotional Intelligence : Why it Matters for Youth of Today organized by Dept of Education , Shillong College on 10th November, 2014.

B.B. Kharbirymbai

Acted as a resource person in the 28th Orientation Programme conducted by UGC-ASC NEHU Shillong on the 6th of May, 2014, topic of interaction- “Can Technology Change Learning?”

Acted as a resource person at Post Graduate Diploma In Higher Education Programme conducted by IGNOU-Shillong on the 17th of May, 2014, topic of lecture- “Issues of Quality of Higher Education.

Acted as a resource person at Post Graduate Diploma In Higher Education Programme conducted by IGNOU-Shillong on the 19th of May, 2014, topic of lecture- “Globalization and Privatization.”

Acted as a resource person in the 28th Orientation Programme conducted by UGC-ASC NEHU Shillong on the 1st June, 2014, topic of interaction- “ICT in Teaching Learning Process”.

Participated in the World Environment day celebration organized by the Department of Education, NEHU, Shillong on the 5th June, 2014.

Acted as a resource person in the 28th Orientation Programme conducted by DERT, Shillong on the 6th of June, 2014, topic of interaction- “Sampling Techniques” organized by DERT, Government of Meghalaya.

Acted as a resource person at the Research Methodology course on the 18th of September, 2014 organized by Department of Education, NEHU Shillong and ICSSR-New Delhi, topic for interaction- “Methods of Sampling”.

Acted as a resource person in the refresher Course conducted by Adult and Continuing Education on ICT in Community Development organized by UGC-ASC on the October, 2014.

Acted as a resource person in the Refresher Course in Education on the 13th October- 1st November, 2014, on four topics, interacted on - “New interventions of ICT in Higher Education.”

Attended a workshop on “Sexual Harrasment” on the 17th of November, 2014 organized by Womens’ Cell, NEHU, Shillong.

School of Education

Acted as a resource person in DERT workshop on Analysis of MBOSE question paper from the 2nd-6th February, 2015 organized by DERT, Government of Meghalaya and NCERT-New Delhi.

Acted as a resource person at the orientation Programme organized by UGC-ASC on the 9th of February, 2015 topic of interaction-ICT in Education.

Acted as a resource person at a orientation Programme for teachers on ICT in Education, organized at NERIE-NCERT Umiam on the 16th of February, 2015 topic of interaction-Need and importance of ICT in Education.

Acted as a resource person in the Orientation Programme organized by UGC-ASC NEHU, Shillong on the 19th February, 2015 topic of interaction-ICT in Education-Need and Importance.

Acted as a resource person in the Orientation Programme organized by UGC-ASC NEHU, Shillong on the 19th February, 2015 topic of interaction-ICT in Education-Need and Importance.

Two research scholars are undergoing post-doctoral fellowship sponsored by ICSSR, New Delhi.

Yodida Bhutia

Acted as a Resource Person in the Workshop for Development of Tools in the Research Project entitled Implementation of Inclusive Education at Elementary Level in the Selected North East Region from 4th-6th June 2014.

Acted as a Resource Person on Research Methodology for DERT and DIET faculty from 23rd -27th June 2014 at DERT, Shillong.

Acted as a Resource person in Refresher Course for Teacher Educators of DERT and DIET on

19.08.2014 and 21.08.2014 on Experimental Research I and II.

Acted as a Resource person in Refresher Course for Teacher Educators of DERT and DIET on 15.10.2014 on Technology in Research.

Rihunlang Rymbai

Delivered a Lecture on the topics Introduction to Research Methodology and Review of Related Literature on the 23rd June 2014 on the 5 Days Training Programme on Research Methodology for DERT and DIET faculty w. e. f. from 23rd – 27th, June, 2014 organized by Directorate of Educational Research and Training (DERT), Shillong.

Delivered a Lecture on the topic “Models of Teaching” on the 17th October 2014 at the Refresher Course in Education for Teacher Educators held in the Academic Staff College.

Attended a Sexual Harassment Programme organized by the Women Cell, NEHU, Shillong on the afternoon of 17th November 2014.

Acted as Resource Person for Revision of D.El.Ed. Curriculum in light of NCFTE and RTE 2009 organized by DERT, Shillong on various dates.

Delivered a Lecture on the Micro Teaching Practice on the 24th April 2015 at the Orientation Course in Education for College and University Teachers held in the Academic Staff College.

Ashok Kumar

Acted as moderator for paper presentation in refresher course for teacher educators organized by Department of Education and UGC-ASC, NEHU, Shillong, on 20th August, 2014.

Delivered a lecture on the topic 'Trends and Issues in Teacher Education' in refresher course for teacher educators organized by Deptt of Education and UGC-ASC, NEHU, Shillong, 22nd August, 2014.

Delivered a lecture on the topic 'Social Exclusion and Inclusion and Community Education' in refresher course organized by Deptt of Adult and Continuing Education and UGC-ASC, NEHU, Shillong on 7th November, 2014.

Delivered a lecture on 'Qualitative and Quantitative Methods of Research in Education' in IGNOU Study Centre-, Shillong, on 11th April, 2015.

Vandana

Acted as a resource person for DERT faculty members on 'Research Approaches in Education' for DERT faculty members w. e. f. from 23rd – 27th, June, 2014 organized by Directorate of Educational Research and Training (DERT), Shillong.

Delivered a lecture on the topic 'Mixed Method Research' in refresher course for teacher educators organized by Department of Education and UGC-ASC in 2014.

Delivered a lecture on the topic 'Equity Pedagogy' in refresher course organized by Deptt of Adult and Continuing Education and UGC-ASC in 2014.

Euodia Bahun Myrthong

Acted as a Resource Person on the topic "Self Appraisal and Performance Evaluation of Teacher Education" for DIETs teachers at Nongpoh on 1st May, 2014.

Acted as a Resource Person on the topic "Introduction to Research Methodology and Review of Related Literature on the 23rd June

2014 on the 5 Days Training Programme on Research Methodology for DERT and DIET faculty w. e. f. from 23rd – 27th, June, 2014 organized by Directorate of Educational Research and Training (DERT), Shillong.

Acted as a Resource Person on the topic "A 10 day Training Programme on Action Research for the Secondary school teachers of Meghalaya w.e.f 19th November, 2014 to 28th November, 2015", on 24th November, 2014.

Acted as a Resource Person on the topic "A 10 day Training Programme on Action Research for the Secondary school teachers of Meghalaya w.e.f 12th January, 2015 to 21st January, 2015", on 13th and 14th January, 2015.

Amareswaran

Participated in the International Conference on India's North-East and Asiatic South-East: Beyond Borders jointly organized by CRRID, Chandigarh and ICSSR, NERC, Shillong from 6th June to 7th June 2014.

Delivered a Lecture on Measures of Central Tendency (Mean, Median and More) in the Short Term Course on SPSS organized by UGC ASC, NEHU, Shillong during 23rd – 28th June 2014.

Delivered a Lecture on Measures of Variability (Range, Standard Deviation) in the Short Term Course in SPSS organized by UGC ASC, NEHU, Shillong during 23rd – 28th June 2014.

Hands on Measures of Central Tendency (Mean, Median and More), Measures of Variability (Range, Standard Deviation) and Multivariate Data Analysis in the Short Term Course in SPSS organized by UGC ASC, NEHU, Shillong during 23rd – 28th June 2014.

School of Education

Hands on Test of Goodness of Fit, (t, Chi Square and F) in the Short Term Course in SPSS organized by UGC ASC, NEHU, Shillong during 23rd – 28th June 2014.

Participated in the Workshop on Value Proposition - Personality Development and Communication Skills organized by Career and Counselling Cell, NEHU, Shillong during 11th -12th September 2014.

Participated in the Workshop on Science, Technology, Engineering, Mathematics (STEM) organized by Dept. of Education, NEHU, Shillong from 10th November to 11th November 2014.

Participated in the National Seminar on Youth and Skill Development in North East India organized by ICSSR, NERC, Shillong on 26th and 27th March 2015.

DEPARTMENT OF EDUCATION (Tura Campus)

Head : Dr. Nikme S.C. Momin
Telephone : 9436315571 (M)
Email ID : edntcnehu@gmail.com
Faculty :

Designation	Name & Qualification	Specialization
Associate Professor	Nikme S.C.Momin, MA & Ph.D. NEHU,	Value Education, Educational Psychology & Environmental Education
	B.C.Das, M.A.(Utkal), M.Phil(DAV), Ph.D(B.H.U)	Educational Technology, Teacher Education, Research Methodology
Assistant Professor	S.C.Subudhi MA, M.Phil&Ph.D.(Kurukshetra).	Research Methodology & Statistics, Special Education
	Madhusudan J.V., M.Ed, M.Phil & Ph.D.(Gulbarga)	Sociology of Education, Early Childhood Education.

Thrust Area of Research

Value and Peace Education, Teacher Education, Methods of Teaching at Tertiary Level, Special Education, and Elementary Education are the thrust areas of study and research in the department.

Brief Statement of Academic Activities

The Department of Education, NEHU, Tura Campus was established in August 2001. Since then, it has been offering two years

M.A. and Ph. D. Programmes in Education. Besides regular teaching and research work, the department conducted course seminars in which students presented papers on various topics. The department is also engaged in Research Project works funded by the UGC and ICSSR, New Delhi, and ICSSR, NEHU-Shillong. The Department has a well-established Psychological Laboratory with adequate number of psychological tests and equipments where students conduct tests and experiment as a part of their course work.

School of Education

Students' Profile

Enrolment Capacity: P.G. : 30; Ph.D: Variable

Actual Admission:

Course	OBC	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
P.G	-	-	27	3	9	21	27	3	30
PhD	-	-	4	-	3	1	4	-	4

P.G Degree Awarded

Course	OBC	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
P.G	-	1	25	3	3	26	24	5	29
PhD	-	-	3	1	1	3	-	-	4

Ph.D. Degree Awarded

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Ms. Silse D.Marak	Environmental Awareness and Practices among Secondary Students of West Garo Hills.	Dr. J.V.Madhusudan
Ms. Pyrkhatalang .A. Shadap	Environmental Attitudes, Ethics and Practices among Jaintia Students in Jaintia Hills, District, Meghalaya.	Dr. NikmeS.C.Momin
Mr. Zacharias George	A Study of the Attitude of Teacher Educators Towards Innovative in Meghalaya.	Dr. NikmeS.C.Momin
Ms.UrvashiCh.Marak	A Study of Personality, Adjustment and Self Concept of Physically and Normal Children in Integrated Educational Settings of Meghalaya.	Dr. S.C.Subudhi

Courses Conducted:

M.A. (Education)

Semester I

Philosophy of Education, Psychology of Education, Educational Management and Change, and Research Methodology in Education (I & II).

Semester II

Curriculum Development and Instruction, Sociology of Education, Educational Testing & Evaluation, Environmental Education and Mental Health Education.

Semester III

Educational Technology, Comparative Education, Early Childhood Education, Teacher Education, Education for the Gifted & the Creative and Special Education.

Semester IV

Laboratory Practical, Higher Education in India, Guidance and Counseling, Education for the Physically and the Cognitively Challenged, Methods of Teaching at Tertiary Level and Economics of Education.

Ph.D Courses

Research Methodology

Data Analysis and Computer Application

Review of Related Literature

Educational Tour

Places/Institutions Visited: The Tour consisted of visits to Educational Institutions, National Science Centre, Historical Museums and Archaeological sites, places of Philosophical and Religious interests, areas of Ecological concerns and Cultural and Socio-economic

centers in an around Panaji(Goa)and Mumbai. Sightseeing were also made.

Duration of Tour : 17 days w.e.f. 12/01/2015 to 27/01/2015.

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 and the scientific advancement of the people from the places in Mumbai, Maharashtra and Goa.

Through traveling and observation, the students of the Department had optimized about the learning of the area.

Seminars/ Conference/ Symposia/Extension Programmes Etc.:

Nikme S.C. Momin

Presented a paper entitled "Advocating Cultivation of Entrepreneurial Qualities amongst the Primary School *Children*." in an International Conference on "Entrepreneurship in the Fast Changing Society: The Socio-Economic Perspectives". Organized by the Department of Management, NEHU, Tura Campus in collaboration with Planning Department, Government of Meghalaya on the 26th to 27th June, 2014.

Presented a paper entitled "Introduction to Approaches to Social Science Researches" on a Workshop entitled as Approaches to Social Science Researches on the 25th September, 2014 in the Department of Education, NEHU, Tura Campus, Tura-793002, Meghalaya.

B. C. Das

Presented a Paper entitled "Introduction to Scientific Method" in a "Workshop entitled as Approacheto Social Science Researches" on

the 25th September, 2014 in the Department of Education, NEHU, Tura Campus, Tura-793002, Meghalaya.

Presented a Paper entitled "Experimental Research" in a six days Training Programme on "Experimental Research Methodology for College and University Teachers" from 17th -22nd November, 2014" at the Department of Education, NEHU, Tura Campus, Tura, Meghalaya, funded by ICSSR-NERC and NEHU.

S.C. Subudhi

Presented a paper entitled "Financial Management in Multigrade and Multi-ethnic Educational Settings" in a National Seminar on 'Emerging Trends of Financial Services in India' at Department of Management, NEHU, Tura Campus, Tura, Meghalaya on 20th -21st November 2014.

Presented a paper entitled "Teaching Learning Management in Multigrade and Multi-ethnic Educational Settings" in a National Seminar on Issues and Challenges in Teacher Education: In View of NCTE New Norms, 2014 at Bhagwan Mahaveer College of Education, Sonapat, Haryana on 1st March, 2015.

Publications

Research Papers

Published in India

Momin, N.S.C. and Marak, C.R (2014). Developing Amongst Primary School Children, the Entrepreneurial Qualities towards Vocationalization. Education: North East. *A Refereed Journal of North East India Education Society (NEIES)*. 18 (2), 47-58.

Subudhi. S. C. (2014). Educating HIV and AIDS Today: A Beautiful Civilization Tomorrow.

Anweshan Journal of Education, Sonapat, Haryana, 3 (2) &4, (1). 24-31.

Madhusudan, J.V (2014). Children's Pre-School Participation according to Age, Gender and Place of Residence in India's North-East. *Golden Research Thoughts*, Vol.IV. Issue.VI, 1-7.

Madhusudan, J.V (2014). 'Some Predictors of Children's Pre-School Participation: Evidences from the States of NE India', *Research Dimension 2*. (8), 1-7

Published Abroad

Subudhi S. C. (2014). Class Room Development Ability among Elementary School Teachers Teaching at Multigrade Settings in Meghalaya. *International Journal of Applied Management Research*, Vol.2 (1) , 65-72.

Books/Chapters/Proceedings

Momin, N.S.C (2015). Field Experiences of Teachers' Perspective on Continuous Comprehensive Evaluation. In *Transforming Teacher Education in the North Eastern Region of India*. Syiem, I (Ed) Chandra Prakash Publishers Guwahati, 143-153.

Momin, N.S.C. (2015). Literacy and Entrepreneurship Skill Development in West Garo Hills District of Meghalaya. In *Entrepreneurship: A Drive towards Socio-Economic Development*. D. Singh (Ed). Manas Publishers and Distributors. Jaipur, 31-39.

Research Projects

Ongoing

Sl	Title of the Project	PI/Co-PI	Funding Agency	Amount
1.	Concept Development in Science Subject among Hearing Impaired Children Studying in Integrated and Segregated Educational Settings of Meghalaya.	S.C.Subudhi	ICSSR, New Delhi	Rs. 7,00,000/-
2	Studying of Competencies in Organization of Co-Curricular Activities among Elementary School Teachers of West Garo Hills District of Meghalaya'.	S.C.Subudhi	ICSSR- NERC, Shillong	Rs. 1,00,000/-

Completed during the year

Sl.	Title of the Project	PI	Funding Agency	Amount
1	A Study on Learners' Attitude and its impact on Sakshaar Bharat Programme West Garo Hills, Meghalaya. Submitted on October, 2015.	N.S.C. Momin	State Resource Centre North Eastern Hill University, Shillong, Meghalaya	Rs 60,000/-.

Other Activities:

Nikme S.C. Momin

Co-ordinated with Dr. Madhusudan. J.V a Workshop entitled "Approaches to Social Science Researches" on the 25th September, 2014 in the Department of Education, NEHU, Tura Campus, Tura-793002, Meghalaya.

Participated in the six day Training Programme on "Experimental Research Methodology" organized by the Department of Education,

NEHU, Tura Campus in collaboration with the ICSSR, NERC, NEHU, Shillong and Prime Alternatives, Tura Meghalaya from 17th to 22nd November, 2014.

S. C. Subudhi

Coordinated a six days Training Programme on "Experimental Research Methodology for College and University Teachers" from 17th -22nd November, 2014" at the Department of Education, NEHU, Tura Campus, Tura,

School of Education

Meghalaya, funded by ICSSR-NERC and NEHU.

J. V. Madhusudan

Delivered lectures on Qualitative Research and Action Research, as a Resource person in Special Summer School on 12th and 13th September, 2014 organized by the

Department of Education, NEHU, Shillong, Meghalaya.

Coordinated one day Workshop on Approaches to Social Science Research funded by NEHU, Tura, on 25-09-2014 at the Department of Education, NEHU, Tura Campus, Tura, Meghalaya along with Dr. Nikme S.C Momin.

CENTRE FOR DISTANCE EDUCATION

Head : Prof. R. N. Rai
Telephone : 0364-2226822/ 0364-2228705 (O); 9436303111 (M)
E-mail : rnrai1957@yahoo.co.in
Faculty :

Designation	Name and Qualification	Specialization
Professor	R.N.Rai, M.A., Ph.D	Psychological Testing and Social Psychology of Aging
Assistant Professor	R.C.Pandey, M.A., Ph.D	Experimental Psychology & Statistics

Thrust Area of the Centre:

The thrust area of the Centre is to offer General, Certificate, Diploma and Degree Courses in distance mode to all those who have for some reason or other been deprived of formal education and are seeking higher education irrespective of age or region where they reside. The Centre offers Degree, Diploma and Certificate Courses through distance mode relevant to the region.

Brief Statement of Academic Activities:

The Centre for Distance Education (CDE) has been selected as the only nodal agency of the Rehabilitation Council of India (RCI), New Delhi to spread the teaching learning on disabilities areas in the entire North Eastern Region of India through the distance mode. In the disability areas, the centre started the B.Ed special education (B.Ed-SEDE) in 2007, the Foundation Course on Education of Children with Disability (FC-SEDE) in 2010. In addition the centre has the Post Graduate Diploma in Entrepreneurship (PGDE) and the Floriculture Course which is the most sought

after programme in the region. For Floriculture courses the centre organized field trip for students to provide them hands on training in different parts of Meghalaya. The programme coordinators and counselors have been exposed to the new techniques of distance mode of education through orientation programmes. The following is a list of academic programmes under operation:

- 6 months Certificate Course in Floriculture
- 3 months General Course in Floriculture
- 1 year Post Graduate Diploma Course in Entrepreneurship
- 2 years B.Ed.- Special Education (B.Ed.-SEDE)
- 3 months Foundation Course on Education of Children with Disabilities (FC-SEDE)
- 1 year Post Graduate Professional Diploma in Special Education (PGPD-SEDE)

School of Education

Students' Profile

Enrolment capacity:

B.Ed-SEDE- 200, PGPD-SEDE – 160, FC-SEDE – 640

Actual Admission:

	SC	ST	GEN	OBC	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
B.Ed.-SEDE	7	84	71	39	80	120	67	133	200
Foundation Course on Education of Children with Disabilities (FC-SEDE)	19	241	180	81	320	201	102	419	521
Post Graduate Professional Diploma in Special Education (PGPD-SEDE)	6	18	35	10	27	42	9	60	69

Degrees Awarded:

	SC	ST	GEN	OBC	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
B.Ed.-SEDE	1	49	22	10	31	51	29	53	82
Foundation Course on Special Education of Children with Disabilities (FC-SEDE) 1 st Batch	8	55	33	18	68	46	8	106	114

Post Graduate Professional Diploma in Special Education(P GPD-SEDE)	6	13	20	3	20	22	7	35	42
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Placement of Students

Successful students of Disability Programmes are placed under SSA and special schools of the North-East Region of the Country and all over the country. The students have also joined various NGO to cater the needs of the challenged population which is a sizable number in the North Eastern Region. The students of Floriculture and Entrepreneurship Programmes have started their own venture and have become job provider for many.

Courses conducted :

Certificate and General Course in Floriculture

Commercial Floriculture, Nursery Establishment, Propagation of Ornamental Crops, Annuals, Cultivation of Selected Commercial Flowers, Common Pests and Diseases, Dried Flower Making, Wild Plants of Horticultural Potential in Northeast India, Orchid Cultivation-I, Orchid Cultivation-II, Common Diseases and Pests of Orchids, Plant Tissue Culture, Laboratory Equipments and General Techniques, Tissue Culture Media, Clonal Propagation of Orchids,

Rose Cultivation, Botany, Nursery Practices-I, Nursery Practices-II (Organic Gardening-A), Nursery Practices-III (Organic Gardening-B), Nursery Practices-IV, Manures and Fertilizers, Pests and Diseases, Gardens, Planting of Ornamental Plants-I, Planting of Ornamental

Plants-II, Growing of Ornamental Plants in Containers, Cut Flowers and Their Arrangements, Dried Flower arranging, Commercial Aspects of Floriculture

Post Graduate Diploma in Entrepreneurship

Entrepreneurship and Environment, Venture Creation, Business Communication Skill, Enterprise Management, Strategic Management of Small Enterprise, Enterprise Control System, Export and Import Management, Project Report.

B.Ed.-Special Education (B.Ed.-SEDE)

B.Ed.-SEDE 1st Year

Theory

Education in Emerging Indian society

Educational Psychology

Introduction to Disability

Teaching of English/Hindi/regional Language

Introduction to Education of Visually Impaired Children/Identification & Assessment of Persons with Mental Retardation / Foundation of Education for the Hearing Impaired

Practical

Core Training in Teaching Skill

Psychology Practical

School of Education

Basic Computer Operation

Adaptive skills, Aids & Appliances

Training in Visual Impairment, Mental Retardation and Hearing Impairment.

Teaching Practice in English/Hindi/Regional Language

Teaching Practice in Inclusive School

B.Ed.-SEDE 2nd Year

Theory

Educational Planning and Management, Curriculum designing & Research,

Teaching of Science/Teaching of Mathematics/ Teaching of social Studies

Educational Perspective of Visual Impairment

Instructional Methods

Mental Retardation: Its Multidisciplinary Aspects

Curriculum and Teaching Strategies

Aural and Oral Rehabilitation of the Hearing Impaired

Methodology of Teaching Language and Other Subjects to Hearing Impaired

Practical

Work Experience/Art Education

Co Curricular and extra curricular activities

Project Work in Visual Impairment

Training on Equipment related to Visual Impairment

Project Work in Mental Retardation

Training on equipment related to Mental Retardation

Project work in Hearing Impairment

Training on Equipment related to Hearing Impairment

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.

Post Graduate Professional Diploma in Special Education –PGPD-SEDE

Introduction to Disabilities.

Three Specialized Theory Courses in any one optional Disability Area:

Visual Impairment

Mental Retardation

Hearing Impairment

Practical Courses in any one opted Disability Area:

Visual Impairment

Mental Retardation

Hearing Impairment

Attended:

R.N.Rai

Chaired the Scientific Session on School Psychology: Enhancing psychological

competencies among school students for Overall Development during 21st -23rd November 2014 and also presented paper entitled Disabilities: Issues and challenges in the Annual InSPA International Conference 2014 organized by Department of Psychology, Guwahati University & Psychologists Association of North-East India (PANEI).

Chaired the Scientific Session Applied Psychology and Spirituality Contribution to Health, Happiness, Professions and Leadership in 50th National & International conference of the Indian Academy of Applied Psychology organized by Department of Psychology, Sri Padmavathi Women's Degree college & PG College Tripati during 23rd-25th January, 2015.

Academic Collaboration:

The Centre is conducting the following courses on Special Education Programme in collaboration with the Rehabilitation Council of India, New Delhi.

- (i) B.Ed.-SEDE
- (ii) Post Graduate Professional Diploma in Special Education (PGPD-SEDE)

- (iii) Foundation Course on Education of Children with Disabilities (FC-SEDE)

Honors/Awards/Recognition:

Prof. R.N.Rai is nominated Regional President of India Academic of Applied Psychology from January 2015.

Any Other Activities:

The Centre is hosting the IGNOU Study Centre, Shillong. Under this Centre, Master and Bachelor Degree Programmes, Diploma and Certificate Programmes are offered to students of different categories. More than 1200 distance learners are enrolled under this Study Centre.

Prof. R.N.Rai delivered Lecture on Standardization of Psychological Tests in ICSSR Sponsored Research Methodology course in Social Sciences organized by the Department of Education, North-Eastern Hill University, Shillong from 18th-19th September 2014.

Prof. R.N.Rai delivered Lectures in NEIGRIMS for B.Sc. Nursing 1st Year students from July 2014 to February 2015.

CENTRE FOR SCIENCE EDUCATION

Head : Prof. M. S. Bisht
Telephone : 0364-272 2955; 0364-272 2951(O)
E-mail : msbisht@nehu.ac.in
Faculty :

Designation	Name and Qualification	Specialization
Professor	Man Mohan Singh, M.A, Ph.D	Science Education
	Debashis Bhattacharjee, Ph. D. (Warsaw)	Mathematics (Number Theory)
	M. S. Bisht, Ph. D. (Delhi University, Delhi)	Biological and Environmental Sciences
	P. K. Patra , Ph. D. (NEHU, Shillong)	High Energy Physics/ Nanophysics

Thrust Areas of Research

Development of scientific temper among students and community at large, research and spread of knowledge in the field of science education, promotion of scientific awareness among youth, innovative methods of science teaching and learning.

Brief Statement of Academic Activities

The Centre for Science Education is mainly involved in research activities in the area of physical, biological and environmental sciences. Faculty members have research projects on various aspects and working on natural resource use, waste recycling, reuse and management, number theory and carbon

nanotubes, etc. Tools and methods for teaching are being developed to make students and general public aware about their environment, sustainable use of natural resources and waste management.

Seminars/Conferences/Symposia/Extension Programmes etc.

Organized

M. S. Bisht

Was co-convenor of the National Seminar cum Workshop, "Bamboo as Wood and Food for 21st Century", Sep. 18th -19th , 2014, held at Department of Botany, Panja University, Chandigarh.

Attended

D. Bhattacharjee

Attended International Congress of Mathematics, August 13th -21st, 2014 at Seoul, South Korea and presented a poster entitled, "On Some Characterization of Arithmetical Functions."

Attended NBHM Sponsored, "Mathematics Olympiad Orientation Programme" Organized by Department of Mathematics, NEHU, Shillong, December 8th -11th, 2014 at ICCSR Guest House, NEHU Campus.

Attended UGC SAP NEHU *Workshop and National Conference on Contemporary Topics in Mathematics* in the Department of Mathematics, NEHU, Shillong during Dec. 16th -17th, 2014 and presented a paper entitled, "On Some Characterization of Arithmetical Functions".

M. S. Bisht

Presented a paper, "Our Waste: a Resource for keeping our Environment Clean And Green" On June 5th, 2014 (World Environment Day) at St Anthony College Shillong.

Presented a paper, "Is Bamboo failing in becoming a promising Natural Resource for the Socio-Economic Development Of NE India" on July 2nd -3rd, 2014, Manipur State Bamboo Mission, Forest Department, Imphal.

Presented a paper, "The scope of Bamboo in the 21st century for the Socio-Economic Development Of India" in *National Seminar cum Workshop, 'Bamboo as Wood and Food for 21st Century'*, on September 18th -19th, 2014

at Department of Botany, Panjab University, Chandigarh.

Delivered a talk, "Genomic in situ hybridization confirms the evolution of finger millet as an allopolyploid" at New Horizons in genetics and education (Memorial Symposium on superannuation of honourable Professor Yasuhiko Mukai) March 7th, 2015, Osaka Kyoiku University, Osaka, Japan.

Publications

Research Papers

Published in India

Chongtham, N., Bisht, M. S. and Sharma, V. (2014). Bioactive compounds in bamboo shoots: health benefits and prospects of developing nutraceuticals. In G. J. Sharma and R. N. Saran (Eds) *Current Topics in Redox Biology*, New Delhi, McGraw Hill Education (India) Pvt. Ltd., 82-100.

Published Abroad

Bhattacharjee, D. 2014. On some characterization of arithmetical functions. *International Congress of Mathematicians, Seoul 2014, Abstract (Short Communications)*. 78-79.

Chongtham, N., Bisht, M. S., Laishram, M. (2013). Bioactive compounds in bamboo shoots: health benefits and prospects for developing functional foods. *International Journal of Food Science and Technology* 49: 1425-1431

Funds Received from Agencies including NEHU/UGC

Total Fund for Centre: Rs. 75,000.00

Research Projects

Ongoing

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1	Bamboo Shoot as a Functional Food and Nutraceutical: Extraction of Bioactive Compounds from Juvenile Shoots for Commercial Exploitation and Socio-Economic Development of the Region	Prof. M. S. Bisht (Co-PI)	Department of Biotechnology (DBT)	Rs. 14,38,000/- (NEHU Share)
2.	Organic Garbage Recycling for the Generation of Livelihood and Zero Waste	Prof. M. S. Bisht (PI)	Department of Science and Technology (DST)	Rs. 13,50,584

Completed during Year 2014-2015

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1.	Development of Processing Techniques for Preserving Juvenile Shoots of Nutritionally Rich Bamboos of Sub-Himalayan and North-Eastern Region of India	Prof. M. S. Bisht (Co-PI)	Ministry of Food Processing Industry, New Delhi	Rs. 13,30,000/-

Academic Collaborations

Prof. M. S. Bisht collaborated with Prof. C. Nirmala, Department of Botany, Panjab University, Chandigarh for a Research Project entitled, "Bamboo Shoot as a Food and Nutraceutical: Extraction of Bioactive Compounds from Juvenile Bamboo Shoots for Commercial Exploitation and Socio-Economic

Development of the Region" funded by North-Eastern Region-Biotechnology Programme Management Cell (NER-BPMC), Department of Biotechnology (DBT), Government of India, New Delhi.

Prof. M. S. Bisht collaborated with Dr. Kananbala Sarangthem, Department of Life Sciences, Manipur University, Canchipur for a

Research Project entitled, “Bamboo Shoot as a Food and Nutraceutical: Extraction of Bioactive Compounds from Juvenile Bamboo Shoots for Commercial Exploitation and Socio-Economic Development of the Region” funded by North-Eastern Region-Biotechnology Programme Management Cell (NER-BPMC), Department of Biotechnology (DBT), Government of India, New Delhi.

Other Activities

D. Bhattacharjee

Appointed member (for a period of three years) of Editorial Board of the Journal, ‘Mathematics and Statistics’ Horizon Research Publishing, USA.

M. S. Bisht

Delivered lecture, “Waste: a problem or a resource in our environment” in UGC-ASC 29th Orientation Programme (General), on June 25th, 2014 at UGC-Academic Staff College, North-Eastern Hill University, Shillong.

Delivered a lecture, “Resources for our prosperity or disaster: famine due to bamboo flowering” in Refresher Course in Disaster Management for college and university teachers at UGC-Academic Staff College, North-Eastern

Hill University, Shillong on October 10th, 2014.

Delivered lectures, “ Education to know our environment: management of our waste” on November 3rd, 2014 and “Resources for our prosperity or disaster: famine due to bamboo flowering in Mizoram” on November 10th, 2014, in Special Winter School on ‘Linking Education to Society’ at UGC-Academic Staff College, North-Eastern Hill University, Shillong.

Delivered a lecture on, “Bamboo as Wood and Food for 21st Century” in Regional Workshop, ‘Youth and Entrepreneurship’ Dec. 10-11, 2014 at Shillong College, Shillong.

Delivered lectures, “Our resources for our development: bamboo a promising natural resource for the socio-economic development of NE India in 21st century” on January 30th, 2015 and “Garbage for income generation and zero waste” on January 31st, 2015 at UGC-Academic Staff College, North-Eastern Hill University, Shillong .

Delivered a lecture, Waste: a problem or a resource in our environment” in 31st Orientation Programme (General) for college and university teachers at UGC-Academic Staff College, North-Eastern Hill University, Shillong on February 9th, 2015.

III

SCHOOL OF HUMANITIES

Dean : Prof. B. War
Telephone : 0364-2723501(O); 9436337721 (M)
E.mail ID : bwar57@yahoo.co.in

The School of Humanities has five Departments in Shillong Campus, i.e. English, Philosophy, Khasi, Linguistics and Hindi, and two departments in Tura Campus, i.e. English and Garo. All the departments conducted MA and PhD Programmes during 2014-15. Some departments namely Khasi, Linguistics and Hindi also conducted M.Phil Programme during the year. Faculty members of the School were actively involved in teaching, guiding research and other academic activities. Each department has its own identified thrust areas of research.

Many faculty members of the departments under the School have produced a large number of research papers in professional journals and contributed chapters to a number of books. They also have edited and written books and presented papers in seminars and conferences. A number of faculty members have been invited as Resource Persons also to Chair sessions in seminars, conferences, workshops and Refresher Courses within and outside NEHU. Some departments also organized study tours for students. Several departments have organized seminars and workshops. The School has made significant progress in diverse research fields.

DEPARTMENT OF ENGLISH

Head : Prof. Esther Syiem,
Telephone : 0364-2723503; 9436336158 (M)
E-mail : esthersyiem17@yahoo.co.in
Faculty :

Designation	Name and Qualification	Specialization
Professor	Esther Syiem PhD	American Literature; Modern Fiction; Folk Literature
	Moon Moon Mazumdar PhD, DDE	Modern British Literature; Women's Writing; Translation; Tagore Studies
	Sukalpa Bhattacharjee PhD	Critical Theory; Gender Studies
	Mala Renganathan PhD	Drama/Theatre (American & Indian); Indian Fiction in English; Women's Writing
	Utpala G. Sewa PhD	British Poetry/ Fiction
	Jyotirmoy Prodhani PhD	Theatre; Ethnic Studies; Translation
Associate Professor	Kynpham Sing Nongkynrih PhD	Poetry; World Poetry in Translation
	Nobonita Ganguly MA	Modern British Fiction
	Nola Syiem MPhil	British Drama 16 th -17 th Century

School of Humanities

	Ngangom Rabindra Singh MA	Indian Writing in English; World Lit. in Translation; Modern Poetry
Assistant Professor	Lang Kupa K. War MA	Modern Fiction
	Suranjana Choudhury MPhil, PhD	Cultural Studies; Gender Studies
	Rimi Nath MA	Indian Writing in English; South Asian Diasporic Fiction
	Somjyoti Mridha MPhil	Indian English Literature

Thrust Areas of Research:

New Literatures in English including South Asian diasporic fiction in English; Literature in English and Translation from North-East India and other parts of the world; Comparative Literature; Gender, Ethnic and Culture Studies through texts and narratives; Theatre Studies with special reference to the theatre traditions of North East India.

Brief Statement of Academic Activities:

The Department, in collaboration with the National School of Drama, New Delhi, organised the first *Theatre Appreciation Course* in Meghalaya from 21st- 28th April 2014. The renowned theatre personality - Kanhai Lal and his wife Savitri- were among the resource persons who conducted the course. The highlight of the event was a public performance of their play.

The Department organised a talk on *The Diversity of Indian Languages* by Prof. Ganesh

Devy, Chair, People's Linguistic Survey of India and Director, Bhasha Research Centre, Baroda on 22nd May, 2014.

The Department, in collaboration with Sahitya Akademi, New Delhi, organised a *Meet the Author* Programme with Temsula Ao on 17th October 2014.

The Department conducted a Refresher Course from 16th March, 2015 – 5th April, 2015 with Dr. K. S. Nongkynrih as the Coordinator. The Theme of the Refresher Course was *Text and Hypertext: Genres, Meaning and Interpretation*.

The Department invited two film makers from Bombay, Ms. Asawari Jagushte and Ms. Niharika Negi, to interact with the Fourth Semester students on 20th March, 2015. They screened their work and spoke about the challenges of making films.

Students' Profile

Enrolment Capacity: M.A- 52Ph.D. – Variable

Degree	SC	ST	GEN	OBC	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
M.A.	-	47	6	-	15	38	33	20	53
Ph.D.	-	2	4	2	2	6	2	6	8

Degrees Awarded

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
M.A.	-	41	2	12	31	21	22	43
Ph.D.	-	2	3	-	3	2	3	5

Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Priya Raghav	Personal Narratives: Interpreting Select Writings by 'Women of Colour'.	Prof. S. Bhattacharjee
Gayreen Lyngdoh	The Journey to The Self: A Study of the Women Characters in the Select Novels of Pearl S. Buck and Amy Tan	Prof. E. Syiem
Soma Gupta	Resistance to Oppression: A Study of Mahasweta Devi's Select Works	Prof.M. Renganathan

School of Humanities

Ellerine Diengdoh	The Songwriter as Poet: The Aural Poetry of Van Morrison.	Dr. K.S. Nongkynrih
Fathema Begum	Representation of Women in Girish Karnad's Plays: A Study.	Prof.M. Renganathan

Placement of Students

Rajiv Gandhi National Fellowship – 1

JRF – 3

NEHU Non-NET Fellowship – 4

Courses Conducted

Postgraduate: M.A

Semester-I

ENG: C 101 Poetry-I, ENG: C 102 Fiction-I, ENG: C 103 Drama-I, ENG: C 104 Literary Theory & Criticism-I, ENG: C 105 American Literature-I.

Semester-II

ENG: C 106 Poetry II, ENG: C 107 Fiction II, ENG: C 108 Drama II, ENG: C 109 Literary Theory & Criticism II, ENG: O 110 Commonwealth Literature (Option A), World Literature in Translation (Option B).

Semester-III

ENG: C 111 Poetry III, ENG: C 112 Shakespeare I, ENG: C 113 Literary Theory & Criticism III, ENG: O 114 American Literature II (Option A), ENG: O 114 Modern Indian Drama (Option B), ENG: O 115 Indian Fiction in Translation (Option A), Women's Writing (Option B).

Semester-IV

ENG: C 116 Fiction III, ENG: C 117 Drama III, ENG: C 118 Shakespeare II, ENG: C 119

Literary Theory & Criticism IV, ENG: C 120 Environment & Indian Writing in English.

M.Phil/Ph.D. Courses

ENG 503 (Option D) The Literature of North-East India (4 Credits).

ENG 501 Research Methodology (4 Credits).

ENG 502 Research Writing and Presentation (4 Credits).

ENG 503 (Option G) India in Twentieth Century Narratives: English Writings and Translations (4 Credits).

Seminars / Conferences / Symposia / Extension Programmes etc.

Attended

Esther Syiem

Presented a paper entitled "African American Folk Literature" on 5th October, 2014 at a *Regional Seminar on "Ka Translashon ha ka Literature Khasi"* organized by the Dept of Khasi, Shillong College, Shillong.

Presented paper entitled "Translation in the Oral and the Issues Thereof" on 22nd November, 2014, at a *National Seminar on Translation: Transcending Boundaries* organised by Shillong College, Shillong.

Presented a paper on 30th January, 2015 entitled "Being a Writer Being a Woman" at the All India Women Writers' Meet in Bhopal organised by Sahitya Akademi, New Delhi.

Presented a paper entitled "Writing Literary History: The 'Oral Resistant'" on 19th February, 2015, at *Maheswar Neog Seminar on Figurations of India's Northeast: Cultures, Histories, Worldviews* organized by the Nehru Memorial Museum and Library, New Delhi.

Sukalpa Bhattacharjee

Presented a paper entitled "Body-Reparation-Invention: Cixous and Derrida on Feminine Writing" at the *International Conference on Philosophy, Language and the Political* organized at JNU, New Delhi (10- 12 December, 2014).

Presented a paper entitled "Reading Dickens in Our Times: Some Issues and Debates" on 22nd January, 2015 at UGC-Sponsored *National Seminar on Society and Representation: A Reading of the Texts of Charles Dickens with Contemporary Relevance* at G.C. College, Silchar.

Presented a paper entitled "The Construction of Gendered Subjectivity in Dalit Writings: Agency and Representation" on 27th February, 2015 at the ICPR-Sponsored *National Seminar on Dalit Epistemology and Feminism* organized by the Department of Philosophy, Jadavpur University.

Presented a paper entitled "Theorizing Tribal Literatures in Northeast India: Identities, Politics and Representation" on 5th March, 2015 at the *National Seminar on Emergent Identities: Its Literary Representations* organized by the Department of English, Mizoram University.

Presented a paper entitled "The Social Construction of Skill: A Gendered Perspective" on 26th March, 2015 at a *National Seminar on Youth & Skill Development in North-East India* organised by ICSSR-NERC in collaboration

with the Centre for North East, VVGNI at ICSSR-NERC Complex, NEHU Campus, Shillong.

Jyotirmoy Prodhani

Presented a paper entitled "The Modernity Project of India and its Anxieties: Jati, Jan-Jati and the Ambivalences of Jansampada" at the *National Seminar on Theory Today: Jati, Jan Jati and Jansampada* organised by the Shillong Campus of EFLU in collaboration with Forum on Contemporary Theory, Vododara, and CIL, Mysore (8-9 August, 2014).

Presented a paper entitled "The Perpetual Postponement of Post-ethnic Interface: The Abandoned Final Plans for NE India" at the *National Seminar on Imaging and Imagining the North-East: Discourses on North-Eastern Literature, Culture, Creativity and Criticism* organized by the Department of English, Tripura University in collaboration with the North-East Writers' Forum (22-23 August, 2014).

Presented a paper entitled "Politics of Performance: The Changing Ethos of Sites and Obsessions for Enactments" at the *International Seminar Global and Local Perspectives* organized by the Department of Cultural Studies, Tezpur University (7-9 February, 2015).

Resource Person at the *National Seminar on "Teaching of English and Development of Language and Communication Skills at the Higher Secondary and Degree Levels: Hurdles and Exit Routes* organized by the Department of English, P.B. College, Gauripur, Assam (12-13 March, 2015).

Presented a paper entitled "Visiting Sheelabhadra as a Reader and a Translator: Encountering the Urban Folklorist" at a

National Seminar on Regionalism in the Writing of Sheelabhadra and Thomas Hardy: A Discourse Beyond Region organised by the Department of Assamese, P.B. College, Gauripur, Assam (20-21 March, 2015).

K. S. Nongkynrih

Resource person for two sessions - "Myth, Society and Storytelling" and "Shadows of Self: Being a Poet in NE" of the *Guwahati Lit Fest* held at Guwahati (27-29 December, 2014).

Resource person in a panel discussion on "Ki Khana Parom ki Pynpaw İaka Pyrkhat ka Jaitbynriew" (Folklore as the Exponent of a Community's Thought), at the seminar on "Ki Khana Parom ha ki Sur Poetry" (Folktales in Verse) on 20th February, 2015 organised by the All India Radio, Shillong, at the Don Bosco Youth Centre, Shillong.

N. Ganguly

Presented a paper entitled "Between Words and Worlds: A Critical Study of Omprakash Valmiki's '*Jhootan*'" at the *International Conference on Translation Studies: Theory and Praxis and Comparative Literature* organised by Shakespeare Society of Eastern India and Tagore-Gandhi Institute for Cultural Studies and Service-Learning at the Shakespeare Society of Eastern India Conference Hall, Calcutta (18- 20 April, 2014).

Presented a paper entitled "Dalit Identity: The Politics of Representation" at the *National Seminar on Emergent Identities: Its Literary Representations* organized by the Department of English, Mizoram University (5- 6 March, 2015).

Somjyoti Mridha

Presented a paper entitled "Exile and its Aftermath: A Study of Kashmiri Pandit

Narratives" at the Researches at *Work Conference on Literature and Culture; Expanding Horizons: New Paradigms of Knowledge Production* organized by the Centre for Comparative Literature, School of Humanities, University of Hyderabad, Hyderabad (10-12 September).

Publications

Research Papers/ Articles

Bhattacharjee, Sukalpa. (2014). Review Article *In Man and Society: Journal of North-East Studies*, Summer Volume 2014. David R. Syiemlieh (Ed.). *On the Edge of Empire: Four British Plans for North-East India (1941-1947)*, 167-172.

Prodhani, J. (2015). Poetry from India's North East: The Contemporary Voices. *In GUNEIS Journal (Annual Interdisciplinary Journal of Gauhati University North East India Studies)*, 2nd Issue, 2015, 1-9. ISSN 2347-2669.

Prodhani, J. (2014). Rituals of Eschatology and the Anxiety of God: Locating Meaning in the Outskirts of Agraharas. *In Indian Fiction in Translations: Issues and Explorations*. Dwijen Sharma (Ed.) MRB Publications, Guwahati, 2014. 53-67. ISBN 978-81-924953-5-4.

Prodhani, J. (2014). Book Review of S.T. Ngaihte's *Identity and Politics in Manipur* *In The NEHU Journal*, Vol. XII No. 1 January-June 2014, 110-113 , ISSN 0972-8406

Choudhury, S. (2014). Pangs of Being Un-Homed: Engagements with Displacement and Relocation in Select Partition Narratives from Bengal *In The NEHU Journal* (Vol.XII, No.1) ISSN.0972-8406 January-June, 2014, 1-16

Nath, R. (2014). The Postcolonial ambit in Mohsin Hamid's *Moth Smoke*: implications in a

country like Pakistan. *English Forum: Journal of the Department of English*. 3:28-36.

Published Abroad

Nath, R. (2014). Introduction: South Asian Migration Updates. In *The Age of Asian Migration: Continuity, Diversity and Susceptibility* (Volume 1). Yuk Wah Chan, David Haines and Jonathan H.X. Lee (Eds.). Cambridge Scholars Publishing, U.K.: Chapter 23, 374-381.

Nath, R. (2014). Migration from South Asian Nations (Pakistan and Nepal): A Literary Perspective. In *The Age of Asian Migration: Continuity, Diversity and Susceptibility* (Volume 1). Yuk Wah Chan, David Haines and Jonathan H.X. Lee (Eds.). Cambridge Scholars Publishing, U.K.: Chapter 24, 382-395.

Books/ Book Chapter/Proceedings

Syiem, Esther. (2014). *Ka Jingiamareh Kob ki Wah*. Tulika Publishers Chennai.

Syiem, Esther. (2014). *Race of the Rivers*. Tulika Publishers Chennai.

Syiem, Esther. (2014). (Trans. - Adi folktales from English into Khasi) *Ka Kor Thaiñ Jaiñka Hambreelmai*. Tulika Publishers, Chennai

Bhattacharya, Arnab., Renganathan, Mala. (Eds.). *The Politics and Reception of Rabindranath Tagore's Drama: The Bard on*

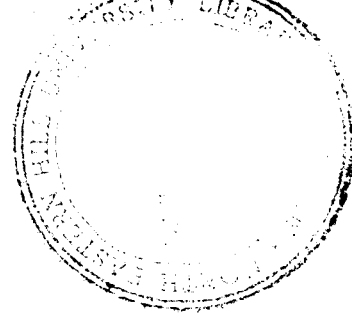
the Stage. New York and London: Routledge (Taylor & Francis), 2015. ISBN: 978-1-138-80462-3 (hbk).

Renganathan, Mala., Bhattacharya, Arnab. (2015). Introduction: The Drama of Rabindranath Tagore (1861 – 1941). In Arnab Bhattacharya & Mala Renganathan (Eds.) *The Politics and Reception of Rabindranath Tagore's Drama: The Bard on the Stage*. Routledge (Taylor & Francis), New York and London: 1-17.

_____. Drama as Pedagogy: Rabindranath Tagore's *The Post Office*. In Arnab Bhattacharya & Mala Renganathan. (Eds.) *The Politics and Reception of Rabindranath Tagore's Drama: The Bard on the Stage*. Routledge (Taylor & Francis), New York and London: 157-64.

Renganathan, Mala. (2015). Translation & Indian Drama: A Postcolonial Perspective. In *Drama: Theory, Text and Performance*. Dipendu Das, Anup Kumar Dey & Saugata Kumar Nath (Eds.). Jnanada Prakashan (P&D), New Delhi: 229-46.

Renganathan, Mala. (2015). Contemporary Indian Drama: Trends, Perspectives and Problems of Transition. In Gitali Saikia & Subrat Jyoti Neog (Eds.). *Indian Drama: Tradition and Transition*. Books Way, Kolkata (1st edn., 2014): 17-29.



Research papers

Published in India

Jyotirmoy Prodhani

Research Projects

New Research Projects

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1.	Major Research Project Gendering Terrorism in South Asian Narratives in the post 9/11 Era: A Select Study of Indian-Pakistani-Afghan and Srilankan Writings in English	Mala Renganathan	UGC, New Delhi	Rs. 12,00,000

Ongoing

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1	E Content for the e-PG Pathshala Project of UGC and MHRD as part of the National Mission for Education-ICT	Jyotirmoy Prodhani Coordinator (Performance Studies component)	UGC	
2	Module on "Social and Political Philosophy" for UGC e-Pathshala Project of UGC and MHRD as part of the National Mission for Education-ICT	Sukalpa Bhattacharjee Course Content Writer Tagore's <i>Swadeshi Samaj</i> and the Critique of Nation	UGC	

Completed during the Year

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
3	Module on for UGC e- Pathshala Project of UGC and MHRD as part of the National Mission for Education-ICT	Mala Renganathan Content writer Women's Theatre in India		
4	IGNOU Certificate & Diploma Courses on Folk Performances of North East India	Mala Renganathan Content Editor North East Folk Performance Genres		

Academic Collaborations:**Rimi Nath**

Member Editorial Board: *The Age of Asian Migration: Continuity, Diversity and Susceptibility* (Volume 1). Cambridge Scholars Publishing, U.K. (2014).

Other Activities:**Esther Syiem**

Moderated a session "Are Female Literary Writers Generally Unappreciated?" and participated in a discussion on "Making Verse Reading" on 24th May, 2014 at the CALM Literary Festival at Shillong.

Interviewed Prof. David Syiemlieh (on the subject of his book: *On the Edge of Empire Four British Plans for North East India, 1941 – 1947*), for the North-East Bookshelf Programme of the AIR in Shillong on 26th May 2014.

Participated in a poetry reading session at "Ensemble: A Poetry Festival", (19-21 June 2014) organized by Sahitya Akademi, New Delhi and Dept. of Cultural and Creative Studies, NEHU, at Shillong on 21st June 2014.

Participated in a panel discussion on "Graphic Novels and Comics" on 11 Oct 2014 organized by 18 Degrees Art and Cultural Festival at Shillong (9-11 Oct 2014).

Delivered Keynote Address on 20th Nov 2014 at *National seminar on "Translation: Transcending Boundaries"* organised by Shillong College, Shillong (20-22 Nov 2014).

Participated as Resource Person in *Question Bank Workshop on English Language for Staff Selection Commission (NER)* from 5 – 7 Jan, 2015 at Polo Towers, Shillong.

Participated in a panel discussion on "Literary Commons: Indigenous Literature and the 21st

Century” and a poetry reading session at the Apeejay Kolkata Literary Festival (AKLF) 2015 in Kolkata on 16 January 2015.

Delivered the Valedictory Address at the Young Writers’ Festival on 12 Feb 2015 organized by Sahitya Skademi New Delhi on 11-12 February 2015 in Shillong.

Delivered two lectures on “Literature and the Environment: A Study of Ruskin Bond’s Book of Nature” at the capacity building programme organized by SRC on 26 & 27 Feb 2015.

Sukalpa Bhattacharjee

Delivered a lecture as Resource Person on “Role of Women in Society and Culture” on 3rd of April, 2014 at Academic Staff College, NEHU for an Orientation Course.

Delivered a lecture as Resource Person on 23rd May, 2014 on “Gender and Society” at Academic Staff College NEHU for an Orientation Course.

Delivered an invited lecture called “Trends in Literary Studies” on 23rd August, 2014, organized by the Research Cell of St. Anthony’s College, Shillong, under the aegis of the Internal Quality Assurance Cell (IQAC) as a part of Faculty Development Programme.

Participated as an Invited Resource Person at the *Research Week Phase II Workshop on the theme “New Frontiers of Research in the Contemporary World”* at the Rabindra Bharati University Kolkata (15– 19 September, 2014).

Participated as an invited resource person at the *Research Week Workshop Phase II on “New Frontiers of Research in the Contemporary World”* at the Rabindra Bharati University, Kolkata, (15-19 September, 2014).

Participated as an invited panelist at a programme on “Gender Development”

organized by Women’s College, Shillong on 29th October, 2014.

Chaired a Plenary Session at the *National Seminar on “Social Media and Democratic Discourse”* organized by EFLU, Shillong Campus, on 31st October, 2014.

Chaired an Academic Session at the Three-day *National Seminar on ‘Translation: Transcending Barriers’* organized by the Literary Circle of Shillong College in association with Shillong College Academic Society, on the 23rd of November 2014.

Delivered two lectures on “Tradition Against Itself” at the UGC-Refresher Course, organized by the History Department NEHU on the 1st and 2nd of December 2014.

Chaired Plenary and Academic Sessions at the UGC-Sponsored *National Seminar on “Society and Representation: A Reading of the Texts of Charles Dickens with Contemporary Relevance”* on 23rd January, 2015 at G.C. College Silchar.

Delivered lectures on “Critical Reading and Writing” at the ICSSR-NERC at a two-week long *Workshop on “Capacity Building Programme for Faculty Members in Social Science”* on the 20th Feb 2015.

Delivered lectures on “Critical Reading and Writing” at the ICSSR-NERC 2 Week long *Workshop on “Capacity Building Programme for Faculty Members in Social Science”* on 20th Feb 2015.

Mala Renganathan

Delivered as resource person two invited lectures on “Capacity Building Through Performance” in the *Workshop on Capacity Building organized by the Department of Management*, NEHU, Tura Campus (27 - 28 November, 2014).

Delivered as resource person one invited lecture on "Language Problems in Academic Writing" in the ICSSR *Workshop on Capacity Programme for Social Science Faculty Members*, NERC-ICSSR, Shillong (18 March 2015).

Member, Editorial Board, IJELLS, Tirunelveli.

Jyotirmoy Prodhani

Delivered an extension lecture on "Understanding Modernism" at Women's College, Shillong, on 7th October, 2014.

Chaired the inaugural session and an academic session of the *National Seminar on "Koch Rajbongshi History and Culture"* organised by Koch Rajbongshi Cultural Society, Kokrajhar, Assam, held at New Delhi on 3rd Nov., 2014.

Delivered an extension lecture on "North East Poetry" at the Dept. of Assamese, Gauhati University, Guwahati, on 23 March, 2015.

Member of Research Advisory Committee (RAC) and the BPGS, Dept. of English, Tripura University, Agartala.

K.S. Nongkynrih

Nongkynrih, Kynpham Sing. (2014). Seeking Shillong's Spirit of Night. *In Day's End Stories: Life after Sundown in Small-Town India*. Subuhi Jiwani (Ed.). Westland/Tranquebar Press, New Delhi: Chapter 4, 51- 68.

Nongkynrih, Kynpham Sing. (2014). "Stray Thoughts on Award Night"; "The Shadow"; "Elegy for Mother"; and "Jilebi". *Muse India*. 59: Jan-Feb 2015.

Published an article titled "Ki Samla bad ka Saiñ Pyrthei" ("Youths and Politics") in the

Silver Jubilee Souvenir of the Khasi daily, Mawphor.

Published an article titled, "Ka Biria ha ki Poitri Khasi" ("Humour in Khasi Poetry") in the Silver Jubilee Souvenir of Ka Seng Biria u Khasi (Khasi Humorous Society), SBUK.

Participated in a radio talk on the poetry of Soso Tham at the studio of the All India Radio Shillong on 18 December 2014.

N. Syiem

Resource Person in Question Bank *Workshop on English Language for Staff Selection Commission (NER)* from 5-7 Jan 2015 held at Polo Towers, Shillong.

Ngangom R. Singh

Panelist in a discussion titled "Poetry in Times of Trauma" organised by the Sahitya Akademi in Shillong on 19 June 2014.

Presented poems at Abhivyakti, a literary program organised by the Sahitya Akademi in Guwahati on 24 August 2014.

Presented poems at the All India Poetry Festival in Imphal, organised by the Sahitya Akademi on 22 December 2014.

Resource Person in the session, Literary Commons: Indigenous Literatures and the 21st Century, Apeejay Kolkata Literary Festival 2015, on 16 January 2015.

Suranjana Choudhury

Participated in an Orientation Programme organised by the Academic Staff College of the Jadavpur University, Kolkata, from 25th August to 22nd September 2014.

DEPARTMENT OF ENGLISH (Tura Campus)

Head : Dr. Dwijen Sharma
Telephone : 8414075571
E-mail : englishtura.nehu@gmail.com
Faculty :

Designation	Name and Qualification	Specialization
Professor	Sujata Gurudev, MA, MPhil. & PhD (NEHU)	American Lit.; Modern British Fiction; Modern Poetry
Associate Professor	Angela R. W. Ingty, MA (Gauhati Univ.), MPhil (Madras Christian College), PGDTE (CIEFL, Shillong), PhD (NEHU)	Language & Linguistics, British Poetry; Renaissance Drama
	Dwijen Sharma, MA, MPhil., PhD.(Dibrugarh)	Indian English Lit.; Literary & Cultural Theory
Assistant Professor	Raj Shekhar Thakur, MA (Patna University)	Literary Theory & Criticism; ELT; Modern Drama; British Poetry
	Ramona M. Sangma, MA. & PhD. (NEHU)	Postcolonial Lit.; Literary Theory & Criticism; Ethno-Literature
	Jova C. Marak MA. & PhD.(NEHU)	Indian Writing in English; Women Writings, Ethno-Lit.

	Namrata Pathak, MA. (Gauhati Univ.), MPhil. & PhD. (EFLU)	British & Continental Drama; Literary Theory & Criticism; Gender Studies
	L K Gracy, MA. & PhD. (NEHU)	British Fiction; British Poetry

Thrust Areas of Research

Cultural Studies and Ethnic Literature, Translation Studies, Dalit and Marginal Literature, Indian English Writings, Postcolonial Literature, Queer Studies, Women and Gender Studies, Theatre Studies, Green Studies, Western Literary Theories and Indian Poetics.

Brief Statement of Academic Activities

The Department is imparting MA (Literature Course) and PhD. programme in English Literature. Student Seminar has been introduced in the Department to orient the Master's Level students towards serious research. The Department, in collaboration with the ASC, conducts Refresher courses for the

college and university teachers. A Research Journal *Protocol*, a journal for translation, creative and critical writings, is published by the Department.

Scholars and professionals from the areas of mass media, graphic design, anthropology, and film studies are invited to the Department to present talks and interact with the students. Seminars and Workshops have been organized regularly. Regular film and audio-visual shows are being held to give supplementary exposure to the students. Further, the Department has produced plays to promote socio-cultural awareness among students.

Students' Profile

Enrolment Capacity: M.A. – 33Ph.D. – Variable

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
M.A.	01	28	03	03	29	29	03	32
Ph.D.	01	02	03	02	03	03	02	05

School of Humanities

Degrees Awarded

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
M.A.	-	20	02	06	16	20	02	22
M.Phil.	-	-	-	-	-	-	-	-
Ph.D.	01	-	-	01	-	-	01	01

Student Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Gopal Barman	Emerging Dalit Identities of India: A Select Study of Five Autobiographies	Prof. J. Prodhani

Placement of Students

NET: 2

Courses Conducted

M.A., Pre-PhD. Course Work

Educational Tour of Students

Teacher-in-Charge : Mr. Gino Sangma

Places/Institutions visited : Chennai, Bangalore and Mysore

Duration of tour : 15 Days

Purpose of Tour : The main objective of such excursions is to provide exposures to students. Students, by and large, gain an experience of the diversity and vastness of our country; such tours help in promoting inter-cultural dialogue and harmony.

Seminars / Conferences / Symposia / Extension Programmes etc.

Attended

Dwijen Sharma

Presented a paper entitled “Higher Education at the Crossroads” in a *National Seminar on Higher Education at the Crossroads and Rural Colleges* at Nirmal Haloi College, Assam (6-7 September, 2014).

Presented a paper entitled “Longing to Belong: Rereading Nissim Ezekiel” in a *National Seminar on Nissim Ezekiel and Indian English Literature* at J. N. College, Pasighat, Arunachal Pradesh (9-10 October, 2014).

Presented a paper entitled “Writing the Marginalized: A Study of a few select Indian English Texts” in a *National Seminar on*

Representation of the Marginalized and Indian Writing in English at Falakata College, West Bengal (7-8 November, 2014).

Presented a paper entitled “Everyday Life in Sheelabhadra’s ‘Madhupur Bohudoor’” in a National Seminar on *Regionalism in Sheelabhadra and Thomas Hardy* at P. B. College, Gauripur, Assam (20-21 March, 2015).

Namrata Pathak

Presented a paper entitled “The ‘Women’ in Assamese Marriage Songs: Society, Tradition and Transition” in a National Seminar on *Theory Today: Jati, Janjati and Janasampad* organized by EFLU, Shillong Campus, FCT, Baroda, CIIL, Mysore and Sahitya Akadmi, Delhi (8 – 9 August, 2014).

Presented a paper entitled “‘Insurgency’, ‘Violence’, and ‘Death’ in Assamese Texts: The Politics of Knowledge in the Classroom” in XVII International Conference on *Re-imagining Theory: Towards New Horizons in the Humanities and the Social Sciences* organized by FCT, Vadodara, and the International Lincoln Centre for American Studies, Louisiana State University, Shreveport, USA from (21-24 December, 2014).

L.K. Gracy

Presented a paper entitled “Ecofeminism in India: Vandana Shiva and her Gamut of Writings” in a National Seminar on *Newer Trends in Chemistry and Environment* at Don Bosco College, Tura on 11th December, 2014.

Publications

Research Papers

Published in India

Sharma, Dwijen. (2014). Resistance to Exclusionary Politics: A Reading of Rushdie’s *The Moor’s Last Sigh*. *Pursuits*. 12: 233-41.

Sharma, Dwijen. (2014). Subverting Geopolitical Boundaries: A Reading of Ghosh’s *In An Antique Land*. *Pragati’s English Journal*. 14. 2: 08-12.

Sharma, Dwijen. (2014). Tug-of-War in/for Kashmir: A Reading of Rushdie’s *Shalimar the Clown*. *Reflections*. 13. 1: 117-24.

Pathak, Namrata. (2015). The “Women” in Assamese Marriage Songs: Society, Tradition and Transition. *In Muse India: The Literary ejournal*. Issue 59.

Published Abroad:

Pathak, Namrata. (2015). *Trends in Contemporary Assamese Theatre*. Patridge, Bloomington.

Books / Book Chapters / Proceedings

Sharma, Dwijen. (2014). Miss World Contest: Interplay of Sexuality, Nationalism and Globalisation. *In Globalisation to Glocalisation: A Multidisciplinary Perspective*. Rustam Brahma (Ed.). Akansha Publishing House, Delhi: 238-44.

Funds Received from Agencies including NEHU/UGC

Rs. 1, 00, 000 from ICSSR, New Delhi, for the publication of *Protocol: Journal of Translation, Creative and Critical Writings* published by the Department.

Other Activities

Sujata Gurudev

Co-Editor of the biannual peer reviewed research journal *Protocol: Journal of Translation, Creative and Critical Writings* with ISSN accreditation published by the Department.

Presented three poems- “Butcher Bird”, “Then and Now” and “Doomsday” in the Poetry

Reading Programme organized by the Dept. on 30th April, 2015.

Angela W. Ingty

A member of the Lok Adalat in Tura, West Garo Hills, Meghalaya, since November, 2014.

Delivered a talk on “Offences committed against Women” on 18th May, 2015 as a resource person for Sensitization-cum-Awareness Programme for the MCS and MPS officers of the West Garo Hills, Meghalaya.

Dwijen Sharma

Chaired the 3rd and 4th technical sessions in the National Seminar on Higher Education at the Crossroads and Rural Colleges at Nirmal Haloi College, Assam on (6-7 September 2014).

Chaired the 2nd technical session at the National Seminar on Nissim Ezekiel and Indian English Literature at J N College, Pasighat, Arunachal Pradesh on (9-10 October, 2014).

Chaired 2nd technical session in the National Seminar on Representation of the Marginalized and Indian Writing in English at Falakata College, West Bengal (7- 8 November, 2014)

R.S Thakur

Co-Editor of the biannual peer reviewed research journal *Protocol: Journal of Translation, Creative and Critical Writings* with ISSN accreditation published by the Department.

Delivered lectures on “Myth and Representation” in the Dept. of Garo, NEHU, Tura Campus.

Ramona M. Sangma

Editor of *Protocol: Journal of Translation, Creative and Critical Writings*, the Biannual Peer Reviewed Research Journal with ISSN accreditation (ISSN 0973-9807) published by the Department.

Translated “Simsang” and “Just Asleep” for *Protocol*. 7.1(2013)

Jova C. Marak

Co-Editor of *Protocol: Journal of Translation, Creative and Critical Writings*, the biannual peer reviewed research journal with ISSN accreditation published by the Department.

Namrata Pathak

Co-Editor of *Protocol: Journal of Translation, Creative and Critical Writings*, the biannual peer reviewed research journal with ISSN accreditation published by the Department.

L K Gracy

Co-Editor of *Protocol: Journal of Translation, Creative and Critical Writings*, the biannual peer reviewed research journal with ISSN accreditation published by the Department.

DEPARTMENT OF GARO (Tura Campus)

Head : Dr. Fameline K. Marak
Telephone : 03651- 223107
Email : garodeptnehu@gmail.com, fkmarak@gmail.com
Faculty :

Designation	Name and Qualification	Specialization
Associate Professor	Fameline K. Marak M.A. (Socio., NEHU), PhD.(NEHU)	Folkloristics, Traditional & Modern Poetry
Assistant Professor	Jacqueline R. Marak, M.Ed. (Utkal), PhD.(NEHU)	Fiction Studies
	Dokatchi Ch. Marak M.A. (Garo& Linguistics, NEHU), PhD. (NEHU)	Linguistics
	Crystal Cornelious D. Marak M.A. (Garo, NEHU)	Fiction Studies

Thrust Area of Research

Literature, Language, Folklore, Folk literature, Folk Performing Arts/Creative Arts, A''chik Literature, Literature in Translation, Environmental Studies, Comparative Literature and World Literature including Indian Writing in English.

Brief Statement of Academic Activities

The Department of Garo came into being in August 1996 when NEHU, Tura Campus was created. Since its inception, the Department has been offering M.A. courses. PhD. course work started in the year 2011. In its endeavour

to preserve and promote the rich tradition of Garo language through translation and documentation in areas of Folklore, Linguistics and Literature, the Department perseveres with its research activities in the said areas. Till date, nine scholars have completed their PhD. coursework; of them three scholars are getting ready for their pre-submission seminar; two more scholars were admitted in February,

The Department conducts class seminars regularly to inculcate research interest among the students. Field Studies are also conducted regularly and students are encouraged to make inquiries into the folk literature and culture of

School of Humanities

the people of Garo Hills. As there is a need to preserve and improve the language, literature and culture of the Garos (A'chiks), students are always encouraged to write articles, poems, short stories, essays, etc. Seminars and Workshops are conducted regularly in the Department. Visiting Professors/Fellows and Scholars are invited from other Universities

for class lectures, 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, Translations, Letter Drafting, Rhetoric and Prosody, Basic English pronunciation and Phonetic transcription, etc.

Students Profile

Enrolment Capacities: MA- 33, PhD-Variable

Degree	SC	ST	Gen	Male	Female	Meghalaya	Non Meghalaya	Total
M.A.	-	33	-	6	27	33	-	33
M.Phil	-	-	-	-	-	-	-	-
Ph.D.	-	-2	-	1	1	2	-	2

Degrees Awarded

Degree	SC	ST	Gen	Male	Female	Meghalaya	Non Meghalaya	Total
M.A.	-	21	-	3	18	21	-	21
M.Phil	-	-	-	-	-	-	-	-
Ph.D.	-	-	-	-	-	-	-	-

Courses Conducted

Semester- I

GAR-101-Core: History of Garo Language and Literature.

GAR-102-Core: Poetry-I-Sacrificial Rites & Invocations.

GAR-103-Core: Drama-I.

GAR-104-Core: Linguistics-I: Basic Concepts,

Definition and Scope of Linguistics, Garo Morphology & Semantics.

GAR-105-Core: Environmental Studies.

Semester- II

GAR-201-Core: Fiction-I.

GAR-202-Core: Literature in Translation.

GAR-203-Core: Prose-I.

GAR-204-Core: Linguistics-II- Phonetics & Phonology.

GAR-205-Open: Linguistics-III – Tibeto-Burman Languages of the North-East (Classification and Bodo group of Languages).

Semester- III

GAR-301-Core: Literary Theory & Criticism.

GAR-302-Core: Epic as a Literary Genre.

GAR-303-Core: Drama-II.

GAR-304-Open: Linguistics IV- Language & Society.

GAR-305-Open: Folklore-I.

Semester- IV

GAR-401-Core: Poetry-II: Poetry from 1881 to 1994.

GAR-402-Core: Folklore-II-Garo Folktales, Folksongs, Proverbs & Sayings.

GAR-403-Core: Tragedy as a Literary Genre.

GAR-404-Core: Indian Literature in English.

GAR-405-Core: Modern Poetry.

PhD Courses

GAR-501- Research Methodology.

Gar- 502 Seminar paper.

Gar-503- Literary Themes, Literary Theory and Criticism, Language and Folklore.

Academic Study Tour

Field Trip of Students:

Field Trips: Field trips ranging from two to four days are conducted for Linguistics and Folklore students during each semester in course of which they are encouraged to observe the rituals and festivals of the people and to collect data

before the class seminars/ assignments.

Educational Tour:

Name of the Teacher-in-charge : Dr. Dokatchi Ch. Marak

Places / Institutions visited : Kolkata The important places visited by the students were Victoria Memorial Museum, Botanical Garden, Eco-Park, Nicco Park, Digha Beach, Serampore College etc.

Duration of the tour : 10 days w.e.f. 2nd Feb.- 11th Feb. 2015

Purpose of visit : The purpose of the academic study tour was to expose the students to life and world outside their University and to make them aware about the life and culture of the people outside their own. Along with these, the tour also aimed to provide an opportunity to the students to visit other Universities and to gain new experiences by interacting with students from those Universities.

Seminars / Conferences / Symposia / Extension Programmes etc.

Organized

K. Marak Dr. Fameline

As a Joint Secretary organized a National Seminar entitled on 'Situating Tura Town from West Garo Hills', in the Department of History and Archeology, Department of Garo in collaboration with the A'chik Literature Society, Tura (5-7 June, 2014).

As a Joint Secretary organized a National Seminar-cum-Conference on "Coinage and Economic: Continuity and change in North-East India" in the Department of History & Archaeology and Department of Garo, NEHU, Tura Campus, Tura in collaboration with the Archaeological Survey of India, New Delhi (18-20 December, 2014).

Crystal Cornelious D. Maraak

Organised as the Secretary of the A·chik Literature Society, Tura of the Seminar on “Tom·tomanikoMaikaiA·chikA·songnaRa·banaMan·gen?” on 15 November, 2014 at Christian Girls Higher Secondary School, Tura.

Organized as the Secretary of the A·chik Literature Society, Tura the “10-Day Training Workshop on Indigenous A·chik Musical Instruments Dimchrang and Sarenda” by the A·chik Literature Society, Tura sponsored by NEZCC Dimapur (1-11 December, 2014).

Organizing Member in the National Seminar cum Conference entitled, “Coinage and Economic: Continuity and change in North-East India” organized by the Department of History & Archaeology and Department of Garo, NEHU, Tura Campus, Tura in collaboration with the Archaeological Survey of India, New Delhi on 18th - 20th December, 2014.

Attended

K. Marak Dr. Fameline

Presented a paper entitled, “Tracing the A·chik Migration through Oral Tradition” in the National Seminar organized by Department of History and Archaeology and Department of Garo, NEHU, Tura Campus in collaboration with the A·chik Literature Society, Tura, Meghalaya (5-7 June, 2014).

Resource Person at a Seminar on “Garo Literature”, organized by the Tura Government College, Tura, on 11th August, 2014.

Participated in the “North-Eastern Workshop on Latex : a Document Preparation System” organized by the Department of Computer Applications, North Eastern Hill University, Tura Campus, Tura (16- 17 September, 2014).

Participated in the Workshop on Approaches to Social Science Research organized by Department of Education, NEHU, Tura Campus on 25th September, 2014.

Presented a paper entitled “The Role of PhukanNengminja in the Freedom Movement of India” in the National Seminar on ‘The Role of Indigenous people in the freedom movement of India with special reference to Bengal, Bihar, Jharkhand, Odisha and North-East Region’ organized by the Asiatic Society, Kolkata (19-21 November, 2014).

Resource Person in the National Writers’ Meet organised by the All India Poetess Conference, Meghalaya Chapter at St. Edmund’s College, Shillong and sponsored by the Sahitya Akademi, New Delhi, NEEPCO and St. Edmund’s College, Shillong (27-28 November, 2014).

Presented a paper on ‘The Use and Practices of Barter system in Garo Hills’ in the National Seminar on the theme, “Coinage and Economic: Continuity and change in North-east India” organized by the Department of History & Archaeology and Department of Garo, NEHU, Tura Campus, Tura (18-20 December, 2014)

Participated and presented three poems (own creations) in the All India Poetess Conference, Kalaburagi/ Gulbarga, Karnataka (13- 15 March, 2015).

Participated as Resource Person in the Workshop/Programme for 8 Days (3+5) entitled “Workshop for Compilation, Translation and Adaptation of Folk Tales of North-East, Phase I & II” held from 12th to 14th January, 2015 and 2nd to 6th February, 2015 organized by North East Regional Institute of Education, NECRT, Umiam, Barapani, Meghalaya.

Jacqueline R. Marak

Presented a paper on 'Tura: The Headquarters of Garo Hills' in the National Seminar on the theme, "Situating Tura Town from West Garo Hills", organized by the Department of History and Archeology and Department of Garo in collaboration with the A'chik Literature Society (5th – 7th June, 2014).

Presented a paper on, 'Entrepreneurship on Indigenous Knowledge among the Garos' in the International Seminar on the theme, "Entrepreneurship in the Past Changing Society: The Socio Economic," organized by the Department of Management, NEHU, Tura Campus, Tura (26th – 27th June, 2014).

Participated in the Workshop on, "*Approaches to Social Science Research*" organized by the Department of Education, NEHU, Tura Campus, Tura on 25th September, 2014.

Participated in a seminar on the theme, "Tom' to maniko Maikai A'chik A'songnaRa' banaMan' gen?" organized by the A'chik Literature Society, Tura at Christian Girls Higher Secondary School, Tura on 15th November, 2014.

Presented a paper on "Micro-finance: A Source of Living in Garo Hills" (Joint Paper) in the National Seminar on theme, 'Emerging Trends of Financial Services in India' organized by the Department of Management, Tura Campus, Tura (20th -21st November 2014).

Presented a paper on 'The use and Practices of Barter system in Garo Hills' in the National Seminar on the theme, "Coinage and Economic: Continuity and change in North-east India" organized by the Department of History & Archaeology and Department of Garo, NEHU, Tura Campus, Tura in collaboration with the

Archaeological Survey of India, New Delhi (18th -20th December, 2014)

Participated and presented poems (own composition) in the All India Poetess Conference, Kalaburagi/ Gulbarga, Karnataka (13th -15th March, 2015).

Dokatchi Ch. Marak

Presented a paper titled 'Extent of Multilingualism in the Localities of Tura town- A Case Study' in the National Seminar on the theme, "Situating Tura Town from West Garo Hills" organized by the Department of History & Archaeology and Department of Garo, NEHU Tura Campus, Tura (5th -7th June 2014).

Participated in the Workshop on, "*Approaches to Social Science Research*" organized by the Department of Education, NEHU, Tura Campus, Tura on 25th September, 2014.

Presented a paper titled Micro-finance: A Source of Living in Garo Hills" (Joint Paper) in the National Seminar on the theme, "Emerging Trends of Financial Services in India" organized by the Department of Management, Tura Campus, Tura (20th-21st November 2014).

Presented a paper titled "The Use and Practices of Barter System in Garo Hills" in the National Seminar on the theme, "Coinage and Economy: Continuity and change in North East India" organized by the Department of History & Archaeology, and Department of Garo, NEHU Tura Campus, Tura in collaboration with the Archaeological Survey of India, New Delhi (18th-20th December, 2014).

Participated and presented poems (self-composed) in the All India Poetess Conference, Kalaburagi/ Gulbarga, Karnataka (13th-15th March, 2015).

Crystal Cornelious D. Marak

Attended the *National Symposium on, "Role of Logistics and Supply Chain Management in the Development of North- East India"* organized by Department of Management, NEHU Tura Campus, on the 23rd May, 2014.

Presented a paper on 'History of National Seminar on the theme, "Situating Tura Town from West Garo Hills" organized by History and Archaeology Garo Hills as Reflected in the Novels of PrabodhM. Sangma' in the Department and Garo Department in collaboration with A'chik Literature Society, Tura (5th-7th June, 2014).

Presented a paper on, 'A'chikku Sea-JotanikoMaikaiA'bachenggen' at the Seminar on the Garo Literature organized by Tura Government College, Tura on 11th August, 2014.

Participated in the Workshop on, "Approaches to Social Science Research" organized by the Department of Education, NEHU, Tura Campus, Tura on 25th September, 2014.

Research Projects

Ongoing:

Sl. No.	Title of Project	Pi/Co-Pi	Funding Agency	Amount
1	"A Study on Identification of Local Dialects and Possibility of Developing Special Primers for Each Dialect"	Dr. Fameline K. Marak	State Resource Centre, NEHU, Shillong	Rs.50,000/-

Awards /Honours/Recognition

Fameline K. Marak

Received "Sarojini Naidu Award" on 14th

Participated in the Panel Discussion on the topic, "*Journey through Garo Literature*" at Shillong, organized by the Govt. of Meghalaya, the Department of Art & Culture, Shillong on 13th December, 2014.

Publications

Marak,Jacqueline.R, 'Gasper, Balthazar aro Melkior', in the Annual magazine *Mikaoa* published by the Garo Graduates' Union, Tura, 2015, 42-4.

Marak.Crystal.C.D. "Dr. Obestone B. Marak", in the Annual magazine *Mikaoa*, Twenty- Ninth Issue published by Garo Graduates Union, Tura, 2014, 53-54.

Marak.Crystal.C.D."A'chikku Sea-JotanikoMaikaiA'bachenggen" in the Annual magazine *Mikaoa*, Twenty- Ninth Issue published by Garo Graduates Union, Tura, 2014, 75-76.

Marak.. Dokatchi.C.. '*The Languages of Meghalaya*',PLSI Vol. 19. Part-II- Garo, Black Swan Publishers, New Delhi, 2014.

March, 2015 at All India Poetess Conference at Gulbarga, Karnataka, India.

Other Activities:

Faculty Members, 1st & 3rd Semesters Students M.A. (Garo/2014) and Research Scholar of the Department participated in Category C (Garo) in the 5th Meghalaya Poetry Writing Competition organized by the All India Poetess Conference Meghalaya Chapter

.Ms. Dorothy R. Marak (Research Scholar), Mr. Colnat B. Marak (Research Scholar) and Miss. Balkamchi B. Marak (1st Semester) won the 1st, 2nd and 3rd positions respectively. The winners

were honoured in the National Writers' Meet (27-28 November, 2014) at St. Edmund's College, Shillong.

Jacqueline R. Marak published a poem titled, 'Te'"tengkol', in the Annual *Mikaoa* magazine published by Garo Graduates' Union, Tura, 2015, p. 68.

Dokatchi Ch. Marak published a poem titled, 'Riping Jatni Gam' in the Annual *Mikaoa* magazine published by Garo Graduates' Union, Tura, 2015 p. 46.

DEPARTMENT OF HINDI

Head : Prof. D.K.Choubey
Telephone : 0364-2723514 (O); 9436312134(M)
E-mail : hodhin@nehu.ac.in, dkchoubey@live.com
Faculty :

Designation	Name and Qualification	Specialization
Professor	D.K.Choubey, M.A. - Gauhati University Ph.D - Manipur University.	Medieval Literature & Comparative Study
	M.P.Pandey, M.A., Kashi Vidyapeeth, Varanasi. Ph.D, Kashi Vidyapeeth, Varanasi.	Criticism & Poetics
Associate Professor	B.P.Tripathi, M.A. - J.N.U. New Delhi, M.Phil, & Ph.D, J.N.U. New Delhi.	Modern Poetry
	H. K. Mishra, M.A. – BHU, Varanasi Ph. D. – BHU, Varanasi.	Hindi Journalism & Modern Literature

Thrust Area of Research

The thrust areas of the department are Modern Hindi Literature and Comparative Studies.

Brief Statement of Academic Activities

The Department was selected by MHRD for upgradation in XII five year plan and sanctioned a separate fund for renovation of building, organizing seminars and purchase of books. During the academic year a two-day National Seminar on 'Sahityik Patrakarita ke Badalte Pariprekshya' was organized by Department with the assistance of UGC, Delhi on 27th

March & 28th March, 2015 at Old Guest House, NEHU, Shillong in which dozens of resource persons and scholars from the disciplines of Literature & Journalism presented their papers. In this seminar more than hundred participants like University & College teachers, Research scholars and students participated. This was first event of the kind organised by the department and the sessions were interactive, informative and useful for all concerned.

During this academic year many scholars of national stature such as Prof. Awavdhes Pradhan of Kashi Hindu Vishwavidyalaya,

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Varanasi, Prof. Satyadev Tripathi of S.N.D.T. Women's University, Mumbai, Dr. Ramesh Chandra Shah of Bhopal, Dr. Urmila Shrish of Bhopal and Prof. S. M. Iqbal from Vishakhapatnam visited the Department and interacted with the students and Research Scholars.

One PhD. Scholar and three M. Phil scholars presented their pre-submission seminars in

the Department. Four M. Phil students have been awarded M.Phil degree and three M. Phil students submitted their Dissertations and their results are awaited. During the academic session, the Department engaged two Guest Lecturers to assist in the teaching of M. A. Courses. The Wall Magazine "KHUBLEI" was inaugurated in the Department on 30.9.2014 for students and scholars.

Students' Profile

Enrolment capacity: MA-55, MPhil-10, PhD-Variable

Actual Admission: 30+09+04= 43

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
M.A.	2	13	15	6	24	7	23	30
M.Phil	-	2	7	7	2	2	7	9
Ph. D.	-	-	4	3	1	2	2	4

Degree Awarded

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
M.A.	2	12	9	4	19	4	19	23
M.Phil	-	1	3	3	1	4	-	4
Ph. D.	-	-	-	-	-	-	-	-

Placement of Students

Some of the students who had received their MA, MPhil and PhD degrees have been placed in various posts such as those Assistant Professor, Research Associate, Translator, PGT & TGT

teachers, officials, clerical staff etc. in many institutions. These institutions are Universities, Colleges, Schools and Offices (State and Central Govt., Public & Private Sectors) in different parts of the country.

Courses Conducted

Postgraduate

Semester-I

HINc 101 Hindi Bhasha evam Uska Vikash

HINc 102 Bhartiya Kavyashastra-I

HINc 103 Aadhunik Kavya (Chhayavad tak) evam Paryavaran Parak Kavya

HINc 104 Hindi Gadya Sahitya-I (Natak evam Nibandh)

HINc 105 Aadikalin Hindi Sahitya ka Itihas

Semester-II

HINc 201 Bhaktikalin Kavya

HINc 202 Bhartya Kavyashastra-II

HINc 203 Hindi Gadya Sahitya-II (Upanyas evam Kahani)

HINc 204 Aadikalin Kavya

HINo 205 Prayojanmoolak Hindi

Semester-III

HINc301 Hindi Sahitya ka Madhayakal

HINc 302 Ritikaleen Kavya

HINc 303 Hindi Natak

HINo 304 Anuvad-Sidhant evam Vyawhar

HINo 305 Lok Sahitya

Semester-IV

HINc 401 Hindi Sahitya ka Aadhunikkal

HINc 402 Chhayavadottar Kavya

HINc 403 Paschatya Sahityalochana evam Hindi Aalochana

HINc 404 Bhasha Vigyan

HINc 405 Hindi Nibandh

MPhil / PhD Courses

HIN. C.W- I Anusandhan ki Pravidhi aur Prakriya

HIN. C.W- II Hindi Sahitya ki Vaicharik Prishthbhoomi

HIN. C.W- III Sangosthi evam Samiksha

Seminars/Conferences/Symposia/Extension Programmes etc.

Organised

Awavdhesh Pradhan

Delivered an invited lectures to the students of 2nd and 4th semesters on the topic 'Hindi Navjagran' on 04.04.2014 organized by Kashi Hindu Vishwavidyalaya, Varanasi,

Satyadev Tripathi

Delivered an invited lectures to the students of 2nd and 4th semesters on the topic 'Natak, Rang Manch evam Hindi Cinema' on 4.04.2014 organized by S.N.D.T. Women's University, Mumbai.

Ramesh Chandra Shah

Delivered an invited lectures to the students of 1st and 3rd semesters on the topic 'Kavita Path evam Kavya-Aalochana' on 25.8.2014 in Bhopal.

Urmila Shris

Delivered an invited lectures to the students of 1st and 3rd semesters on the topic 'Kahani Path evam Rachana- Vishleshan' on 25.8.2014, Bhopal.

Wall Magazine "KHUBLEI" was inaugurated in the Department on 30.9.2014 for students and scholars.

S. M. Iqbal

Delivered an invited lectures to the students of 1st and 3rd semesters on the topic 'Hindi ks Sarokar : Shodh-Sandrav' on 16.10.2014, Vishakhapatnam

Two days *National Seminar on 'Sahityik Patrakarita ke Badalte Pariprekshya'* organized by Department of Hindi with the assistance of UGC, Delhi on 27th March & 28th March, 2015 at Old Guest House, NEHU, Shillong.

Attended

D.K. Choubey

Presented a paper at a *National Seminar on the topic "Hindi aur Purvottar ki Bhashaon ka Antassambandh"* on the 9th August, 2014 organized by Central Hindi Directorate and Assam Rashtra Bhasha Prachar Samiti, Guwahati.

Presented a paper at a *National Seminar on the topic "Anchalik Upanyas-Asomiya ke vishesh sandarbh mein"* on the 17th November, 2014 organized by Department of Hindi, Mizoram University, Aizawl with assistance of UGC, Delhi.

Presented a paper at a *National Seminar on the topic "Bhoomandalikaran, Soochana Proudhyogiki evam Hindi"* on the 10th January, 2015 organized by Meghalaya Rashtra Prachar Samiti, Shillong at Gandhi Vidyalaya, Shillong.

Presented an invited paper on the topic "Evaluation system in Higher Education" at a workshop organized by SET, Maharashtra at Pune University, Pune on 25.02.2015.

Presented a paper at a *National Seminar on the topic "The importance of translation and Devnagri lipi"* on 1st March, 2015 organized by

Vishakha Hindi Parishad, Vishakhapatnam in collaboration of Central Hindi Institute, Agra at Andhra University, Vishakhapatnam.

M.P. Pandey

Delivered an invited lecture on the topic – 'Hindi bhasha ke prayog ki samasyayen' in a Hindi Workshop organized by North-Eastern Electric Power Corporation Ltd. in Shillong on 5th December, 2014.

Presented a paper titled – 'Jayasankar Prasad aur unka samay' at a *National Seminar* organized by Sahitya Academy, New Delhi, Kendriya Hindi Sansthan, Agra & Vidyashree Nyas on the topic Jayshankar Prasad ki Srijan Yatra from 14-16 January, 2015 at Varanasi.

Delivered an invited lecture as Resource Person on the topic 'Purvottar bharat mein Hindi ka Vartaman aur Bhavishya ki Sambhavnayen' organized by Power Grid Corporation of India Ltd. on 12th March, 2015 in Guwahati.

H. K. Mishra

Presented a paper in a *National Seminar on the topic 'Pragatishil Chetana aur Bhism Sahani'*, organized by Jawahar Lal Nehru College, Pasighat, Arunachal Pradesh, on 17th -18th October, 2014.

Publications

Choubey, D.K. (2014). Mising Janjati ks Lokgeet, Akshar Parv, Issue- XI : 15-17

_____, 2014, Anchlik Upanyas aur Asomiya Upanyason mein Lok-Chetna evam Parmpara, Madhurakshar : 61-63

_____, (2014). Edited A Refereed Journal 'Anviksha by Department of Assamese, Dibrugarh University, Assam, as a member of Editorial Board, vol. II

_____. (2014). Edited A Periodical 'NEHU Jyoti' of Hindi Cell, NEHU, Shillong as a chairman of Editorial Board, 1st issue.

_____. (2015). Edited A Magazine 'Meghalaya Darpan' of Meghalaya Rashtrabhasha Prachar Samiti, as a member of Editorial Board.

Pandey, M. P. (2014). 'Purvottar ki ansunee aawaj ka dard' Sahitya Vimarsh, International Research Journal, Vol. – 3, issue-1 : 13-20.

_____. (2014). Edited A Periodical 'NEHU Jyoti' of Hindi Cell, NEHU, Shillong as a member of Editorial Board, 1st issue.

Tripathi, B. P. (2014). Seedhi lakeer ke Sadhak, Srijan Kunj : 25-28

_____. (2014). Vaigyanik Bhayukta ke Shilpkar, Research General Mimansa : 21-26

_____. (2014). Yuva Samay ka Antardwandwa, Ananya : 75-80

_____. (2014). Book review 'Anubhutiyan ke Aakash mein Kalpna ki Udan', Pustak Varta, page no. 21-22.

_____. (2014). Book review 'Gadya ka Parcham Sur', Nayee Dhara, page no. 106-110.

Mishra, H. K. (2014). Hindi Patrakarita ka Itihas : Kuchh Notes, Madhurakshar, year- 06, vol. 04 : 46-51

_____. (2015). Vigyapan: Swaroop evam Seemayen, Madhurakshar, year – 07, voll. 01: 64-67.

Book/Book Chapters/Proceedings

Mishra, H. K., Bhagat, J. (2014). *Ajneya : Sandarbh evam Prasang*. Gyan Bharati Prakashan, Varanasi, ISBN 978-93-82967-00-2.

Honours/Awards/Recognitions

D. K. Choubey

"Vishisht Sahitya Sevi Samman" on 28th February, 2015 at Andhra University, Vishakhapatnam by Vishakha Hindi Parishad, Vishakhapatnam, (A.P.)

B.P.Tripathi

"Malkhan Singh Sisaudiya Puraskar-14" on 20th March, 2015 at Aligarh by Vartman Sahitya, Aligarh (U.P.)

Other Activities

D. K. Choubey

Delivered an invited lecture in an Orientation Course on the topic – 'Sahitya ki vividh vidhayen' organized by Kendriya Hindi Sansthan Shillong Centre, on 25.7.2014.

Delivered an invited lecture in a *Workshop on the topic – 'Rajbhasha Karyanvayan ki Chunoutiyan'*, organized by Accountant General Office, Shillong on the 19.8.2014.

Delivered an invited lecture as resource person in *Seminar on the topic – 'Sahitya lekhan evam prakashan ki purvottar mein sthiti'* organized by Meghalaya Rashtra Prachar Samiti, Shilling, at Press club, Guwahati on 25.8.2014.

Delivered an invited lecture in *Workshop on the topic – 'Karyalayi hindi ke anuprayog ki samasyaen'* organized by NE Space organization, Shillong, on 15.9.2014.

Delivered an invited lecture in a inaugural programme of periodical Megh kalash on the topic – 'Purvottar mein hindi ke prachar-prashar ki sthiti' organized by All India Radio, Shillong, on 30.9.2014.

Chaired technical session on 10th January, 2015 a *National Seminar on the topic - 'World Hindi*

Divas’ organized by Meghalaya Rastra Bhasha Prachar Samiti, Shillong.

M. P. Pandey

Delivered an invited lecture as resource person in a Refresher Course on the topic – ‘Importance of Value Education’ organized by Department of Adult & Continuing Education, NEHU in UGC Academic Staff College, NEHU, Shillong on 29th October, 2015.

Delivered an invited lecture as resource person on the topic – ‘Rajbhasha Hindi ki manak

shabdawali ki samasyen avam unka prayog’ in a Hindi workshop organized by Office of the Accountant General (Audit) Meghalaya, Shillong on 27.11.2014.

B. P. Tripathi

Delivered an invited lecture at an Orientation Course on ‘Basic Hindi Grammar’ organized by Kendriya Hindi Sansthan, Shillong, on 22th July, 2014.

School of Humanities

DEPARTMENT OF KHASI

Head : Prof. Streamlet Dkhar
Telephone : 0364-2723301 (O)
E-mail : s.dkhar@rediffmail.com
Faculty :

Designation	Name and Qualification	Specialization
Professor	B.War, MA (NEHU), MA (Delhi U), MPhil (Delhi U), Ph.D. (London)	Linguistics
	S.Dkhar, MA (NEHU), MPhil (NEHU), Ph.D (NEHU)	Khasi Drama
	A.Kharmalki, MA (NEHU), MA (Delhi U), BEd (NEHU), MPhil (NEHU), Ph.D (NEHU)	Linguistics
Associate Professor	D.R.L.Nonglait, MA (NEHU), MPhil (NEHU), PGDTE (CIEFL), Ph.D (NEHU)	Literary Criticism on Khasi Fiction
	B.Bairo, MA (NEHU), Ph.D (NEHU)	Fiction
Assistant Professor	M.M.Khyndeit, MA (NEHU), MPhil (G.U)	Poetry

Thrust Areas of Research

The thrust areas of the Department include Khasi Literature, Literature in Translation, Environmental Awareness in Khasi Literature, Khasi Literary Theory and Criticism, Khasi Culture and Folklore in Khasi Literature.

Brief Statement of Academic Activities

The Department organized a Seminar on “Ki Snap ka Parom Mutdur” on the occasion of the 33rd Anniversary of the Department held on 29th September, 2014.

Students' Profile

Enrolment Capacity: MA-52, PhD-Variable

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
M.A	-	52	-	13	39	52	-	52
M.Phil	-	10	-	01	09	10	-	10
Ph.D	-	03	-	01	02	03	-	03

Enrolment Capacity: P.G.-52, MPhil – 10, PhD – 08

Actual Admission:

Degree	SC	ST	GEN	Male	Female	Total
MA	-	52	-	13	39	52
MPhil	-	10	-	01	09	10
PhD	-	03	-	01	02	03

Degrees Awarded

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non Meghalaya	Total
MA	-	46	-	09	37	46	-	46
MPhil	-	07	-	05	02	07	-	07
PhD	-	01	-	-	01	01	-	01

Student Awarded Ph.D Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint.Supervisor
Ms. Bandarilin Bairo	“Writers Perception of Family: A Critical Study of Khasi Short Stories”	Prof. B.War

Courses Conducted

Postgraduate

MA

Semester – I

Linguistics I (C), Khasi Poetry I (C),, Literary Theory and Criticism-I (C), Khasi Fiction I (C), and Khasi Drama I (C)

Semester - II

Khasi Linguistics II (C), Khasi Drama II (O), Literary Theory and Criticism-II (C),, Literature in Translation- I (C), and Khasi Poetry II (O).

Semester - III

Khasi Linguistics III (C), Literary Theory and Criticism-III (C), Culture in Khasi Literature – I (C),, Khasi Fiction- II (O) and Literature in Translation-II (C).

Semester - IV

Linguistics IV (C), Khasi Fiction-III (C), Environmental Awareness in Khasi Literature and Poetry-III(C), Culture in Khasi Literature-II(C), Literary Theory and Criticism – IV(C),.

MPhil/PhD Courses

Research Methodology, Seminar Paper, Literary Theory and Criticism (Option A), Literary Themes (Option B).

Educational Tour of Students

Study Tours/Field Trips of Students

The 3rd Semester Students undertook a Study Tour from 14th-31st January, 2015 of Trivandrum, Kanyakumari and Bangalore with Prof. S.Dkhar in charge.

A Field Trip was undertaken to Dawki Shnongpdeng, East Khasi Hills on 3rd November, 2014 as part of the Course KHA 113 (Culture in

Khasi Literature-I) with Mr.M.M.Khyndeitas the teacher-in-charge.

Seminars/Conferences/Symposia/Extension Programmes etc.

Organized

The Department organized a Seminar on “Ki Snap ka Parom Mutdur” on the occasion of the 33rd Anniversary of the Department on 29th September, 2014.

Attended

B. War

Presented a lecture as Resource Person on “History, Literature and Theatre: Khasi and Jaintia traditions” at the *Theatre Appreciation Course* organized by the National School of Drama, New Delhi in collaboration with Department of English, North-Eastern Hill University, Shillong on the 22nd April, 2014.

Chaired the Launch of the National Volume and The State Volume of the People’s Linguistic Survey of India’s *The Languages of Meghalaya* organized by Bhasha Research and Publication Centre Baroda in Shillong on the 22nd May, 2014.

Presented a paper “Ka Jinglong Kawei u Khasi: Ka Mynta bad ka Lawei” (The Unity of the Khasi Community: Present and future) as Resource Person at a seminar on *The Unity of the Khasi Community* organized by the Department of Khasi, Synod College, Shillong on the 10th June, 2014.

Presented a paper “Ki Nongrim Jong ka Jingpynkylla Ktien” (Theories of Translation) at the seminar on *Translation and the Media* organized by the Department of Khasi, Sankardev College, Shillong on the 4th July 2014.

Presented a paper “Ka Ktien nongmei nongpa – ka pyini shynna ia ka kolshor jong ka jaitbynriew” (Mother Tongue – An indicator of cultural identity) at a *Symposium on Mother Tongue – An Indicator of Cultural Identity* organized by Prasar Bharati: India’s Public Service Broadcaster, All India Radio, Shillong on the 16th September, 2014.

Attended as Chief Guest the Seminar on *Ki Snap ka Parom Mutdur* organized by the Department of Khasi, NEHU, Shillong on the occasion of the 33rd Anniversary of the Department held on 29th September 2014.

Attended and presented a paper “Khasi Orthography: Principles and problems of spelling” at the National Seminar on *Towards Standardizing Khasi for Computational Purposes* organized by the Department of Computer Science and the Department of Khasi, St. Anthony’s College, in collaboration with the Department of Arts and Culture, Government of Meghalaya held on 28th – 29th October 2014.

Attended and presented a paper “Canons of translation” at the National Seminar on *Translation: Transcending Barriers* organized by the Literary Circle, Shillong College from 20th to 22nd November 2014.

Attended as Chief Guest the book release function of K.W. Nongrum’s books *Nongthoh Kot Khasi – Vol. IV. Simon Jenkin Duncan Hujon* and *Ki Symbol Pyrkhath* on the 7th February 2015.

Attended as Resource Person the programme “The role of Folktales in shaping the philosophy of the Community” during *Poets’ Meet* organized by Prasar Bharati: India’s Public Service Broadcaster, All India Radio, Shillong on the 20th February 2015.

S. Dkhar

Panelist at a function held on World YWCA Day and spoke on the theme “Intergenerational Leadership” organized by YWCA Shillong on 25th April 2014 at YWCA Hall, Shillong.

Resource Person in the UGC sponsored Orientation Course on 26th May 2014 organised by the Academic staff College, NEHU and presented two lectures on the study of “Khasi Matrilineal System: Its Tradition and the impact of Modernization on the Indigenous Practices” organized by Academic Staff College NEHU, Shillong.

Guest of Honour in the National Poetry Meet and read out self-composed poems in Khasi “Balei” and Hindi version “Kiw” organized by Poorvotar Hindi Akademi, Shillong on 30th May 2014 at Marwari Dharamshala hall, Garikhana. Shillong.

Chaired a session in the seminar on *U Khasi: Ka Jingialong Kawei* organized by the Department of Khasi, Synod College, Shillong on 10th June 2014.

Resource person at a seminar on *Folk Elements on Khasi Literature* and presented a paper on “Ki snap Khanatang, Khana-pateng bad Khana-parom ha ka Sawangka Khasi” organized by Sahitya Akademi, in collaboration with St. Edmund College, Shillong on 14th June 2014.

Panelist in a discussion on *Freedom of Speech and Expression and the Right to Offend* held on 20th June, 2014 at the KJP Assembly auditorium, Shillong organized by Tur Thma u Rangli-Juki and Raïot Webzine, Shillong.

Resource person in the *Second Marjorie Miranda and Valentine Richard Memorial Lecture 2014* and delivered a lecture on “The Role of Education in Thwarting Superstitious

Beliefs” held on 23rd June, 2014 organized by the Department of Social Work St. Edmund College, Shillong.

Resource person and delivered a lecture on “Understanding Drama and its Types” and “A Critical analysis of *U Raikut*” in a special programme, *Meet the Author* organized by the Department of Khasi, St. Anthony’s College on 20th July, 2014.

Attended a three-day workshop on “Paper Setting and Evaluation” organized by the Examinations Department and Department of Education, NEHU from 7th-9th August 2014.

Coordinator of the seminar on *Ki Snap ka Parom Mutdur* on the occasion of the 33rd anniversary of the Department of Khasi, NEHU and chaired a session held on 29th September, 2014 at the Department of Khasi, NEHU, Shillong.

Coordinator of the District level *Folk Dance and Folk Songs and Creative Writing Competition* organized by the District Arts and Culture Society held on 7th October 2014 at the Synod Higher Secondary School Shillong.

Attended and chaired a session at the National Seminar on *Towards Standardizing Khasi for Computational Purposes* organized by the Dept. of Computer Science & Dept of Khasi, St. Anthony’s College, Shillong, in association with the Department of Arts & Culture, Govt. of Meghalaya (28-29 October, 2014).

Attended the 10th annual *Literary Conference* of the Manipuri Sahitya Parishad, Meghalaya as the Guest of Honour and was a resource person in the Multilingual Poetry Reading session and presented three poems “Who are We”, “A Poor She” and “Tyrut ka Jingshun” held on 8th November, 2014 at NEHU, Shillong.

Resource person at a workshop on *The Preservation, Propagation and Promotion of Our Folk Legacy* and presented a paper on “Khasi Culture with Special Reference to Festivals” organized by Prasar Bharti, All India Radio, Shillong, held on 17th November, 2014.

Resource person at the Panel discussion on the *Ban Pynneh ia ka Ktien Khasi ha ki jaka pule bad ban pynrung ia ka Ktien Khasi ha ka Eight Scheduled jong ka riti synshar ka Ri India* organized by the KHADC, Shillong at the Jaiaw Dorbar hall on 22nd November 2014.

Panelist at the awareness program-cum-panel discussion on *Work Culture* organized by HYC, Mawlai Circle held on 22th November, 2014.

Coordinator at the National Writers’ Meet and Chaired two sessions organized by Sahitya Akademi in collaboration with AIPC, Meghalaya, NEEPCO Ltd. and St. Edmund’s College held from 27-28th November, 2014.

Coordinator of the *Fifth Meghalaya Poetry Competition 2014* and chaired the inaugural function organized by the All India Poetess Conference, Meghalaya Chapter in collaboration with the Government of Meghalaya under VAF scheme; held on 29th November, 2014 at St. Edmund’s College Shillong.

Moderator in a panel discussion on *Sustenance of poetry in a Corporate Society* in the Shillong Book Fair organized by the Dept. of Arts and Culture, Govt. of Meghalaya and Sahaki Society, held on 11th December, 2014 in Shillong.

Coordinator in a panel discussion on *Mother Tongue Education: A Case of Khasi* organized by the Dept. of Khasi, NEHU, in collaboration with the Society for Khasi Studies, held on 17th December, 2014 at Soso Tham Auditorium, Shillong.

Panelist in a panel discussion on Soso Tham's 74th Death anniversary on *Importance of MIL as a Compulsory subject* organized by the KSU, Mawlai Circle and held on 18th December, 2014 at NEHU, Shillong.

Resource person in the *All India Poetry Festival* and read out five poems, "Mystery in You", "Tears of Blood", "A Cry of a Helpless Woman", "Tang Jingbymhun", and "Mei Mariang" organized by Sahitya Akademi New Delhi and held from 21-22 December, 2014 at Manipuri Dance Academi Auditorium, Imphal, Manipur.

Chaired the technical session in the *Young Writers' Meet* organized by Sahitya Akademi, New Delhi held from 10th -12th February, 2015 at Soso Tham Auditorium, Shillong.

Resource Person and read out two poems "Wanduh baieit" and "U Bngem" in the Poets' Meet on the *Theme Folktales in Verse* held on 20th February 2015 at Don Bosco Youth Centre, Shillong, organized by the Prasar Bharati, India's Public service Broadcaster All India Radio, Shillong.

Resource person and presented a paper on "Contribution of Women Poets of the 21st Century to Poetry: Voices for their Rights" and chaired one multilingual poetry reading session in the *15th National Mega Convention, All India Poetess Conference* Kalaburagi- Karnataka 13-15 March 2015 organized by AIPC Gulbarga.

A. Kharmalki

Resource Person at the Symposium on Mother Tongue – An Indicator of Cultural Identity organized by AIR, Shillong, held on 16th September, 2014.

Resource Person at the one day Seminar on *Ki Snap ka Parom Mutdur* in the Khasi Department and presented a paper on Gender

Politics in *La Pra Lut Baroh* held on the 29th September, 2014.

Resource Person on *Ka Ktien Khasi Ha ka Pule Puthi* (Mother Tongue Education: The case of Khasi) held in Soso Tham Auditorium on the 17th December, 2014.

Resource Person at the CBSE Workshop held at New Delhi from 2-6 January, 2015.

D.R.L. Nonglait

Chaired a session in a one day Seminar on *U Khasi: Ka Jinglong Kawei* organized by the Department of Khasi, Synod College, Shillong on the 10th June 2014 at the Conference Hall of the College.

Presented a paper in a seminar on *Ka Jingsneng Tymmen bad ka Jingngeit Khristan* organized by the Christian Education Department, K.J.P. Synod Mihngi on the 7th September, 2014 at Mihmyntdu, Jowai.

Presented a paper in the seminar on *Ki Snap ka Parom Mutdur* organized by the Department of Khasi, NEHU, Shillong on the 29th September, 2014.

Chaired a session in the National Seminar organized by the Department of Computer Science and the Department of Khasi, St. Anthony's College, in collaboration with the Department of Arts and Culture, Government of Meghalaya on *Towards Standardizing Khasi for Computational Purposes* on the 29th October 2014 at St. Anthony's College, Shillong.

Presented a paper in the Regional Seminar on *Translation in Khasi Literature* organized by the Department of Khasi, Shillong College on the 5th November, 2014 at Shillong College, Shillong.

Acted as Guest of Honour in a programme organized for the release of E.M.Umlong's book, *Ki Kynthei ha ka Pyrkhath u Khasi: Ka Bishar halor ka lSawangka ka Nam jong ka Ester Syiem*; and S.R.Majaw's novel, entitled, *La ka Kular Ngan Bat*, held at Mawkharr, Shillong on the 6th December, 2014.

Participated in a Panel Discussion on *Promotion and Dissemination of Khasi Literature and Language* organized by the Directorate of Arts and Culture, Government of Meghalaya, Shillong at Soso Tham Auditorium, State Central Library, Shillong on the 12th December, 2014.

Presented a paper *Ka Lyngwiar Pyrkhath-Blei ha ka Jingpynshai ha Ki Sngi Ba Rim u Hynniew Trep U Soso Tham* in a seminar *Mother Tongue Education: A Case of Khasi* organized by the Department of Khasi, NEHU, Shillong on the 17th December, 2014.

Chaired a Programme for the release of K.W.Nongrum's book, entitled, *Ki Nongthoh Khasi* held at Lummawbah on the 7th February, 2015.

M.M. Khyndeit

Resource Person at the Symposium on *Mother Tongue – An Indicator of Cultural Identity*, organized by All India Radio, Shillong at Don Bosco Youth Centre, Shillong held on 16th September, 2014.

Resource Person at a Seminar on *Ki Snap ka Parom Mutdur* organized by the Department of Khasi, NEHU, Shillong held on the 29th September, 2014.

Coordinated a Soso Tham Memorial Lecture organized by the Department of Khasi, NEHU, Shillong in collaboration with the Society for Khasi Studies, Shillong on the 15th December, 2014.

Resource Person at the CBSE Workshop held from 2nd- 6th January, 2015 at New Delhi.

Publications

War. B. (2014). "Khasi Vowels" in *Ka Thwet Jingstad* (Quest for Knowledge). A Journal of the Society for Khasi Studies (Ed.). Bandarilin Bairo. Vol III No.1 December. ISSN: 2278-6813.

_____. "Ka Biria ha ka Parom Mutdur jong ki ar ngut shipara" in *Ka Thwet Jingstad* (Quest for Knowledge). A Journal of the Society for Khasi Studies (Ed.). Bandarilin Bairo. Vol III No.1 December. ISSN: 2278-6813.

Co-edited the State Volume of the People's Linguistic Survey of India *The Languages of Meghalaya* published by Ri Khasi Book Agency, Shillong, 2014.

Dkhar. S. (2014). Women and Translation in Khasi Literature with Special Reference to Esther Nora Lyngdoh. In *Vandana*. Jail Road Centenary Durga Puja Committee, (np).

Dkhar. S. (2014). *Ka Jingngeit u Khasi Ha Ka Jingdon Jong Ka Rngiew*. In *Sarad Smaranika Souvenir* 2014, R& R Colony Saradiya Utsav Samity (np).

Dkhar. S. (2014). "Mei Baieit". In *Sarad Smaranika Souvenir* 2014, published by R& R Colony Saradiya Utsav Samity 2014 (np), 2014.

Dkhar. S. (2014). "Mei Baieit". In the journal *Ka Thwet Jingstad (Quest for Knowledge)* B. Bairo (Ed.), December 2014, Society for Khasi Studies, Shillong Vol. III No.1. ISSN: 2278-6813, 70-71.

Dkhar. S. (2015). *Ka Tynrai Jong Ki l'ew Khasi: Ka l'ewduh, kumno La seng l'a ka Bad Ki Jingkylla Ha Ki Shalyntem Jong Ka Por*. In *Ka*

Thiar Ki Nongthoh, (Thup- X) E.J.E Shongwan (Ed.). Khasi Authors Society, Shillong ISSN: 2278-6805, 16- 45.

Dkhar. S. (2015). Poetry: A Reflection of Peace through regional languages by Women poets of Northeast India” In *Kalyan Kalaburagi*. Prabha Sharma, Dr. Roshan Ara, & Dr. Vijayalaxmi Kosgi (Eds.) Gulabargi, Karnataka, 116-121.

_____. (2015). Protect Her Rights. In *Kalyan Kalaburagi*. Prabha Sharma, Dr. Roshan Ara, & Dr. Vijayalaxmi Kosgi (Eds.) Gulabargi, Karnataka, 95-96.

Nonglait.D.R.L. (2014). Ki Khristan bad ki Jingdih Bapynsniew. In *Balang Umsohpieng Golden Jubilee Souvenir (1974-2014)*. Balang Umsohpieng. 40-48.

Nonglait.D.R.L. (2014). Ki Tyngshop ki Puron ha ki Parom bad ki Sawangka. In *Ka Syngkhong Jingtup (Thup – V)*. Khasi Authors’ Society, Shillong. 1-22.

Nonglait.D.R.L. (2015). Ki Samla bad ka Jinglong Nongialam in *Seng Samla Lumshyiap Pyllun Ka thup Sah Kynmaw ia ka Jingrakhe Jubili Rupa (1988-2015)*. Seng Samla Lumshyiap Pyllun, Lumshyiap, Golfink, Shillong. 9-13.

Khyndeit M.M. (2014). The Lasa Iapngar, Nongbri and Mnar varieties of Ri-Bhoi, in *People’s Linguistic Survey of India*. G.N.Devy and Esther Syiem (Eds). Orient Blackswan Private Limited. 98-116.

Khyndeit M.M. (2014). The Mikir, Tiwa and Mangar Languages of Ri-Bhoi in *People’s Linguistic Survey of India*. G.N.Devy and Esther Syiem (Eds). Orient Blackswan Private Limited. 117-128.

Khyndeit M.M. (2015). Ka ‘Um’ ha *Ki Sngi Ba Rim u Hynniew Trep. Ka Thwet Jingstad (Quest for Knowledge)* Vol.III,(1), 10-17.

Research Papers

Published in India

Dkhar.S. (2015). Poetry: A Reflection of Peace through regional languages by Women poets of Northeast India. *Kalyan Kalaburagi*. Prabha Sharma, Dr. Roshan Ara, & Dr. Vijayalaxmi Kosgi (Eds.). Gulabargi, Karnataka. 116-121).

Book

Dkhar.S. (2015). *Ka Nongkyliliang*, (A Khasi Novel), Eses Plus Publications ISBN 978-81-904740-7-8.

Honours/Awards/Recognitions

S.Dkhar

Awarded the Kasturba Samman 2015 by the Sulabh Sahitya Academy at the 15th National Mega Convention, All India Poetess Conference Kalaburagi- Karnataka 14th March 2015.

Nominated Secretary General All India Poetess Conference, Aligarh, Uttar Pradesh.

Chairperson of Literary Award Committee of the Department of Arts and Culture, Government of Meghalaya (2014-2016).

Other Activities

B. War

Delivered a lecture on Culture in Khasi Literature at the Orientation Course organized by the Academic Staff College, North-Eastern Hill University, Shillong on the 24th February, 2015.

Delivered a lecture as Resource Person on Ka Phawar as a Literary Genre in the Refresher Course in English *Text and Hypertext: Gender*,

Meaning and Interpretation organized by the Department of English, NEHU on the 24th March 2015.

S.Dkhar

Attended the Four day CALM festival held from 21-24th May 2014 at State Central Library Premises organized by the Department of Arts and Culture in collaboration with Sahaki, Shillong.

Special Guest in the First Dance-drama in Khasi entitled *Ka Mynsiem ha ki Snier* held on 21st June 2014 organized by Sahitya Akademi, in collaboration with the Department of Khasi, St. Edmund College, Shillong.

Was in a panel of judges in the Keanean 2014 organized by the Lady Keane College on 29th October, 2014.

Was in a panel of judges for the Essay Competition on 31st October 2014 as part of celebration of the Rasthya Sankalp Diwas organized by the District Art and Culture Society, East Khasi Hills District, Shillong.

Read out three poems “Truth”, “Lum Ka Ri Ba La Shah Sliah” and a Hindi poem “Kewal Asantushti” at a function organized by the Faculty Club NEHU, at NEHU Old Guest House, on 22nd November, 2014.

Nominated member by the State Government in a committee for inclusion of Khasi language into Eighth Schedule.

Bandarilin Bairo

Editor *Ka Thwet Jingstad (Quest for Knowledge)*
A Journal of the Society for Khasi Studies.

Member of the Society for Khasi Studies.

Life Member of the Tribal Literary Forum of India.

Member of the Shillong Academic Society.

M.M. Khymdeit

Co-edited the State Volume of the People's Linguistic Survey of India: *The Language of Meghalaya* published by Ri Khasi Book Agency, Shillong. 2014.

DEPARTMENT OF LINGUISTICS

Head : Prof. Shailendra Kumar Singh
Telephone : 0364-2723310 (O); 9863279254(M)
Email : tosksingh@rediffmail.com, tosksinghnehu@gmail.com
Faculty :

Designation	Name and Qualification	Specialization
Professor	Shailendra Kumar Singh MA(Linguistics) Delhi University; MA (Hindi) Karnataka State Open University, MPhil and PhD (Linguistics), University of Hyderabad	New Linguistics World Order, Alternative- Sociolinguistics Translation, Deep Multilingualism, North-East India Linguistics & Linguistics Lanscaping.
Associate Professor	Umarani Pappuswamy MA &MPhil (Linguistics), Bharathiar University, PhD (Linguistics) University of Mysore, Post-Doc, University of Antwerpen, Belgium	Computational Linguistics, Typology, Semantics, Intelligent Tutoring Systems, Artificial Intelligence in Education, Cognitive Linguistics, Dialogue Systems and Discourse Analysis
Assistant Professor	Saralin A. Lyngdoh MA (Linguistics & English), NEHU, MPhil (Linguistics), Delhi University, PhD (Linguistics), Delhi University	Syntax, Eco-Linguistics, Language Ideology, Typology.
	Barika Khyriem, MA (Linguistics), NEHU; MPhil (Linguistics), Delhi University	Phonetics & Phonology, Sociolinguistics, Austro-Asiatic Linguistics.

School of Humanities

	Bijoy L. Dhanwar, MA (Linguistics), NEHU, MPhil. (Linguistics), University of Hyderabad.	Tibeto-Burman Linguistics, Typology, Syntax, Lexicography, Historical Linguistics.
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Thrust Area of Research

The thrust area of the Department is to research in the numerous Tibeto-Burman and Austro-Asiatic languages/dialects of the North-East of India and build up expertise for field work, data analysis, and descriptive linguistics by training students through M.A. M.Phil and Ph.D programmes. Phonetics and Phonology, Morphology, Syntax, Semantics and Pragmatics, Lexicography, Computational Linguistics, Translation, Field Methods, Language Education, Ethnolinguistics, Sociolinguistics, Languages of North-East India and language Ideology, etc., have been

emphasized upon in order to provide a wide option for students of Linguistics.

Brief Statement of Academic Activities

The Department admitted 45 students to its M.A. programme and 5 students to its M.Phil Programme during the current year. 27 students successfully completed their M.A. programme and 4 passed the UGC Net examination. The department organized a series of programmes including International Conference, Refresher Course in Linguistics and Workshops, and brought in many international scholars from all the continents to the university.

Students' Profile

Enrolment Capacity: MA- 45, PhD/ MPhil: Variable

Actual Admission: MA- 45, MPhil- 11, PhD-1

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
M.Sc/M.A	-	45	-	7	38	40	5	45
M.Phil	-	5	-	-	5	2	3	5
Ph.D	-	1	-	-	1	-	1	1

Degrees Awarded

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
M.Sc/M.A	-	27	-	7	20	18	9	27
M.Phil	-	11	-	2	9	7	4	11
Ph.D	-	3	-	1	2	1	2	3

Ph.D. Degrees Awarded

Name of Student	Title of Thesis	Name(s) of Supervisors(s)/ Joint Supervisor
Ms. Ardabarmekiia Diengdoh	Comparative study of Sohkha (War) and Wahiajer(Pnar) varieties of Khasi language	Prof J.War Prof S.K.Singh
Mr. Bijoy L.Dhanwar	Aspects of Morphosyntax in Karbi	Prof J.War
Ms.Monali Longmailai	The Morphosyntax of Dimasa	Dr. Umarani Pappuswamy

Placement of Students

Qualified NET: 2

UGC Fellowship: 4

Rajiv Gandhi Fellowship: 4

Educational Tour of Students

Field Trip of students

Teacher –In- Charge: Dr S.A.Lyngdoh and Dr C. Kharlukhi(Guest Lecturer)

Students: 3rd Semester

Places Visited: Sohkha in West Jaintia Hills

Duration of the Trip: 15 & 16 of October 2014.

Purpose: Fieldwork Training, which is a compulsory part of the curriculum

Courses Conducted

Postgraduate

Semester - I

General Linguistics, Morphology, Syntax-I, Phonetics and Phonology and Socio-Linguistics

Semester – II

Semantics and Pragmatics, Ethnolinguistics, Advanced Syntax, Lexicology and Lexicography, Advanced Sociolinguistics

Semester – III

Structure of Austro- Asiatic Languages, Field Methods, Linguistic Structure of South Asian Languages, Language Planning and Policy, Language of N.E India and Language Ideology.

Semester – IV

Generative Phonology, Historical and Comparative Linguistics, Psycholinguistics, Translation Theory and Practice, Language Conflict and Resolution Studies.

M.Phil/Ph.D Course Work

Research Methodology

Current Trends in Linguistics (Option-1)

Current Trends in North East Linguistics (Option-2)

Seminar Paper

Seminars/ Conferences / Workshop/ Extension programmes

Organized

S.K Singh

Organized a *National Workshop on Machine Translation System for Health and Agriculture Domains in North East India* in the National Workshop on EILMT in NE from 30th September to 1st October, 2014 at Guwahati.

Umarani Pappuswamy

Organized a *Workshop on Mother-tongue Survey of India* in Collaboration with Language Division, Kolkata at North-Eastern Hill University, Shillong from 11-20th November, 2014.

Attended/Presented

Shailendra Kumar Singh

Delivered an Invited talk on “Future Direction for EILMT-Bodo: Health and Tourism

Domains” in the Consortium Meet, at IIIT, Hyderabad (23-26 June, 2014).

Delivered an Invited talk on ‘EILMT-Bodo: Towards Progressing’ in the Consortium Meet at C-DAC, Pune (16th -18th Sept, 2014).

Presented paper on “Machine Translation System for Health and Agriculture Domains in North East India” at the *National Workshop on EILMT in NE* at Guwahati (30th September- 1st October, 2014).

Chaired the session at the *National Seminar Towards Standardizing Khasi for Computational Purposes* organized by the Departments of Computer Science and Khasi, St. Anthony’s College on the 28th October, 2014.

Chaired a session at the *National Seminar Towards Standardizing Khasi for Computational Purposes* organized by the Department of Computer Science and Khasi, St. Anthony’s College, Shillong on the 29th October, 2014.

Delivered a talk on “Linguistic Ecology and Community Education” in the Refresher Course on Community Education on 29th Oct, 2014 at Department of Adult and Continuing Education, NEHU, Shillong.

Presented paper on English in “New Linguistic World Order”: An Alternative Sociolinguistic Approach” at the *20th Conference of the International Association for World English* at Amity University, Delhi, India (18th –20th December, 2014).

Presented paper on “Canonization and Women’s Voice” at the *National Seminar on Women’s Voice: Literature, Language, Media, Art and Culture*, Central University of Bihar, Gaya (19th -20th Feb, 2015).

Presented paper on “Purvotar Bharat me Hindi ka vartman aur bhavisa ki sambhavnaye” at the *National Seminar on Hindi in Northeast India: Present and Future* held on 12th March, 2015 at Guwahati.

Umarani Pappuswamy

Delivered a series of invited lectures on Computational Linguistics and Natural Language Processing at the *First Orientation-cum-Workshop on Developing Tools for Computer Aided Translation (English-Manipuri)* at Manipur University (4th -9th August, 2014).

Resource Person at the Orientation Meeting of the project Scheme on Protection and Preservation of Endangered Languages held at the Central Institute of Indian Languages, Mysore (26th -27th September, 2014).

Chaired a Session on Machine Translation in the *Conference titled Towards Standardizing Khasi for Computational Purposes* held at St. Anthony's College, Shillong on October 28th, 2014.

Delivered a series of Lectures on Language Documentation and Typology at the *Workshop on Mother-tongue Survey of India* in collaboration with Language Division, Kolkata at North-Eastern Hill University, Shillong. (11th -20th November, 2014).

Presented an invited paper titled “A Morphological and Syntactic Typology of Dravidian and Tibeto-Burman languages” at the *36th International Conference of the Linguistic Society of India* held at the University of Kerala, Kerala (1st -4th December, 2014).

Chaired two sessions on Computational Linguistics at the *36th International Conference of the Linguistic Society of India*, held at the

University of Kerala, Kerala (1st -4th December, 2014).

Resource Person at the *Workshop on Finalizing Questionnaires for the Project Scheme on Protection and Preservation of Endangered Languages* held at the Central Institute of Indian Languages, Mysore. (15th -16th December, 2014).

Resource Person at the *Workshop on Finalizing the module for basic grammar” for the project “Scheme on Protection and Preservation of Endangered Languages* held at the Central Institute of Indian Languages, Mysore, January 19th -21st, 2015.

Delivered a Plenary talk on “Issues and Challenges in Machine Translation” at the *National Seminar on Knowledge and Text Translation in Kannada*, held at Mangalore University, Mangalore, held from January 28th -29th, 2015.

Lectured on “References and Bibliography” in a special lecture programme titled Capacity Building Programme for Faculty Members in Social Science held at the ICSSR, Shillong on February 21st, 2015.

Delivered an invited talk at a panel discussion on ‘Issues and Challenges in search of Effective Orthography for Unwritten Languages of North-East India” session on “Challenge

of Scripting the Unwritten Languages” at the *National Symposium on Unwritten Languages of India* organized by the Sahitya Akademy, Delhi on March 12th, 2015.

Saralin Lyngdoh

Delivered an invited Lecture on Teaching Grammar through Technology, UGC-Refresher course in Education, 13th October to 1st November 2014.

Presented a paper titled Languages of the North-east with special reference to Standard Khasi and its Dialects, 17th November 2014 in the *Workshop 'The Preservation, Propagation and Promotion of our Folk Etymology'* Organized by All India Radio, Shillong.

Publication

Research Papers

Singh, Shailendra Kumar (2014) .Anuvaad: tisari parmpara ki khoj aur aathapna. In K.K.Goswami and C. Anupurna (Eds.). anuvAd kI nayI prampara aur AyAm. New Delhi, prakAshan sansthan. 29-53.

Singh, Shailendra Kumar (2014). sarcnAvAd aur anuvAd: anuvAd aur yugbodh. In bhASA evam bhASAvigyan: ek dristi. Sharda Chaturvedi (ed) 2014. VArAnasI: BhArtiye VidyA sansthan.

Singh, Shailendra Kumar (2015) New Linguistic World Order and Translation. In Translation as Man and Machine Enterprise. Singh, S.K and A.K Tripathi, (eds). Guwahati: Eastern Book House.

Singh, Shailendra Kumar (2015) Translator's Dictionary: A Model for North East Indian Languages. In Translation as Man and Machine Enterprise. Singh, S.K and A.K Tripathi, (eds) 2015. Guwahati: Eastern Book House.

Singh, Shailendra Kumar (2015) Editor's Note. In Translation as Man and Machine Enterprise. Singh, S.K and A.K Tripathi, (eds). Guwahati: Eastern Book House

Lyngdoh, S.A (2014) The Morphology of Khasi Verbs and their Semantics. ISSN : 2231-4989www.hinditech.com

Lyngdoh, S.A (2014). Languages of the North East with special reference to

Khasi ISSN : 2231-4989www.hinditech.com.

Books

Singh, Shailendra Kumar (2015) BhaSha pAristhitikI : bhArtIy evm vaishwik pariprekshy. New Delhi: Today and Tomorrow Printers and Publishers.

Singh, Shailendra Kumar (2015). Translation as Man and Machine Enterprise (eds). Guwahati: Eastern Book House.

Funds Received from Agencies other than NEHU/UGC

Ongoing Projects:

Sl.No	Title of Projects	PI/Co-PI	Funding Agency	Amount
1	English to Indian Language Machine Translation(EILMT)-Bodo	Prof. Shailendra Kumar Singh	Ministry of Communications & Information Technology, Indian Government, New Delhi.	Rs.78.11 Lakhs

Research Projects

Ongoing Project	Institution	Amount	Year
Language Documentation of Ruga and Rengma, Tibeto-Burman Languages of North-East India. Principal Investigator: Dr. Uma Pappuswamy	UGC Major Research Project	Rs.12,49,400	Awarded in 2014
Scheme for Protection and Preservation of Endangered Languages (SPPEL). (Documentation of Atong) Principal Investigator: Dr. Uma Pappuswamy	Central Institute of Indian Languages, Mysore.	Commissioned project, Govt. of India	w.e.f. November 2013
Mother Tongue Survey of India. Phase IV Coordinators: Dr. Uma Pappuswamy and Mr. Bijoy L. Dhanwar.(completed 3 phases of the project).	Language Division, Kolkata	Commissioned project, Govt. of India	w.e.f. 2009.

Academic Collaborations:

S.K. Singh

S.K.Singh collaborated with Room To Read, Educational NGO. Delhi.

Umarani Pappuswamy

Umarani Pappuswamy collaborated with institutes like: (1) International: Australian National University, Australia; Nanyang Technological University, Singapore and University of Paris, France. (2) National: Central Institute of Indian Languages, Mysore; Manipur University, Manipur and Language Division, Kolkata.

Umarani Pappuswamy and Mr. Bijoy L. Dhanwar provided Consultancy services to the

Mother Tongue Survey of India, a mega project undertaken by the Language Division, Kolkata.

Honours/ Award/ Recognition

Umarani Pappuswamy

Visiting Fellow, Manipur University April 21st -26th, 2014. Delivered special lectures on Computational Linguistics.

Visiting Fellow, Central University of Kerala, Kasargod, Kerala, January 30th, 2015.

Other Academic Activities

S.K.Singh

Conducted PhD Viva-Voce in the Department of Bodo, Gauhati University on 27th June, 2014.

Delivered a talk on 'Future Direction for EILMT-Bodo: Health and Tourism Domains' in the Consortium Meet, during 23rd to 26th June, 2014 at IIIT, Hyderabad.

Delivered a talk on 'EILMT-Bodo: Towards Progressing' in the Consortium Meet, during 16th-18th September, 2014 at C-DAC, Pune.

Chaired the session: Resources for NLP. *National Seminar on 'Towards Standardizing Khasi for Computational Purposes'* at the Department of Computer Science and Khasi, St Anthony's College on the 28th October, 2014.

Chaired the session: Tibeto-Burman Languages: A Syntactic Typology. *National Seminar on 'Towards Standardizing Khasi for Computational Purposes'* at the Department of Computer Science and Khasi, St Anthony's College on the 29th October, 2014.

Delivered a talk on 'Linguistic Ecology and Community Education' in the Refresher Course on 'Community Education', 29th October, 2014 at Department of Adult and Continuing Education, NEHU, Shillong.

Conducted Project VIVA in Department of English and Foreign Languages, Tezpur University Assam.

Member of PRSG, Consortium member for EILMT. MIT. New Delhi.

Nominated as a member of the Campus \ research Community for a periods of Two years EFLU, Shillong.

Nominated as a member of NEHUTA, Faculty Club.

Nominated as a member as Vice President of Shillong Academic Society.

Umarani Pappuswamy

Referencing and Bibliography-APA Style. Invited talk at the Short-term course in Research Methodology with special reference to SPSS, UGC-ASC, NEHU Shillong on May 23rd, 2014.

The Role of ICT in Higher Education. Invited talk at UGC Refresher Course in Education organized by the Department of Education, NEHU Shillong on June 2nd, 2014.

Innovative Methods of Teaching with ICT. Invited talk at UGC Refresher Course in Education organized by the Department of Education, NEHU Shillong on June 4th, 2014.

Chief Resource Person and delivered 11 lectures on SPSS in the UGC-ASC Short Term Course on SPSS, 23rd-28th June 2014.

Delivered two talks on the Impact of ICT in Education at UGC Refresher Course in Education organized by the Department of Education, NEHU Shillong on October 15th and October 21st, 2014.

Invited talk at the UGC-Special Winter School on the Theme "Linking Education to Society" on November 8th, 2014 at UGC-ASC, NEHU Shillong.

Screening Committee for Selection of Project Fellows for the Project "Scheme for Preservation and Protection of Endangered Languages" held at the Central Institute of Indian Languages, Mysore on December 16th 2014.

Special Lectures on Endangered Languages and Language Documentation, at Central University of Kerala, Kasargod, Kerala on January 30th 2015.

Effective Communication Skills. Invited talk, at the Orientation Course held by the UGC-ASC, NEHU Shillong on February 20th 2015.

NEHU Annual Report 2014-15

Linguistics for non-linguists. Invited talk at the 31st Orientation Programme (General) for college and University Teachers organized by the UGC-ASC, NEHU, Shillong on March 7th, 2015.

Vice-President, Linguistic Society of India for a period of three years w.e.f. January 2015.

Nominated Member, Advisory Committee, UGC-Academic Staff College, NEHU.

Member, Committee related to the Safety and Security of girls and women on Campus (UGC Associate Editor of the Journal South Asian Language Review <http://journalsalr.com>; ISSN:

Saralin.A. Lyngdoh

Secretary Shillong Academic Society Shillong. w.e.f. October 2014.

DEPARTMENT OF PHILOSOPHY

Head : Prof. B. K. Agarwala
Telephone : 0364-2723552
E-mail : philosophynehu@gmail.com
Faculty :

Designation	Name and Qualification	Specialization
Professor	Binod Kumar Agarwala MA, MPhil (Delhi), PhD (Lucknow)	Social & Political Philosophy; Ethics; Hermeneutics; Kant; Gadamer.
	Vanlalnghak MA (NEHU), PhD (IIT Kanpur)	Philosophy of Culture; Moral Philosophy; Analytic Philosophy
	Xavier P. Mao. MA(NEHU),MPhil.(Delhi), MLett.(Sydney)PhD, (NEHU)	Existentialism; Ethics
Associate Professor	N.Parthasarathy MA (Indian Philosophy) (Madras) MPhil (Madras)	Indian Philosophy & Indological Studies.
	Prasenjit Biswas MA, PhD (NEHU)	Phenomenology & Continental Philosophy; Philosophy of Mind; Philosophy of Tribes of NE India.
	Laxminarayan Lenka MA (Utkal), MPhil, PhD (Hyderabad)	Analytic Philosophy; Philosophical Anthropology; Philosophy of Wittgenstein; Speech Acts; Western Epistemology

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Assistant Professor	E. Richard Tongper M.A, M.Phil, PhD (NEHU)	Philosophy of Religion; Philosophical Theology; Applied Ethics; Gandhian Philosophy.
	Basil Pohlong MA, PhD (NEHU)	Philosophy of Religion; Philosophical Anthropology; Philosophy of Culture; Ethics
	Uttam A. Sharma MA(Manipur University)	Logic and Epistemology.

Thrust Areas of Research

Philosophy of Culture with special reference to the tribal thought of the North-Eastern region.

Brief Statement of Academic Activities

Faculty members published many papers in books and journals pertaining to their research

work. They served as resource persons for Refresher Courses within and outside NEHU. They also participated and presented papers at regional, national and international seminars/conferences.

Students' Profile

Enrolment Capacity: MA- 52, PhD. – Variable

Actual Admissions

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
MA	-	47	4	15	36	30	21	51
PhD	-	5	1	3	3	2	4	6

Degrees Awarded

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
MA	-	35	2	14	23	22	15	37
PhD	-		1	-	1	-	1	1

Student Awarded Ph.D Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Ms. KarabiSaikia	"Concept of Morality in Existentialism: A Critical Study"	Dr. B. Pohlong (Supervisor) Prof. X. P. Mao (Jt. Supervisor)

Courses Conducted

Postgraduate

Semester- I

PhiC-101-Indian Metaphysics, PhiC-102-Western Metaphysics, PhiC-103-Symbolic Logic,

PhiC-104-Philosophy of Religion & PhiC-105-Indian Philosophy of Language-I

Semester- II

PhiO-201-Ethics & Environment, PhiC-202-Indian Epistemology, PhiC-203-Western Epistemology, PhiC-204-Indian Moral Philosophy & PhiC-205-Indian Philosophy of Language-II

Semester – III

PhiO-301-Philosophy of Social sciences, PhiO-302-Phenomenology & Existentialism

PhiC-303-Philosophy of Post Modernism-I, PhiC-304-Analytic Philosophy, PhiC-3006-Contemporary Philosophy of Religion & PhiC-3007-Tribal Thought and Culture

Semester – IV

PhiC-401-Modernism & Responses, PhiC-402-Philosophy of Culture, PhiC-403-Philosophy of Post-Modernism-II, PhiC-4004-Western Moral Philosophy, PhiC-4005-Applied Ethics &

PhiC-4006-Philosophy of Wittgenstein

Ph.D. Courses

Phi-501-Research Methodology, Phi-502-Seminar Paper & Phi-503-Philosophy of Culture & Religion

Educational Tour of Students

Teacher-in-charge : Prof. X. P. Mao

Places/Institutions visited : Delhi

Duration of tour : 19th – 30th February, 2014.

Purpose of Tour : Enrich the students' outlook and understanding of different Cultures by studying and visiting places of cultural significance.

Seminars/Conference/Symposia/Extension Programmes etc.

Organized

P. Biswas

Organized Indian Council of Philosophical Research (ICPR), New Delhi's *National Conference on Tribal Worldviews*, 30-31st March, 2014 at NERC-ICSSR, Shillong.

Attended & presented papers

B. K. Agarwala

"The Balanced Contrast of Individualist and Tribal Outlooks in the First Chapter

Bhagavadgita', in Round Table Conference on *Tribal Worldview(s): Concepts, Issues, Ideas, and Concerns*, organized by Indian Council of Philosophical Research, New Delhi in collaboration with NERC-ICSSR, Shillong at NERC-ICSSR, Shillong on March 30th & 31st and April, 1st, 2015.

"Dharma in Bhagavadgita," in a *National Seminar on The Concept of Value in the Contemporary Perspective*, organized by Centre for Advanced Study, Department of Philosophy, University of Allahabad, Allahabad, February 21st -22nd, 2015.

"Conditions of Inter Cultural Dialogue," in a *National Seminar on Cultural Pluralism in India and the Need for Inter-Cultural Dialogue*, under the aegis of Center for Studies in Civilizations, New Delhi, held at the ICSSR(NE Center), Shillong-793022, February 23rd -24th, 2015.

"Radhakrishnan's Understanding of the *Bhagavadgita* as Reflected in His English Translation of Sanskrit Text and Notes" at a *National Seminar on The Neo-Vedantism of Radhakrishnan: An Appraisal* under the aegis of Indian Council of Philosophical Research, New Delhi, held at the Department of Philosophy, Guwahati University, Guwahati, March 12th -14th, 2015.

"From Our Point of View": A Hermeneutic Approach to the Nature of Anthropological Understanding," in a *National Seminar on Understanding of Tribal Culture*, at the Department of Tribal Studies, Indira Gandhi Tribal University, Amarkantak (M.P) on March 18th -20th, 2015.

Vanlalnghak

Presented a paper on "Tribal Culture and Identity", at ICPR sponsored *National workshop*

on *Indian Tribes and Social Sciences* at Rajiv Gandhi University, Hanaque, November 22nd -23rd, 2014.

Presented a paper entitled "Cultural Dialogue for Unity and Harmony" at *National Seminar on Cultural Pluralism in India and Inter-Cultural Dialogue* held at ICSSR (NE Centre), NEHU, Shillong, February 23rd -24th, 2015.

Presented a paper on "Understanding and Explanation of Tribal Culture of North-East India", in a *National Seminar on Understanding of Tribal Culture*, at the Department of Tribal Studies, Indira Gandhi Tribal University, Amarkantaka(M.P), March 18th -20th, 2015.

Presented a paper entitled "Philosophical Reflection on Contemporary Moral Failure" in Cotton University, Gauhati, March 20th -22nd, 2015.

X. P. Mao

Presented a paper on *National Seminar on Cultural Pluralism in India* and the *Inter-Cultural Dialogue* held at ICSSR(N.E. Centre) organized by Centre for Studies in Civilization, New Delhi, on February 23rd -24th, 2015.

Presented a paper on "Higher Education India" at Jamia Millia Islamia University at a *Seminar on Higher Education at the Crossroads* (March 3rd -4th, 2015).

N. Parthasarathy

Presented a paper on 'The Three States of Experience as contained in the MāndukyaKārika' *ICPR Seminar*, at the Department of Philosophy, TKC, University of Madras, Chennai, on 23rd July 2014.

Presented a paper on 'A Different Perspective on the Hindu Sects by TMP Mahadevan: A Critical Analysis' *UGC Seminar* at Sree

Sankaracharya University of Sanskrit, Kalady, Kerala, on 19th August 2014.

P. Biswas

Presented a paper entitled, "Lower Riparin Rights: Need for Enacting Laws in National Contexts" at *Trans-disciplinary Disaster Research Programme*, JNU, New Delhi, November 14th -15th, 2014.

Presented a paper entitled, "Protecting Rights of Animals: On Conservation of Hollock Gibbons and River Dolphins in Assam" at the *Trans-disciplinary Disaster Research Programme*, JNU, New Delhi, November 14th -15th, 2014.

Presented a paper entitled, "Concept of Person in Tribal Culture with respect to Northeast India" at ICPR sponsored *National Workshop on Indian Tribes and Social Sciences* at Rajiv Gandhi University, Itanagar, November, 22nd -23rd, 2014.

Presented a paper entitled, "Class, Ideology and Capital: A Critique of Neoliberalism in Northeast Indian Context" at the *National Silver Jubilee Seminar* of OKD Institute of Social Change and Development, Guwahati on 27th November, 2014.

Presented a paper entitled, "Foucault and Derrida on Truth and Meaning: A Semantic, Politics and Ethical Reappraisal" at the *International Colloquium on Philosophy, Language and the Political: Reevaluating Poststructuralism* sponsored by Institute FrancaisInde, New Delhi, 10th -12th December, 2014.

Presented a paper entitled, "Unveiling the Transhuman: Dialetheia in Cultural Studies" at the *International seminar on Cultural Studies*:

Global and Local Perspectives held at Tezpur University, Tezpur, February 7th -9th, 2015.

Presented a paper entitled, "Gazing the Ethnic Spaces: Borderlands, Boundaries and Political Economy of 'Act East' Policy" at the *National Workshop on North East India Today: Some Reflections* held at Delhi School of Economics on 12th March, 2015.

Presented a paper entitled, "Re-Signification as the Moment: Gospel Guru's Theory of 'Adequate Theory of Justice' at the *National Seminar* on the theme *Is There an Adequate Theory of Justice?* at Indian Institute of Advanced Studies, Shimla held on 21st March, 2015.

L. N. Lenka

Presented a paper entitled "Degettiering Knowledge: An Understanding of Prof. Amitabha Das Gupta's "Beliver" ", at the *International Conference on Intentionality, Normativity and Objectivity*, organized by the Department of Philosophy, University of Hyderabad, Hyderabad, January 8th -10th, 2015.

Basil Pohl long

Presented a paper 'Khasi Social and Moral Values', at *National Seminar on Cultural Pluralism in India and the Inter-Cultural Dialogue* held at ICSSR(N.E. Centre) organized by Centre for Studies in Civilization, New Delhi, (23rd -24th February, 2015).

A. U. Sharma

Presented a paper entitled "Literalism: Is it a problem?" at *National Seminar on Cultural Pluralism in India and inter-Cultural Dialogue* held at ICSSR(N. E. Centre), NEHU Campus, Shillong (23rd -24th February, 2015).

Publications

Research papers

Published in India

Pohlong, B., Biswas, P.(2014). Re-Thinking Khasi Ethnic Identity. *KaThwetJingstad*, III, 1:49-53.

Biswas, P., Gogoi, S.(2015). Adivasis in Assam: extermination without a camp. *Kafila, media, politics, dessent*, 11th February: <http://kafila.org/2015/02/11/advasis-in-assam-extermination-without-a-camp-suraj-gogoi-and-prasenjit-biswas/>.

Pohlong, B. (2014) "Rethinking Khasi Ethnic Identity" *Ka Thwet Jingstad*, Vol. III, No.1, December, 2014. 37-55.

Sharma A.U. (2014). The nature of logic in Frege's "The Thought: A Logical Inquiry". *Philosophica* Vol. IV. 91-1000

Sharma A.U. (2014). A Note on Transcribing 4'33". *The NEHU Journal*. Vol. XII. 113-127.

Books/Book Chapters/Proceedings

Agarwala, B.K. (2014). "Environmental Ethics of Three Old Words from the Hills," *In Beyond Humanism: Philosophical Essays on Environmental Ethics*, Saji Varghese (Ed.). Concept Publishing Company Pvt. Ltd., New Delhi, (ISBN-13: 978-93-5125-106-4), 1-21.

Agarwala, B.K. (2014). "Tribal Reason as Metis: A Study of Folk Tales from Khasi, Mizo and Naga Traditions," *In Nature, Culture and Philosophy: Indigenous Ecologies of North East India*. Saji Varghese (Ed.). Laxmi Publishers & Distributors, New Delhi.(ISBN: 978-93-82120-33-9), 1-73.

Mao, X.P. (2014). "Environmental Ethics: Theory and Practice". In *Beyond Humanism*

Philosophical Essays on Environmental Ethics. Saji Varghese (Ed.). Concept Publishing Company Pvt. Ltd., New Delhi. (ISBN-13: 978-93-5125-106-4), pp.70-77.

Biswas, P.(2014). Self-Model, Phenomenology of Personhood and Evidences from Neurosurgery. In *Perspectives on Person and Personal Identity*. Mitu Sinha Roy and Tamoghna Sarkar(Eds.). Alpna Enterprises, Kolkata: Chapter 4, 53-68.

Biswas, P.(2014). Pathologies of the Present: Higher Education and its Unexplored Frontiers in India's Northeast. In *Challenges of Higher Education in Assam: A Report on the Current Status*. D. N. Bezboruah(Editoral advisor.). Rasmi Prakash, Guwahati: Chapter 21, 360-74.

Biswas, P.(2014). Language in the Open: A Phenomenological Excursus through Heidegger, Derrida and Agamben. In *Phenomenological Meaning*. Debika Saha and Laxmikanta Padhi (Eds.). Northern Book Centre, New Delhi: Chapter 3, 26-51.

Pohlong, B. (2014). "Globalization and Ethnic Identity: A Khasi Perspective" *In Henry Lalmawizuala, and V. Lalmalsawmi (Ed.). Globalization and EthnicIdentity*, Scientific Book Centre, Guwahati. 49-54.

Other Activities

B.K. Agarwala

Delivered one lecture on "Modernity of Tribes in North-East India" at the Department of Tribal Studies, Indira Gandhi National Tribal University, Amarkantak(M.P) on March 19th, 2015.

Vanlalnghak

Delivered four lectures on War and Peace in UGC sponsored Refresher Course organized by

School of Humanities

Department of Philosophy, Gauhati University, November, 2014.

X. P. Mao

Presented a paper at the International Conference, JNU, 20th -21st March, 2015.

Delivered Refresher Course lectures in the Department of English, NEHU on 27th March, 2015.

Delivered lecture at Naga Community Hall, Shillong, on Leadership Training Programme.

N. Parthasarathy

Delivered lecture on 'Advaita Vedānta and Immanuel Kant': A Study on TMP Mahadevan's Philosophical Reflections at the Department of Philosophy, TKC, University of Madras, Chennai-600005, on 31st July 2014.

Delivered a lecture on 'Self-Knowledge, Agency and Freedom on the Advaitic Reconciliation between the Immanent and Transcendent' at SVU, Tirupathi, Chittoor, AP, on 26th December, 2014.

Delivered a talk: Prof. M Narasimhachary Memorial Endowment Lecture on the 'Dynamics of Bhakti: From Rāmānuja to Caitanya' at the University of Mysore, Manasagangotri, Mysore, Karnataka, on 3rd February, 2015.

Delivered a talk on the 'Perspectives of Saiva Siddhanta- a survey of the service by the

Ēamayakuravas' at Ramaswami Institute of Indological Research (CPRIIR), Chennai, on 26th February, 2015.

P. Biswas

Delivered six lectures on Social theory at the Special Summer School organized by UGC-ASC at Mizoram University, Aizawl from 20th -21st June, 2014.

Delivered eight lectures on "Boundaries and Borders" at week-long course on Border Studies held at UGC-ASC, Mizoram University, Aizawl from 28th -29th October, 2014.

Delivered an invited lecture entitled, "Reason, Normativity and Philosophical Responsibility: A Renewed Call to Alterity" on the occasion of World Philosophy Day celebrated at Don Bosco University, Assam, Guwahati on 28th November, 2014.

Delivered an invited lecture entitled. "Philosophy and its Relevance in Contemporary Society" at one-Day Workshop organized by Shillong College on 6th December, 2014.

L.N. Lenka

Presented a paper entitled "On Descartes' Dream Argument", on the occasion of the 33rd death anniversary of Prof. Usha Bhattacharya, at Lady Keane College, Shillong, on 8th September, 2014.

IV

SCHOOL OF HUMAN AND ENVIRONMENTAL SCIENCES

Dean : Prof. H. Lamin (upto 05.01.2015)
Prof. Debendra Kumar Nayak (from 06.01.2015)

Telephone : 0364-2723221 (O); 0364-2550040 (Fax)

Email : dknak@rediffmail.com

The School of Human and Environmental Sciences comprise five departments, namely, Anthropology, Environmental Studies, Geography, Horticulture and Rural Development & Agricultural Production. The following report listing academic activities undertaken by each of these five departments is a clear indication of the fact that these departments were actively engaged in teaching and research programmes during the year under report. As many as 22 research scholars were awarded Ph.D. degree while 7 more received M.Phil.

The research profile looks bright with most faculty members from across the departments publishing research papers in well known journals published from India and abroad.

Faculty members of the school published 72 research papers in journals published from India and 23 papers in journals published abroad. They contributed 19 papers as book chapters and published one book. Several collaborative research programmes have been undertaken across the departments during the year under report.

All the departments have received externally funded research projects. Presentation of research papers by a large number of the faculty members of the school in various national and international seminars and conferences has been another area of academic endeavour.

DEPARTMENT OF ANTHROPOLOGY

Head : Prof. R. Khongsdier
 Telephone No : 0364-2723102 (O); 0364-2550255 (R)
 Email : rkhongsdier@hotmail.com
 Faculty :

Designation	Name and Qualification	Specialization
Professor	T. B. Subba, M.A., Ph.D. (N. Bengal) (On lien as Vice-Chancellor of Sikkim University)	Cultural Anthropology
	H. Lamin, M.A., Ph.D. (NEHU)	Cultural Anthropology
	R. Khongsdier, M.Sc., Ph.D. (NEHU)	Biological Anthropology
	L. Zehol, M.A., Ph.D. (NEHU)	
Associate Professor	D.K. Limbu, M.Sc., Ph.D. (NEHU)	Biological Anthropology
	B. T. Langstieh, M.Sc.(NEHU), Ph.D. (Cal. Univ)	Biological Anthropology
	G. Ranjan, M.A., Ph.D. (Lucknow Univ)	Cultural Anthropology
	V. Pakyntein, M.A., M.Phil. (Delhi Univ)	Cultural Anthropology
Assistant Professor	J.W. Dkhar, M. Sc., Ph.D. (NEHU)	Biological Anthropology
	Q. Marak, M.A., (Gauhati Univ), Ph.D. (NEHU)	Cultural Anthropology
	Sudipta Ghosh, M.Sc., Ph.D. (Delhi Univ)	Biological Anthropology

Thrust Areas of Research

Population genetics including DNA studies with special focus on phylogenetic relationship of human populations and other related health issues, Bicultural aspects of human growth and nutrition, Demography, reproductive and child health, Gender and developmental issues, and Ethnicity and identity.

Brief Statement of Academic Activities

The Department admitted thirty students for M.A. /M.Sc. programmes and seven students for Ph.D. Programme during the year. Twenty eight students successfully completed their M.A. /M.Sc. and four students were awarded Ph.D. degree. Nine students passed the UGC-NET during the current year. The Department is collaborating with NEIGHIMS and the National Institute of Immunohematology, Mumbai, to characterize and identify the RBC antigen distribution pattern of the indigenous populations of Meghalaya in order to develop a blood donor base pertaining to the antigen systems.

One international project titled “Nepal on the Move: Conflict, Migration and Stability” is being collaborated with the Department of Anthropology, Aarhus University, Denmark. Another international project entitled “A Dental Morphometric Examination of the Distinctiveness and Affinities of Austro-Asiatic- and Tibeto-Burman-speaking Ethnic Groups of South Asia” is being collaborated

with Dr. Brian E. Hemphill, Department of Anthropology, College of Liberal Arts, University of Alaska, USA.

The Department is also undertaking four projects entitled “Rice and Aba Cha’a: Stories and Practices from Garo Hills Meghalaya” sponsored by IGRMS, New Delhi, “Nude Images of Northeast India: Interpreting Verrier Elwin’s Ethnographic Photographs” sponsored by ICSSR-NERC, Shillong, “The Art of Pottery Making in Garo Hills, Meghalaya sponsored by Sangeet Natak Akademi, New Delhi, and “A Multi-Disciplinary Survey and Research on Rock Art in North-East India with Special Reference to Garo Basti in Guwahati Region of Assam” funded by Lalit Kala Akademi, New Delhi.

The Department organised a national seminar on “New Arenas of Biological Anthropology in India” at ICSSR-NERC, NEHU, Shillong, from 19th to 21st November, 2014. It also organized a national workshop on “Multi-Disciplinary Survey, Research, and Documentation of Rock Art in North-East India” in collaboration with Arunachal Institute of Tribal Studies, Rajiv Gandhi University, and Lalit Kala Akademi, New Delhi, from 1st to 2nd December, 2014 at ICSSR-NERC, NEHU, Shillong. The faculty of the Department published more than twenty five publications including one book during the year under report.

School of Human and Environmental Sciences

Students' Profile

Enrolment Capacity: P.G.: 30 Ph.D.: Variable

Student Intake

Actual Admission	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
P.G.	-	29	1	8	22	8	22	30
Ph.D.	-	7	-	3	4	1	6	7

Degrees Awarded

Actual Admission	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
M.A./M.Sc.	-	28	-	4	24	9	19	28
Ph.D.	-	4	-	2	2	1	3	4

Details of Students Awarded Ph. D. Degree

Name of the student	Title of thesis	Name of Supervisor
Mr. Maibam Samson Singh	Obesity and Self-reported morbidity in Relation to Lifestyle and diet among the Meitei of Manipur	Dr. J.W. Dkhar
Ms. Julia Lalmuanpui	Ethno-Medical Beliefs and Practices among the Mizos	Prof. H. Lamin
Ms. Temsumongla Longkumer	A Study on Somatotype and Nutritional Status in Relation to Physical Activities among the Ao Children of Mokochung District, Nagaland	Dr. J.W. Dkhar
Mr. Happystone Syngkon	Status and determinants of Child Morality among the Pars of Jaintia Hills District, Meghalaya	Dr. D.K. Limbu

Courses Conducted

Following courses were conducted for M.A./M.Sc. students:

Semester- I

Palaeo-anthropology; Archaeological Anthropology; Physical Anthropology; Social and Cultural Anthropology; Indian Prehistoric Archaeology.

Semester- II

Human Origin and Evolution; Fieldwork Methods and Techniques; Human Ecology and Adaptation (Open); Anthropology of Northeast India (Open); Asian Prehistoric Archeology.

Semester- III

Anthropology of India; Anthropology of Gender; Culture, Health and Medicine; Language, Culture and Society (Open); Demography; Human Genetics; Human Growth and Body Composition; Practical in Physical Anthropology-I.

Semester-IV

Theories in Anthropology; Economy and Culture; Development Anthropology; Biostatistics; Biocultural Anthropology; Dental Anthropology; Practical in Physical Anthropology – II; Dissertation.

Study Tour/Field Trips of Students

Dr. Q. Marak took the 3rd Semester students to Asananggre, Rongram Block, West Garo Hills, Meghalaya, with effect from 30th December 2014 to 19th January 2015 for fieldwork training.

Seminars/Conferences/Symposia/Extension Programmes, etc.

Organised

The Department organised a *National Seminar on "New Arenas of Biological Anthropology*

in India" at ICSSR-NERC, NEHU, Shillong, during 19th -21st November, 2014. Organizing secretaries: Dr. D.K. Limbu and Dr. Sudipta Ghosh.

Q. Marak

Organized a *National Workshop on "Multi-Disciplinary Survey, Research, and Documentation of Rock Art in North-East India"* in collaboration with Arunachal Institute of Tribal Studies, Rajiv Gandhi University, and Lalit Kala Akademi, New Delhi at ICSSR-NERC, NEHU, Shillong, 1st -2nd December, 2014.

Attended

D.K. Limbu

Attended the UGC Sponsored *National Seminar on "Child Health in India with Special Reference to North-East India"* organised by the Department of Anthropology, Dibrugarh (02nd -03rd May, 2015) and presented a paper entitled "Influence of Biosocial Factors on child mortality among Jaintias of Meghalaya."

B. T. Langstieh

Attended the *National Seminar on 'New Arenas of Biological Anthropology in India,'* organized by the Department of Anthropology at ICSSR-NERC, NEHU, Shillong (19th -21st November, 2014) and presented two papers: (a) jointly with Arundhuti Das entitled "Aggression and its Genetic Association: Exploration from the Gene-Culture Co-Evolution Prospective" and (b) jointly with S. Khamu entitled Mini Nutritional Assessment Scale: An Assessment among the Chakhesang Elderly"

Attended the *National Seminar on 'Child Health With Special Reference to Northeast India,'* organised by DHSK College, Dibrugarh (02nd -03rd May, 2015) and presented a paper jointly with H. Kipgen entitled "Effects of

Demographic Characteristics on Child Health: A Study among the Thadou-Kuki of Senapati District, Manipur.”

Geetika Ranjan

Attended the *National Workshop on 'Multi-Disciplinary Survey, Research and Documentation of Rock Art in North-East India,'* organized by Lalit Kala academy at NEHU, Shillong (01st -02nd December, 2014) and presented a paper entitled “Bamboo Art of North-East India”

Attended the *National Seminar on 'Folk Medicine and Traditional Healing in India: Theory and Practice,'* organized by the Department of Cultural and Creative Arts, NEHU, Shillong (26th -27th March, 2015) and presented a paper titled “Invoking the Divine in Traditional Healing: A Study of the Bhoksas of Uttaranchal.”

V. Pakyntein

Attended the *National Seminar on 'Conflict Resolution Systems in Tribal Societies of North East India, Legal Pluralism and Indian Democracy,'* organized by North Eastern Social Research Centre, Guwahati, funded by ICSSR-NERC, at Shillong (05th -06th June, 2014) and presented a paper entitled “The Khasi - Pnar Ideology of Peace and Conflict Resolution.”

Attended the *National Workshop on 'Multi-Disciplinary Survey, Research and Documentation on Rock Art in North East India,'* organized by the Department of Anthropology, North Eastern Hill University, Shillong (01st -02nd December, 2014) and Arunachal Institute of Tribal Studies, Rajiv Gandhi University, Itanagar, and presented a paper entitled “A Living Tradition: Ka Pamiawmusiang among the Pnars of Nangbah Village.”

Q. Marak

Attended the *National Seminar on 'North East Umbrella: Environment-Cultural Interaction and the Tribes in the Region,'* organized by Union Christian College, Umiam Khwan (29th -30th May, 2014) and chaired a session on “Ethnicity and Environment”.

Attended the *National Workshop on 'Paddy Growing Cultures,'* organized by Indira Gandhi National Centre for the Arts, New Delhi (11th -13th June, 2014) and presented a talk on “Rice and Aba Cha’a: Stories and Practices from Garo Hills, Meghalaya.”

Attended the *National Workshop on 'Multi-Disciplinary Survey, Research, and Documentation of Rock Art in North-East,'* organised by the Department of Anthropology, NEHU jointly with Arunachal Institute of Tribal Studies, Rajiv Gandhi University, Itanagar in collaboration with Lalit Kala Akademi, New Delhi at ICSSR-NERC, Shillong (01st -02nd December, 2014) and delivered a talk on “An Exploration of Rock Art in the Outskirts of Guwahati City, Assam.”

Attended the *National Seminar on 'Folk Medicine and Traditional Healing in India: Theory and Practice,'* organised by the Department of Cultural and Creative Studies, North-Eastern Hill University, Shillong (26th -27th March, 2015) and presented paper titled “In Health and Sickness: Exploring the Concept of Soul in Disease Causation among the Garos.”

Publications

Published In India

Bhuyan, G., Marak, Q. (2014). The Palaeolithic Stone Age conundrum in North-East India: A Review. *Nrtattv: The Anthropology*, 4 (6): 67-81.

Ghosh, S. (2014). High Altitude Himalayan Populations: A note on Human Adaptation to Stressful Environment. *Journal of the Indian Anthropological Society*, 49(1): 91-98.

Ghosh, S. (2015). Nutritional Status and its Correlates among the Adult Santhals of Bankura District of West Bengal, India. *Human Biology Review*, 4 (1): 84-93.

Humtsoe, C., Marak, Q. (2014). Naga Ethnic Food: History, Traditional Knowledge System and Cultural Meanings. *Nrtattv: The Anthropology*, 4 (6): 82-92.

John, S. S., Marak, Q. (2013). The Aravan Cult: Living Traditions of Transgenders in Tamil Nadu. *Journal of Indian Anthropological Society*, 48(3): 231-244.

Kithan, L. N., Marak, Q. (2014). Child Rearing Practices of the Bhoi-Khasis of Umden, Ri-Bhoi District of Meghalaya. *Voice of Intellectual Man*, 4(1): 25-36.

Limbu, D.K., Haloi, A. (2014). Biosocial Correlates of Fertility and Maternal Morbidity among the Assamese Muslim women of Kamrup District, Assam. *Spectrum*, 1:3-20.

Marak, C.B.S., Limbu, D.K., Dkhar, J.W. (2014). A Study on Growth among the Garo Children of Ri-Bhoi district, Meghalaya. *Nrtattv: The Anthropology*, 4:122-139.

Marak, C.S.B., Limbu, D.K. (2014). Eruption of Permanent Teeth among the Garo Males of Garo Hills, Meghalaya. *Nrtattv: The Anthropology*, 4:-13-26.

Marak, Q. (2013). Prehistoric Migrations and India's North-East: The Garo and Khasi Hills dilemma. *Journal of the Asiatic Society*, LV (3&4): 72-94.

Marak, Q. (2014). Indigenous Rice: Development Initiatives and Change among

the Garos of Assam, India. *South Asian Anthropologist*, 14(1): 59-67.

Marak, Q. (2015). A Native and an Anthropologist: Dilemma and Ethics of doing Fieldwork. *Man in India*, 95 (1): 133-143.

Marak, Q. (2015). Writing the Self: Introducing Autoethnography. *Man in India*, 95 (1): 1-10.

Ranjan, G. (2014). Being a Caste: A journey Down Memory Lane. *Man in India* 95(1): 125-131.

Published Abroad

Chongloi, S., Marak, Q. (2015). Rang Taiba's Stone: A Study of a Megalith in Maram Khullen, Manipur, India. *Antrocom.*, 11(1):349-358.

Ghosh, S. (2014). Deficiency and Sources of Nutrition among an Indian Tribal Population. *Collegium Antropologicum*, 38 (3): 847-853.

Khamu, S., Langstieh, B.T. (2015). Health and Associated Factors among the Chakhesang Elders. *International Journal of Innovative Research and Development*, 4(5): 25-30.

Khamu, S., Langstieh, B.T. (2015). Living Arrangements among the Chakhesang Elders. *IOSR Journal of Humanities and Social Sciences*, 20(4): 54-60.

Marak, Q. (2012). Megaliths, Types, and its Living Traditions among the Jaintias of Northeastern India. *Journal of Indo-Pacific Archaeology*, 32: 45-53.

Book Chapters

Pakynstein, V. (2015). Gender Equality and Women's Empowerment in Meghalaya. In: *Women's Wide Canvas: Issues and Challenges*, Evakorlang Kharkongor and Indasien Warjri (Eds.), EBH Publishers, Guwahati, Chapter 13, 103-117.

Zehol, L. (2014). Ethnicity in Nagaland. In: S. Sengupta (Ed.), *Ethnicity in North East India*. New Delhi: Gyan Publishing House, Chapter 11, 158-170.

Zehol, L. (2015). An Anthropological Perspective on Gender. In: *Democratization Process in North-East India: Some Issues and Challenges*. S.T. Ngaihte and L.T.S. Guite (Eds.). Gyan Publishing House, New Delhi, Chapter 3, 39-49.

Limbu, D.K., Lalrammuana, C. (2014). Eruption of Permanent Teeth and Prevalence of Dental Caries among the Garo Girls. In *Ethnic Groups of North East India: Education, Health*

and Nutritional Perspective. J. Singh and P. Bora (Eds.). Mittal Publications, New Delhi: Chapter 6, 67-84.

Ghosh, S. (2015). Heritability and Inheritance Pattern of Human Physique. In: *Human Growth: The Mirror of the Society*. M. Sikdar (Ed.). B.R. Publishing Corporation, New Delhi, Chapter 12, 225-242.

Books

Marak, Q. (2014). *Food Politics: Studying Food, Identity, and Difference among the Garos*. New Castle, UK: Cambridge Scholars Publishing.

Research Projects

New projects

Title of the project	Name of PI/Co-PI	Funding Agency	Amount received
The Art of Pottery Making in Garo Hills, Meghalaya	Q. Marak	Sangeet Natak Akademy, New Delhi	3.00 Lakhs
A Multi-Disciplinary Survey and Research on Rock Art in North-East India with Special Reference to Garo Basti in Guwahati Region of Assam	Q. Marak (Co-PI)	Lalit Kala Akademi, New Delhi	4.5 Lakhs

Ongoing Projects

Title of the Project	Name of PI/Co-PI	Funding Agency	Amount received
Nepal on the Move: Conflict, Migration and Stability	Prof. T. B. Subba and Dr. Ranjan Gupta	Danida Fellowship Centre, Denmark	18.54 lakhs
Rice and Aba Cha'a: Stories and Practices from Garo Hills Meghalaya	Dr. Q. Marak	IGRMS, New Delhi	10.60 lakhs
Nude Images of Northeast India: Interpreting Verrier Elwin's Ethnographic Photographs	Dr. Q. Marak	ICSSR-NERC, Shillong	0.60 lakhs
Red Blood Cell Antigen Typing among Indigenous Populations of Meghalaya and Native Population of Mumbai	Dr. B. Langstieh, Dr. L.N. Lyngdoh, NEIGRIHMS, and Dr. K. Vasantha, NIIH, Mumbai	DBT, Govt. of India	8.70 lakhs

Academic Collaborations**Abroad**

Dr. B.T. Langstieh corroborated with: (i) Dr. Brian E. Hemphill, Department of Anthropology, University of Alaska, Fairbanks, USA, for the project entitled "A Dental Morphometric Examination of the Distinctiveness and Affinities of Austro-Asiatic and Tibeto-Burman-speaking Ethnic Groups of South Asia."

Dr. G. Ranjan corroborated with Dr. J. Seberg, Department of Anthropology, Aarhus University, Denmark, for the project titled "Nepal on the Move: Conflict, Migration and Stability."

Honors/Awards/Recognitions

Dr. Sudipta Ghosh was invited as Visiting Scientist by Prof. Gregory Livshits in the Department of

Anatomy and Anthropology, Sackler Faculty of Medicine, Tel-Aviv University, Israel (3rd January to 18th February, 2015).

Other Activities**R. Khongsdier**

Served as Director-In-charge of NEHU Publications and a member of the Editorial Board of the Journal of Life Sciences and The Anthropologist. He also chaired a technical session on 'Demography' in the *National Seminar on 'New Arenas of Biological Anthropology in India,'* organized by the Department of Anthropology, NEHU (19th-21st November, 2014).

Was appointed expert member of the Khasi Hills Autonomous District Council (KHADC) Committee on Codification of Customary Laws.

L. Zehol

Acted as discussion panelist on 'Waste Management and Civic Sense,' organized by the Department of Sociology, NEHU, Shillong (05th March, 2014),

Discussion panelist on 'Gender Implications of Tribal Customary Laws: Emerging Issues and the Ways Forward'

Chaired as a technical session on 'Customary Law, Changing Socio-Cultural Scenario and Women,' organized by NESRC, Guwahati (20th -21st March, 2015), Cotton College State University and Tata Institute of Social Sciences, Guwahati.

B. T. Langstieh

Delivered an Invited lectures on the topic "Linking Education to Society: An Applied Anthropological Perspective" at NEHU ASC Winter School, NEHU (10th November, 2014).

Geetika Ranjan

Participated in workshop under the ongoing project entitled "Nepal on the Move: Conflict, Migration and Stability: Nepalese Migrants in the Coal-Mines of India's Northeast: Risk, Remittances and Return to Nepal" at Aarhus, Denmark (19th-28th June, 2013). She also participated in workshop under the same project at Kathmandu, Nepal (24th -28th February, 2014).

V. Pakyntein

Participated as a Resource Person in UGC *National Workshop on 'Capacity Building for Women Managers in Higher Education-Sensitization/Awareness/Motivation (SAM) Workshop'* organized by Tripura University, Suryamaninagar, Agartala (02nd April, 2013).

As Trainer Associate she also facilitated the theme on 'Managing Personal and Professional

Roles' in three sessions: (a) Introducing Personal and Professional Roles, (b) Work System and Professional System, and (c) Integration of Social and Professional Roles.

Attended the *Workshop on 'Women in Leadership: The Unknown Woman'* organized by Climate Change Adaptation in North Eastern Region of India, Shillong (CCA-NER) and GIZ (German Institute of International Development) at Asian Confluence Centre, Shillong (23rd -24th October, 2013).

Q. Marak

Acted as a Quest Editor of Man in India on "Autoethnography,"

Drafted e-PG Pathshala in Anthropology an initiative by Ministry of Human Resource Development (MHRD).

Acted as a Resource Person at the Capacity Building Programme on "Cultural Resource Management" at Rajiv Gandhi University, Itanagar (09th -12th February, 2015), organized by Arunachal Institute of Tribal Studies in collaboration with Indira Gandhi National Centre for the Arts and delivered two lectures on "Salvaging the Past: Cultural Resource Management and Archaeology" and "Cultural Resource Management, Public and Anthropology: The Researcher, the Researched, and the Research."

Sudipta Ghosh

Served as a Member of the editorial Board, Wyno Academic Journal of Biological Sciences. She also acted as a resource person in the UGC sponsored *National Seminar on 'Recent trends in Anthropology,'* organized by the Department of Anthropology, Madhya Kamrup College, Barpeta, Assam (28th-29th March, 2015).

DEPARTMENT OF ENVIRONMENTAL STUDIES

Head : Prof. O. P. Singh
Telephone : 0364-2721159
E-mail : opsinghnehu@gmail.com
Faculty :

Designation	Name and Qualification	Specialization
Professor	B. K. Tiwari, M. Sc. Gorakhpur University, Ph. D. (NEHU)	Natural Resource Management
	Lalit Kumar Jha, M.Sc. (Bhagalpur Univ.), PhD (L.N.M.U.), Diploma(Two Years) in Forestry (FRI Dehra Dun)	Forestry, Forest Laws and Rural Development
	O. P. Singh, M. Sc. (BHU), Ph. D. (BHU)	Environmental Monitoring and Remediation of Degraded Ecosystems
	Devesh Walia, M.Tech. (Dr H S G. University), Ph.D. (Gauhati University)	Magnetotelluric, Seismotectonics, Radon monitoring studies in NER
	D. Paul, M. Sc (NEHU), Ph. D. (NEHU)	Entomology, IPM, Soil faunal ecology and biodiversity
Assistant Professor	S. S. Chaturvedi, M.Sc. Gorakhpur University, Ph.D. (BHU)	Environmental Monitoring & Abatement and Environmental Biology

Thrust Areas of Research

Biodiversity Conservation, Environmental Monitoring, Forest Management, Environmental Impact Assessment, Environmental Biology,

Integrated Pest Management, Policy Oriented Research on Forest and Environment and Watershed Management; Magnetotelluric studies, Global Positioning system studies and

School of Human and Environmental Sciences

micro-seismicity of NE Region; Radon activity concentration in NER.

Brief Statement of Academic Activities

The Department undertook a number of research projects aimed at creating much-needed database for promoting ecologically sound and sustainable development of the hill regions of northeast India. The Department also contributed towards configuring the deeper crustal structure for understanding the crustal evolutionary processes, global

positioning system studies and seismicity of the northeast India along with the radon activity concentration.

The Department received grants from a number of national and international agencies viz., to support the research and other activities of the Department. The grants received from various external funding agencies were used to strengthen ongoing research and extension activities and in development of laboratory and other infrastructure.

Students' Profile

Enrolment Capacity: M.Sc. – 25, Ph.D. – Variable

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
M.Sc.	-	22	4	13	13	21	4	26

Degrees Awarded

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
M.Sc.	1	17	4	8	14	11	11	22
Ph.D.	-	1	-	-	-	-	-	1

Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Andrew Cuthbert Lyngdoh	Study of Seismicity and Active Tectonics in the South Eastern part of the Shillong Plateau	Prof. D. Walia

Courses Conducted:

M. Sc. Courses

Semester-I

Environment, Ecology and Ecosystem Dynamics; Environmental Pollution; Forestry and Water Resources; Practical.

Semester-II

Environmental Microbiology, Biotechnology and Toxicology; Environmental Impact Assessment and Environmental Policies; Practical; Remote Sensing and Geographical Information System; Environmental Law.

Semester-III

Environmental Geoscience and Energy ; Research Methods, Techniques and Statistical Analysis; Practical; Disaster Management; Environmental Issues and Problems of North East India

Semester-IV

Environmental Economics and Sociology; Forest Management and Biodiversity Conservation; Practical; Project Work and Field work/ Study Tour.

Ph.D. Courses

Research Methodology in Environmental Science; Contemporary Environmental Science; Review of Literature and Seminar.

Educational Tour of Students

Teacher-in-Charge : Prof. D.Paul & Prof. D.Walia

Places/Institutions visited : Margherita, Tipong U/G Coal Mine, Tirap, Pangsupaa, Digboi, Tea Estate Ledo Jorhat, Majuli Island, Mariani & Kaziranga.

Duration of tour : 11 days

Purpose of Tour : To visit different habitats and ecosystems; Collection and study of different geo-environmental//mining and industrial areas and submission of report; To study flora and fauna; To acquaint students with the status of environment.

Seminars/Conferences/Symposia/Extension Programmes etc.

Organized

Professor B. K. Tiwari in collaboration with Embassy of Federal Republic of Germany, New Delhi, GIZ and Indian Youth Climate Network (IYCN), New Delhi organized "Climate Catalysts Agents of Change Workshop" on 12th -13th November 2014 and also participated as Panelist and Speaker in the Sessions: Climate Change Science and SWOT analysis of Climate change for India.

Attended

B.K. Tiwari

Presented a concept paper entitled "Socioeconomic Implications of Climate Change in North-Easter India" in the *Workshop on Climate Change Projections, Impacts-Vulnerability-Adaptation* organised by Ministry of Environment and Forests for India's Third National Communication to the UNFCCC held on 21st -22nd May 2014 in New Delhi.

Chaired a technical session in the *National Conference on Biodiversity: Challenges and Issues* 5th -6th June, 2014 organised by Albert Einstein Science Institute etc in Women's College, Shillong.

Chaired a technical session entitled "Agriculture, Industry, Communication and Environment and presented a paper entitled "

Ecorestoration of Coal Mining Affected Areas in Jaintia Hills, Meghalaya in the *International Seminar on Green Economics: The Road to a Balanced and Healthy Economy* on 7th -8th August, 2014 organized by Meghalaya Economic Association, Shillong.

Attended the *National Workshop on REDD+ Policy and Practices in India as a Panelist and Sectoral Expert* organised by Ministry of Environment Forests and Climate Change at India Habitat Centre, New Delhi on 14th October 2014.

Chaired a session entitled “Mountain Forests and Biodiversity”: Bridging Transboundary Challenges with 21st Century programs for the welfare of mountain people, forests and environment in the Hindu Kush Himalayas at Forest Research Institute, Dehradun, 18th -22nd January, 2015.

O. P. Singh

Delivered an invited talk on ‘Environmental Degradation and Options of Remediation in Coal Mining Areas of Meghalaya’ in *National Conference on “Sustainable Development of Environmental Systems”* organized by the Centre for Environment, Indian Institute of Technology (IIT), Guwahati during June 20th -21st, 2014 at Guwahati

Chaired a Session and delivered a special lecture on ‘Coal Mining and Environmental Degradation: Measures for Improvement of Water Quality and Sustainable Development in Meghalaya’ in “*International Conference on Mother Earth: Save it to Achieve a Sustainable Future for All*” organized by the Department of Environmental Science, University of Burdwan, Burdwan during Dec. 10th -12th, 2014 at Burdwan, West Bengal.

Delivered an invited lecture on ‘Water Pollution in Coal Mining Areas of Meghalaya and Remedial Measures for Improvement of Water Quality’ in “*International Conference on Water: From Pollution to Purification*” organized by Department of Environmental Science, M. G. University, Kottayam during Jan. 23rd -26th, 2015 at Kottayam, Kerala

Delivered an invited lecture on ‘Water pollution in Coal Mining Areas of Meghalaya and Remedial Measures’ on March 13th, 2015 in the Department of Ecology and Environmental Science, Assam University, Silchar, Assam.

Chaired a session of the “*National Seminar on Folk Medicine and Traditional Healing in India: Theory and Practice*” organized by the Department of Creative and Cultural Studies, North-Eastern hill University, Shillong during March 26th -27th, 2015 at Shillong.

D. Walia

Attended *National Conference on New Approaches of Basic Sciences towards the Development of Engineering and Technology*, 2015, Don Bosco University, Gauhati.

D. Paul

Presented a paper entitled “Feeding Deterrence and Contact Poison Effect of Bacterial Chitinase on *Bombyx Mori* Larvae” in *National Seminar on Biodiversity of North-East Indian Hotspot: Science and Society perspectives*. Department of Zoology, Holy Cross College, Tripura. February 7th -8th, 2015.

Publications

Research Papers

Published in India

Das, Saumitro., Jha, L. K. (2014). Effect of Wounding and Plant Growth Regulators (IBA

and NAA) on Root Proliferation of *Taxus wallichiana* Shoot Cuttings, *Res. J. Agril and Forestry Sciences*, 12(2), 8-14.

Das, Saumitro., Jha, L. K. (2014). Variation in Root Proliferation of IBA treated *Taxus Baccifera* Cuttings of Different Age and Crown Positions, *Nei Bio*, 5(4), 25 -32.

Das, K., Lamo, A., Paul, D., Jha, L.K. (2014). Ethno Mycological Knowledge of Wild Edible Mushrooms of Khasi Tribes of Meghalaya, North Eastern India. *European Academy Research*, 11(3), 3433-3443.

Imotemsu., Jha, L.K. (2014). Extension of Biological Diversity Act, 2002 in the State of Nagaland : A critique on the violations of Article 371A of Constitution of India. Environment and Forest law Times Journal, Law Publishing House, Allahabad, 4 (Part 9 & 10), 49—64.

Lamare, R. E., Shylla, R., Singh, O. P. (2014). *Assessment of ground water quality from dug wells in west Jaintia Hills district, Meghalaya, India. Intl. J. of Envil. Sci.* 5 (3): 544-552.

Aksana Neah Ch. Marak., Singh, O.P. (2014). Environmental Protection and Sustainability Through Corporate Social Responsibility (CSR) in India: An Analysis under the Companies Act, 2013 of India. *Res. J. Agri. & Envil. Management.* 3 (12): 612-617.

Lamare, R. Eugene., Singh, O.P. (2014). Degradation in Water Quality due to Limestone Mining in East Jaintia Hills, Meghalaya, India. *Intl. Res. J. of Envil. Sci.* 3 (5): 13-20.

Lamare, R.Eugene., Singh, O.P. (2014). Evaluation of Water Quality in Thadlaskein Lake, west Jaintia Hills, Meghalaya, India. *J. Chemical, Biological and Physical Sci.* 4:2651-2656.

Chase, Petevino., Singh, O.P. (2013). Ethnomedicinal Plants used by Angami Tribes of Nagaland, India. *Ind. J. Trop. Biodiversity* 21 (1& 2): 29-42.

Marbaniang, D., Chaturvedi, S. S. (2014). A Study on Lead Uptake and Phytoremediation Potential of Three Macrophytes of Meghalaya, *Indi a, Int. J. Sc. and Res. Pub.* 4 (6): 1-8.

Marbaniang, D., Chaturvedi, S.S. (2104). Assessment on Cr, Cd, As, Ni and Pb uptake and Phytoremediation Potential of *Scirpus Mucronatus*. *Int. J. Sc. Res. and Mang.* 2 (6): 965-969.

Marbaniang, D., Chaturvedi, S. S. (2014). Assessment of Cr+6 Accumulation and Phytoremediation Potential of Three Aquatic Macrophytes of Meghalaya, India. *Int. J. Sc. and Res.* 3 (6): 36-42.

Marbaniang, D., Chaturvedi, S. S. (2014). Cadmium Uptake and Phytoremediation Potential of Three Aquatic Macrophytes of Meghalaya, India. *Int. J. Res. Environ. Sc.* 3(7): 47-53.

Marbaniang, D., Chaturvedi, S. S. (2014). Laboratory Study of Arsenic Uptake and Phytoremediation Potential of Three Aquatic Macrophytes of Meghalaya, India. *Int. J. Sc. and Tech. Res.* 3 (7): 47-53.

Lamare, R. E., Chaturvedi, S. S. (2014). Suspended Particulate Matter in Ambient Air of Shillong City, Meghalaya, India. *Ind. J. Sc. Res. and Tech.* 2(6):37-41.

Sharma, D., Tiwari, B. K., Chaturvedi, S. S., Diengdoh, E. (2015). Status, Utilization and Economic Valuation of Non-Timber Forest Products of Arunachal Pradesh, *Indian. J. Forest and Environ. Sc.* 31 (1): 24-37.

Paul, D., Choudhury, M. (2014). Parasitism Level by *Servillia Transversa* Tothill on *Helicoverpa Armigera* (Hubner) Larvae on Tomato Crop in Meghalaya. *Journal of Biological Control*, 28(1): 21–23, 2014

Published Abroad

Sharma, D., Tiwari, B. K., Chaturvedi, S. S., Diengdoh, E. (2015). Status, Utilization and Economic Valuation of Non-Timber Forest Products of Arunachal Pradesh, India. *Journal of Forest and Environmental Science* 31: 24-37.

Rao, K. S., Saxena, K. G., Tiwari, B. K. (2014). Policy discussion paper: Linking Conservation of Terrestrial Biodiversity with Climate Change Mitigation and Adaptation and Socio-Economic Development in the Himalaya, UNESCO, United Nations Educational, Scientific and Cultural Organisation, Paris 52.

Chase Peteveno., Singh, O.P. (2013). Uses and Conservation of Ethnomedicinal Herbs by Angamis of Nagaland. *J. Trop. Med. Plants* 14: 51-58.

Shiv K., Prasad, Dey, Sudipta., Singh, O.P. (2014). Transmission Electron Microscopy of Skin and Muscle of a Hill Stream Fish, *Danio rerio* with reference to Environmental Acid Stress. *J. of Advance Microscopy Research* 9: 1-6.

Chase Peteveno., Singh, O.P. (2014). Soil Nutrients and Fertility in Three Traditional Land Use Systems of Khonoma, Nagaland, India. *Resources & Environment* 4 (4): 181-189.

Paul, D., Dey, Sudipta. (2014). Essential Amino Acids, Lipid Profile and Fat-Soluble Vitamins of The Edible Silkworm *Bombyx mori* (Lepidoptera: Bombycidae). *International J. Tropical Insect Science* 34(4) 239–247, 2014.

Books/Book Chapters/Proceedings

La Haela Walter, P., Oberlack, C., Schmerbeck, J., Tiwari, B. K. (2014). Institutions for Sustainable Governance of Forest Resources: Equity Forest Preservation and Cross Scale Interactions in Mawlyngbna, Meghalaya, India. In: *Land use related Biodiversity in India: Seminar Proceedings* Naudiyal N. and Joachim Schmerbeck (Eds). TERI University, New Delhi, 28-31.

Paul, B., Singh, O. P. (2014). Bioassessment of Water Quality in Streams of Nokrek Biosphere Reserve, Meghalaya. In *Proc. of Natl. Seminar on 'Newer Trends in Chemistry and Environment'* organized by Don Bosco College, Tura during Dec. 10-11, 2014 at Tura. 138-156.

Walia, D., Maibam, D., Sharma, Y., Saxena, A. (2014). Radon Activity Concentration in Schools of Shillong City in Meghalaya. In. *Challenging Areas in Earth Sciences Research Towards Empowering the Society*. Ajai and Walia D., Ministry of Earth Sciences, Government of India, New Delhi, Chapter No. 2, 20-28.

Walia, Devesh., Dhar, I. (2014). Assessment of Water Quality Index for Groundwater of Nongbah Area, Meghalaya. In. *Challenging Areas in Earth Sciences Research Towards Empowering the Society*. Ajai and Walia D., Ministry of Earth Sciences, Government of India, New Delhi, Chapter No. 23, 214-222.

Sharma, Y., Maibam, D., Ram, P. P., Saxena, A., Walia, D. (2015). A Study on the Indoor Radon Concentration in Hospitals in the Shillong Region, Meghalaya. *National Conference on New Approaches of Basic Sciences towards the Development of Engineering and Technology 2015*. School of Technology Assam Don Bosco University: 70

Maibam D., Sharma Y., K. Dewsaw, A., Kenye, A., Walia, D., Saxena, A. (2015). Assessment of Soil-Radium Content, Indoor Radon Activity and the Associated Radiation Risks in Kohima town, Nagaland. *National Conference on New Approaches of Basic Sciences towards the Development of Engineering and Technology 2015*. School of Technology Assam Don Bosco University: 74

Maibam, D., Sharma, Y., K. Dewsaw A., Lalventluanga, Walia, D., Saxena, A. (2015). Measurements of Radon Activity Concentrations in the Environs of Aizawl city, Mizoram. *National Conference on New Approaches of Basic Sciences towards the*

Development of Engineering and Technology 2015. School of Technology Assam Don Bosco University: 69

K. Dewsaw, A., Maibam, D., Sharma, Y., Saxena, A., Nongneng, L. E., Ram, P. P., Walia, D. (2015). Radon Measurements in the Soils of Nongstoin and Mairang regions of West Khasi Hills district, Meghalaya. *National Conference on New Approaches of Basic Sciences towards the Development of Engineering and Technology 2015*. School of Technology Assam Don Bosco University: 71

Funds Received from Agencies including NEHU/UGC

Research Projects:

New Projects

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1	Plant Diversity and Phytosociological Characterisation in Sacred Groves of Meghalaya.	PI: Professor B. K. Tiwari Co PI: Dr K. Upadhaya	Forest and Environment Department, Government of Meghalaya	Rs 20 lakhs

Ongoing

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1	Impact of fire and grazing on structure and function of grassland ecosystem of Cherrapunjee,	P.I.: Prof B. K. Tiwari Co PI: U. Shilla	Ministry of Environment and Forests, GOI, New Delhi	Rs 16.36 lakhs)

Academic Collaborations

A Memorandum of Understanding has been signed between NEHU and Department of

Geoinformatics, Hydrology and Modelling at the Friedrich-Schiller University of Jena, Germany. Professor B. K. Tiwari is one of the collaborators in this MoU.

Honours/Awards/Recognitions

Other Activities

B K Tiwari

Took the M Sc Students on a study Tour to village Mawshun East Khasi Hills, Meghalaya on dated 15th May 2014 for field work in the field of forest management. Professor Tiwari delivered a lecture entitled “Traditional Forest Management Systems in North-East India in UGC-ASC 29th Orientation Programme.

Participated as a Panelist in the ‘Coffee Table Style Panel Discussion on World Environment Day Theme: Raise Your Voice and Not the Sea Level’ in Pinewood Hotel, Shillong on 5th June 2014.

O. P. Singh

Was felicitated by the organizers of the “*International Conference on Mother Earth: Save it to Achieve a Sustainable Future for All*” in the conference held during Dec. 10th -12th , 2014 at Burdwan, West Bengal. Prof. Singh is a member of the Board of Undergraduate Studies (BUGS) in the Department of Ecology & Environmental Science, Assam University, Silchar, Assam and attended its meeting held on March 13th , 2015.

D. Paul

Panelist in panel discussion on “Ecological Crisis: The burning issue of the day” at Union Christian College, Barapani on 9th -8th -2014.

DEPARTMENT OF GEOGRAPHY

Head : Prof. H.J. Syiemlieh
Telephone : 0364-2723211
Email : hjsyiemlieh@rediffmail.com
Faculty :

Designation	Name and Qualification	Specialization
Professor	A.C.Mohapatra, MA, M. Phil (JNU), Ph.D(NEHU)	Regional Development & Planning, Philosophy and Methodology in Geography, Environmental Issue
	B.S.Mipun, MA (JNU), Ph.D (NEHU)	Agricultural Geography, RS & GIS
	D.K.Nayak, MA, M.Phil, Ph.D (JNU)	Social and Population Geography, Gender and Health related Issues
	Z.H.Qureshi, MA & Ph.D (M.I.Sukhadia University)	Geomorphology, Environment and Ecology
	H.J.Syiemlieh, MA, M.Phil & Ph.D (NEHU)	Fluvial and Applied Geomorphology
	Sunil Kumar De, M.Sc., Ph.D. (Calcutta University)	Geomorphology (Geomorphological Hazards)
Associate Professor	L.Cajee, M.Sc & Ph.D (NEHU)	Bio- Geography and Quantitative Techniques
	P.G.Momin, M.A. (JNU), M.Phil (NEHU)	Climate and Ecology
Assistant Professor	P.K.Ryngnga, M.A. (NEHU), M.Phil & Ph.D (JNU)	Regional Development, Urban Geography, Remote Sensing & GIS
	S. Purkayastha, MA & Ph.D (NEHU)	Social and Population Geography, Environmental Issues

Thrust Areas of Research

Geomorphology with focus on Regional and Applied Geomorphology, Environmental studies with focus on Climatology and Climate Change, Water Resources and Hydrology, Biogeography and Biodiversity and Watershed Management Studies, Regional Development and Regional Planning, esearches on Social and Cultural Diversity of the North-Eastern Region with a special focus on Tribal Development, GIS and Remote Sensing applications in Environment and Land Use Planning.

Brief Statement of Academic Activities

One candidate qualified in the UGC NET-JRF, and as many as twenty (20) candidates from the Department qualified in the UGC NET (8 Females and 12Males). Apart from its usual teaching and research programmes, the Department was involved in organising a joint Workshop in collaboration with the NESAC, Barapani and IGU. Only the Department of Geography has the distinction of running a self-financed two-semester PG Diploma in Geoinformatics in the University. The fourth

batch is going to complete the Diploma in July, 2014.

The faculty remained active in publication of research papers in a number of international and national journals as well as in book chapters. Most of the faculty members attended and presented research papers in national and international Conferences/ Seminars. A number of research scholars also attended and presented research papers in national and international Conferences and Seminars. As many as fourteen research scholars were awarded Ph. D. degree. The research scholars of the Department took keen interest in running of the '*NEHU Geographical Research Forum*' with an objective of sharing, exchanging and improving intellectual capacity. The forum organised a number of talks on contemporary issues of geographical significance, and a number of research scholars presented research papers and progress of their works in the *Forum*. The Department has Geographical Society of North-Eastern Hill Region (India) which publishes the journal "*Hill Geographer*" regularly.

Students' Profile

Enrolment Capacity: P.G. - 38, M.Phil. – 15, Ph. D.: Variable PGD in Geoinf.

Actual Admissions: 3 8 1513 20

Degree	SC	ST	Gen	Male	Female	Meghalaya	Non-Meghalaya	Total
M.A./M.Sc.	-	35	3	18	20	24	14	38
M. Phil	2	8	5	7	8	4	11	15
Ph.D.	2	5	6	6	7	4	9	13
PG Diploma in Geoinformatics	-	12	7	10	10	5	15	20

Degrees Awarded

Degree	SC	ST	Gen	Male	Female	Meghalaya	Non-Meghalaya	Total
M.A./M.Sc.	-	35	3	18	20	24	14	38
M. Phil	-	5	2	3	4	2	5	7
Ph.D.	-	7	7	5	9	3	11	14
PG Diploma in Geoinformatics	-	-	-	-	-	-	-	-

Students Awarded Ph.D. Degree

Name of the Students	Title of Thesis	Name(s) of Supervisor/ (s)Joint Supervisor
Ms.Moumita Talukdar	“ Crop productivity and farm Income in Tinsukia District of Assam”	Prof.Surendra Singh
Ms.Arati Yadav	Tribes and forest : A study of common property resources in Meghalaya	Prof. A.C.Mohapatra
Ms.Nabanita Kanungo	Consumption and the Urban Morphology : A Comparative Study of the Recreation of space in Shillong and Guwahati.	Prof. A.C. Mohapatra
Ms. Mercy Chand Daimari	Livelihood pattern in Ri-Bhoi District of Meghalaya	Prof.Surendra Singh Prof. B.S. Mipun
Md. Eahya Al Huda	Rainfall Runoff Relationship in Dikrong River Basin	Prof.Surendra Singh
Ms.Mayuri Das	Socio –Economic and Demographic Consequence of River Bank Erosion in Majuli Island , Assam	Prof. D. K. Nayak

School of Human and Environmental Sciences

Shri. Ajit Prasad Rout	Crimes Against Children: A Geographical Study of Undivided Kamrup District, Assam	Prof.A.C. Mohapatra
Shri. S. ThangboiZou	Conflict-Induced Internally Displaced Persons in the Hill Areas of Manipur; A Socio-Geographic Study with Special Reference to Churachandpur District.	Prof. D. K. Nayak
Mr. R. Vanlalvena	Cropping Pattern and Agricultural Productivity in Lunglei District of Mizoram	Prof. B.S. Mipun
Ms.Jenita Mary Nongkynrih	Shifting Courses and Fluvial Processes with Special Reference to the Manas River System	Prof. Z. H. Qureshi
Mr. P. Lienzapau Gangte	Quality of Life in Churachandpur District of Manipur	Prof. A.C. Mohapatra
Ms.Markynti Swer	Ageing of Population in North Eastern Region of India with Special Reference to the State of Meghalaya	Prof. D. K. Nayak
Ms.Bendanginla	Assessment of Runoff in Shifting Cultivation Areas of Upper Dikhu River Basin	Prof. S. Singh & Prof. H.J. Syiemlieh
Ms. Erica M. Lyngdoh	Unemployment among Women in Shillong	Prof. A.C. Mohapatra

Placement of Students: NA

Courses Conducted:

M.A. /M.Sc.

Semester-I

Geomorphology, Climatology, Economic
Geography, Geographical Thought-I

Quantitative Techniques in Geography-I,
Cartography-I (Practical)

Semester-II

Geography of India, Principles of Ecology
(open course) Biogeography (open course),

Population and Settlement Geography,
Geographical Thought-II, Quantitative

Techniques in Geography-II, Cartography-II
(Practical), Geography of North-East India
(Open course)

Semester-III

Regional Development and Planning, Social and Cultural Geography (open course), Environment and Development (open course), Research Methodology, Computer Aided Cartography (Practical), Remote Sensing and GIS (Practical)

Semester-IV

Dissertation, Advanced Geomorphology, Tropical Geomorphology, Environmental Geomorphology, Applied Climatology, Agricultural Geography, Geography of Tourism, Urban Geography, Social Geography, Cultural Geography, Population and Development

M.Phil. / Ph. D. (One Semester)

Research Methodology in Geography, Advanced Tools and Techniques in Geographical Researches, Contemporary Geomorphic Issues in North-east India, Geo-Hydrological Processes of Extreme Humid Tropics; Population, Development and Environment, Remote Sensing and GIS Techniques for Agricultural Geography, Contemporary Issues in Urban Development with Special Reference to India, Geographical Perspectives in Cultural Tourism.

PG Diploma in Geoinformatics

Semester-I

Principles of Remote Sensing & GPS; Fundamentals of GIS; Cartography & Geo-

Statistics; Geosciences & Image Interpretation; Computer Programming.

Semester-II

Digital Image Processing; Spatial Analysis & Modelling; Project; Geoinformatics in Agriculture, Soil & Land Evaluation; Geoinformatics in Regional and Urban

Planning; Geoinformatics in Water Resources; Geoinformatics in Disaster Management

Study Tours/Field Trips of Students

Teacher In-Charge : Prof Sunil Kumar De, accompanying teacher Prof. D.K.Nayak.

Places Visited : Puri – Kolkata - Sunder ban.

Duration : Fourteen days from 8th to 18th February, 2015.

Purpose : All India Study Tour under Course No. GEOC 201- Geography of India.

Teacher In-Charge : Prof. H.J. Syiemlieh.

Places visited : In and around Mawsiatkhnam, East Khasi Hills District, Meghalaya.

Duration : Seven days from 16th to 19th December, 2014.

Purpose : Socio-economic and physical survey by the IV Semester M.A. /M.Sc. students, under Course No. GEOC 401- Dissertation.

Seminars/Conferences/Symposia/Extension Programme:

Organised

Organised a Regional Conference on Geoinformatics for Early Warning System of Disasters with Special Emphasis on NE Region, 18th -19th, September 2014, Organised by Indian Society of Geomatics and Dept. of Geography, NEHU, Shillong. Organized by Dr P. K. Ryngnga

46th Regional Science Conference and *National Seminar on Underdevelopment of the North East Region and the Indian State* 6th -8th November, 2014 organized by the Department of Geography, North-Eastern Hill University, Shillong and sponsored by NEHU, ICSSR New Delhi & ICSSR-NER, NEHU Campus, Shillong. Organized by Dr P. K. Ryngnga.

'Climate Change, Food Security and Livelihoods' held in the Department of Geography, NEHU, Shillong on the 2nd - 3rd March, 2015 under SAP DRS III.

Attended

A.C. Mohapatra

Chaired an Academic session in the IIG Conference at Gauhati University, Guwahati, February 24th -27th, 2015

Delivered an Invited Special lecture by Department of Geography, Burdwan University, West Bengal for SAP Seminar on March 17th -18th, 2015 and gave a lecture on "One people, the Two Bengals: Understanding the Development Dilemma in Western Region of West Bengal".

B.S.Mipun

As a Panelist Stakeholders' Consultative Workshop on The BCIM (Bangladesh-China-India-Myanmar) Economic Corridor from 1st -2nd May, 2014, MAKAIAS, Salt Lake, Kolkata.

Presented a paper on "Desertification Status Mapping of Meghalaya" in the Global Fair and *Workshop on Long Term Observing System of Mountain Social-Ecological System*, 15-19th July, 2014 in Reno, Nevada, USA,

Presented two papers on i) Flood Hazard in Protected Areas of Assam with Special Reference to Kaziranga and Dibru-Soikhowa National Park: A Geo-Spatial Approach and ii) Spatial Multi-criteria Decision Analysis for site Suitability Assessment for Solid Waste Management in Greater Shillong Planning Area: An Appraisal Study of Shillong Municipality and Chaired a technical session in the *Regional Conference on Geoinformatics for Early Warning System of Disasters with Special Emphasis on NE Region*, September

18th -19th, 2014 Organised by Indian Society of Geomatics, held at NEHU, Shillong,

Chaired a technical session in the 36th Indian Institute of Geographers' Meet and *International Seminar on Environmental Changes and Challenges: Local and Global Perspectives*, February 25th -28th 2015, Department of Geography, Gauhati University, Guwahati.

D.K Nayak

Chaired and presented a paper on Development Projects and Forced Migration in Inter-Disciplinary *International Seminar on Human Migration in South Asia: Dynamics and Implications*, Synod College, Shillong, 9th -10th October, 2014.

Delivered a Special Lecture at St. Mary's College Shillong on Changing Fields of Geography, 25th October, 2014

Presented a Paper on Recapturing 'Region' in Geography Teaching and Research in *National Symposium on Re-Orienting Teaching and Research in Geography* at the University Level, Department of Geography, Savitribai Phule University of Pune, Pune, December, 26th to 28th, 2014.

Chaired and Presented special lecture on Changing Household Size and Composition in North-East India-Demographic Implications and consequences" in 36th IIG Congress and *International Seminar on Environmental Changes and Challenges: Local, regional and Global Perspectives*. Presented

Presented a paper on Development Induced Displacement and the Gender Question in *National Seminar on Gender and Displacement in the North East*, Department of Women's Studies, Gauhati University in collaboration with Indian Association for Women's Studies, 17th -18th March, 2015.

Z.H Quereshi

Chaired the Inaugural and Valedictory Sessions in the *National Conference on "Biodiversity: Challenges and Issues"*, organised by the Einstein Science Inst., Shillong Chapter, and Dept. of Geography, NEHU, Shillong, on 5th and 6th June, 2014.

Chaired the Sixth Session of the Regional Science Congress and *National Seminar on the theme Under Development in the North East India* organised by Dept. of Geography, NEHU, Shillong on 10th November, 2014.

Chaired Technical Sessions I and III of the 36th Indian Geographers' Meet of the Indian Institute of Geography, and *International Seminar on 'Environmental Changes and Challenges: Local, Regional and Global Perspectives'*, organised by Department of Geography, Gauhati University, Guwahati, from 25th to 28th February, 2015.

H. J. Syiemlieh

Presented two papers entitled i) Application of SCS Curve Number in Runoff estimation in Cherrapunjee, Meghalaya ii) Bedload Grain Size distribution along the main channel of Pahamsyiem Watershed in the 27th IGI Annual Conference at Digha, 20th -22nd Nov, 2014.

Presented a paper on 'Water Crisis Management During the Dry Season in the Most Humid Southern Slopes of the Meghalaya Plateau'. Symposium on *Water Crisis in the Asia - Pacific Region*, Kagawa University, Japan from 10th - 12th Feb, 2015.

Sunil K. De

Delivered an invited talk on 'Landslide Hazard Zonation in North District of Sikkim of Sikkim Himalaya'. *International Geographical*

Union Commission (IGU) Conference on Geohazards, Biodiversity, Resource Sustainability and Mountain Response to Global Change, 4th-5th June, 2014, organized by the Department of Geography and Regional Development, University of Kashmir, Srinagar, India.

Delivered an invited talk as resource person in the UGC Sponsored *National Seminar on 'Application of Modern Techniques for the Management of Contemporary Environmental Hazards and Disasters'*, 5th-6th September, 2014. Organized by the Department of Geography, Haringhata Mahavidyalaya, Subarnapur, West Bengal.

Delivered special lecture as resource person in the UGC Sponsored *National Seminar on 'Population, Urbanization and Changing State of Environment'*, 11th -12th September, 2014. Organized by the Department of Geography, Birpara College, Birpara, Jalpaiguri, West Bengal.

Chaired a Technical Session and presented three papers as Co-author in the 27th *Annual Conference of the Indian Institute of Geomorphologists (IGI) on 'Geomorphology and Geospatial Technology in Environmental Management and Societal Development'*, 14th -17th November, 2014. Organized by the Department of Geography and Environmental Management, Vidyasagar University, Medinipur, West Bengal.

Chaired the Session on Geomorphological Hazards and delivered invited talk on 'Regional Scale Landslide Risk Assessment and Proposed Management Plan - A Case Study on Dhalai District, Tripura, India' *International Conference Analysis and Management of Changing Risks for Natural Hazards*, 18th -19th November, 2014, Padova, Italy.

Chaired two sessions on 'Geomorphological, Hydrological and Pedological Patterns' and Social and Cultural Patterns and Processes in Geography'. 36th Indian Geographers Meet and "International Seminar on Environmental Changes and Challenges: Local, Regional and Global Perspectives", February 25th -28th, 2015. Organized by the Department of Geography, Gauhati, University, Assam.

Delivered invited talk on 'Human Interference on Landslides in Darjiling Himalayas' in the UGC DRS-III Seminar (20th -21st March, 2015), in the Department of Geography, Delhi University, Delhi on 20th March, 2015.

P.K Ryngnga

Presented a paper on Natural Disasters and Urbanization: Building Vulnerability Assessment for Earthquake-Prone Cities in the *Regional Conference on Geoinformatics for Early Warning System of Disasters with Special Emphasis on NE Region* organised by Indian Society of Geomatics and Dept. of Geography, NEHU, Shillong during 17th -19th Sept 2014.

Presented a Paper on Challenges of Waste Management in Urban Areas in Shillong, *National Conference on Geo-Environmental Issues and Sustainable Urban Development*, GEN-2014 Department of Civil Engineering, Motilal Nehru Institute of Technology Allahabad, UP. October 11th -12th 2014

Presented a paper on Tourism and Development in North East India, 46th *Regional Science Conference & National Seminar on Underdevelopment of the North East Region and the Indian State*, 6th -8th November 2014, Department of Geography, North Eastern Hill University.(Convener).

As a co-author presented a paper on Landuse Landcover Change Detection of Mawlai-Mawkynroh area in *36th Indian Geographers' Meet & International Seminar on Environmental Changes and Challenges: Local, Regional and Global Perspectives*, Department of Geography, Gauhati University 25th to 28th February, 2015 (with PallabiDeka).

S. Purkayastha

Presented a paper on Tourism Industry as an Alternative Strategy for Sustainable Management of Natural Resource Base in Meghalaya, India, in the UGC sponsored *National Seminar on Environment and Civil Society: Issues, Problems and Remedies*, held at S. B. Deorah College, Guwahati on 29th -30th August, 2014.

Delivered an invited talk on Value Education in the Perception of Gender and Women's Empowerment", in the *National Seminar on Back to Root : Revisiting Value Education for Life*, organized by William Carey University, Shillong on 18th -19th November, 2014.

Presented a paper titled Migration in North Bengal: Challenges Ahead in the UGC sponsored *National Seminar on Re-imaging Human Nature Relationship* held at Siliguri, Don Bosco College on 21st -22nd November, 2014.

Publications

Research Papers

Published in India

Mida, Mum., Mondal, P.P., Mipun, B.S. GIS Based Analysis of Trends of Fire Occurrence in Relation to Deforestation Rate: A Case Study of Arunachal Pradesh. *Indian Cartographer*, 33,428-433, 2013. (co author)

Nayak Kumar, Debendra., Rabi Narayan, Behera. (2014). Changing Household Size in India: An Interstate Comparison” *Transactions of the Institute of Indian Geographers*. 36, 1:1-18.

Bhattacharya, Deepak., Misra, Bijoy., Kumar Nayak, Debendra., Kumar., Panigrahi Dwiti, Krishna. (2014). Geography, Geomorphology and Geology as Coupled Factors in Shillong and Sikkim Plateau Hydrological Cycles „*International Journal of Earth Sciences and Engineering*. 7, 5: 1681-1689

Syiemlieh, H.J., Khutso, W., Lyngdoh, A., Khanganpam, P.S. (2013). Bedload Characterisits of Lower Order Streams in Extremely High Rainfall Region: A Case Study of Um-U-Lah Watershed, Cherrapunji, Meghalaya. *Journal of Indian Geomorphology* 2:29-36.

Ghosh, K., Bandyopadhyay, S., De, S.K. (2013). Regional Scale Landslide Risk Assessment Using Fuzzy Set Approach: A Case Study on Dhalai District, Tripura. *Journal of Indian Geomorphology*, 2: 82-90 (published in 2014).

Sen, Subhajit., Mitra, Saptarshi., De, Sunil Kumar. (2013). Subhajit Sen1, Saptarshi Mitral, Sunil Kumar De2Micro Geomorphic Pattern of Upper Dupi Tila Formation within the “Tilla-Lunga” Landform in the Western Portion of Tripura Fold Belt, Tripura India. *Hill Geographer*, XXIX: 1 (2013), 1-13, (ISSN 0970-5023) (published in 2015)

Ryngnga, P.K. (2014). Rural Tourism in Meghalaya: A Road to Sustainability in Development, Man and Society, *A Journal of North East Studies*, Vol XI, Summer, ICSSR, NERC, Shillong, 129-142.

Ryngnga, P.K. (2014). Challenges of Waste Management in Urban Areas in Shillong in

Proceedings of the *National Conference on Geo-Environmental Issues and Sustainable Urban Development*, GEN, 130-135.

Published Abroad:

Huda, E. Al., Baruah, B., Sarma, P.K., Nath, K.K., Mipun, B.S. Assessment of Land Use/ Land Cover Changes in South Garo Hill District of Meghalaya(- A Geospatial Approach, Published by European Academic Research. II, (6) September 2014 , Bride Center, Romania (co-author).

Sen, Subhajit., Mitra, Saptarshi., Debbarma, Chandrani., De, Sunil Kumar. (2014). Impact of Faults on Landslide in the Atharamura Hill (along the NH 44), Tripura. *Environmental Earth Sciences*, Springer, DOI 10.1007/s12665-014-3778-4(ISSN: 1866-6280).

Bandyopadhyay, Shreya., Ghosh, Kapil., De, Sunil Kumar. (2014). A Proposed Method of Bank Erosion Vulnerability Zonation and its Application on the River Haora, Tripura, India. *Geomorphology*, Elsevier, 224, 111-121 (ISSN: 0169-555X).

Ryngnga, P.K. (2015). GIS Based Landuse Suitability Analysis for Urban Development, *International Journal of Scientific Research*, 4(3), 41-45.

Ryngnga, P.K. (2015). Land Evaluation for Land Use Planning: A Case of Mawphlang, East Khasi Hills, Meghalaya, 2(2). March, 2015, *International Journal of Research and Innovations in Earth Science*, 33-36

Book/Book Chapter/Proceedings

H.J. Syiemlieh

Das, Prasenjit, Syiemlieh, H.J. (2015). Seasonal Behaviour of Rainfall in North East India. In *Exploring Environment and Sustainable Development*, P.K.Kumar, N.H.Zaidi and

School of Human and Environmental Sciences

M.M.Khan (Eds), Regal Publications: Chapter No.4, 35-45.

Syiemlieh, H.J., Das, Prasenjit. (2015). Spatial Distribution of Wastelands in Sonitpur District, Assam. In *Exploring Environment and Sustainable Development*, P.K.Kumar, N.H.Zaidi and M.M.Khan (Eds), Regal Publications: Chapter No.4, 35-45.

S.K. De

De, Sunil Kumar. (2013). Impact of Rubber Plantation on Environment: A Case Study of Some Selected Areas of Tripura. In *Climate Change, Biodiversity and Green Economy* (Eds : Sharma, H.S.; Padmaja, S.; Sharma, Ganesh). Concept Publishing co. Pvt. Ltd., New Delhi, 239-249 (ISBN 13:987-81-8069-995-5) (published in 2014)

Research Projects

New Projects

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1.	A Preliminary Study on the Neolithic Culture of Khasi Hills of Meghalaya	Prof. H.J.Syiemlieh (Co-PI)	NEICOD, NEHU	
2.	'Niangtaser' - a unique biodiversity resource from RiBhoi district of Meghalaya	Prof. H.J.Syiemlieh (Co-PI)	Meghalaya Basin Development Agency, Meghalaya	

Ongoing

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1	Rainfall-Runoff-Sediment Response near Uranium Mining site, Domiasiat	Prof. H.J.Syiemlieh (PI) Prof. S.Singh (Co-PI) Prof. O.P.Singh (Co-PI)	DAE(BRNS) , Mumbai	20 lakhs
2	Desertification Status Mapping of India (Second Cycle) in collaboration with SAC, ISRO, Ahmedabad	Prof. B.S.Mipun	Funded by MoEF, New Delhi,	Rs 17,83,600.00

Academic Collaborations

Indo – Polish Collaboration on ‘Impact of Extreme Rainfall on Soil Properties and Water resources in NE India’

Indo – Japan Collaboration on ‘Climate Change in South Asia’

Any Other

A.C.Mohapatra

Participated in SAP Seminar of Dept. of Geography, NEHU, March 2nd -3rd, 2015 with focal theme on “Climate Change and Livelihoods in North East India”. Chaired a Session

B.S Mipun

Delivered two lectures in the 28th Orientation Course organized by ASC, NEHU, Shillong, May 8th 2014.

Delivered two lecture in the Refresher Course organized by Dept. of Education, ASC, NEHU, Shillong, May 31st 2014.

Delivered two lecture in the 29th Orientation Course organized by ASC, NEHU, Shillong 23rd June-20th July, 2014.

Delivered two lecture in the Refresher Course in Disaster Management organized by ASC, NEHU, Shillong 25th and 26th Sept. 2014.

Delivered two lecture in the UGC Refresher Course in Education organized by ASC, NEHU, October 13th -22nd 2014.

Acted as a Resource Person in the Workshop on RS and GIS organized by St. Mary’s College, Shillong, October 18th, 2014.

Delivered two lecture in the UGC Refresher Course on Community Education organized by ASC, NEHU, Shillong 27th Oct 2014.

Delivered two lecture in the UGC Refresher Course in Political Science organized by ASC, NEHU, 3rd & 8th December.

Delivered two lecture in the 31st UGC Orientation Course organized by ASC, NEHU, Shillong 4th March, 2015.

S.K De

Delivered two lectures as a Resource Person in the Refresher Course in Adult and Continuing Education organized by the UGC- Academic Staff College, North-Eastern Hill University 28.10.2014.

Delivered a lecture for PG Students in the University of Modena, Italy on ‘Geomorphological Hazards in Tripura: Some cases of Concern’ on 20th November, 2014.

Delivered a lecture for PG students for Common Audience as a Guest Faculty in the University of Paris Sorbonne, Abou-dhabi on 11th March, 2015.

D.K Nayak

Joined as Dean, School of Human and Environmental Sciences, North Eastern Hill University, Shillong with effect from 6th January, 2015 for a period of three years.

Delivered a series of lectures in Orientation/ Refresher Courses conducted by the Staff College; Department of Adult and Continuing education and Department of English.

Conducted Field work of the 2nd semester Geography Students at Orissa Coast and Sundarbans, 8th -18th February, 2015.

H.J.Syiemlieh

TEQIP-Short term course on “Water Resources Management and Climate Change Impacts Assessment 22nd -26th Dec, 2014.

**DEPARTMENT OF RURAL DEVELOPMENT AND
AGRICULTURAL PRODUCTION
(Tura Campus)**

Head : Dr. D. C. Kalita
Telephone : 9436708669 (M); 8731998352 (M)
E-mail : durgack@yahoo.com
Faculty :

Designation	Name and Qualification	Specialization
Professor	S .C. Srivastava, Ph.D. in Economics (Allahabad University)	Regional Planning, Micro Planning Development Studies, Rural Development
Associate Professor	D.C. Kalita, Ph.D. in Agricultural Economics (Assam Agricultural University)	Project Planning and management, Micro-credit and Micro-finance, Research Methodology, agricultural Marketing
Assistant Professor	J. P. Jaiswal, M.Sc. Agricultural Engineering (Allahabad University)	Soil & Water conservation
	B.K. Mishra, Ph.D. in Animal Husbandary and Dairying (Banaras Hidu University)	Dairy Technology
	Binu Mathew, Ph.D. in Horticulture (Bidhan Chandra Krishi Vishwavidyalaya)	Fruits and Orchard Management
	Lolly S. Pereira, Ph.D. in Horticulture (Bidhan Chandra Krishi Vishwavidyalaya)	Fruits and Orchard Management

Thrust Areas of Research:

The department mainly concentrates on multi-disciplinary research in the areas of the rural development, impact assessment. Micro and decentralized planning, local governance, globalization and food security, making of rural products, agronomy, horticulture and animal science.

Brief Statement of Academic Activities:

Being multidisciplinary in nature the department undertakes both teaching and research

in the areas concerning rural development, agronomy, horticulture and animal science. The department provides both theoretical and practical exposure to M.Sc. (RDAP) students in various areas relating to the multidisciplinary P.G programme within the stipulated time. The department also running M.Phil and Ph.D Programme. In addition to this, the department is also involved in doing consultancy, research, seminars and workshops.

Enrolment Capacity:

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
M.SC.	1	23	1	5	20	23	2	25
M.Phil	-	1	1	-	-	-	-	2
Ph.D	-	4	-	-	-	-	-	4

Degree Awarded:

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
M.SC.	-	-	-	-	-	-	-	-
M.Phil	-	-	-	-	-	-	-	-
Ph.D	-	1	2	-	-	3	-	3

Students Awarded Ph.D:

Name of the student	Title of Thesis	Names(s) of Supervisor/ Joint Supervisor
Mr. Jamestar W Momin	Self Help Groups and Empowerment of Rural Women in West Garo Hills District, Meghalaya	Dr. D. C. Kalita
Mr. Biswajit Paul	Physico-Chemical and Micro-bial quality of Milk in Garo Hills.	Dr. B. K. Mishra
Ms. Ajanta Dev	Diversification of Agriculture in West Garo Hills , Meghalaya	Dr. B. Mathew(Supervisor) Prof. E. D. Thomas(Joint Supervisor)

Educational Tour of Students:

Teacher In-charge : Dr. Lolly S. Pereira

Places/Institutions visited : Delhi, Agra, IARI, NDRI

Purpose of tour : Educational

Publications:

Momin, J., Kalita, D.C. (2014). Utilization of Pattern of SHG Finance in the West Garo Hill of Meghalaya, *International Journal of Applied Management*, 155-162

Islam, Md. Mokidul., Kalita, D. C. (2014). Effect of Rice (*Oryza sativa* L.) Establishment Methods and Integrated Weed Management on Productivity and Soil Fertility in Eastern Himalayas, India. *The Journal of Agriculture and Natural Resources Science*: 123-127

Islam, Md. Mokidul., Kalita, D. C. (2014). Agro-economic Analysis of Wetland Rice Cultivation in West Garo Hills District of Meghalaya, India. *Agricultural Science Digest-A research Journal*. 34(3): 215-218

Momin, J., Kalita, D.C. (2014). Adequacy of Self-Help Groups Finance on Rural Women Beneficiaries in West Garo Hill District, Meghalaya. *Transient*. 4, 108-114

Momin, J., Kalita, D.C. (2014). Impact of SHG Finance on Income and Employment of Rural Women in West Garo Hills District of Meghalaya. *Source. J*. 4,105-113

Momin, J., Kalita. D.C. (2014). Economics of Income Generating Activities under SHG Finance in Meghalaya ,*Journal of Hill Agriculture*. 5(2), 190-193

Hangsing, H., Mathew, B., Kalita, D.C. (2015). Factors Affecting Mandarin Productivity in Garo Hills (Meghalaya)- An Empirical Study. *Journal of Agriculture and Technology*, 2(1), 108-111.

Dang, J.C., Das, S., Mathew, B. (2014). Medicinal Plants of Meghalaya: Uses and Conservation Strategies. *Transient*, 4:59-65. ISSN 2250-0650.

Dedril, K. S., Mohan, R., Mathew, B. (2014). Medicinal Plants and its usage among the Meitei

Community of Manipur- An Ethnobotanical Study. *Indian Journal of Arecanut, Spices and Medicinal Plants*, 16 (1):14-17. ISSN 0972-2483.

Mathew, B., Pereira, L.S. (2014). Vermicomposting – A Profitable Enterprise for Rural Youth. *Transient*, IV, 59-65. ISSN 2250-0650.

Chakraborty, R, Marak, L.B.C and Pereira L.S. (2015). Heart rot of Citrus Indica Tanaka caused by Ganoderma lucidum reported from Nokrek Biosphere reserve in Garo Hills. *Indian Forester*. 141(1): 120-121

Chakraborty, R., Marak, L.B.C., Pereira, L.S. (2015). Impact of Jhum Cultivation on Forest Ecosystem in Nokrek Biosphere of Garo Hills with Special Reference to Certain Soil Microflora. In: *Proceedings of the National Seminar on newer trends in Chemistry and Environment* held at Don Bosco College, Tura, Meghalaya on 10th -11th December, 2014, 183-187.

Book/Book Chapters/Proceedings

Kalita, D.C. (2014). Feasibility of investment in Pond Fish Cultivation under IRDP in Assam. In *Financing Priority Sector in India: Scenario*,

Setback and Solution. Manas Publishers and Distributor, Jaipur. 41-50.

Kumar, S., Mishra, B.K., Kumar, M. (2014). *Advances in Livestock Production and Management*, New India Publishing Agency, New Delhi/978.

Mishra, B.K. (2014). *Dairy and Food Processing Industry (Recent Trends)-Volume-I*. BIOTECH Books, New Delhi/978-81-7622-298.

Mishra, B.K. (2014). *Dairy and Food Processing Industry (Recent Trends)-Volume-II*. Jaya Publishing House, New Delhi/978-93-82471-19.

Subrota, Hati., Surajit, B.K., Mishra, Mandal., Mishra, B.K. (2014). *Dairy Product Technology-Recent Trends*. Daya Publishing House, New Delhi/978-93-5124-368.

Sangma, SYA., Dang, J.C., Pereira, L.S., Mathew, B. (2015). In Vitro Germination of Citrus Macroptera mont. An Endangered Plant of Garo Hills, Meghalaya, India. In: *Proceedings of the National Seminar on Newer Trends in Chemistry and Environment* held at Don Bosco College, Tura, Meghalaya on 10th -11th December, 2014, 219-224.

Research Projects:

Ongoing:

Sl. No.	Title of the Project	PI / Co-PI	Funding Agency	Amount
1	Prospecting Lactic Cultures from North-Eastern Regions to Develop Functional Fermented Soya Foods with Potential Health Benefits	Pi: Dr. B. K. Mishra Co-Pi: Dr. A.K. Chaurasiya	DBT, Govt of India	Rs. 72.062/-

Academic Collaboration:

The department has undertaken professional collaboration with NIRD, Hyderabad and CAPART New Delhi, ICAR Research complex for NEH Region, Barapani for practical exposure and also for getting better seed varieties for RDAP farm. The department has also developed networking with the local level NGOs where the third and fourth semester students are acting as resource persons and interacting directly with the villagers.

Any Other Information:

Field Trips:

Field trips are an integral part of the course curriculum of the department and on an average student visits either a village to interact with the beneficiaries of various governments' programmes or organizations/departments involved in imple-

mentation of rural development, horticulture and livestock development programmes. All these visits are assignment oriented and marks are awarded on the basis of the reports prepared by the students. As such all courses in-charge are involved in these visits.

Infrastructure Facilities:

The department established one Bio-informatics Infrastructure Facility (BIF) lab with 12 computers in 2014-15. The department has one instructional farm unit housing one Vermicompost unit, Net House & Poly House, a horticulture unit and agronomy unit Cow and Heifer shed. The department has a fully functional instructional dairy unit and four laboratories for horticulture, agronomy, soil science and animal science were established for giving practical training to M.Sc (RDAP) students.

DEPARTMENT OF HORTICULTURE (Tura Campus)

Head : Prof. C. Perinba Suresh
Telephone : 8974455216 (M); 9434126786 (M); 03651-223628 (O)
E-mail : nehuhort@gmail.com, sureshcp2112@gmail.com
Faculty :

Designation	Name and Qualification	Specialization
Professor	C. Perinba Suresh, M.Sc. Agri. (Hort.), Ph.D. (Hort.)	Fruits & Orchard Management, Post Harvest Technology of Horticultural Crops
Associate Professor	Sunil Kumar, M.Sc. (Hort.), Ph.D.(Hort.)	Floriculture
Assistant Professor	Arvind KumarChaurasiya, M.Sc. Agri. (Hort.), Ph.D. (Hort.)	Post Harvest Technology of Horticultural Crops
	Arindam Barman, M.Sc. (Hort.)	Vegetable Science
	YumnamSomi Singh, M.Sc. (Hort.)	Fruit Science

Thrust Areas of Research:

The thrust area lies on conservation of genetic biodiversity, sustainable green farming and to adapt to the changing climate scenario.

Brief Statement of academic Activities

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 develop technical manpower in North-Eastern regions and Meghalaya state in particular.

School of Human and Environmental Sciences

Students' Profile

Enrolment Capacity: M.Sc.-18 Ph.D.—Variable

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
M.Sc.	-	15	3	5	13	15	3	18
M.Phil.	-	-	-	-	-	-	-	-
Ph.D.	-	-	-	-	-	-	-	-

Degrees Awarded

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
M.Sc.	-	-	-	-	-	-	-	-
M.Phil.	-	-	-	-	-	-	-	-
Ph.D.	-	-	-	-	-	-	-	-

Courses Conducted

M.Sc.

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 & Development of Horticultural Crops, Tropical and Dry Land Fruit production, Biodiversity & Conservation of Fruit Crops. Production Technology of Warm Season Vegetable Crops, Seed Production Technology of Vegetable Crops, Production Technology of Cut Flowers, Landscaping & Ornamental garden, Production of Plantation Crops, Library Information & Basic Concepts of Laboratory Techniques.

Semester III:

Post Harvest Technology for Fruit Crops, Production Technology and Processing of Spice Crops, Value Addition in Flowers, Organic Horticulture, Climate Management in Horticulture, Biodiversity and Conservation of Fruit Crops, Tropical and Dry Land Fruit Production, Production Technology of Cool Season Vegetable Crops, Production Technology of Cut Flowers, Research /Dissertations (3)

Semester IV:

Intellectual Property and Its Management In Agriculture, Research /Dissertations (9)

Educational Tour of Students:

Teacher-in-Charge : Dr. A K Chaurasiya and Mr. Y S Singh.

Places/Institutions visited : South India (IIHR, TNAU, KAU, CPCRI, CTCTRI, NBPGR, UAS Bangalore etc).

Duration of tour : 17 days.

Purpose of Tour : To expose the students to institutions outside the region and to instill in the minds of students the best practices in maintenance of farm, orchard and processing plants.

Seminars/Conferences/Symposia/Extension Programmes etc.

Attended

C.P. Suresh

Presented paper on the topic 'Effect of Different Combinations of N & K On Fruit Characteristics And Chemical Quality of Plantain Cv. Nendran (AAB)' in an *International Conference on Horticulture for Nutritional, Livelihood and Environmental Security in Hills: Opportunity and Challenges* organized by UBKV, Kalimpong, Darjeeling, West Bengal, India on 22nd May, 2014.

Delivered an Invited lecture on the topic 'Horticulture Entrepreneurship: Future Potential for Secure Livelihood for North East India' in the *National Symposium on Role of Logistics and Supply Chain Management in the development of North-East India* organized by Department of Management, NEHU, Tura Campus on 23rd May, 2014.

Delivered an Invited lecture on the topic 'Role of Women in Horticulture Entrepreneurship in North East India: Turning Challenges into Opportunities' in the *International Seminar on Entrepreneurship in the Fast Changing Society: The Socio-Economic Perspectives* organized by the Department of Management, NEHU, Tura Campus on 26th- 27th June, 2014.

Displayed a poster on the topic 'An Ethno-Botanical Study of Wild Plants in Garo Hills Region of Meghalaya and

their Usage' in the *6th Indian Horticulture Congress-2014: Horticulture for Inclusive Growth (An International Event)* organized by The Horticulture Society of India on 6th-9th November, 2014.

Delivered an Invited lecture on the topic 'Role of Finance in Horticulture' in the *National Seminar on Emerging Trends of Financial Services in India* organized by the Department of Management, NEHU, Tura Campus on 20th -21st November, 2014.

Presented a paper on 'Environmental Benefits from Ornamental Horticulture' in *National Seminar on Newer Trends in Chemistry and Environment* organized by Department of Chemistry, Don Bosco College, Tura on 10th - 11th December, 2014.

Sunil Kumar

Presented a paper on 'Genetic Variability, Heritability, Genetic Advance And Correlation Coefficient For Vegetative And Floral Characters of Gladiolus (*Gladiolus Grandiflorus*)' at the *Asian Plant Science Conference, Hotel Nirvana, Paklihawa Road, Siddhartha Nagar (Bhairahawa), Lumbini, Nepal*, November 1st -3rd, 2014.

A.K. Chaurasiya

Presented a paper on the topic 'Effect of Different Combinations of N and K on Fruit Characteristics and Chemical Quality of Plantain cv. Nendran (AAB) in *International Conference on Horticulture for Nutritional, Livelihood and Environmental Security in Hills: Opportunity and Challenges* organized by UBKV, Kalimpong, Darjeeling, West Bengal, India on 22nd-24th May, 2014.

Presented a paper on the topic 'Food Habits of Meghalaya' in *National Seminar on Situating*

Tura Town from West Garo Hills Organized by Department of History & Archeology, NEHU, Tura Campus Meghalaya, India during 5th – 7th June 2014.

Arindam Barman

Attended the *National Symposium on Role of Logistics and Supply Chain Management in the Development of North-East India* organized by Department of Management, NEHU, Tura Campus on 23rd May, 2014

Attended the *International Seminar on Entrepreneurship in the Fast Changing Society: The Socio-Economic Perspectives* organized by the Department of Management, NEHU, Tura Campus on 26th- 27th June, 2014.

Presented a paper in *National Seminar on Newer Trends in Chemistry and Environment* organized by Department of Chemistry, Don Bosco College, Tura on 10th – 11th December, 2014.

Y.S. Singh

Presented a paper on the topic 'Value Addition and Products Diversification of Aloe Vera Gel based Products in North East India' in the *International Conference on Horticulture for Nutritional, Livelihood and Environmental Security in Hills: Opportunity and Challenges* organized by UBKV, Kalimpong, Darjeeling, West Bengal, India on 22nd-24th May, 2014.

Presented a paper on the topic 'Traditional Foods of Manipur' in the *National Seminar cum Workshop on "Innovative Prospects in Food Processing: Integration of Engineering and Biological Sciences"* organized by Department of Food Engineering & Technology, Tezpur University, Tezpur, Assam during 27th -28th March, 2015.

Publications

Research Papers

Published in India

Suresh, C. P., Bhutia, K. D., Shukla, G., Pradhan, K., Chakravarty, S. (2014). Wild Edible Tree Fruits of Sikkim Himalayas. *Journal of Tree Sciences* 33: 43-48.

Mahato, S.K., Suresh, C.P., Kumar Kuna, Ravi. (2014). Effects of Inorganic Fertilization on Growth, Yield and Fruit Quality of Plantain Cv. Nendran. *Plant Archives* 14(2):939-944.

Haris 1, A. Abdul., Sunil Kumar., Singh, A.K. (2014). Water Requirement and Irrigation Scheduling Through Drip Systems in Cabbage (*Brassica oleracea* var. capitata). *HortFlora Research Spectrum*, 3(2): 166-168.

Haris, A. Abdul., Sunil Kumar. (2014). Drip Irrigation Scheduling in Tomato (*Lycopersicon esculantum* MILL.). *HortFlora Research Spectrum*, 3(2): 184-186.

Momin, Kalkame Ch., Dhiman, S.R., Gupta, Y.C., Sunil Kumar. (2014). Effect of Storage Duration on Rooting of Carnation (*Dianthus caryophyllus* L.) Cuttings. *HortFlora Research Spectrum*, 3(3): 249-253.

Haris, A. Abdul., Sunil Kumar., Singh, A. K., Rajan, K. (2014). Drip Irrigation Scheduling in Okra [*Abelmoschus esculentus* (L.) Moench]. *HortFlora Research Spectrum*, 3(3): 274-277.

Narsimha Rao, B., Roy, S. S., Kumar Jha, Anjani., Chandra, Deo., Sunil Kumar. (2014). Influence of Nitrogen and Irrigation on Growth, Yield and Quality of Passion Fruit (*Passiflora edulis* Sims.) under foothill condition of Manipur. *Progressive Horticulture*, 46(2): 255-259.

Sunil Kumar. (2014). Effect of Sucrose and Silver Nitrate on Flower Quality, Vase-Life and Correlation in Gerbera (*Gerbera jamesonii*). *Current Horticulture* 2(2): 51–57.

Sunil Kumar., Gupta, A.K. (2014). Postharvest Life of *Gladiolus Grandiflorus* L. cv. Jessica as Influenced by Pre-harvest Application of Gibberellic Acid and Kinetin. *Journal of Postharvest Technology* 02 (03): 169-176.

Barman, Arindam., Barman, M. R. (2014). Detection and Management of Plant Viruses. *Transient*. 4: 42-58.

Published Abroad

K. Kumar, Ravi., Chakravarty, S., BhanuSree, M.R., Ghosh, S.K., Suresh, C.P., Khalko, S. (2014). Effect of Leaf Retaining on Growth and Yield of Banana (*Musa spp.*, AAA) var. Grand Naine. *The Ecoscan* 6: 15-19.

S.K. Mahato., Suresh, C.P., Kumar Kuna, Ravi. (2014). Effects of Inorganic Fertilization on Growth, Yield and Fruit Quality of Plantain cv. Nendran. *Plant Archives* 14(2) pp. 939-944.

Sunil Kumar. (2014). Genetic Variability, Heritability, Genetic Advance and Correlation Coefficient for Vegetative and Floral Characters of Gerbera (*Gerbera jamesonii*). *International Journal of Agriculture, Environment & Biotechnology*: 7(3): 527-533.

Sunil Kumar, A., Haris, Abdul., Chhabra, V. (2014). Postharvest Quality of Tomato (*Lycopersicon esculantum* Mill.) as influenced by Drip Irrigation Scheduling in Changing Climatic Scenario. *Scholars Academic Journal of Biosciences (SAJB) Sch. Acad. J. Biosci.*, 2(11): 837-840.

Singh, A. K., Chakraborty, I., Chaurasiya, A. K. (2014). Bael Preserve Syrup as Buster of

Human Health as a Health drink. *The Bioscan*, 9 (2), 565-569.

Singh, A. K., Chaurasiya, A. K. (2014). Post Harvest Management and value addition in Bael (*Aegle marmelos* Corr.). *International Journal of Interdisciplinary and Multidisciplinary Studies (IJIMS)*, 1 (9), 65-77.

Singh, A. K., Chaurasiya, A. K., Chakraborty, I. (2015). Quality Retention in Alum Treated Bael (*Aegle marmelos* CORR.) Preserve. *The Bioscan*, 10(1), 135-139.

Books/Book Chapters/Proceedings

Suresh, C. P., Chakravarty, S. (2014). Types of Nurseries. In: *A Handbook of Nursery*, Chattopadhyay, T. K. (eds). Kalyani Publishers, New Kolkata. Chapter 2, 9-21. ISBN. 978-93-272-4644-5.

Deb, P., Suresh, C.P., Chattopadhyay, T.K. (2014). Components of Nursery (Chapter V) In: *A Handbook of Nursery*, Chattopadhyay, T. K. (eds.) Kalyani Publishers, New Kolkata. Chapter 5, 37-58. ISBN. 978-93-272-4644-5.

Suresh, C. P., Bhutia, K. D., Shukla, G., Pradhan, K., Chakravarty, S. (2014). Free Listed Wild Edible Fruit Species of Sikkim Himalayas and their uses. In *Proc. 2nd International Symposium on Minor Fruits and Medicinal Plants for better lives* held at Faculty of Agriculture, University of Ruhuna, Sri Lanka., ISBN 978-955-1507-31-2. 17-37.

Barman, Arindam., Mitra, Barman, Rituparna., Chatterjee, Ranjit. (2014). Molecular Breeding of Eggplant (*Solanum melongena* L.) for Biotic Stress Resistance. In. Mitra, Rituparna and Barman, Arindam. (Eds), *Plant Pathogen Interaction: Recent Trends*. New Delhi, India. Sharma Publishers & Distributor, Chapter 4, 89-110. ISBN: 978-93-82910-04-4.

Mitra, Barman, Rituparna., Barman, Arindam., Munshi, A. D. (2014). Role of Natural Products in Plant Disease Resistance. In. Mitra, Rituparna and Barman, Arindam. (Eds), *Plant Pathogen Interaction: Recent Trends*. New Delhi, India. Sharma Publishers & Distributor. Chapter 6, 139-158. ISBN: 978-93-82910-04-4.

Das, Kumar, Shaon., Barman, Arindam. (2014). Systemic Acquired Resistance in Plants and Responsible Chemicals. In. Mitra, Rituparna and Barman, Arindam. (Eds), *Plant Pathogen Interaction: Recent Trends*. New Delhi, India. Sharma Publishers & Distributor. Chapter 8. 1-8. ISBN: 978-93-82910-04-4.

Das, Kumar, Shaon., Barman, Arindam. (2014). Microbial Toxins Macrolides: Promising Plant

Pathogen Control Agent. In. Mitra, Rituparna and Barman, Arindam. (Eds), *Plant Pathogen Interaction: Recent Trends*. New Delhi, India. Sharma Publishers & Distributor. Chapter 10, 16-25. ISBN: 978-93-82910-04-4.

Barman, Arindam. (2014). Instant Vegetable Science, 3rdEd. New Delhi, India. Sharma Publishers & Distributor. ISBN: 978-81-920090-2-5.

Mitra, Rituparna., Barman, Arindam. (2014). Plant Pathogen Interaction: Recent Trends. New Delhi, India. Sharma Publishers & Distributor. ISBN: 978-93-82910-04-4.

Funds Received from Agencies including NEHU/UGC:

New Research Projects:

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1	Bio-prospecting of Lactic Cultures from 'North-Eastern Regions' to Develop Functional Fermented Soy Products with potential health benefits	Dr. A.K. Chaurasiya (Co-PI)	DBT Twinning Project, GOI	72.062 lakh
2	Molecular and Morphological diversity analysis of cucurbits of Garo Hills Meghalaya	Mr. A. Barman (PI) Mr. Y.S. Singh (Co-PI)	DBT, Twinning Project, GOI	42, 81, 000

Academic Collaborations

Arindam Barman is collaborating with Uttar Banga Krishi Viswavidyalaya, Coochbehar, West Bengal, India in the DBT project entitled 'Molecular and Morphological diversity analysis of Cucurbits of Garo Hills Meghalaya'

Other Activities

C.P. Suresh

Editor of a) Journal of Agriculture and Technology and b) International Journal of Minor Fruits, Medicinal and Aromatic Plants.

Won the Best Poster Award for the poster entitled “An Ethno-Botanical Study of Wild Plants and its uses in Meghalaya” in the 6th Indian Horticulture Congress-2014: Horticulture for Inclusive Growth (An International Event) organized by The Horticulture Society of India on 6th-9th November, 2014.

Was an Invited Speaker on the topic ‘Polytunnels’ and Special Guest in the One day Seminar on Usage of Agrotextiles suitable for Meghalaya State and its Advantage organized by Ministry of Textiles & COE-Agrotech, SASMIRA, and Govt. of Meghalaya at Tura on 29th November, 2014.

Invited to speak on the topic ‘Post Harvest Physiology of Fruits and Vegetables’ and Co-Chairman of the Technical Session in the *National Seminar cum Workshop on “Innovative Prospects in Food Processing: Integration of Engineering and Biological Sciences”* organized by Department of Food Engineering & Technology, Tezpur University, Tezpur, Assam during 27th-28th March, 2015.

Sunil Kumar

Editor of Current Horticulture, Indian Journal of Agricultural Sciences and Hort-Flora Research Spectrum.

Attended the Winter School on “Protected Cultivation”, December 04th -24th, 2014 at Hi-Tech Horticulture Unit, University of Agricultural Sciences, Dharwad.

Arindam Barman

Attended the Summer School on “Current Trends in Quality Potato Production, Processing and Marketing”, July 8th -28th, 2014, at Central Potato Research Institute, Shimla, India.

Attended ‘Basic Techniques of Molecular Biology’ workshop, Calcutta University, Kolkata, India, May 14th -21st, 2015.

Y.S. Singh

Participated in the UGC-sponsored 25th Orientation Programme, organized by the UGC-Academic Staff College, Manipur University from 12th November to 9th December, 2014.

V

SCHOOL OF LIFE SCIENCES

Dean : Prof. A. K. Misra (till forenoon December 17, 2014)
Prof. R. Sharma (since afternoon December 17, 2014)

Telephone : 0364-2722001 (O); 0364-2550108 (Fax)

Email : deansls@nehu.ac.in

The School of Life Sciences comprises four academic Departments, namely, Biochemistry, Biotechnology & Bioinformatics, Botany and Zoology. All the four constituent departments of the school offer both M.Sc. and Ph.D. programmes. The total strength of the Faculty during the period under report was 46. During the year, 39 (thirty nine) research scholars of the School were awarded Ph.D. degree. The Faculty of the School attended several conferences/ symposia. Many of them delivered invited lectures and chaired sessions at conferences/ symposia. The Faculty

of the School has received large amount of extramural funds from various research funding agencies. The activities of the Faculty members have brought recognition and fame to the School. Many Faculty members are members of various Project Advisory Councils/ Task Forces of the funding agencies. Our Faculty has been contributing to curriculum development and research activities of other Institutions by way of being members of Board of Studies/ Academic /Executive Council(s) of various Universities of the country.

DEPARTMENT OF BIOCHEMISTRY

Head : Prof. R. Sharma (up to 16.12.2014)
 Prof. D. Syiem (from 17.12.2014)
Telephone : 0364-2722101
E-mail : dsyiem@yahoo.com
Faculty :

Designation	Name and Qualification	Specialization
Professor	A.N. Rai, M.Sc. (BHU), Ph.D(Dundee University, Scotland)	Microbiology
	R. Sharma M.Sc., Ph.D(BHU)	Development and aging
	R.N. Sharan M.Sc., Ph.D(JNU)	Cancer and radiation biology
	A. Alam M.Sc. (AMU), Ph.D (FTI, Moscow)	Immunology
	D. Syiem M.Sc., Ph.D(NEHU)	Protein chemistry/enzymology and medicinal plant/natural products study
	A.K.Singh, M.Sc.(GorakhpurUniversity),Ph.D.(HCU)	Microbiology
	M. B.Syiem M.Sc., Ph.D (NEHU)	Microbiology
Assistant Professor	P.K. Ambasht M.Sc., Ph.D (BHU)	Protein chemistry/enzymology
	L. Kma M.Sc., Ph.D (NEHU)	Cancer and radiation countermeasures
	S.Bhan M.Sc., Ph.D(BHU)	Medical biochemistry
	T.Tripathi M.Sc. (University of Mysore), Ph.D (JNU)	Molecular biophysics

School of Life Sciences

Thrust Areas of Research:

Medical and Microbial Biochemistry: Medical Biochemistry (Development & Aging, Medicinal Plants, Carcinogenesis and Radiation Biology, Drug Delivery and Tumor Immunology, Protein Chemistry and Enzymology and Neurobiochemistry).

Microbial Biochemistry: Plant-Microbe Interaction, Cyanobacterial Diversity and Nitrogen Fixation, Microbial bioremediation.

Brief Statement of Academic Activities:

The Department admitted 21 students for M.Sc. and 4 students for Ph. D programme. During this period 20 students have successfully completed their M.Sc. and 8 students have been awarded Ph. D degree. Faculty members and research scholars participated and delivered lectures in various seminar/workshops/conference/symposia in India and abroad.

Students' Profile

Enrolment Capacity: M.Sc. – 21, Ph.D– Variable

Degree	SC	ST	GEN/ OBC	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
M.Sc.	1	19	1	8	13	17	3	21
Ph.D	0	1	3	0	4	1	3	4

Degrees Awarded

Degree	SC	ST	GEN/ OBC	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
M.Sc.	0	18	2	2	18	17	3	20
Ph.D	0	8	0	2	6	8	0	8

Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name (s) of Supervisor (s)/ Joint Supervisor
Ms. ValrielynSaio	Study of the antioxidant and free radical scavenging potential of selected plants in different pathophysiological conditions in mouse.	Prof. D.Syiem / Prof. R. Sharma
Mr.Sh.WillsonMonsang	Study of the effects of selected anti-diabetic plants on advanced glycation end products (AGEs) and apoptotic pathways in mouse.	Prof. D. Syiem / Prof. R. Sharma
Ms.WadamikaLyngdoh	Evaluation and Characterization of selected plants of Meghalaya for their hypoglycemic and anti-hyperglycemic activity.	Prof. D. Syiem
Ms.PhibangipanWarjri	Studies on the antioxidant and hypolipidemic properties of selected antidiabetic plants.	Prof. D. Syiem
Ms.ShalimiRapsang Nongpiur	Purification, kinetic characterization and immobilization of acid phosphatase from rice bean (<i>Vignaumbellataumbellata</i>).	Dr. P.K. Ambasht
Ms. B. BashishaNongbri	Qualitative analyses of cyanobacterial diversity and seasonal succession in various ecosystems of East-Khasi Hills, Meghalaya.	Prof. M.B Syiem
Mr. Subongwabang	Regulation of cesium toxicity in cyanobacterial strains isolated from Meghalaya	Prof. A.K. Singh
Ms.KhetbadeiLysinia HynniewtaHadem	Study of anticarcinogenic effect of selected medicinal plants of Meghalaya	Dr. L. Kma / Prof. R. N. Sharan

Placement of Students:

Dr. B. Bashisha Nongbri has joined as Technical Assistant in Food Corporation of India, Nowgaon, Assam.

Mr. Ramesh Chinta has joined for Ph.D. in Dept. of Physics, Indian Institute of Science, Bangalore.

Dr. Wadamika Lyngdoh joined as Assistant food Analyst (Microbiologist), State Food Safety Authority, Health & Family Welfare Dept., Directorate of Health Services, Government of Meghalaya.

Dr. Valrielyn Saio, joined as Research Associate, Division of Animal Health, ICAR for NER, Shillong.

Dr. Phibangipan Warjri, joined as Assistant Biochemist, Biochemistry Section, Pasteur Institute, Shillong.

Mr. Banteiskhem Kharwanlang joined as Assistant Professor in St. Edmonds College, Shillong.

During 2014-15, four students have qualified in SLET and three in NET. Four students have started receiving NEHU non-NET Fellowship and one CSIR NET fellowship.

Courses Conducted:

M.Sc.: In Biochemistry

Semester-I

Chemistry and Biomolecules; Metabolic Pathways; Enzymology; Practicals.

Semester-II

Techniques in Biochemistry; Physiological Chemistry; Microbiology; Practicals.

Semester-III

Genetics; Medical Biochemistry; Environmental

Biochemistry; Nutritional and Clinical Biochemistry; Practicals.

Semester-IV

Molecular Biology; Bioenergetics; Immunology; Practicals.

Ph.D. Courses

Paper-I : Research Methodology

Paper-II : Topics in Biochemistry

Paper-II : Review of Literature and seminar

Educational Tour of Students

Teacher-in-Charge : Dr. Surya Bhan

Places/Institutions visited : Mumbai and Goa

Duration of tour : 13 days, January 25 to February 6, 2015

Purpose of Tour : The students visited premier academic institutions in Mumbai (Advanced Centre for Treatment Research and Education in cancer, Tata Memorial Centre; Nehru Science Centre) and Goa (Goa University) which provided them the much needed scientific exposure in their field. This will definitely help them to decide about their future career in research and technology.

Seminar/Conference/Symposium/Extension programmes etc.

Attended / Participated

R.Sharma

Delivered an invited lecture titled "Why and how do we age? Interventions for healthy aging" at Faculty of Physical Education and Sports Sciences, Semmelweis University, Budapest, Hungary (September 3rd, 2014)

Delivered an invited lecture titled "Why do we age and how to have healthy aging" at Faculty

of Physical Education and Sports Sciences, Semmelweis University, Budapest, Hungary (September 5th, 2014).

Delivered an invited lecture on Sept. 23rd, 2014 at Dept. Physical Biochemistry, Darmstadt University, Germany entitled "Why and How We Age: Dietary Restriction as Healthy Aging Practice".

R.N.Sharan

Chaired a scientific session in *National Seminar on Redox Biology*, in Manipur University, Imphal (March 28th -29th, 2014).

Chaired a *Mini-symposium on National and Regional Centers of Competence in Biological Dosimetry* and moderated the round-table discussion at Vienna, Austria (June 13th, 2014).

Delivered an invited talk titled "DNA damage induced by different qualities of radiation: Understanding it with a plasmid DNA model" at FH Aachen campus Juelich (Germany) (June 16th, 2014).

Delivered an Institute seminar titled "Bio-dosimetry of the future: Molecular bio-markers" at FH Aachen campus Juelich (Germany) (June 17th, 2014).

D.Syiem

Chaired a session in *National Seminar "Metabolomics- A New frontier in Natural Products research"* in the Department of Biotechnology and Bioinformatics, NEHU, Shillong (May 24th, 2014).

A.K. Singh:

Presented an invited lecture titled "Oil Spill Bioremediation" at 83rd Annual meeting of the Society of Biological Chemists (India) and symposium on Evolution: Molecules to Life held in KIIT University, Bhubaneswar, December 18th -21st, 2014

L. Kma:

Presented a research paper titled "Exploring the Anticancer Potential of Aristolochiatagalaand Curcuma Caesia on Hepatocellular Carcinoma in Mice Model" in the *5th International Conference on Stem Cells & Cancer Proliferation, Differentiation & Apoptosis*, JNU, New Delhi, November 8th -10th, 2014.

Presented a research paper titled "Exploring the Anticancer Potential of Traditionally used Plantson Hepatocellular Carcinoma in Mice" in the *International Conference on Harnessing the sub-Himalayan Plant Diversity for Human Welfare*, Dibrugarh University, Dibrugarh March 11th -13th, 2015.

P.K.Ambasht:

Delivered an invited lecture titled "Characterization of Á-Amylase from Pennisetumtyphoides Entrapped inside Calcium Alginate Beads" in the *International Conference on Emerging Trends in Biotechnology 2014* held in Jawaharlal Nehru University, New Delhi, November 5th -9th, 2014.

S. Bhan:

Presented a research paper titled "Anti-hyperglycemic and Anti-Oxidative Roleofchlorophyllin in Experimental Model of Diabetes" in the *International Conference on Harnessing the sub-Himalayan Plant Diversity for Human Welfare*, in Dibrugarh University, Dibrugarh, March 11th -13th, 2015.

T. Tripathi:

Delivered an invited lecture in the *International Conference on Frontiers in Chemical Sciences*, held in the Department of Chemistry, Indian Institute of Technology, Guwahati December 4th -6th, 2014.

Delivered an invited lecture in the *International Conference on Bioworld-2014*, held in the Department of Biotechnology, Indian Institute of Technology, New Delhi, December 12-14, 2014

Publications

Research Papers

Published in India

Anal, J.J.H., Majeed, R., Bez, G., Syiem, D., Hamid, A., Saxena, A.K. (2014). In Vitro Cytotoxicity of the Polar Extracts of *Potentilla fulgens* L. against human cancer cell lines: Detection and isolation of bioactive phenolics. *J. Chem. Pharm. Res.* 6: 89-95.

Belho, K., Nongpiur, S.R., Ambasht, P.K. (2014) Immobilization of Acid Phosphatase (Type I) from Wheat Germ on Glutaraldehyde Activated Chitosan Beads: Optimization and characterization. *J. Protein Proteomics* 5:177-183.

Lyngdoh, J.P., Syiem, D., Mao, A.A. (2014). Pattern of Traditional Medicine Usage in East Khasi Hills of Meghalaya. *Indian J. Tradit. Know.* 13: 164-170.

Published Abroad

Dkhar, P., Sharma, R. (2014). Late-onset Dietary Restriction Modulates Protein Carbonylation and Catalase in Cerebral Hemispheres of aged Mice. *Cell Mol. Neurobiol.* 34: 307-313.

Sahoo, M.K., Sinha, B., Sharan, R.N. (2014). Metal Ion-Catalyzed Mineralization and Biodegradation Studies of Calconcarboxylic Acid in Aqueous Solution: Effect of -COOH group. *Desalination Water Treat.* 124: 155-162.

Sahoo, M.K., Sinha, B., Sharan, R.N. (2014). UVC based Advanced Oxidation for Decolorization and Mineralization of

Calconcarboxylic Acid in Aqueous Solution: Eco-toxicological effect of post treated solutions and its remedy. *Can. J. Chem. Eng.* 92: 1693-1699.

Singh, A.K., Sherry, A., Gray, N.D., Jones, D.M., Bowler, B.F.J., Head, I.M. (2014). Kinetic Parameters for Nutrient Enhanced Crude Oil Biodegradation in Intertidal Marine Sediments. *Front. Microbiol.* 5: 1-13.

Syiem, M.B., Bhattacharjee, A. (2014). Structural and Functional Stability of Regenerated Cyanobacteria following Immobilization. *J. Appl. Phycol.* 27:743-753.

Hadem, K.L.H., Sharan, R.N., Kma, L. (2014). Inhibitory Potential of Methanolic Extracts of *Aristolochia tagala* and *Curcuma caesia* on Hepatocellular Carcinoma induced by Diethyl Nitrosamine in *Balb/c* mice. *J. Carcinogen.* 13:1-9.

Hazarika, J., Pakshirajan, K., Sinharoy, A., Syiem, M.B. (2014). Bioremoval of Cu(II), Zn(II), Pb(II) and Cd(II) by *Nostoc muscorum* isolated from a coal mining site. *J. Phycol.* DOI 10.1007/s10811-014-0475-3.

Kma, L. (2014). Plant Extracts and Plant-Derived Compounds: Promising Players in Countermeasure Strategy against Radiological Exposure: A Review. *Asian Pac. J. Cancer Prev.* 15: 2405-2425.

Kma, L., Sharan, R.N. (2014). Dimethylnitrosamine-induced Reduction in the level of polyADP-ribosylation of Histone Proteins of Blood Lymphocytes—a Sensitive and Reliable Biomarker for Early Detection of Cancer. *Asian Pac. J. Cancer Prev.* 15: 6429-6436.

Chhetri, G., Ghosh, A., Chinta, R., Akhtar, M.S., Tripathi, T. (2015). Cloning, Soluble Expression, and Purification of the RNA

Polymerase II subunit RPB5 from *Saccharomyces Cerevisiae*. *Bioengineered*. 6: 1-5.

Chhetri, G., Pandey, T., Kumar, B., Akhtar, M.S., Tripathi, T. (2015). Recombinant Expression, Purification and Preliminary Characterization of the mRNA export factor MEX67 of *Saccharomyces Cerevisiae*. *Protein ExpresPurif*. 107: 56-61.

Goswami, S., Diengdoh, O. L., Syiem, M.B., Pakshirajan, K., Gopi, K.M. (2015). Zn (II) and Cu(II) removal by *Nostocmuscorum*: a Cyanobacterium Isolated from a Coal Mining Pit in Chiehruphi, Meghalaya, India. *Can. J. Microbiol*. 61: 209-215.

Manikandan, N.A., Pakshirajan, K., Syiem, M.B. (2015) Cu(II) removal by biosorption using chemically modified biomass of *Nostocmuscorum* – a cyanobacterium isolated from a coal mining site. *Int. J. Chem. Tech. Res.* 1: 80-92.

Pandey, T., Chhetri, G., Chinta, R., Kumar, B., Singh, D.B., Tripathi, T., Singh, A.K. (2015). Functional classification and biochemical characterization of a novel rho class glutathione S-transferase in *Synechocystis* PCC 6803. *FEBS Open Bio*. 5: 1-7.

Syiem, D., Warjri, P. (2015). Antidiabetic, Antioxidant and TNF- α Lowering Properties of Extract of the Traditionally used Plant *Ixerisgracilis* in Alloxan-Induced Diabetic Mice. *Pharm. Biol.* 53: 494-502.

Books/Book Chapters/Proceedings

Ambasht, R.S., Ambasht, P.K. (2014). *Environment and Pollution*. Pub: CBS Publishers and Distributors, New Delhi, India ISBN: 978-81-239-2349-9.

Sharan, R.N. (2014). Single- and Double-Strand DNA Breaks induced by different Qualities of

Radiation: What have we learnt? In: *Current Topics in Redox Biology*. G.J. Sharma and R.N. Sharan (Eds.), McGraw Hill Education (India) Private Ltd., New Delhi, India, pp. 46-65.

Sharan, R.N., Nongrum, S., Keppen, J., Vaiphei, S.T., Kma, L., Chaubey, R.C. (2014). Future of Radiation Bio-Dosimetry: Molecular Bio-Marker. In *Current Topics in Redox Biology*. G.J.Sharma and R.N. Sharan (Eds.). McGraw Hill Education (India) Private Ltd., New Delhi, 66-81.

Sharma, G.J., Sharan, R.N. (2014). *Current Topics in Redox Biology*, Pub: McGraw Hill Education, New Delhi, India ISBN: 978-93-392-1420-3

Sharma, R., Dkhar, P. (2014). Biological Basis of Aging: Theories and Explanations. in *Textbook of Geriatric Medicine*. P. Sanchetee (Ed.). Indian Academy of Geriatrics, Paras Medical Publisher, Hyderabad, 24-31.

Sharma, R., Dkhar, P. (2014). Interventions for Healthy Aging. in *Textbook of Geriatric Medicine*. P. Sanchetee (Ed.). Indian Academy of Geriatrics, Paras Medical Publisher, Hyderabad, 812-815.

Sharma, R., Dkhar, P. (2014). Protein Carbonylation, a marker of Oxidative Stress, during Aging and its Modulation by Dietary Restriction. In *Current Topics in Redox Biology*. G.J. Sharma and R.N. Sharan (Eds.). McGraw Hill Education, New Delhi, p. 124-135.

Funds Received from Agencies including NEHU/UGC

NEHU	: Rs 17.15 lakhs
DST PURSE	: Rs 7.00 lakhs
DBT (Infrastructure)	: Rs 4.0 lakhs
Total	: Rs 28.15 lakhs

School of Life Sciences

Research Projects

New Projects

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount (In Lakhs)
1.	Evaluation of the radiosensitizing potential of <i>Ocimum sanctum</i> L. and its constituent on human cancer cell line (2014-2016)	Dr. L. Kma	Science & Engineering Research Board- Department of Science & Technology, New Delhi.	12

Ongoing

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount (In Lakhs)
1	Study of Induction Kinetics of Dicentric(DC), Micronuclei (MN) and Premature Chromatin Condensations (PCC) in the Peripheral Blood Lymphocytes (PBL) of Ethnic Population Groups of the North-East India Following Y-Irradiation <i>Ex Vivo</i> : A Comparative Study	PI: R. N. Sharan	International Atomic Energy Agency (IAEA), Vienna	Approx. 20
2	How AMFR Gene Regulates Cell Division and Cancer after Stress Exposure?	PI: A. Mishra; Co-Investigator: R. N. Sharan	BRNS, Department of Atomic Energy	Approx. 23.9

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3	Study on the potentials of anti-diabetic plants of traditional use for the management of Alzheimer's Disease	Prof. D.Syiem (PI)	Department of Biotechnology, Ministry of Science & Technology, Government of India, Delhi (Twinning programme)	59.64
4	Quantitative Coupling of Hydrocarbon Degradation and Bacterial Communities in Petroleum Hydrocarbon Impacted Sediments Undergoing Bioremediation	Prof. A. K. Singh	Department of Biotechnology	7.27
5	Strategy development for the mitigation of heavy metals in surface waters around coal mining areas using native cyanobacterial strains	PI: Prof M.B. Syiem (NEHU, Shillong) Co-PI: Prof K. Pakshirajan (IITG, Guwahati)	DBT	34.94
6	A detailed study on the potential of locally isolated cyanobacteria in biosorption of heavy metals common in water bodies of Meghalaya.	PI: Prof M. B. Syiem (NEHU, Shillong)	UGC	13.22
7	Enhancing functional repertoire of eukaryotic RNA Polymerase II	Dr. T. Tripathi	DBT, INDIA	Approx. 84
8	An Investigation into the Role of Solution Variables in Amyloidogenesis	Dr. T. Tripathi	DST, INDIA	Approx. 19

School of Life Sciences

9	Biochemical and functional properties of <i>Synechocystis</i> Glutathione S-transferase(s)	Dr. T. Tripathi	DST, India	Approx. 50
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Completed during the Year

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount (In lakhs)
1	Biodosimetry Studies using Cytogenetic and Gene Expression Profiles in Human Peripheral Blood Lymphocytes Exposed to Gamma Radiation <i>Ex Vivo</i>	PI: R. N. Sharan; Co-PI: L. Kma	BRNS, Department of Atomic Energy	Approx. 30
2	Identification, molecular characterization and structure determination of glutaredoxin system proteins from infectious flukespi	Dr. T. Tripathi	DBT, INDIA	Approx. 43
3	Molecular Proteomic Studies of the Glutathione S-transferase Protein System of the Giant Intestinal Fluke- <i>Fasciolopsis buski</i>	Dr. T. Tripathi	ICMR, INDIA	10

Academic Collaborations

Collaborative projects of Prof. R.N. Sharan (BRNS funded project with Dr. A. Mishra at Indian Institute of Technology Rajasthan, Jodhpur) and Prof. D. Syiem (Department of Biochemistry, VRR Diagnostic Services and Research Centre (Affiliated to University of Madras) are continuing under the project funded by DBT as mentioned above. There are also research collaborations at individual level with the following institutes: Semmelweis University, Budapest, Hungary; Justus Leibeg

University, Germany; University of Calcutta, Kolkata; IIT Guwahati, Guwahati; IIT Delhi, New Delhi; ICGB, New Delhi and CDRI, Lucknow.

Any Other

R. Sharma:

Visited ARIBAS, Vidyanagar, Anand, Gujarat as a Member of NAAC Assessment Committee (April 13th, 2014).

Visited Banaras Hindu University, Varanasi as a Member of Selection Committee (May 19th – 20th, 2014).

Delivered a lecture titled “Nutrition and Aging” in 28th Orientation programme at NEHU ASC (May 28th, 2014).

Delivered a lecture titled “Nutrition and Aging” in 29th Orientation programme at NEHU ASC (June 25th, 2014).

Visited Jadavpur University, Kolkata as a Member of NAAC Peer Committee (July 23rd -26th, 2014).

Expert member, Task Force on Neuro-Disease Biology, DBT, MoST, GOI.

Prof. M.S. Kanungo Oration Award (2014) during 17th AGI Meeting at CDS, Trivandrum.

Visited Semmelweis University, Budapest, Hungary under INSA Senior Scientists Bilateral International Exchange Programme-2014 (September 1st -30th, 2014).

Visited Jiwaji University, Gwalior as a Member of NAAC Peer Committee (January 6th -9th, 2015).

Visited Panjab University, Chandigarh as a Member of NAAC Peer Committee (February 5th -7th, 2015).

Delivered an invited lecture titled “Graceful Aging” in 30th Orientation programme at NEHU ASC (February 28th, 2015).

Attended a Workshop on CBCS as a UGC Expert Member at Guwahati for all North-eastern and West Bengal Universities (March 27th, 2015).

R.N. Sharan:

Delivered a talk on ‘Introduction to Cancer’ in the 27th Orientation Program (General) in Academic Staff College, NEHU, Shillong (April 12th, 2014).

Delivered a talk on ‘Introduction to Cancer’ in the 28th Orientation Program (General) in Academic Staff College, NEHU, Shillong (May 17th, 2014).

Attended the 2nd Research Coordination Meeting (RCM) of International Atomic Energy Agency (IAEA) from 10th to 13th June 2014 at Vienna (Austria) as the invitee from India and delivered talk on the progress of the project.

Member of the DBT Advisory Committee for Department of Molecular Biology and Biotechnology, Tezpur University, Tezpur (2014-17).

Delivered a talk on ‘Cancer and its Therapy’ in a Special Summer School of Academic Staff College, NEHU, Shillong (September 5, 2014).

International Expert in an UN-IAEA Expert Mission titled “African Regional Cooperative Agreement for Research, Development & Training related to Nuclear Science & Technology (AFRA) Training Course on Accuracy Requirement and Uncertainty in Radiotherapy” (C7-RAF-6.044-008/14) at Khartoum (Sudan) as a nominee of Government of India (October 26th -30th, 2014).

A. Alam:

Governing Body Member, Union Christian College, Umiam Khwan, RiBhoi District.

D. Syiem:

Council member, Association of Gerontology, India (2012-2014).

President, NEHU Alumni Association and founding member, Shillong (2014).

Delivered an invited lecture in the UGC-ASC 27th Orientation Programme (general) in the UGC Academic Staff College, NEHU Shillong (April 10th, 2014).

Delivered an invited lecture in the UGC-ASC Special Winter School on the theme "Linking Education to Society" in the UGC Academic Staff College, NEHU Shillong (November 14th, 2014).

M.B. Syiem:

Counseling Committee Member (MBBS/MD/MS/DM) in NEIGRIHMS, Shillong.

Visited Nagaland University, Nagaland as a member of NAAC Peer committee (May 6th -9th, 2014).

Visited J.K. College Purulia (West Bengal) as a member of NAAC Assessment committee (July 24th -26th, 2014).

Visited RPM College, Uttarpara (West Bengal) as a member of NAAC Assessment committee (September 10th -12th, 2014).

Visited Hari Singh Gour Vishwavidyalaya (Madhya Pradesh) as a member of NAAC Peer committee (January 28th -31th, 2015).

L. Kma:

Editorial Board Member-Journal of Radioprotection Research, New York, USA.

T. Tripathi:

International Scientific Committee Member.

International Bioscience, Biochemistry and Pharmaceutical Sciences Conference (IBBPSC 2015), Chicago, USA; XIII International Conference on Advances in Biology-2015 (ICAB 2015), New Delhi; International Conference on Health and Medicine-2014, Sri Lanka.

International conference committee member of International Conference on Biochemistry and Molecular Biology-2014, Dubai, UAE.

Webmed Central Editor of Biochemistry.

P.K. Ambasht:

Judged the INSPIRE Award competition (KVS Guwahati region District Level) held in Kendriya Vidyalaya, NEHU, Shillong (April 17th, 2014).

Attended a *Workshop on Pure water and Analytical Solution for your Laboratory*, organized by Department of Chemistry, NEHU, Shillong and Metrohm India Ltd. at Science Seminar Hall, NEHU, Shillong (May 9th, 2014).

Delivered series of Guest lectures on "Enzyme kinetics and regulatory principles" in Department of Biotechnology and Molecular Biology, Tezpur University (November 21st -23rd, 2015).

Delivered series of Guest lectures on "Mechanism of enzyme catalyzed reactions and their regulation" in School of Biotechnology, Banaras Hindu University (March 20th -23rd, 2015).

L. Kma:

Attended a *Workshop on Pure water and Analytical Solution for your Laboratory*, organized by Department of Chemistry, NEHU, Shillong and Metrohm India Ltd. at Science Seminar Hall, NEHU, Shillong (May 9th, 2014).

R.N. Sharan and Dr. L. Kma:

A final patent has been filed with applicants, Prof. R. N. Sharan and Secretary, DAE, and inventors-Prof. R. N. Sharan, Ms. Saibadaiahun Nongrum, Dr. S. Thangminlal Vaiphei, Dr. Lakhan Kma and Dr. Ramesh Chandra Chaubey on "Radiation Response Genes (RRG) and Radiation Response Proteins (RRP) in Humans" with Indian Patent Office, Kolkata under ICT on 17th October, 2014 vide 486/KOL/2013 and application number E-2/1772/2014/KOL with a request for early publication and examination.

DEPARTMENT OF BIOTECHNOLOGY & BIOINFORMATICS

Head : Prof. S.Rama Rao

Telephone : 0364-2722401/ 0364-2722402/ 0364-2722404 (O)

E-mail : srrao22@yahoo.com, biotechnologynehu@hotmail.com, srrao@nehu.ac.in

Faculty :

Designation	Name and Qualification	Specialization
Professor	Anupam Chatterjee M.Sc. (Burdwan), Ph. D. (BHU)	Genetics & Molecular Biology
	S. Rama Rao M.Sc., Ph.D. (Jodhpur Univ.)	Plant Cellular and Molecular Genetics
	Kripamoy Aguan M.Sc (IARI) Ph.D.(Univ.of Birmingham)	Genetics & Molecular Biology
Associate Professor	S. R.Joshi M.Sc., Ph.D. (NEHU)	Microbiology
Assistant Professor	Suktilang Majaw M.Sc., Ph.D (NEHU)	Biochemistry
	Atanu Bhattacharjee M.Sc(NEHU), M.Sc (Annamalai Univ), Ph.D (NEHU)	Bioinformatics & Microbiology
	Neha Chaurasia M.Sc., Ph.D (BHU)	Environmental Biotechnology

Thrust Areas of Research:

Molecular Genetics, Cellular and Molecular Cytogenetics, Microbiology, Phylo-diversity Assessment and Characterization and Micro-symbiont (*Rhizobium*) association with native legumes and their molecular characterization, Epilepsy and Alzheimers' Disease, Diabetes Research, Molecular modelling and design of inhibitors for various diseases, Environmental biotechnology, Abiotic stress tolerance in soil microbes.

Brief Statement of Academic Activities:

The department of Biotechnology & Bioinformatics at the North Eastern Hill University, Shillong was started in 2005. It offers Post Graduate (M.Sc. and Ph.D.) academic programmes. North Eastern Region of India is rich in flora and fauna and is in the region of hotspot of biodiversity. For the Bio-resource development, its exploration, conservation and proper utilization, the need of trained manpower was felt in biotechnology and the linkage of biotechnological work with bioinformatics network. Therefore, the Department of Biotechnology and Bioinformatics initiated the programme and is providing training and research environment which provides people with latest information in their respective fields and bring them closer to the rest of the world as far as scientific advancements are concerned.

Based on overall academic objectives of the department and its faculties potentialities the department was considered for financial support for "M.Sc. Biotechnology" by the Department of Biotechnology, New Delhi.

The department is happy to state that the four batches of M.Sc. students have successfully completed their M.Sc. degree and some of them have already joined in different IITs, IMTECH, AIIMS, IISc., etc for their Ph.D degree while many others had joined different National Biotech Companies. The department while giving importance to the global scenario has the regional importance in research and development incorporated into its programme. This programme is intended to develop, acquire and maintain 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 in the year 2010 received DST-FIST support for strengthening infrastructural facility for academic support from Department of Science & Technology, Govt. of India. The extramural support in the form of projects received by the faculties comes from DBT, ICAR, DST, UGC, DAE, BRNS, OIL, NEC, etc.

Students' Profile

Enrolment Capacity: M.Sc. – 24, Ph.D – Variable

Degree	SC	ST	GEN/ OBC	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
M.Sc.	1	11	9/2	11	12	9	14	23
Ph.D	-	1	4/2	3	4	1	6	7

Degrees Awarded

Degree	SC	ST	GEN/ OBC	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
M.Sc.	1	7	7	7	8	7	8	15
Ph.D		4	5	2	7	4	5	9

Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name (s) of Supervisor (s)/ Joint Supervisor
Ms. Sillarine Kurkalang	Loss of heterozygosity 4q27 and 3p14 regions and methylation and/or expression status of selected tumor suppressor and check-point genes in betel-nut induced human and mouse tumor samples	Prof. A. Chatterjee
Ms. Shamurailatpam Anju	Molecular Cytogenetics Studies on Inter- and Intraspecific Variation in <i>Vigna</i> Species from North-East India	Prof. S.R. Rao
Ms. Keisham Merita Devi	Analysis of Inter- and Intraspecific Variation in Cultivated and Wild Species of <i>Abelmoschus</i> Medik	Prof. S.R. Rao
Ms. Marlykynti Hynniewta	Cytogenetical studies in <i>Citrus</i> species of North-East India	Prof. S.R. Rao
Mr. Nathaniel A. Lyngwi	Characterization of potential plant growth promoting bacillus and related genera from soils of sacred groves of Meghalaya	Dr. S.R. Joshi.
Mrs. Polashree Khaund	Molecular characterization and biochemical analysis of some wild edible macrofungi of Meghalaya	Dr. S.R. Joshi.
Ms. Lamabam Sophiya Devi	Mycosynthesis and antimicrobial efficacy of silver nanoparticles	Dr. S.R. Joshi.

School of Life Sciences

Ms. Khedarani Koijam	Screening and characterization of exopolysaccharide producing lactic acid bacteria associated with fermented foods of North-East India	Dr. S.R. Joshi
Mr. George Freedyleen Rapsang	Study on probiotic activity of lactic acid bacteria characterized from traditional non-alcoholic fermented foods of Meghalaya	Dr. S.R. Joshi

Placement of Students*

Sl #	Name of Student	Batch	Placement	Achievement
1.	Nitendra Kumar	2012-2014	Ph.D. IIT Guwahati	NET-JRF
2.	Harsha Chaudhury	2012-2014	Ph.D. IIT Guwahati	GATE
3.	Niabamita Baurah	2012-2014	Ph.D. NEHU, Shillong	GATE

**Information of other students (2012-14 batches) is still awaited*

Courses Conducted:

Postgraduate: M.Sc. in Biotechnology

Semester-I

Cell Biology & Genetics, Biomolecules,
Microbiology

Semester-II

Molecular Biology, Immunology, Microbial
Technology

Semester-III

Animal Cell Science & Technology, Genetic
Engineering, Plant Biotechnology

Semester -IV

Bioprocess Engineering & Technology,
Environmental Biotechnology, Molecular
Genetics, Applied Microbiology

The department has offered open courses on
Microbial Technology, Applied Molecular
Genetics and Bioinformatics in Molecular and
cellular Biology under CBCS in the M.Sc. 2nd
and 3rd semesters.

Ph.D. Courses

Paper-I : Research Methodology

Paper-II : Biotechnology in Medicine,
Agriculture and Microbiology

Paper-III : Review of Literature

Educational Tour of Students:

Teacher-in-Charge : Dr. S.R.Joshi and Dr.
Atanu Bhattacharjee

Places/Institutions visited : Kolkata and
surrounding areas/Bose Institute, Botanical
Survey of India.

Duration of tour : Nine days

Purpose of Tour : Proposed academic study tour is a part of the academic curriculum of M.Sc. Biotechnology under course no. BIT-C-404. It is mandatory for the IV semester students to visit some important biotechnology institutions and industries of the country to full fill the requirement of the syllabus.

Seminar/Conference/Symposium/Extension programmes etc.

Organized

Organized a *National Seminar on "Metabolomics-A New Frontier in Natural Products Research"* on 23rd -24th May 2014 in the Department of Biotechnology & Bioinformatics, North-Eastern Hill University, Shillong-793022, Meghalaya, India. Dr. (Mrs.) S. Majaw as Organizing Secretary and Dr. (Mrs.) Neha Chaurasia as Joint Organizing Secretary.

Attended / Participated

A. Chatterjee:

Invited Lecture on "Precocious anaphase and expression of securing and genes as candidate biomarkers for the early detection in areca-nut induced carcinogenesis", *International Symposium on Genetic Analysis Translational and Developmental & Annual Meeting of Society for Biotechnologists (India)*, in Department of Zoology, University of Burdwan, 21st to 23rd Nov., 2014.

Invited Lecture on "Precocious anaphase and expression of securing and genes as candidate biomarkers for the early detection in areca-nut induced carcinogenesis", *National Conference on Recent Advances in Cancer Biology & Therapeutics*, in Department of Biotechnology, IIT, Guwahati, 5th Dec., 2014.

Invited Lecture on "Precocious anaphase and expression of securing and genes as candidate biomarkers for the early detection in areca-nut induced carcinogenesis", 83rd Annual Meeting of the Society of Biological Chemists, KIIT University, Bhubaneswar, 18th-22nd Dec., 2014.

Invited Lecture on "Raw Betel-Nut induced Genomic Instability Leading to Cancer", Department of Life Sciences, NIT, Rourkella, Odisha, March 27th, 2015.

S. R. Rao:

Invited lecture:

Attended and Chaired a Session at 4th Review meeting of Coordinators of Biotech Hubs in the North Eastern Region *National Seminar on "Metabolomics- A New Frontier in Natural Products Research"* organized by Department of Biotechnology and Bioinformatics, North-Eastern Hill University, Shillong, India (May 23rd -24th 2014).

Attended a *Workshop on "Effective Management of Intellectual Property Rights in Biotechnology by Universities and Research Institutes in North East Region"* organized by Department of Biotechnology, Government of India, New Delhi and M/s. Biotech Consortium India Limited (BCIL), New Delhi; held at St. Anthony's College, Shillong, India (July 18th -19th 2014).

Delivered an Invited Lecture as a Resource Person on the topic "Techniques in Scientific Research Paper Writing" at *National Workshop on Scientific Writing, Research Communication and IPR Issues* held at Department of Botany, Nagaland University, Lumami, India (August 28th -29th 2014).

Attended two workshops on "Effective Management of Intellectual Property Rights

in Biotechnology by Universities and Research Institutions in Meghalaya, held at St. Anthony's College, Shillong, India (Sept. 22nd -23rd 2014).

Attended and Co-Chaired a Session at DBT-HUB Co-ordinators meeting organized by Department of Biotechnology, Government of India, New Delhi held at Department of Botany, North-Eastern Hill University, Shillong, India. (October 2014)

S. R Joshi:

Delivered an invited talk on "Fungal Endophytes – a Promising Source of Secondary Metabolites Waiting to be Explored in Metabolomics Era" at the *National Seminar on "Metabolomics- A New Frontier in Natural Products Research"* organized by Department of Biotechnology & Bioinformatics, NEHU on 23rd -24th May 2014.

Delivered an Invited talk on "Career options for Students pursuing Higher Studies In Botany & Zoology" organized by Career Guidance Cell, Sankardev College, Shillong on 19th Aug 2014.

Delivered an Invited talk on "Ebola Epidemic" at Dept. of Adult & Continuing Education, NEHU on 12th November 2014.

S. Majaw:

Participated in a *Workshop on "Pure Water & Analytical Solution for your Laboratory"* organized by Department of Chemistry, North Eastern Hill University, Shillong and Metrohm India limited at science seminar hall, NEHU on 9th May 2014.

Participated in one day sensitization *Workshop on "Technological Empowerment of Women through the SORF scheme of DST in collaboration with NASI"* organized by National Academy of Sciences, India (NASI)

NER Chapter at North-Eastern Hill University, Shillong on June 30th, 2014.

Participated in two day *Workshop on "Capacity Building in Effective Management of Intellectual Property Rights (IPRs) in Biotechnology by Universities and Research Institutes in the Meghalaya"* with the support of Department of Biotechnology, Ministry of Science and Technology, Government of India, New Delhi, at St. Anthony's College, Bomfyle Road, East Khasi Hills, Shillong on September 22nd -23rd, 2014.

Atanu Bhattacharjee:

Delivered an Invited talk on Applications of bioinformatics in medical sciences- An overview during a *National workshop on "Current Trends of Biotechnology in Biomedical Research"*. Guwahati Medical College, Guwahati, Assam. Nov 24th -25th 2014

Publications

Research Papers

Published in India

Das, A., Chaudhuri, D., Ghatge, N. B., Chatterjee, A., Mandal, N. (2015). Protective effect of *Clerodendrum Colebrookianum* Leaves against Iron-induced Oxidative Stress and Hepatotoxicity in Swiss albino mice. *Ind. J of Expt. Biol.*, 53: 281-291.

Sutar, S.P., Rao, S.R., Bhat, K.V., Yadav, S.R. (2014). Comparative Anatomical studies in the Genus *Cucumis* L. (Cucurbitaceae) from India. *Phytomorphology*, 64(1&2): 63-78.

Hynniewta, M., Malik, S.K., Rao, S.R. (2014). Cyto-morphology of two Wild Species of *Citrus* (*C. assamensis* and *C. ichangensis*) from North-East India. *Phytomorphology*. 64 (3&4) 121-126.

Lamo, J.M., Rao, S.R. (2014). Chromosome Counts in two Species of *Curcuma* L. (Zingiberaceae) from North-East India. *Pleione*. 8: 435-438.

Lamare, A., Rao S.R. (2015). Efficacy of RAPD, ISSR and DAMD markers in assessment of Genetic Variability and Population Structure of Wild *Musa acuminata* Colla. *Physiology and Molecular Biology of Plants*. DOI: 10.1007/s12298-015-0295-1.

Nongkhlaw, F.M.W., Joshi, S.R. (2014). L-asparaginase and Antioxidant Activity of Endophytic Bacteria Associated with Ethnomedicinal Plants. *Indian Journal of Biotechnology*. 14: 59-64.

Khaund, P., Joshi, S.R. (2014). Micromorphological characterization of Wild Edible Mushroom Spores using Scanning Electron Microscopy. *National Academy Science Letters*. 37(6): 521-527. DOI: 10.1007/s40009-014-0272-1.

Nongkhlaw, F.M.W., Joshi, S.R. (2014). Micrographical assessment of Antifungal effect of Endophytic Bacteria. *Proceedings of National Academy of Sciences. Section B: Biological Sciences*. DOI: 10.1007/s40011-014-0321-z.

Mylliemngap, B.J., Borthakur, A., Ingale K., Karanam, S., Velmurugan, D., Bhattacharjee, A. (2014). QGSAR approach to study the effect of various groups' on substituted quinolines showing Anti-Tuberculosis Activity. *IJPSR*. 5(4): 1345-1351. Chaurasia, N. (2014). Effect of Locally used Fungicide Mancozeb and Insecticide Profenofos in Rice Fields of Meghalaya on the Soil Microflora. *International Journal of Pharma and Biosciences*, 5, 1049-1060.

Published Abroad

Das, A., Chaudhuri, D., Ghate, Nikhil B., Chatterjee, A., Mandal, N. (2014). Phytochemical analysis, Antioxidant and Anticancer Potential of Leaf Extracts from Edible Greater Yam, *Dioscorea alata* L., from North-East India. *International Journal of Phytopharmacy*, 5(2): 109-119.

Biswal, D.K., Chatterjee, A., Bhattacharya, A., Tandon, V. (2014). The Mitochondrial Genome of *Paragonimus Westermani* (Kerbert, 1878), the Indian Isolate of the Lung Fluke Representative of the Family Paragonimidae (Trematoda). *Peer J*, 2: e484; DOI 10.7717/peerj.484.

Kurkalang, S., Banerjee, A., Ganguly, B., Dkhar, H., Nongrum, H.B., Islam, M., Rangad, G.M., Chatterjee, A. (2014). Precocious Anaphase and Expression of Securing and Genes as Candidate Biomarkers for the Early Detection in Areca-Nut induced Carcinogenesis. *Mutagenesis*, 5 Dec, 1-9.

Yadav, P., Chatterjee, A., Bhattacharjee, A. (2014). Identification of deleterious nsSNPs in alpha, theta, mu and pi class of GST Family and their Influence on Protein Structure. *Genomics Data*, 2: 66-72.

Podder, S., Ghoshal, N., Banerjee, A., Ganguly, B., Upadhyay, R., Chatterjee, A. (2015). Interaction of DNA- lesions induced by Sodium Fluoride and Radiation and its influence in Apoptotic Induction in Cancer Cell Lines. *Toxicology Reports*, 2: 461-471.

Choudhury, A., Radhika, M., Chatterjee, A., Banerjee, U., Singh, I.P. (2015). Qualitative and Quantitative Analysis of *Potentilla Fulgens* Roots by NMR, MALDI-TOF-MS, and HPLC-UV. *Phytochemical Analysis*, 26: 161-170.

- Devi, S.P., Kumaia, S., Rao, S.R., Tandon. P. (2014). Single Primer Amplification Reaction (SPAR) Methods Reveal Subsequent Increase in Genetic Variations in Micropropagated Plants of *Nepenthes Khasiana* Hook. F. Maintained for three consecutive Regenerations. *Gene*. 538: 23-29.
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- Ram, H., Sharma, S. K., Kumar, A., Rao, S. R. (2014). Male Meiotic Studies in Some Accessions of *Boswellia serrata* (Roxb.) Ex. from the Aravali Region of Rajasthan, India. *Cytologia*. 79(1): 1-7.
- Sutar, S.P., Rao, S.R., Bhat, K.V., Yadav, S.R. (2014). Comparative Anatomical Studies in the Genus *Cucumis* L. (Cucurbitaceae) from India. *Phytomorphology*, 64(1&2): 63-78.
- Hynniewta, M., Malik, S. K., Rao, S. R. (2014). Chromosome Counts Report of two *Citrus* Species. *Taxon*. 63(5): 1148-1155; DOI: <http://dx.doi.org/10.12705/635.34>; pp. 3 and E11.
- Anju. S., Madhavan, L., Yadav, S.R., Bhat, K.V., Rao S.R. (2015). Heterochromatin characterization through differential Fluorophore Binding Pattern in some Species of *Vigna* Savi. *Protoplasma*. 252:629-635; DOI: 10.1007/s00709-014-0708-y.
- Merita Devi, K., John, J., Yadav, S.R., Bhat, K.V., Rao, S.R. (2015). Comparative analysis of Heterochromatin Distribution in Wild and Cultivated *Abelmoschus* Species based on Fluorescent Staining Methods. *Protoplasma*. 252:657-664; DOI 10.1007/s00709-014-0712-2.
- Anju. S, Madhavan, L, Yadav, S.R., Bhat, K.V., Rao S.R. (2015). Heterochromatin Distribution and Comparative Karyo-Morphological Studies in *Vigna umbellata* Thunberg, 1969 and *V. aconitifolia* Jacquin, 1969 (Fabaceae) accessions. *Comparative Cytogenetics*.
- Rajkumari, K., John K.J., Yadav, S.R., Bhat, K.V., Shamurailatpam, A., Rao, S.R. (2015). Cytogenetical Treatise of Indian Representative Species of *Cucumis* – A Karyotypic approach. *Cytology and Genetics*. (In Press).
- Palepu, N.R., Nongbri, S.L., Premkumar, J.R., Verma, A.K., Bhattacharjee, K., Joshi, S.R., Forbes, S., Mozharivskiy, Y., Thounaojam, R., Aguan, K., Rao, K.M. (2015). Synthesis and Evaluation of New Salicylaldehyde-2-Picolinylhydrazones Schiff base compounds of Ru(II), Rh(III) and Ir(III) as in Vitro Antitumor, Antibacterial and Fluorescence Imaging Agents.. *Journal of Biological Inorganic Chemistry*. (DOI 10.1007/s00775-015-1249-3.
- Khaund, P., Joshi, S.R. (2014). Functional Nutraceutical Profiling of Wild Edible and Medicinal Mushrooms consumed by Ethnic Tribes in India. *International Journal of Medicinal Mushrooms*. 17(2): 187-197.
- Dey, J., Biswas, K., Thapa, U., Joshi, S.R., Kharbanga, I., Sultana, N., Ismail, K. (2014). Facile Synthesis of Silver Nanoparticles and their Synergistic Antibacterial Activity in Combination with Commercial Antibiotics. *Bulletin of the Chemical Society of Japan*. 88: 352-357. doi:10.1246/bcsj.20140255.
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Devi, L.S., Joshi, S.R. (2014). Evaluation of the Antimicrobial Potency of Silver Nanoparticles Biosynthesized by using an Endophytic Fungus, *Cryptosporiopsis ericae* PS4. *Journal of Microbiology*. 58(4): 667-674. DOI 10.1007/s12275-014-4113-1.

Nath, A., Joshi, S.R. (2014). Ultrastructural effect on Mastitis Pathogens by Extract of Endophytic Fungi associated with Ethnoveterinary Plant, *Hibiscus Sabdariffa* L. *Journal of Microscopy and Ultrastructure*. 3: 38-43. DOI: 10.1016/j.jmau.2014.10.001.

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Banerjee, S., Joshi, S.R. (2014). Ultrastructural analysis of Calcite Crystal Patterns formed by Biofilm Bacteria associated with Cave Speleothems. *Journal of Microscopy and Ultrastructure*. 2: 217-223. DOI: 10.1016/j.jmau.2014.06.001.

Thokchom, S., Joshi, S.R. (2014). Screening of Fibrinolytic Enzymes from Lactic Acid Bacterial Isolates associated with Traditional Fermented Soybean Foods. *Food Science and Biotechnology*. 23(5): 1601-1604 (2014) DOI :10.1007/s10068-014-0217-y.

Bhattacharjee, K., Joshi, S.R. (2014). NEMiD: A web-based Curated Microbial Diversity Database with Geo-based Plotting. *PLoS ONE*. 9(4): e94088. doi:10.1371/journal.pone.0094088.

Nongkhaw, F.M.W., Joshi, S.R. (2014). Distribution Pattern analysis of Epiphytic bacteria on Ethnomedicinal Plant Surfaces: A Micrographical and Molecular Approach. *Journal of Microscopy and Ultrastructure*. 2: 34-40. DOI 10.1016/j.jmau.2014.02.003.

Suhitha, Sivasubramanian., Devi, Seenivasan Karthiga., Pakyntein, H.Carehome, Bhattacharjee, Atanu., Velmurugan, Devadasan (2015). “Phytochemical analyses and activity of Herbal Medicinal Plants of North-East India for Anti-Diabetic, Anti-Cancer and Anti-Tuberculosis and their Docking studies in current topics in Medicinal Chemistry. *Current Topics in Medicinal Chemistry*. 15(1), 21-36.

Ghosal, Nitin., Myllemngap, Baphilinia., Bhattacharjee, Atanu (2014). Probable Interaction of reduced Glutathione with NF-KB Family Proteins Trim Down NF- KB Mediated Expression of MMP-9: an In Silico analysis. *J. Life Sci. Biomed*. 4(5): 409-415.

Dutta, Debabrata., Dutta, Anirudha., Bhattacharjee, Atanu, Basak, Amit., Das, Amit Kumar. (2014). Cloning, expression, Crystallization and Preliminary X-Ray Diffraction studies of Staphylococcal Superantigen-Like Protein1 (SSL1). *Acta Cryst. F* 70, 600-603.

Yadav, P., Chatterjee, A., Bhattacharjee, A. (2014). Identification of deleterious nsSNPs iná, ì, ð and è class of GST family and their influence on protein structure. *Genomics Data* 2, 66-72.

Books/Book Chapters/Proceedings

S.R. Joshi:

Nathaniel, A. L., Joshi, S.R. (2014). Economically important *Bacillus* and related Genera: a mini review. In: *Biology of useful Plants and Microbes*. A. Sen (Eds.) Narosa Publishing House, New Delhi, India 33-43.

Khaund, P., Joshi, S.R. (2014). The *Gomphus* Paradox of Meghalaya: Wild Edible Fungus or a Poisonous Mushroom? In: *Microbial Diversity and Biotechnology in Food Security*. R.N. Kharwar, R.S. Upadhyay, N.K. Dubey, Richa Raghuwanshi (Eds), 171-176. DOI: 10.1007/978-81-322-1801-2_13. Springer Link.

Joshi, S.R., Kalita, D., Kumar, R., Nongkhaw, M., Swer, P.B. (2014). Metal-Microbe Interaction and Bioremediation. In: *Radionuclide Contamination and Remediation Through Plants*. D.K. Gupta, C. Walther (Eds.) 235-251. DOI:10.1007/978-3-319-07665-2_12 <http://link.springer.com/chapter/>.

Funds Received from Agencies including NEHU/UGC

Funding Agency	Amount (in lakhs)
NEHU (N-Plan)	: 09.40
XII plan (five yrs.)	: 70.00
DBT	: 137.74
DBT-M.Sc. teaching	: 24.52835
DBT-Twinning	: 32.61
DBT BioCare	: 12.70
DST	: 06.00
DST-PURSE	: 07.00
NEC	: 10.00
OIL	: 09.58
DAE, BRNS	: 20.86
UGC	: 19.312
ICAR/NAIP	: 60.10

Research Projects

New Projects

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount (in lakhs)
1.	Network Programme for enrichment and update of Plants Chromosome Database for Spermatophytes and Archegoniate	Prof. S.Rama Rao	DBT	26.88
2.	Characterization of Probiotics of Non-Diary origin from North-East India	Dr. S.R. Joshi	DBT	45.35

3.	Studies on upgrading of water quality in coal mining areas of Meghalaya an Eastern Coal Mines by Chemisorption and Bioremediation towards mitigation of unscientific coal mining	Dr. S.R. Joshi*	DBT	30.50
4.	Study of anti-diabetic property and the mechanism of action of the wild edible plants available in North East India	Dr. Suktilang Majaw	SERB, DST	6.00
5.	Remediation of produced water from NE oil field by Microbial and membrane intervention with modeling of an effluent unit for the recovery of portable water	Dr. Suktilang Majaw *	DBT Twining programme	32.61
6.	Study the effect of <i>Potentilla fulgens</i> L. extract on the (AMP-activated protein kinase) AMPK pathway-regulated metabolism in induced-diabetic mice"	Dr. Suktilang Majaw*	DBT BioCARE Programme for Women Scientists	12.70

*Collaborative research project

Ongoing

Sl. No.	Title of Project	PI/Co PI	Funding Agency	Amount (in lakhs)
1.	Characterization of Rhizobia Associated with Native and Wild Legumes of Northeast India with Special Emphasis on Meghalaya	Prof. S.Rama Rao	DBT	7.10
2.	Whole Genome and Transcriptome Changes as a Consequence of allo and auto polyploidy in <i>Vigna</i> L	Prof. S.Rama Rao	DBT	18.80
3.	Screening of endophytic fungi having biofuel generation potential from biodiesel plants of Assam	Dr. S. R. Joshi	Oil India Ltd, Assam	9.58

School of Life Sciences

4.	Genomic and biochemical activity characterization of bacterial community associated with Tungtap - a traditionally fermented fish product of Meghalaya.	Dr. S. R. Joshi	UGC	19.312
5.	Assessment and Conservation of Microbial Biodiversity in Sacred Groves with Special Reference to plant growth Promoting <i>Bacillus</i> and Related Genera as Influenced by Environmental Degradation	Dr. S. R. Joshi	NEC	10.00
6.	Growth kinetics and adaptation behavior characterization of cesium and strontium tolerant bacteria.	Dr. S. R. Joshi	D A E, BRNS	20.86
7.	Protein-protein interface targetted drug designing	Dr. Atanu Bhattacharjee	DBT	9.11

Completed during the Year

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount (in lakhs)
1.	Studies on antitumor and radioprotective potential of <i>Potentilla fulgens</i> Wall ex Hook. and characterization of its active compounds	Prof. A. Chatterjee	DBT	37.80
2.	Allelic loss of mitotic checkpoint genes and their expression level in oral and esophageal cancer samples of raw betel-nut chewers in Meghalaya"-	Prof. A. Chatterjee	DST	44.50
3.	Biosystematics of the Genera <i>Vigna</i> , <i>Cucumis</i> and <i>Abelmoschus</i>	Prof. S.R.Rao	ICAR	60.10

4.	Exploration and germplasm collection of Citrus from the North Eastern India and Characterization of Genetic Variability using Cellular and Molecular Approaches	Prof. S.R.Rao	UGC	NIL
5.	Development of a bacterial Consortium for Bioremediation of Lead from Solution	Dr. S.R. Joshi	DBT	5.00
6.	Development of web based microbial database (bacteria, actinomycetes and fungi) of North-East India.	Dr. S.R. Joshi	DEIT	270.30
7.	Isolation, characterization and anti-cancer property of endophytic fungal	Dr. S.R. Joshi	DBT	43.57

Academic Collaborations

A national network program has been initiated to develop and update of Plant Chromosome Database for Spermatophytes and Archegoniate in collaboration with University of Calcutta , Kolkata; Amity University, NOIDA and Lucknow; Shivaji University, Kolhapur; University of Jammu, Jammu and Vikram University , Ujjain.

Research collaboration with Molecular Biology Division, Bhabha Atomic Research Centre, Mumbai.

Research collaboration with National Institute of Technology, Durgapur, West Bengal.

Honours/Awards/Recognitions

Suktilang Majaw:

Have been Awarded BioCARE Women Scientist Award from the Department of Biotechnology, Government of India, New Delhi.

Other Activities

S.R. Rao

Delivered an invited lecture on “Biotechnological Innovations- Impact on modern civisocieties II” at Academic Staff College, in 28th Orientation programme, North-Eastern Hill University, Shillong, India (May 20th 2014).

Delivered an invited lecture on “Biotechnological Innovations- Impact on modern civil societies II” at Academic Staff College, in 28th Orientation programme, North-Eastern Hill University, Shillong, India (May 21st, 2014).

Delivered two invited lectures on “Biotechnological Innovations- Impact on modern civil societies I&II” at Academic Staff College, in 28th Orientation programme, North-Eastern Hill University, Shillong, India (Sept.4th and 10th, 2014).

S.R.Joshi

Delivered an Invited talk on “Teaching at Institutions of Higher Learning Challenges and Effectiveness” on 24th June 2014 at UGC-ASC 29th Orientation Programme (General), organized by ASC, NEHU, Shillong.

Delivered an Invited talk on “Resource Utilization in Teaching” on 30th Jan 2015 during the 30th Orientation Programme (General), Organised by ASC-NEHU, Shillong.

Delivered an Invited talk on “Teaching at Institutions of Higher Learning Challenges and Effectiveness” on 20th February 2015 during UGC-ASC 31st Orientation Programme (General), organized by ASC-NEHU, Shillong.

Suktilang Majaw

Have been Awarded Overseas Associateships for the Scientists of North Eastern Region by

the Department of Biotechnology, Government of India, New Delhi for a period of 6 months at St. Vincent’s Institute of Medical Research, Melbourne, Australia.

Neha Chaurasia:

Attended a UGC Sponsored Refresher course in life sciences held at Academic Staff College, Bangalore University, Bangalore from 20th March to 11th April, 2014

Awarded Science Academies Summer research fellowship (2014) for two months research training at Centre for DNA Fingerprinting and diagnostics, Hyderabad from 8th Dec, 2014- 7th Feb, 2015.

DEPARTMENT OF BOTANY

Head : Prof. S. K. Barik
Telephone : 0364-2722201/ 0364-2722202 (O)
E-mail : headbotany@nehu.ac.in
Faculty :

Designation	Name and Qualification	Specialization
Professor	P. Tandon M.Sc. (Lucknow), Ph.D. (Jodhpur)	Plant physiology, biochemistry and biotechnology
	R. C. Laloo,* M.Sc., Ph.D (Gauhati)	Ecology
	A. K. Misra M.Sc., Ph.D (Meerut)	Cell and molecular genetics
	N. K. Chrungoo M. Sc., Ph.D (Kashmir)	Plant physiology, plant molecular biology
	M. S. Dkhar M. Sc., Ph.D (NEHU)	Microbiology and microbial ecology
	N. Venugopal M. Sc., Ph.D (Madras)	Plant anatomy and reproductive biology
	S. K. Barik M. Sc. (Berhampur), Ph.D (NEHU)	Forest ecology and management, biodiversity conservation and EIA
	Uma Shankar, M.Sc. (Agra), Ph.D (NEHU)	Ecology, biodiversity and conservation
	H. Kayang M. Sc., Ph.D (NEHU)	Microbiology and microbial ecology
Associate Professor	S. Kumaria M. Sc., Ph.D (NEHU)	Plant physiology and biotechnology
	Y. Kumar M.Sc. (Agra), Ph.D (NEHU)	Plant taxonomy and biosystematics

Associate Professor	L. Kharlukhi M. Sc. (NEHU), Ph.D (IARI)	Seed physiology
	P. Ramanujam M. Sc., Ph. D (NEHU)	Plant ecology, algal ecology
Assistant Professor	M. C. Das M. Sc., Ph.D (NEHU)	Plant biotechnology

*On E.O.L to Govt. of Meghalaya as a Deputy Chief Minister

Thrust Area of Research:

Plant and microbial diversity: Assessment, Characterization, Bio-prospection, and Conservation.

Brief Statement of Academic Activities:

The Department of Botany is a UGC Centre for Advanced Studies in Botany (Phase II). It offers two M.Sc. Programmes i.e. M.Sc. (Botany) and M.Sc. (Plant Molecular Biology), and Ph.D Programme in Botany. The faculty members are active in diverse areas of research in plant sciences and are operating several research projects funded by various national and international agencies. The department is currently coordinating three all India research projects involving 55 institutions/universities in the country. The Department has also research collaboration with several international and national organizations/universities. During the year 2014-15, the Department received research grant of Rs. 305.52 lakh from different funding agencies (excluding non-plan grant from UGC).

The faculty members were invited by different institutions and universities in the country and abroad to deliver lectures. Many faculty members were invited to important national and international events, symposia and seminars as Key-note and Lead speakers. The research students also presented papers in different

seminars, symposia, workshops and training programmes in India and abroad. Twelve students were admitted to Ph.D Programme of the Department during the year under report. Fourteen students were awarded Ph.D degree. Thirty students were admitted to M.Sc. (Botany) and 10 students to M.Sc. (Plant Molecular Biology) programmes. Twenty nine students were awarded M.Sc. degree in Botany and seven students were awarded M.Sc. degree in Plant Molecular Biology. Twenty six research papers were published in peer-reviewed scientific journals of national and international repute. Seven more research papers were published as peer-reviewed Book Chapters/ Proceedings. Two books were also published by the faculty members during the year. One student cleared UGC-CSIR NET examination and four students qualified in GATE.

Besides regular teaching and research programmes, the Department organized six workshops and training programmes during the year. Four distinguished scientists were invited to deliver thematic talks during the year. Five students were offered traineeship/ student fellowship within the department. Ten students were sent to the institutions of repute for advance training. Two students from abroad i.e. University of Freiburg, Germany worked as interns in the Department.

Against two vacant positions, Dr. Bibhuti B. Das and Ms. Neeta Pathaw were appointed as Guest faculty during the year. The following distinguished scientists visited the department and delivered invited lectures: (i) Prof. A. K. Paul of Calcutta University delivered a lecture on “Biological production of polyhydroxyalkanoates (PHA)”, (ii) Prof. H.

N. Pandey delivered a series of lectures on Ecology and Environment, (iii) Dr. Somidh Saha, University of Freiburg, Germany delivered a talk on “Silvicultural systems under climate change scenerios”, and (iv) Dr. Sonali Sengupta, Bose Institute, Kolkata delivered a series of lectures on Plant Intelligence Research.

Students' Profile

Enrolment Capacity:

M.Sc. (Botany) – 30, M.Sc. (Plant molecular Biology) – 10, Ph.D – Variable

Degree	SC	ST	GEN/ OBC	Male	Female	Meghalaya	Non- Meghalaya	TOTAL
M.Sc.(Botany)	1	30	-	12	18	20	10	30
M.Sc. (PMB)	-	-	-	4	6	7	3	10
Ph. D	-	6	6	1	11	4	8	12

Degrees Awarded

Degree	SC	ST	GEN/ OBC	Male	Female	Meghalaya	Non- Meghalaya	TOTAL
M.Sc.(Botany)	-	26	4	11	19	24	6	30
M.Sc. (PMB)	-	6	2	-	8	4	4	8
Ph. D	-	5	9	4	10	4	10	14

Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name (s) of Supervisor (s)/ Joint Supervisor
Dr. Asem Mipeshwaree Devi	Studies on amplified length polymorphism in tea (<i>Camellia</i> species) clones.	Prof. A. K. Misra/ Dr. S. Goel
Dr. Devendra Kumar	Distribution and mapping of selected tree species in different forest types of lower Assam region of India.	Prof. Uma Shankar
Dr. Insan Ara Rahman	Biochemical, molecular and phylogenetic studies of selected wild <i>Solanum</i> species of Meghalaya.	Prof. A. K. Misra/ Dr. Y. Kumar and Prof. D. Syiem
Dr. Debashree Nath	Role of microorganisms in carbon and phosphorus dynamics during recovery of degraded terrestrial ecosystems of Cherrapunjee plateau.	Prof. S. K. Barik
Dr. Kiran Gogoi	<i>Ex situ</i> conservation of <i>Cymbidium hookerianum</i> Rechb. F. and <i>Cymbidium eburneum</i> Lindl. through <i>in vitro</i> propagation and cryopreservation.	Prof. S. Kumaria/ Prof. P. Tandon
Dr. Wishfully Myllemngap	Structural and functional responses of landscape elements to anthropogenic land use changes in Cherrapunjee plateau.	Prof. S. K. Barik
Dr. Sumi Paul	<i>In vitro</i> propagation of <i>Dendrobium hookerianum</i> Lindl., a threatened orchid of Northeast India and enzymatic studies during different stages of its development.	Prof. S. Kumaria/ Prof. P. Tandon
Dr. Wympher Langtang	Embryological studies on <i>Gaultheria fragrantissima</i> Wall., an important medicinal plant.	Prof. N. Venugopal

Dr. Nilofer Sheikh	Systematic and phylogeny of <i>Dioscorea</i> species of Meghalaya.	Dr. Y. Kumar/ Prof. A. K. Misra
Dr. Ksanbok Makdoh	Status and diversity of arbuscular mycorrhizal fungi in coal mines of Jaintia Hills, Meghalaya.	Prof. H. Kayang
Dr. Soibam Purnima Devi	Assessment of genetic variations in micropropagated plants of <i>Nepenthes khasiana</i> Hook. F., an endemic insectivorous plant of Meghalaya.	Prof. S. Kumaria/ Prof. P. Tandon and Prof. S. R. Rao
Dr. Aroma Lyngdoh	Diversity of wood-rotting macrofungi of East Khasi Hills and decay potential of selected fungal species.	Prof. M. S. Dkhar/Prof. H. Kayang
Dr. Paromik Bhattacharyya	Molecular characterization and in vitro propagation of <i>Dendrobium nobile</i> Lindl., an important medicinal orchid of North East India.	Prof. S. K. Kumaria/Prof. P. Tandon
Dr. Souravjyoti Borah	Quantitative assessment of phytodiversity, floristic composition and species populations in lower Assam region of India.	Prof. Uma Shankar

Placement of Students

Dr. Wympher Langtang joined as Assistant Professor in St. Edmund's College, Shillong.

Dr. Viki Manners joined as an Orchidologist in the Forest Department, Government of Meghalaya.

Dr. S. Purnima Devi was awarded the 'DBT-Research Associateship in Biotechnology and Life Sciences' and has joined the Central Agricultural University, Imphal.

Dr. Mipeshwaree Devi, RA, Institute of Biodiversity and Sustainable Development, Imphal.

Dr. Insan Ara Rahman, Asstt. Professor, Rangia College, Assam.

Ms. Farzana Naseem was awarded Maulana Azad National Fellowship for Minorities in the year 2014.

Ms. Licha Jeri was awarded Maulana Azad National Fellowship for Minorities in the year 2014.

Mr. Blessing Roy Suchiang qualified UGC-CSIR NET during the year 2014.

Courses Conducted

Postgraduate: M.Sc. Botany

Semester-I

Mycology, Plant Pathology and Microbiology; Algae, Bryophytes and Pteridophytes; Gymnosperms and Plant Anatomy.

Semester-II

Plant Taxonomy and Economic Botany; Plant Biochemistry and Molecular Biology; Stress Biology; Bioprocess Development; Techniques in Molecular Biology.

Semester-III

Genetics, Cytogenetics and Plant Breeding; Plant Physiology; Biodiversity and Phytogeography; Environmental Pollution and Conservation; Biostatistics.

Semester-IV

Plant Reproductive Biology and Biotechnology; Plant Ecology and Ecosystem Analysis; Project Work and Submission of Dissertation.

Postgraduate: M.Sc. Plant Molecular Biology

Semester-I

Mycology and Plant Pathology; Microbiology; Cell Biology and Plant Physiology.

Semester-II

Plant Biochemistry and Molecular Biology; Eukaryotic Genome Organization; Stress

Biology; Bioprocess Development; Techniques in Molecular Biology.

Semester-III

Genetics, Cytogenetics and Plant Breeding; Metabolite Engineering; Environmental Pollution and Conservation; Computer Applications and Bioinformatics; Project Work.

Semester-IV

Plant Biotechnology; Molecular Basis of Differentiation; Continuation of Project Work and Submission of Dissertation.

Ph. D. Courses

Paper I : Research Methodology

Paper II : Plant Sciences

Paper III: Review of Literature and Seminar

Educational Tour of Students

Teacher-in-Charge : Dr. M. C. Das

Places/Institutions visited : Puri, Bhubaneswar, Chilka, Nandankanan Botanical garden, OUAT (Orissa University of Agriculture and Technology), Sundarbans, and Howrah Botanical garden, Kolkata.

Duration of tour : 10 days

Purpose of tour : Acquaint the students with marine, lagoon, and mangrove ecosystems of India. Acquainting the students with the research works in agricultural and horticultural sciences. Unique plants and animals in different ecosystems and botanical gardens.

Seminar/Conference/Symposium/Extension programmes etc.

Organised

Organised 4th Review meeting of the Coordinators of DBT sponsored Biotech Hubs in the North Eastern Region on July 18th, 2014 in the Auditorium of Guest house cum Seminar Hall Complex, North Eastern Hill University, Shillong.

Hands-on training programme on "Techniques in Molecular Biology" was held in the Department of Botany, North Eastern Hill University, Shillong from November 10th

-21st, 2014, under the All India Coordinated DBT Project on "Preventing extinction and improving conservation status of threatened plant species through application of biological tools".

Organized a *Workshop* was held under DBT All India Coordinated project on "*Functional Genomics Approaches in understanding the Regulation of Synthesis and Accumulation of Apocarotenoids in Saffron Corcus (Corcus Sativus L.)*" on 5th January, 2015.

A Hands- on training *Workshop on "Techniques in Genomics and their Applications in Biotechnology"* was held in the Department of Botany, North Eastern Hill University, Shillong from March 10th -15th, 2015, organised under DBT sponsored project "DBT Centre for empowerment Human resources of NER for Biotechnology activities".

A Hands-on training on "Plant Tissue Culture: Techniques and Application" held in the Department of Botany, North Eastern Hill University, Shillong from March 24th -31st, 2015.

Attended

Pramod Tandon

Delivered an Invited lecture on the Role of biotechnology for conservation and sustainable utilisation of plants from North-East India at Science Academies' Lecture *Workshop entitled 'Vistas in Biology-Biotechnology & Biodiversity* at Mizoram University, Aizawl during October 14th -15th, 2014.

Delivered a Plenary Lecture on 'Bioresources and Sustainable Development: Challenges and Strategies for North-East India' at 1st National Bio-resources and Sustainable Development Summit-2015 held at Institute of Bioresources

and Sustainable Development, Imphal during February 19th -20th, 2015.

Delivered an invited lecture on Plant Resources of an Indian Biodiversity Hot-spot: Challenges and Opportunities.

N.K. Chrungoo

Delivered an Invited Lectures on "Molecular Profiling and Sustainable Utilization of Underutilized Crops" At Tezpur University, Tezpur on Nov. 29th -30th, 2014.

N. Venugopal

Attended the *International Symposium on Conservation and Management of Pollinators for Sustainable Agriculture and Ecosystem Services* on 24th – 26th September 2014 entitled "Floral biology of *Aquilaria malaccensis* Lam., *Gymnocladus assamica* Kanjilal ex. P.C. Kanjilal, *Ilex khasiana* Purk. And *Illicium griffithii* Hook. F. & Thoms. four endangered and threatened tree species growing in Meghalaya and Arunachal Pradesh, North East India".

S.K. Barik

Delivered the keynote address at *National Conference on Biodiversity: Challenges and issues* held at Shillong on 5th June, 2014. .

Delivered a scientific lecture on 'Issues in Natural Resource Management of Northeast India: Agenda for future Research' to the faculty members and researchers of University of Freiburg, Germany on 26th June, 2014.

As a Guest Professor, delivered lectures on 'Tropical Forest Management' to the students of M.Sc. (Tropical Forestry module) at the Department of Silviculture, University of Freighburg, Germany on 30th June, 2014.

Presented a paper on “Quantifying Ecosystem Services for Green Economy” at the *International Conference on Green Economy* organized by IIM Shillong on 7th august, 2014.

Delivered the lead talk on the topic “Eastern Himalayas and North-Eastern India in a Changing World: Issues and Future Challenges in Tropical Ecology Congress – 2014 organised by International Society for Tropical Ecology and JNU at Jawaharlal Nehru University, New Delhi from 10th-13th December 2014. Also coordinated and chaired two sessions in Tropical Ecology

Delivered a lead talk on “Sustainable Agriculture in Mountain Ecosystems in North-East India with focus on Shifting Cultivation” at the workshop held at New Delhi on 18th-19th December, 2014, organized by UNDP.

Delivered an invited talk on “Conserving the Threatened Species” at Kerala Forest Research Institute, Peechi on 31st December, 2014.

A research paper on “Comparison of Tree Carbon Stock in a Montane Subtropical Broadleaved and Pine Forests of Meghalaya, North-Eastern India” (Rashmi R. Gogoi, Saralyn Kharbhih, Ibadahun M. Nonghuloo, Blessing R. Suchiang and S. K. Barik) was presented at Tropical Ecology Congress – 2014 organised by International Society for Tropical Ecology at Jawaharlal Nehru University (JNU)-New Delhi.

A research paper on “Niche Characteristics and Habitat Distribution Modeling for *Panax Assamicus*, a Threatened and Endemic Medicinal Plant of North-Eastern India” (Lucy Badaplin Nongbri, Dibyendu Adhikari, S.K. Barik) was presented at Tropical Ecology Congress – 2014 organised by International

Society for Tropical Ecology at Jawaharlal Nehru University (JNU)-New Delhi.

A research paper on “Nutrient Resorption and Litter Decomposition Patterns of *Myrica Esculenta* Buch. Ham. ex. D. Don in a Regenerating and an Old-Growth Sub-Tropical Forest of North-east India” (N Thapa, S. K. Barik) was presented at Tropical Ecology Congress – 2014 organised by International Society for Tropical Ecology at Jawaharlal Nehru University (JNU)-New Delhi.

A research paper on “Impact of Coal Mining and Dumping on Community Structure and Productivity of Montane Subtropical Grassland Ecosystem of Cherrapunjee Plateau” (Wishfully Myllemngap, Debashree Nath and S.K. Barik) was presented at Tropical Ecology Congress – 2014 organised by International Society for tropical ecology at Jawaharlal Nehru University (JNU)-New Delhi.

A research paper on “Habitat Distribution Modelling and Population Status of a Threatened Medicinal Plant of Himalayas, *Aconitum ferox* Wall. Ex Seringe” (R Tiwary, D Adhikari, S.K. Barik) was presented at Tropical Ecology Congress – 2014 organised by International Society for Tropical Ecology at Jawaharlal Nehru University (JNU)-New Delhi.

A research paper on “Secondary Forest Ecosystems Enhance Landscape-Level Tree Diversity through Niche Segregation: a case study from Tropical Evergreen Forest of Namdapha, Arunachal Pradesh” (D Adhikari, A Arunachalam, S.K. Barik) was presented at Tropical Ecology Congress – 2014 organised by International Society for Tropical Ecology at Jawaharlal Nehru University (JNU)-New Delhi.

Delivered a talk on “Conservation Biology of the Threatened Species” at FM University, Baleshwar, Odisha on 16th January, 2015.

Delivered the plenary lecture entitled, “Sustainable Bioresource Development: A case study from Meghalaya” at 1st Sustainable development summit held at IBSD Imphal, on 20th February, 2015.

Delivered the lead/plenary talk entitled, “An integrated approach to Conservation of Threatened Species” in the *National Conference on Biodiversity assessment, Monitoring and Conservation: Application of biotechnological tools* at RPRC, Bhubaneswar on 22nd February, 2015.

Delivered the lead lecture entitled, “Predicting Climate Change Driven Species Extinction based on Climatic Niche Modelling in Eastern Himalayas” in the *Fifth International Symposium on Plants and Environmental Pollution* held at NBRI, Lucknow on 24th February, 2015.

Chaired a Technical Session in the *National Seminar on “Folk Medicine and Traditional Healing in India: Theory and Practice”* held at NEHU, Shillong on 26th and 27th March, 2015, organized by the Department of Cultural and Creative Studies, NEHU, Shillong.

A research paper on “Medicinal and Traditional use Values of *Aconitum*, A High Elevation Herb of Himalayas and North-East India” (R Tiwary, D Adhikari, S.K. Barik) was presented in the *National Seminar on “Folk Medicine and Traditional Healing in India: Theory and Practice”* held at NEHU, Shillong on 26th - 27th March, 2015, organized by the Department of Cultural and Creative Studies, NEHU, Shillong.

Uma Shankar

Presented an invited talk on “Plant Biodiversity in Sal Forest Ecosystems” in UGC-sponsored *National Seminar on “Conservation of Biodiversity – National Perspective and Sustainable Development”* held during June 27th -28th, 2014 at Morigaon College, Morigaon, Assam.

Presented an invited talk on “Species dominance, diversity and dispersion in Khasi hill sal forest ecosystem in north-eastern India” in International Tropical Ecology Congress (TEC2014) held during December 12th -14th, 2014 at JNU, New Delhi and organized by School of Environmental Sciences, JNU, New Delhi in collaboration with International Society for Tropical Ecology (ISTE).

Presented an invited talk on “Modelling species distributions in northeast India” in *Workshop on Space Technology for Forest Management with special emphasis on Forest Working Plans* held on 27th February, 2015 at North-Eastern Space Applications Centre, Department of Space, Government of India, Umiam, Meghalaya.

Presented an invited talk on “Diversity in sal-dominated forests of north-eastern India” in UGC-sponsored *National Seminar on “Contemporary Researches in Frontal Areas of Plant sciences”* held during March 17th -18th, 2015 at Tripura University, Agartala, Tripura.

H. Kayang

Delivered Three Invited lectures on “Popularization and dissemination of Technology of Biopesticide formulation among the poor and marginal farmers of weaker sections in North East region” at Krishi Vigyan

Kendra (KVK), Jowai on 21st April, 2014, 3rd May 2014 in Sohmynting village, Jaintia Hills District and 31st May 2014 in Pyndeng Umiong Village, East Khasi Hills District, organized under DST collaborating project, Government of India.

Suman Kumaria

As a Guest Speaker under DBT Star College Programme (2014-2015) of St. Edmund's College, Shillong on August 9th, 2014 delivered an Invited lecture on 'Micropropagation: A lifeline for threatened plants' in the Department of Botany of the college.

Publications

Published in India

Updhaya, K., Thapa, N., Barik, S.K. (2015). Tree Diversity and Biomass of Tropical Forests under two Management Regimes in Garo Hills of northeastern India. *Tropical Ecology* 56: 123-134.

Devi, H.R., Dkhar, M.S. (2014). Comparative Study on Soil Fungal Diversity of Mawphlang Sacred Grove and Disturbed Forest North East India. *Indian Journal of Scientific Research and Technology* 2:64-72.

Laldinthar, R., Dkhar, M.S. (2014). Estimation of Bacterial Population in Decomposing Leaf Litters of *Polyalthia Longifolia* (Sonner.) Thw. And *Rhododendron xcavates* Sm. Under laboratory condition. *Indian Journal of Advances in Plant Research* 1(6): 41- 45.

Pfose, N. L., Kehie, M., Kayang, H., Mao, A.A. (2014). Estimation of Ethnobotanical Plants of Naga of North East India. *Journal of Medicinal Plants Studies* 2 (3): 92-104.

Shailajan, S., Kumaria, S., Pednekar, S., Menon, S., Joshi, H., Matani, A. (2014).

Chromatographic Evaluation of a Phytoestrogen Genistein from *Flemingia vestita* Benth: an Endemic Plant of Northeast India. *Pharmacognosy Communications* 4 (4): 2-9.

Venugopal, N., Ahuja, P. (2014). Reproductive Biology of *Panax wangianus* (Araliaceae): a critically endangered medicinal plant in the Nongkrem Sacred Forest of Meghalaya, Northeast India. *The International Journal of Plant Reproductive Biology* 5 (2):1-14.

Published Abroad

Barman, D., Dkhar, M.S. (2015). Amylolytic Activity and its Parametric Optimization of an Endophytic Bacterium *Bacillus Subtilis* with an Ethno-Medicinal Origin. *Biologia* 70(3): 283–293.

Bhattacharyya, P., Kumaria, S. (2015). Molecular characterization of *Dendrobium Nobile* Lindl., an Endangered Medicinal Orchid, based on Randomly Amplified Polymorphic DNA. *Plant Syst. Evol.* 301: 201–210.

Devi, S.P., Kumaria, S., Rao, S.R., Tandon, P. (2015). Genetic Fidelity assessment in Micropropagated Plants using Cytogenetical analysis and Heterochromatin Distribution: a case study with *Nepenthes khasiana* Hook f. *Protoplasma*. DOI 10.1007/s00709-015-0763-z.

Marbaniang, E.J., Venugopal, N. (2015). A new species of *Illicium* (*Illicium arunachalensis*) from Arunachal Pradesh, India. *The International Journal Research Publication's of Science and IT Management* 04:36–43.

Nongkling, P., Kayang, H. (2015). Arbuscular Mycorrhizal status of Upland Rice in Jhum cultivation of Ri-Bhoi District, Meghalaya. *International Journal of Current Research* 7 (03): 13686-13689.

- Raomai, S., Kumaria, S., Kehie, M., Tandon, P. (2015). Plantlet regeneration of *Paris Polyphylla* Sm. Via Thin Cell Layer Culture and Enhancement of Steroidal Saponins in Mini-Rhizome Cultures using Elicitors. *Plant Growth Regul.* 75: 341–353.
- Songachan, L.S., Kayang, H. Moinao P. (2015). Diversity and Species Composition of Arbuscular Mycorrhizal Fungi in *Clerodendrum* species. *Mycosphere* 6 (2): 150–158.
- Kalita, V., Kumaria, S., Tandon, P. (2014). Cryopreservation of Zygotic Embryos of *Pinus kesiya* Royle ex. Gord. by Air Flow Dehydration. *Transient* 4: 8–13.
- Kehie, M., Kumaria, S., Tandon, P., Ramchiary, N. (2014). Biotechnological Advances on in vitro Capsaicinoids Biosynthesis in Capsicum: a review. *Phytochem. Rev.* DOI 10.1007/s11101-014-9344-6.
- Laldinthar, R., Dkhar, M.S. (2014). Fungal diversity in the Gut Contents of Selected Earthworms Species at two Forest Stands of Meghalaya differing in altitudes. *International Journal of Current Research and Academic Review* 11: 217– 226.
- Majumdar, K., Shankar, Uma, Datta, B.K. (2014). Trends in Tree Diversity and Stand Structure during Restoration: A Case Study in Fragmented Moist Deciduous Forest Ecosystems of Northeast India. *Journal of Ecosystems* 1: 1–10. (DOI: 10.1155/2014/845142).
- Majumdar, K., Datta, B.K., Shankar, Uma (2014). Lower Altitudinal Variation in Habitat Associations, Tree Diversity and Co-Dominant Population Structures Along Moist Deciduous Forests Dominated by Sal (*Shorea robusta*) in Northeast India. *Forest Science and Technology* 10(4):201–212. (DOI:10.1080/21580103.2014.920732).
- Myrchiang, P., Dkhar, M.S., Devi, H.R. (2014). Studies on Endophytic Fungi associated with Medicinally Important Aromatic Plant *Artemisia Nilagirica* (C.B. Clarke) Pamp. and their Antagonistic Activity against *Phytophthora Infestans*. *Journal of Advanced Laboratory Research in Biology* 5:112–119.
- Ramchiary, N., Kehie, M., Brahma, V., Kumaria, S., Tandon, P. (2014). Application of Genetics and Genomics towards *Capsicum* Translational Research. *Plant Biotechnol. Rep.* 8: 101–123.
- Raomai, S., Kumaria, S., Tandon, P. (2014). Plant regeneration through direct Somatic Embryogenesis from Immature Zygotic Embryos of the Medicinal Plant, *Paris polyphylla* Sm. *Plant Cell, Tissue Organ Cult.* 118: 445–455.
- Siangbood, H., Ramanujam, P. (2014). Effect of Anthropogenic Activities on Algal Assemblages in Umiew river, Meghalaya. *Phykos* 44(1):41–51.
- Siangbood, H., Ramanujam, P. (2014). Role of Water Current on Structure and Function of Periphytic Algae in Lotic Systems. *International journal of current science* 12: 39–49.
- Tripathi, A.K., Shankar, Uma (2014). Patterns of Species Dominance, Diversity and Dispersion in 'Khasi hill Sal' Forest Ecosystem in Northeast India. *Forest Ecosystems* 1:23. (DOI 10.1186/s40663-014-0023-2).
- Venugopal, N., Ahuja, P., Lalchhanhimi. (2014). A Unique Type of Endosperm in *Panax Wangianus* S. C. Sun. *The Journal of Plant Development* 20: 45–50.
- Venugopal, N., Ahuja, P. (2014). Reproductive Biology of *Panax Wangianus* (Araliaceae):

a Critically Endangered Medicinal Plant in the Nongkrem Sacred Forest of Meghalaya, Northeast India. *The International Journal of Plant Reproductive Biology* 1: 1–14.

Books / Chapters/Proceedings

Sarma, K., Barik, S.K. (2015). *Analysis of Impact of Coal Mining on Environment*. Global Book Organization, New Delhi.

Tandon, V., Barik, S.K. (2015). *Bamboo Flowering and Rodent Control*. Astral International Publications, New Delhi.

Barik, S.K., Adhikari, D., Chettri, A., Singh, P.P. (2015). Diversity of lianas in Eastern Himalayas and North-Eastern India In: *Biodiversity of Lianas* (Ed. N. Parthasarathy), Springer.

Dohtdong, Lashaihun and Chrungoo, N.K. (2015). Cloning and Characterization of 5' UTR of the Endosperm-Specific Legumin-type Seed Storage Protein Gene of Common Buckwheat (*Fagopyrum esculantum* Moench). In: *Proc. Indian Genetic Congress*.

Chettry Upasna, Chrungoo, N.K. (2015). Expression Patterns of Genes involved in Carotenoid Biosynthesis in Selected Accessions of Rice (*Oryza sativa* L.) from North East India differing in α -carotene content of their grains. In: *Proc. Indian Genetics Congress*.

Laldinthar, R., Dkhar, M. S. (2014). Leaf Litter Breakdown by two different Earthworm Species- *Eisenia Foetida* (exotic) and *Perionyx Xcavates* (indigenous) under Laboratory condition. In: *Microbial Diversity and Biotechnology in Food Scarcity*. R. N. Kharwar and R. Upadhyay, N. Dubey, R. Raghuwanshi, (Eds.). Springer. 581- 588.

Lyngdoh, I., Kayang, H. (2014). Diversity of Micro-Fungi in Streams Receiving Coal Mine

Drainage from Jaintia Hills, Meghalaya, a North Eastern State of India In: *Fungi from different substrates* J.K. Misra, J.P. Tiwari, S.K. Deshmukh, Csaba Vágvölgyi (Eds.). CRC Press, Taylor & Francis. 115-125.

Songachan, L.S., Kayang, H. (2014). Diversity of Arbuscular Mycorrhizal Fungi in Field and trap cultures from rhizosphere soils of *Flemingia vestita* Benth. Ex Baker. In: *Microbial Diversity and Biotechnology in Food Scarcity*. R. N. Kharwar, R. Upadhyay, N. Dubey, R. Raghuwanshi, (Eds.). Springer. 103-100.

Tripathi, A.K., Shankar, Uma (2014). Species Dominance and Diversity in Sal-Pine Forests of Meghalaya, India. In: *Bioreview* J. C. Saikia and M. S. Baruah (Eds.). Tiwa Autonomous Council, Morigaon, Assam. 15-19.

Funds Received from Agencies including NEHU/UGC

Funding Agency	Amount (in lakhs)
NEHU (Non-Plan)	: 17.95
CAS	: 10.80
UGC (Project)	: 8.12
DBT	: 251.23
DST PURSE	: 7.00
DST	: 5.00
MoEF&CC	: 22.57
Government of Arunachal Pradesh	: 49.80
TOTAL	: 323.47

Research Projects***New Projects***

Sl No.	Title of the project	PI/Co-PI(s)	Funding Agency	Amount (in lakhs)
1	Chemical ecology	S.K. Barik	DBT	116.26

Ongoing Research Project (s)

Sl No.	Title of the project	PI/Co-PI(s)	Funding agency	Amount received during 2014-15 (in lakh)
1	Popularization and dissemination of technology of bio-pesticide formulations among the poor and marginal (ST) farmers of weaker sections in North East region.	H. Kayang (PI)	DST New Delhi (Collaborating Project)	116.26
2	Survey of endophytic fungi associated with some aromatic plants of North Eastern region and assessment of their effect on chemical profile and biological activity as antimicrobial, aflatoxin inhibitors and antioxidant.	M. S. Dkhar (PI) H. Kayang (Co-PI) Collaborators: Banaras Hindu University	DBT, New Delhi (Twinning Project for NER)	22.01
3	Molecular character-ization and chemo-profiling of two pharmacologically relevant species of <i>Dendrobium</i> found in Northeast India.	S. Kumaria (PI) M. C. Das (Co-PI) Hiranjit Choudhury (Co-PI) Collaborators: Sunita Shailajan (PI) Herbal Lab., Mumbai	DBT's Twinning programme for the NE.	7.57

School of Life Sciences

4	All India coordinated network Research project "Functional genomics approaches in understanding the regulation of synthesis and accumulation of apocarotenoids in saffron crocus (<i>Crocus sativus</i> L.)"	N. K. Chrungoo, PI and All-India programme Coordinator.	DBT	11.96
5	Kinetics and mechanism of uptake, translocation and accumulation of natural uranium and fission product ^{137}Cs in plants	N. K. Chrungoo, PI Collaborator: P.M. Ravi, BARC, PC	DAE-BRNS	Nil
6	Preventing Extinction And Improving Conservation Status Of Threatened Plant Species Through Application of Biological Tools, DBT	All India coordinator: S.K. Barik Sub-Project 1: Coordinator: P. Tandon PI: S.K. Barik Co-Pis: N. Venugopal H. Choudhury M.C. Das Sub-Project 2: PI: N.K. Chrungoo Co-Pis: S. Kumaria K. Upadhaya Sub-Project 15: Coordinator: S.K. Barik Joint Coordinator: N.K. Chrungoo	DBT, New Delhi	33.32

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8	Conservation of some <i>Paphiopedilum</i> species (orchid) of Northeast India through asymbiotic seed germination and cryopreservation	Meera Chettri Das (PI) S. Kumaria (Co- PI)	UGC, New Delhi	8.118
9	All India Coordinated research project on sacred grove ecosystem services of Meghalaya	S. K. Barik (PI) and All India Coordinator and K. Upadhaya (Co-PI)	MoEF	22.57
10	Perspective plan for development of Tawang river basin: e-flow assessment, cumulative impact assessment, determination of basin carrying capacity, and landscape level biodiversity management plan.	S.K. Barik, Coordinator	Government of Arunachal Pradesh	49.80
11	DBT-Infrastructure	N.K. Chrungoo, PI	DBT	15.00
12	DBT-Empowerment	P. Tandon, PI N.K. Chrungoo, Co-PI	DBT	12.93
13	DBT-Biotech Hub	P. Tandon, Coordinator N.K. Chrungoo, Deputy Coordinator	DBT	26.16

School of Life Sciences

Research Project(s) completed during the year

Sl. No	Title of the project	PI/Co-PI(s)	Funding Agency	Amount (in lakh)
1	Flora and fauna of Kylleng Pynden Sohiong Mawthabah uranium rich areas of West Khasi Hills, Meghalaya (Principal Investigator)	H. Kayang (PI)	Board of Research in Nuclear Sciences (BRNS), Mumbai	29.73
2	Phytochemical profiling, molecular characterization and conservation of <i>Flemingia vestita</i> : Endemic medicinally important plant of Northeast India.	S. Kumaria (PI) H. Choudhury (Co-PI) Collaborators: Sunita Shailajan (PI) Herbal Lab., Mumbai	DBT's Twinning programme for the NE.	30.39
3	All India Coordinated Research Project On Reproductive Biology Of Four Rare, Endangered And Threatened (RET) Tree Species Namely: <i>Aquilaria malaccensis</i> (Thymeleaceae), <i>Gymnocladus assamicus</i> (Caesalpinaceae), <i>Ilex khasiana</i> (Aquifoliaceae) And <i>Illicium griffithii</i> (Illiciaceae) Of North East India Particularly In Arunachal Pradesh And Meghalaya.	Prof. N. Venugopal	MoEF	41.28

Academic Collaborations

India

With 36 Universities/Institutions all over the country under the DBT programme, "Preventing extinction and improving conservation status of threatened plants through application of

biotechnological tools" (Being coordinated by the Department).

With 16 Universities/Institutions all over the country under the All India Coordinated research project on "Quantification of Sacred Grove Ecosystem Services", sponsored by

Ministry of Environment and Forests (Being coordinated by the Department).

Any Other

Pramod Tandon

Chairman of the Local Advisory Committee, Regional Science Centre, Guwahati.

Chairman, Local Advisory Committee, Regional Science Centre, Guwahati.

Member, Governing Council, Institute of Bioresources and Sustainable Development, Ministry of Science and Technology, Government of India, Imphal.

Member, State Higher Education Council under Rushtriya Uchchatar Shiksha Abhiyan (RUSA), Govt. of Arunachal Pradesh.

Member, Biotechnology Vision Group of U.P., Government of Uttar Pradesh.

Member, Research Advisory Committee, Uttarakhand Science Education and Research Centre, Council for Science & Technology, Government of Uttarakhand.

Member, Empowered Committee of Experts (Project Approval Board), National Mission on Education through Information and Communication Technology (ICT), Ministry of Human Resource Development, Government of India.

Advisor, Institute of Life Sciences, Malkol Knowledge Centre, Hyderabad.

Member, Executive Committee of Central Research & Training Laboratory, National Council of Science Museums, Kolkata.

Member, Himalayan Biodiversity Centre for Excellence, Himachal Pradesh University, Shimla.

Member of Academic Bodies of several Universities.

A. K. Misra:

Member, International Advisory Committee, 18th International Meeting on *Frankia* and Actinorhizal Plants, France (2015).

Director, Internal Quality Assurance Cell, NEHU.

UGC Nominee, Advisory Committee, SAP Programme, Sree Venkateshwara University, Tirupati.

UGC Nominee, Advisory Committee, SAP Programme, Tripura Central University, Agartala.

N.K. Chrungoo

Member, Task force on "Basic Plant Biology, Agriculture and Frontier Areas" of Dept. of Biotechnology, Govt. of India.

Member, Dept. of Biotechnology, Govt. of India Task force on Biotechnology Based Programme for Women.

Member, Advisory Committee of Centre for Advanced studies in Botany, Annamalai University, Annamalai Nagar, Chidambaram, Tamil Nadu.

Member, Board of studies in Botany, Central University, Tripura.

Member, Board of studies, Faculty of Biotechnology, D.Y. Patil University, Pune.

Member, Editorial Board, *Fagopyrum*, International Buckwheat Research Association.

S.K. Barik:

Attended GIZ workshop at Agartala on 25th April, 2014 and shared experiences on sustainable natural resource management strategies

Delivered five lectures at Academic Staff College, NEHU on 3rd April, 2014, 28th May, 2014 and 12th November, 2014. Topics: Biodiversity conservation in climate change scenarios, Challenges for biodiversity conservation, and Multidisciplinary approaches to solve environmental problems.

Participated as an expert member for evaluation of biodiversity studies by Meghalaya Basin Development Authority on 10th April, 2014.

Member, Task Force on Environmental Biotechnology of Department of Biotechnology (DBT), Ministry of Science and Technology, Government of India (2014 –continuing).

National Chief Technical Adviser of Indo-German Natural Resource Management project in Tripura (2009 - 2017).

Member, Meghalaya State Biodiversity Board (2012-2016).

Member, Scientific Advisory Committee on ENVIS, constituted by Ministry of Environment, Forests and Climate Change, Government of India (2012-2014).

Expert Member, Indira Paryavaran Award, Ministry of Environment and Forests, Government of India (2013-2015).

Member, Meghalaya Wildlife Board (2014-16).

Member, Committees for determination of Ecologically fragile zones in Meghalaya and Nagaland.

Executive Member, International Society for Tropical Ecology.

Executive Member, International Society for Environmental Botanists.

Member, Editorial Board, *Journal of Biodiversity*.

Associate Editor, *Tropical Ecology*.

Uma Sankar:

Delivered a Talk on “Mapping Biodiversity in Meghalaya” in “Special Summer School” held on September 05th, 2014 at UGC-Academic Staff College, NEHU, Shillong.

Served as a member of Expert Committee for Evaluation of UGC Minor Research Projects and Seminar/Conference/Workshop/Symposia Proposals held at UGC North-Eastern Regional Office, Guwahati on 21st November, 2014.

Suman Kumaria

Has been elected the Executive Member of the journal ‘The Orchid Society of India’.

DEPARTMENT OF ZOOLOGY

Head : Prof. N. Saha
Telephone : 0364-2722301 / 0364-2722304 (O)
E-mail : nsaha@nehu.ac.in; nsahanehu@hotmail.com
Faculty :

Designation	Name and Qualification	Specialization
Professor	B. K. Sharma M.Sc., Ph.D. (Panjab Univ.)	Limnology & Biosystematics
	B. B. P. Gupta M. Sc., Ph.D. (BHU)	Endocrinology
	S. B. Prasad M.Sc., Ph.D. (BHU)	Cell Biology
	R. N. K. Hooroo M.Sc., Ph.D. (NEHU)	Developmental Biology
	N. Saha M.Sc., Ph.D. (NEHU)	Biochemical Adaptation
	S. N. Ramanujam M.Sc. (Bangalore Univ.), Ph.D. (NEHU).	Fish Biology
	A. K. Yadav M.Sc. (Agra Univ.), Ph.D. (NEHU)	Parasitology
	B. Roy M.Sc. (NBU), Ph.D. (NEHU)	Parasitology
	A. S. Dixit M.Sc. (Gorakhpur Univ.), Ph.D. (BHU)	Endocrinology
Associate Professor	B. Keshan M.Sc., Ph.D. (University of Calcutta)	Insect Endocrinology & Molecular Biology
	S. Ghosh M.Sc., Ph.D. (University of Calcutta)	Genetics

Assistant Professor	S. Choudhury M.Sc., Ph.D. (NEHU)	Entomology
	S. R. Hajong M.Sc., Ph.D. (NEHU)	Entomology
	B. Das M.Sc. (Berhampur Univ.), Ph.D. (NEHU)	Biological Chemistry

Thrust Areas of Research:

The Department is engaged in research under the thrust area "Faunal Diversity and Ecophysiology" in various disciplines such as biodiversity of freshwater zooplanktons, fishes, amphibian and insects in N.E. region, adrenergic signal transduction in pineal gland, hormonal regulation of oxidative metabolism, and breeding biology of endangered fishes, amphibians and birds, cisplatin action as an anticancer drug, and efficacy of putative anticancerous plants and animals from N.E. region, biochemical adaptation to nitrogen, carbohydrate, protein and oxidative metabolism, and nitric oxide signaling under various environmental stresses in air-breathing fishes, diversity of helminth parasites and entomopathogenic nematodes in N. E. region with emphasis on molecular taxonomy of zoonotic parasites and bioprospection of anthelmintic efficacy of plants used in traditional medicine systems, chronoendocrinology and photophysiology of reproduction, migration and moult in some birds of N. E. region, silkworm growth and development under various environmental stresses and the involvement of hormones mediated signaling pathway, and epigenetic study of human cancer with emphasis on the role of DNA methylation.

Brief Statement of Academic Activities:

The Department of Zoology offers specializations in all major disciplines of Zoology. The Department is regularly conducting UGC Refresher course in Zoology for the college and University teachers. Faculties of the Department have several collaborations with international and national academic and research institutions. The Department has successfully organized several national and regional seminars, symposia and workshops having direct regional and national relevance. Besides book(s)/book chapters, a large number of research papers have been published in reputed national and international journals by its faculties.

The Department offers M.Sc. and Ph.D. Programme. The students are offered specializations in all major disciplines of Zoology. The Department has adopted the choice-based credit system (CBCS) at the M.Sc. level. Some research students qualified in the CSIR-UGC NET examination. Some students have acquired important faculty positions in educational and research institutions of the N.E. region and other parts of the country. The total intake of students per year for M.Sc. Zoology course is 30, and for the Ph.D. programme it varies from 15 to 20. The faculty members and research students of this Department are recipient of various awards, distinctions and fellowships.

Based on overall academic and research contributions, this Department was awarded with three phases of DRS and two phases of DSA programme by the University Grants Commission (UGC) under its Special Assistance Programme to promote higher research with special reference to the N.E. region. Further, the Department has received grants recently under the DST-FIST programme for the second time. The Department has

various research projects sponsored by UGC, DST, DBT, ICMR, ICAR and MoEF. All these projects have a direct relevance to the socio-economic development of the N.E. region. The Department is conducting seminars every week for the active participation of M.Sc. students to deliver a talk under the supervision of faculty members. The Department runs a "Zoonic Society" for various activities involving students, teaching and non-teaching staff.

Students' Profile

Enrolment Capacity: M.Sc. - 30; Ph.D. - Variable

Degree	SC	ST	GEN/OBC	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
M.Sc.	1	25	4	12	18	20	10	30
Ph.D	1	8	4	5	8	8	5	13

Degrees Awarded

Degree	SC	ST	GEN/OBC	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
M.Sc.	-	26	1	5	22	14	13	27
Ph.D	-	4	4	5	3	2	6	8

Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name (s) of Supervisor (s)/ Joint Supervisor
Mr. Atin Kumar Srivastava	Spatial distribution of anophelin species in Meghalaya highlands: Effect of land use and topography.	Prof. S.B. Prasad

School of Life Sciences

Ms. Amenla	Studies on modulatory role of ascorbic acid on antitumor activity and toxicity of cisplatin in tumor-bearing mice.	Prof. S.B. Prasad
Ms. Purobi Nath	Evaluation of anthelmintic activity of some medicinal plants used in the folk-lore medicine system of Rieng tribe in Tripura.	Prof.A.K. Yadav
Mr. Ananta Swargiary	Structural and biochemical studies on <i>Fasciolopsisbuskif</i> following treatment with <i>Alpinanigra</i> , an anthelmintic plant.	Prof.B. Roy
Mr. Duwaki Rangad	Study of amphibian fauna in select forests of Meghalaya with special reference to ecology, breeding behaviour and development stages of <i>Polypedateshimalayensis</i> (Annandale, 1912).	Prof.R.N.K. Hooroo
Mr. Ronald K. LyngdohTron	Studies on the habitat choice and breeding behaviour of frogs in East Khasi Hills of Meghalaya.	Prof. R.N.K. Hooroo
Mr. Seydur Rahman	Studies on certain biochemical parameters associated with polyethism and polymorphism in <i>Apis cerana indica</i> (Fab.)	Dr. S.R. Hajong
Ms. VoleentinaDeviAthokpam	Studies on the spectrum and molecular discrimination of Crustacea- and fish-borne trematodezoonoses in Manipur, Northeast India.	Prof. V. Tandon

Placement of Students:

Dr. Geetali Bhuyan (a student of Prof. N. Saha) was appointed as Asst. Professor in Bishwanath Chariali College, Shibsagar, Assam.

Dr. Ananta Swargiary (a student of Prof. B. Roy) was appointed as Asst. Professor in Department of Zoology, Bodoland University, Kokrajhar, Assam.

Courses conducted:

Postgraduate: M.Sc. in Zoology

Semester-I

Cell Biology & Immunology, Biological Chemistry & Molecular Biology, Genetics & Developmental Biology

Semester-II

Animal Physiology, Parasitology & Entomology, Techniques in Biology

Semester-III

Endocrinology & Reproductive Biology, Aquatic Biology & Fisheries, Animal Diversity

Semester-IV

Biosystematics & Evolution, Ecology & Environmental Biology, Special Paper*

*Special Papers offered: Biochemical Adaptation and Metabolic Regulation, Developmental Biology, Endocrinology and Reproductive Physiology, Fish Biology, Genetics, Helminth Parasitology, Insect Physiology, Limnology, Molecular Cell Biology and Immunology.

Ph.D. Courses:

Paper-I : Research Methodology

Paper-II : Optional Papers: (A) Applied Entomology, (B) Chronobiology, (C) Fish

Physiology and Toxicology, (D) Freshwater Ecology, (E) Molecular and Biochemical Zoology and (F) Tropical Parasitology.

Paper-III : Review of Literature

Educational Tour of Students

Teacher-in-Charge : Prof. B.B.P. Gupta.

Places/Institutions visited : Central Institute for Fishery Education, Mumbai, Fish Landing Site, Varsova, Mumbai, Dolphin Park, Goa, Marine Life Aquarium, Panaji, Goa.

Duration of tour : 21st January, 2015 to 2nd February, 2015

Purpose of Tour : Prof. B.B.P. Gupta took M.Sc. 3rd Semester students on study tour to Mumbai and Goa and visited various academic and research institutes relevant to the courses in M.Sc. from 21st January 2015 to 2nd February 2015.

Seminar/Conference/Symposium/Extension programmes etc.

Organized

One-day sensitization *Workshop on "Technological Empowerment of women through the SoRF scheme of DST in collaboration with NASI"* at North-Eastern Hill University on June 30, 2014.

Organized the 7th PAC meeting of the DST-SERB of Animal Sciences group on September 27-28, 2014.

Lecture Series on "Frontiers in Zoological Sciences" under the DSA-Phase II (UGC-SAP) Programme was organised at the Department of Zoology, NEHU, Shillong on March 27, 2015.

Attended

B. K. Sharma:

Attended the IUCN *International Symposium on River Biodiversity: Ganges–Brahmaputra - Meghna River System, Ecosystems for Life, A Bangladesh - India Initiative* organized by Department of Zoology, Patna University, Patna (April 4th -6th, 2014), chaired a session and presented two invited lectures : (i) Floodplains of the Brahmaputra river basin- globally interesting ecotones with rich Rotifer (Rotifera: Eurotatoria) biodiversity, (ii) Biodiverse assemblage of Cladocera (Crustacea: Branchiopoda) in the floodplains of the Brahmaputra.

A. S. Dixit:

Attended the 26th *International Ornithological Congress* from August 18th -24th, 2014 at Rikkyo University, Tokyo, Japan and presented a paper on “Seasonal Changes in Responsiveness of the Photoperiodic Response System to Long Day Length in the Subtropical Tree Sparrow”.

Attended the 20th *National Symposium on Chronobiology-Time in Biology & Medicine at School of Life Sciences*, Pt. Ravishankar Shukla University, Raipur from 27th -29th March, 2015, chaired a session and delivered an invited talk on “Photoperiodic control of seasonality in tree sparrow, *Passer Montanus*.”

B. Keshan:

Attended the *National Conference on “Applied Zoology in Sustainable Development: An Update”* held at University of North Bengal, West Bengal, India on January 30th - February 2nd, 2015 and presented a paper titled “Effect of food deprivation on corpora allata, hemolymphecdysteroidtiter and mRNA

expression of certain genes in fat body in silkworm, *Bombyxmori*.”

Attended the *International Symposium on “Reproductive Biology and Comparative Endocrinology”* held at Banaras Hindu University, Varanasi, India, on February 25th -27th, 2015 and presented a paper titled “Effect of insulin on hemolymphecdysteroidtiter, glycogen content and expression of certain genes in fed and food deprived larvae in silkworm, *Bombyxmori*”

S. R. Hajong:

Attended *National Symposium on Entomology as a Science and IPM as a Technology-the way Forward*, held at Collage of Horticulture and Forestry, Central Agriculture University, Pasighat Arunachal Pradesh on 14th – 15th November 2014, and presented a paper titled; “Biodiversity of Cicadas (Homoptera:Cicadidae) from Meghalaya and Entomotourism”.

B. Das:

Attended and presented a paper entitled” Cloning and Characterization of Phosphoenol Pyruvate Carboxykinase in *Raillietinae Chinobothrida* (Cestoda: Cyclophyllidea)” at the “25th National Conference of Parasitology” organized by CSIR-CDRI, Lucknow, & The Indian Society for Parasitology, during October 16-18, 2014.

Publications

Published in India

Sharma, B.K., Sharma, S. (2014). Remarks on ‘A report on Lecanidae (Rotifera: Monogononta) from Andhra Pradesh, India’: misidentifications and status. *Journal of Threatened Taxa* 6(3) : 5990-5992. DOI : dx.doi.org/10.11609/JoTT. o3876.5990-2.

- Kalita, S., Verma, A.K., Prasad, S.B. (2014). Chlorambucil and Ascorbic Acid-Mediated Anticancer Activity and Hematological Toxicity in Dalton's Ascites Lymphoma Bearing Mice. *Indian J. Exp. Biol.*, 52: 112-124.
- Verma, A.K., Prasad, S.B., Rongpi, T., Arjun, J. (2014). Traditional Healing with Animals (zootherapy) by the Major Ethnic Group of KarbiAnglong district of Assam, India. *Int. J. Pharm. Pharmac. Sci.*, 6: 593-600.
- Kalita, S., Prasad, S.B. (2015). Effect of Chlorambucil Alone and in Combination with Ascorbic Acid on Glutathione, Glutathione-Related Enzymes, Mutagenicity and Histopathology in Tumor-Bearing Mice. *Int. J. Pharma. Biosci.*: 220-335, 6: (In Press).
- Banerjee, B., Bhuyan, G., Saha, N. (2014). Influence of Hypertonicity on the Induction of Ureogenesis and Amino Acid Metabolism in Air-Breathing Walking Catfish (*Clarias batrachus*, Bloch). *Indian J. Exp. Biol.* 52:728-738.
- Lalthanzara, H., Ramanujam, S.N. (2014). Earthworm Cast Production and Physico-Chemical Properties in two Agroforestry Systems of Mizoram (India). *Trop.Ecol.* 55: 75-84.
- Dey, S., Ramanujam, S.N., Mahapatra, B.K. (2014). Breeding of Ornamental Hill Stream Fish *Devarioaequipinnatus* (McClelland) in captivity. *Int. J. Fish. Aqua. Stud.* 1: 1-7.
- Paul, R., Guite, L.L., Ramanujam, S.N. (2014). Copper and Cadmium induced Histopathological Alterations in liver of *Heteropneustes fossilis* (Bloch) at varying water pH. *Int. J. Fish. Aqua. Stud.* 1: 38-42.
- Lalthanzara, H., Sailo, L., Solanki, G.S., Ramanujam, S.N. (2014). Galliformes and their Conservation Issues in Mizoram, North East India. *Cibtech J. Zool.* 3: 42-48.
- Singh, P., Dey, M., Ramnujam, S.N. (2014). Assessing Feeding Habits of Tadpoles of *Leptobranchium smithi* Matsui, Nabhitabhata and Panha, 1999 during different development stages: a qualitative and quantitative study from Rosekandy Tea Estate, Cachar, Assam. *Int. J. Sci. Res. Pub.* 4: 1-6.
- Swargiary A., Roy, B. (2015). Phytochemical Screening and Antioxidant Property of Shoot Extracts of *Alpinianigra* (Gaertn.) Burt (Family-Zingiberaceae). *Medic. Plants* 7: 48-54.
- Ronghang, B., Roy, B. (2014). Scanning Electron Microscopic Observations on Sensilla of *Ixodesacutitarsus* recovered from Semi-Wild Cattle *Bos frontalis* Lambert. *Entomol. App. Sci. Letters.* 1:8-15.
- Ronghang, B., Roy, B. (2014). Occurrence of *Rhipicephalus sanguineus* and *Ixodesacutitarsus* (Acari: Ixodidae) among Semi-Wild Cattle *Bos frontalis* in Northeast India. *Entomol. App. Sci. Letters.* 1: 23-26.
- Singh, N.S., Dixit, A.S. (2014). Participation of Endogenous Circadian Rhythm in Photoperiodic Time Measurement during Ovarian Responses of the Subtropical Tree Sparrow, *Passer Montanus*. *Indian J. Exp. Biol.* 52: 496- 503.
- Keshan, B., Paul, S., Bembem, T., Devi, K. S. (2014). Tissue-Specific Expression Patterns of Heat Shock Protein 90 Transcripts in Silkworm, *Bombyx mori*. *J. Entomol. Zool. Studies* 2: 53-59.
- Hajong, S.R. (2014). First record of the Genus *Lichnofugia* from India with Description of a New Species (Orthoptera: Tettigoniidae; Conocephalinae; Agraeciini; Liarina). *Zootaxa* 3878: 298-300.

- Rahman, S., Thangkhiew, I., Hajong, S.R. (2014). Hypopharyngeal gland activity in Task-Specific Workers under Brood and Broodless Conditions in *Apis cerana indica* (Fab.) *J. Apicultural. Sci.* 58: 59-70.
- Kharbanger, M., Choudhury, S., Hajong, S.R. (2014). Occurrence and Abundance of Thrips (Thysanoptera) associated with Rice Crops from Meghalaya. *Int. J. Res. Stud. Biosci.* 2: 1-7.
- Shangpliang, J. W., Hajong, S.R. (2015). Diversity, species Richness and Evenness of Wild Silk moths collected from Khasi hills of Meghalaya, North East India. *J. Entomol. Zool. Studies.* 3: 168-173.
- Shangpliang, J. W., Hajong, S.R. (2015). The Wild Silk Moths (Lepidoptera: Saturniidae) of Khasi Hills of Meghalaya, North-east India. *Int. J. P. Ani. Env. Sci.* Vol. 5(2).
- Kharbanger, M., Hajong, S.R., Choudhury, S. (2015). Total Phenol Content in Thrips Infested Rice Leaves of Khasi Hills. *Ento. App. Sci. letters.* 2: 42-46.
- Ramnath, Jyrwa, D.B., Dutta, A.K., Das, B., Tandon, V. (2014). Molecular characterization of the Indian Poultry Nodular Tapeworm, *Raillietina echinobothrida* (Cestoda: Cyclophyllidae: Davaineidae) based on rDNA internal transcribed spacer 2 region. *J. Parasit. Dis.* 38: 22-26. DOI 10.1007/s12639-012-0184-2.
- Vijaya, Yadav, A.K. (2014). *In Vitro* Anthelmintic assessment of selected Phytochemicals against *Hymenolepis diminuta*, a Zoonotic Tapeworm. *J. Parasit. Dis.* DOI 10.1007/s12639-014-0560-1.
- Nath, P., Yadav, A.K. (2015). Anticestodal properties of *Hibiscus Rosa-Sinensis* L. (Malvaceae): an *in vitro* and *in vivo* study against *Hymenolepis diminuta* (Rudolphi, 1819), a zoonotic tapeworm. *J. Parasit. Dis.* DOI: 10.1007/s12639-015-0664-2.
- Lalramliana, Yadav, A.K. (2015). Effects of Storage Temperature on Survival and Infectivity of three Indigenous Entomopathogenic Nematodes Strains (Steinernematidae and Heterorhabditidae) from Meghalaya, India. *J. Parasit. Dis.* DOI 10.1007/s12639-014-0639-8.
- Schmidt-Rhaesa, A., Limatemjen, Yadav, A.K. (2015). *Chordodes combiareolatus*, a new Species of Horsehair Worms (Nematomorpha) from Nagaland, India, with further comments on *Chordodes moutoni*. *Zootaxa* 3925: 202-210.
- Published Abroad**
- Sharma, B.K. (2014). Rotifers (Rotifera: Eurotatoria) from Wetlands of Majuli - the Largest River Island, the Brahmaputra River Basin of Upper Assam, Northeast India. *Check List* 10: 292-298.
- Sharma, B.K., Sharma, S. (2014). Faunal Diversity of Cladocera (Crustacea: Branchiopoda) in Wetlands of Majuli (the largest river island), Assam, Northeast India. *Opusc. Zool. Budapest* 45: 83-94.
- Sharma, B.K., Sharma, S. (2014). The diversity of Indian Brachionidae (Rotifera: Eurotatoria: Monogononta) and their distribution. *Opusc. Zool. Budapest* 45: 165-180.
- Devi, L.M., Thabab, C.M., Hooroo, R.N.K., Dey, S., (2014). Scanning Electron Microscopic Studies on the Effect Of pH on the Gill Morphology of *Polypedates taiensis* Hatchling (Amphibia: Anura). *J. Adv. Micros. Res.* 9: 115-120.
- Thabab, C.M., Devi, L.M., Hooroo, R.N.K., Dey, S. (2014). Microscopic studies on the

Effects of pH on the Oral Morphology of *Hylaannectans* Tadpoles from North East India. *J. Adv. Micros. Res.* 9: 285-290.

Sequences submitted to the GenBank and accession number received by Prof. N. Saha:

- KF475767: Banerjee, B. and Saha, N. *Clariasbatrachus* argininosuccinate synthase (ass1) mRNA, partial cds, 871 bp
- AB916361: Banerjee, B., Saha, N. *Clariasbatrachus* 60S ribosomal protein L30 mRNA, complete cds, 479 bp
- LC002613: Koner, D., Banerjee, B., Saha, N. *Clariasbatrachus* caspase-3 mRNA, complete cds, 1863 bp
- LC002614: Koner, D., Banerjee, B. and Saha, N. *Clariasbatrachus* caspase-8 mRNA, partial cds, 592 bp
- AB981194: Banerjee, B., Saha, N. *Clariasbatrachus* glutaminase kidney isoform mRNA, partial cds, 709 bp
- AB23912: Banerjee, B. and Saha, N. *Clariasbatrachus* tubulin-alpha 1, partial cds, 1201 bp
- AB985493: Chakraborty, A., Banerjee, B., Saha, N. *Clariasbatrachus* thioredoxin reductase 1, partial cds, 756 bp
- KP261050: Banerjee, B., Koner, D., Saha, N. *Clariasbatrachus* caspase-9 (casp9) mRNA, complete cds
- KP221298: Banerjee, B., Koner, D., Saha, N. *Clariasbatrachus* mitogen-activated protein kinase 12 (mapk12) mRNA, complete cds.
- KP221297: Banerjee, B., Koner, D., Saha, N. *Clariasbatrachus* dual specificity mitogen-

activated protein kinase kinase 2 (map2k2) mRNA, complete cds

- KP221296: Banerjee, B., Koner, D., Saha, N. *Clariasbatrachus* dual specificity mitogen-activated protein kinase kinase 6 (map2k6) mRNA, complete cds
- KP221295: Banerjee, B., Koner, D., Saha, N. *Clariasbatrachus* mitogen-activated protein kinase 8 (mapk8) mRNA, complete cds

Manorama, M., Ramanujam, S.N., Dey, S. (2014). Scanning Electron Microscopy of some Vital Structures of *Puntiusshalynius* Yazdani and Talukdar 1975, an endemic hill-stream fish of north east India. *J. Adv. Micro. Res.* 9: 1-7.

Guite, L. L., Paul, R., Ramanujam, S. N. (2015). Scanning Electron Microscopic studies on the Gills of the Catfish *Heteropneustes fossilis* (Bloch) Exposed to copper at varying pH. *Bul. Environ. Contam. Toxicol.* 94: 709-714.

Yadav, A.K. (2014). Applications of Scanning Electron Microscopy in Taxonomy and Biodiversity studies on Gordiids (Nematomorpha). *J. Adv. Microsc. Res.* 9: 99-104.

Yadav, A.K., Temjenmongla, Deori, K. (2014). *In-vitro* and *In-Vivo* Anthelmintic effects of *Gynura angulosa* (Compositae) Leaf Extract on *Hymenolepis diminuta*, a zoonotic Tapeworm. *J. Biol. Act. Prod. Nat.* 4: 171-178.

Nath, P., Yadav, A.K. (2015). Acute and Sub-Acute Oral Toxicity assessment of the Methanolic Extract from Leaves of *Hibiscus Rosa-Sinensis* L. in Mice. *J. Intercul. Ethnopharmacol.* 4:70-73.

- Roy, B., Giri, B.R. (2015). A-Viniferin induced Structural and Functional Alterations in *Raillietinaechinobothrida*, a Poultry Tapeworm. *Microsc. Microanal.* 1-8. DOI: 10.1017/S1431927614014603.
- Giri, B.R., Bharti, R.R., Roy, B. (2015). *In vivo* Anthelmintic Activity of *Carex baccans* and its Active Principle Resveratrol against *Hymenolepis diminuta*. *Parasit. Res.* 114: 785-788.
- Ronghang, B., Roy, B. (2014). Stereoscan observations on Sensilla of *Rhipicephalus sanguineus* recovered from Semi-Wild Cattle *Bos frontalis* Lambert. *J. Adv. Micros. Res.* 9: 136-140.
- Chetia, M., Giri, B.R., Swargiary, B., Ronghang, B., Roy, B. (2014). *Amomum maximum* Roxb (Zingiberaceae), A Medicinal Plant of Tripura, India: A natural anthelmintic. *J. Adv. Micros. Res.* 9: 148-153.
- Ghatani, S., Shylla, J.A., Roy, B., Tandon, V. (2014). Multilocus Sequence Evaluation for Differentiating Species of the Trematode Family Gastrothylacidae, with a note on the Utility of Mitochondrial COI motifs in species identification. *Gene*, 548: 277-248.
- Singh, N.S., Dixit, A.S. (2014). Morphology and Ultrastructural studies of Pineal Organ of the Tree Sparrow (*Passer montanus*). *Micron* 58: 9-14.
- Dixit, A.S., Singh N.S., Sougrakpam, R. (2014). A Comparative Study on Photoperiodic Control of Seasonal Cycles in the Females of Migratory Yellow Breasted Bunting and the Resident Tree Sparrow. *J. Photochem. Photobiol. Sci.* 13: 1568-1579.
- Dixit, A.S., Singh, N.S. (2014). Photoperiodic Control of Testicular Growth, Histomorphology and Serum Testosterone Levels in the Male Tree Sparrow: Involvement of Circadian Rhythm. *Gen. Com. Endo.* 208: 5-11.
- Das, B., Ramnath, Dutta, A.K., Tandon, V. (2015). Differential Kinetics at PK/PEPCK Branch Point in the Cestode, *Raillietinaechinobothrida*. *Exp. Parasitol.* 153:151-159 DOI: 10.1016/j.exppara.2015.03.023
- Books/Book Chapters/Proceedings:**
- Sharma, B.K., Sharma, S. (2014). Northeast India - An important Region with a Rich Biodiversity of Rotifera. In: *Rotifera XIII: Rotifer Biology- a Structural and Functional Approach*. (Eds. B. K. Sharma, H. J. Dumont & R. L. Wallace). *International Review of Hydrobiology*, 99 (1-2):20-37. DOI 10.1002/iroh.201301701.
- Sharma, B.K., Sharma, S. (2014). Indian Lecanidae (Rotifera: Eurotatoria: Monogononta) and its distribution. In: *Rotifera XIII: Rotifer Biology- a Structural and Functional Approach*. (Eds. B. K. Sharma, H. J. Dumont & R. L. Wallace). *International Review of Hydrobiology*, 99(1-2): 38-47. DOI 10.1002/iroh.201301702.
- Sharma, B. K., Sharma, S.(2014). Floodplains of the Brahmaputra River Basin-Globally Interesting Ecotones with Rich Rotifer (*Rotifera: Eurotatoria*) Biodiversity. In: Sinha, R. K. & Ahmed, B. (eds.), *Rivers for Life - Proceedings of the International Symposium on River Biodiversity: Ganges-Brahmaputra - Meghna River System, Ecosystems for Life*, A Bangladesh - India Initiative, IUCN, International Union for Conservation of Nature, 258-270.

Sharma, S., Sharma, B.K. (2014). Biodiverse Assemblage of Cladocera (*Crustacea: Branchiopoda*) in the Floodplains of the Brahmaputra River Basin. In: Sinha, R. K. and Ahmed, B. (eds.), *Rivers for Life - Proceedings of the International Symposium on River Biodiversity: Ganges-Brahmaputra - Meghna River System, Ecosystems for Life*, A Bangladesh - India Initiative, IUCN, International Union for Conservation of Nature, 312-321.

Choudhury M.G., Saha, N. (2015). Nitric Oxide Synthetic Machineries and Possible Roles of Nitric Oxide in Various Physiological Functions in Fish. In: *Advances in Fish Research*, Vol. VI. U.C. Goswami (Eds.), Narendra Publishing House, Delhi, 29-67.

Lalthanzara, H., Ramanujam, S.N. (2014). Vertical Distribution of Earthworms in Agro-Forestry System of Mizoram, India. In *Biology and Ecology of Tropical earthworms* Chaudhuri,

P. and S. M. Singh (Ed.). Discovery Publishing House Pvt. Ltd., New Delhi, India. 125-140.

Lalthanzara, H., Sailol, L., Solanki, G.S., Ramanujam, S.N., Lallianthanga, R.K., Lalbiakmawia. (2014). Grey Peacock Pheasant, *Polyplectron bicalcaratum*, as a probable candidate for Ecological Indicator in Tropical Montane Forest of Mizoram, Northeast India. In *Issues and Trends of Wildlife Conservation in Northeast India* Lalnunluanga, J. Zothanzama, Lalramliana, Lalduhthlana and H.T. Lalremnga (Ed.), Mizo Academy of Sciences (MAS), Aizawl, India.

Rahman, S., Hajong, S.R. (2015). Life Cycle, Growth Rate and Developmental Phases in Workers and Drones of the Indian Honeybee, *Apis cerana indica* Fab.. In: *Biodiversity, Environment and Functional Biology*. M. Serajuddin (Ed.). Excellent Publishing House, New Delhi: 77-86.

Funds Received from Agencies including NEHU/UGC etc.: Rs. 580.81 lakhs.

Research Projects

New Projects

Sl No.	Title of Project	PI/Co-PI	Funding Agency	Amount (in lakhs)
1.	Studies on circadian rhythm of arylalkylamine Nacetyltransferase gene expression and its regulation in photoreceptive pineal of the fish, <i>Clarias gariepinus</i>	Prof. B. B. P. Gupta	Science & Engineering Research Board (SERB), DST, New Delhi	35.29

School of Life Sciences

2.	Investigate physiological and metabolic adaptations in migrants <i>Emberiza</i> sp. No.BT/PR4984/MED/30/752/2012	Prof. A. S. Dixit	Department of Biotechnology, Government of India	65.31
3.	Identification of Biomarkers of oropharyngeal cancer prevalent in North-Eastern states of India by whole genome Methylation and Expression profiling	Dr.Srimoyee Ghosh (PI), Dr.B.Syunyu (Co-PI), Dr.Arindam Maity (Co-PI), Dr.Sharmila Sen Gupta (Co-PI)	DBT (NER) GOI.	85.20

Ongoing:

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount (in lakhs)
1.	Molecular characterization in the expression of mRNAs for ornithine-urea cycle enzymes and enzyme proteins, multiple glutamine synthetase genes and signalling cascades under hyper-ammonia stress in the air-breathing walking catfish, <i>Clarias batrachus</i>	Prof. N. Saha, Co-PI: Dr. M. Santra, NCCS, Pune	Department of Science and Technology, New Delhi	69
2.	Effects of high environmental ammonia on the expression of multiple glutamine synthetase genes, mitogen-activated protein kinases and Hsp70 in the air-breathing mud eel, <i>Monopterus albus</i>	Prof. N. Saha	University Grants Commission, New Delhi	12.75

3.	Possible upregulation of ornithine-urea cycle genes and involvement of MAPKs to adapt under hyper-ammonia stress in air-breathing catfish, <i>Clarias batrachus</i>	Prof. N. Saha	Department of Science and Technology, New Delhi	49.95
4.	Studies on the Pharmacological Properties of <i>Lysimachia aramosa</i> and its Active Component(s)	Prof. B. Roy	UGC-New Delhi	12.78
5.	Cyto-toxic Potential of α -viniferin, a Natural Polyphenolic Compound, in Swiss Albino Mice	Prof. B. Roy	Department of Science & Technology, New Delhi	49.58
6.	Role of kisspeptin and GnIH in regulation of seasonal breeding in the Tree Sparrow. SERB No:SR/SO/AS47/2011, Dated: 23/8/2012	Prof. A. S. Dixit	Department of Science & Technology, New Delhi	49.59
7.	Identification and development of DNA methylation biomarkers for oral/oropharyngeal cancers prevalent in the North-Eastern states of India	Dr. Srimoyee Ghosh (PI), Dr. B. Shunyu (Co-PI)	DBT, GOI	53.08
8.	Identification and development of DNA methylation biomarkers for stomach cancers prevalent in Mizoram, India "	Dr. Srimoyee Ghosh (PI), Dr. B. Shunyu (Co-PI)	DST, GOI	46.54
9.	Antibiosis and other Protective Mechanism against Entomopathogens in a Nest Building Eusocial Ant.'	Dr. S. R. Hajong	SERC, New Delhi	12

School of Life Sciences

10.	'Niangtaser' - an unique insect resource from Ri-Bhoi District'. Meghalaya	Dr. S. R. Hajong	Basin Development Authority (MBDA), Shillong	3.51
11.	Epigenetic status of pro/anti apoptotic activity of age-related genes involved in breast cancer (No. BT/253/NE/TBP/2011 dated May 07, 2012)	Dr. B. Das (PI and Coordinator) and Others	DBT, GoI	123.66 (NEHU 36.23 lakhs)

Completed during the Year:

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount (in lakhs)
1.	Insect hormones and insulin signaling in silkworm, <i>Bombyxmori</i> under fed and starved conditions: a study at molecular level	Dr.BelaKeshan (PI)	Department of Biotechnology, government of India	55.57
2.	Comparative Proteomic and Transcriptomic Analyses of PEPCK under the influence of <i>Flemingiavestita</i> -derived Phytoestrogen (Genistein) (No. BT/PR12828/Med/30/221/2009 dated March 22, 2010)	Dr. B. Das (PI) Prof.V. Tandon (Co-PI) Dr.Amit Sharma (Co-PI)	DBT, GoI	130.93
3.	Analysis of molecular signalling proteins and epigenetic factors responsible for regulation of PEPCK expression (No. BT/103/NE/TBP/2010 dated March 16, 2011)	Dr. B. Das (PI and Coordinator) Prof. V. Tandon (Co-PI) Prof.K.Satyam oorthy (Co-PI)	DBT, GoI	58.20

Academic Collaborations:

India:

Prof. B. K. Sharma collaborated with Prof. S. K. Chakraborty, Department of Zoology, Vidyasagar University, Midnapore, West Bengal.

Prof. N. Saha collaborated with Dr. Manas Santra, NCCS, Pune.

Prof. R.N.K. Hooroo collaborated with Prof. S.K. Dutta, Nature Environment and Wildlife Society (NEWS), Nature House, Salabani, Gauda Sahi, Odisha.

Prof. A. S. Dixit collaborated with (i) Prof. V. Kumar, Department of Zoology, Delhi University, (ii) Prof. Sangeeta Rani, Department of Zoology, Lucknow University, (iii) Prof. Sanjay K Bhardwaj, Department of Zoology, C.C.S. University, Meerut, (iv) Dr. Monika Sadananda, Department of Biotechnology, St. Aloysius College Mangalore and (v) Dr. Praful S. Singru, School of Biological sciences, NISER, Bhubaneswar.

Dr. S. Ghosh collaborated with (i) Dr. Arindam Maitra, National Institute of Biomedical Genomics (NIBMG), Kalyani, W. Bengal, (ii) Dr. Neizekhotuo Brian Shunyu of (NEIGRIHMS), (iii) Dr. Saia Chenkual, Civil Hospital, Aizwal, Mizoram.

Dr. B. Das collaborated with (i) Dr. Amit Sharma, Group leader, International Centre for Genetic Engineering and Biotechnology, New Delhi; (ii) Prof. K. Satyamoorthy, Director, MLSC, Manipal University, Manipal; (iii) Prof. S. Mishra, Scientist-E, ILS, Bhubaneswar, Odisha; (iv) Dr. A. Katak, Director, BBCL, Guwahati, Assam.

Abroad:

Prof. B.B.P. Gupta collaborated with Prof. R. Spessert, Department of Functional and Clinical

Anatomy, University Medical Center of the Johannes Gutenberg University Mainz, Mainz, Germany on clock genes in retina.

Prof. R.N.K. Hooroo collaborated with Prof. Indraneil Das, Institute of Biodiversity and Environmental Conservation, University of Malaysia, Sarawak.

Prof. A.S. Dixit collaborated with Prof. K. Tsu Tsui, Laboratory of Integrative Brain Sciences, Department of Biology and Center for Medical Life Science, Waseda University, Tokyo, Japan.

Prof. A.K. Yadav collaborated with Prof. Andreas-Schmidt Rhaesa, University of Hamburg, Germany and jointly published one research paper.

Dr. B. Das collaborated with (i) Dr. V. Ferro, Group leader, SIPBS, Strathclyde University, Scotland, UK; (ii) Dr. Todd Holyoak, Associate Professor, Department of Biology, University of Waterloo, (200 University Avenue West Waterloo, ON N2L 3G1, Canada.

Any Other

B.B.P. Gupta:

Assessors Interaction Meeting organized by NAAC, Bangalore, 12th & 13th December, 2014.

Member of the Editorial Board, Proceedings of Indian National Science Academy (PINSAC: Biological Sciences), INSA, New Delhi,

Member of the Selection Committee for Science Academies' Summer Research Fellowship (SRF), December 15-17, 2015, Indian Academies of Sciences, Bangalore.

N. Saha

Member of PAC committee of SERB-DST Animal Sciences group, New Delhi.

Visitors Nominee in Life Sciences, Mizoram University, Aizawl.

Member of the Board of Studies in Zoology, Sikkim University, Gangtok.

R.N.K. Hooroo:

The PAC (DST) meeting for Science communication at INSA, New Delhi from 17-18 September, 2014.

The Wildlife Week valedictory function as a resource person organized by the Department of Forest and Environment, Government of Meghalaya on 3rd November, 2014.

The Lecture Series on “Frontiers in Zoological Sciences” under the DSA-Phase II (UGC-SAP) Programme at the Department of Zoology, NEHU, Shillong on 27th March, 2015.

S.N. Ramanujam:

Served as a member of School of Ecology and Environmental Science, Assam University.

A. K. Yadav:

Acted as a resource person in 30th Orientation Programme organized by the UGC-Human Resource Development Centre, NEHU, Shillong on 5 February, 2015 and delivered two lectures on “In Interaction on Human Helminth Parasitic Diseases”.

Member Editorial Board of Journal of Parasitic Diseases (Springer);

Served as (i) the Editorial Board Member of journal of parasitic diseases (Springer: (ii) the adhoc reviewer panel of Journal of Ethnopharmacology (Elsevier, Ireland).

A. S. Dixit:

Acted as faculty in 13th SERB School in Chronobiology held at Department of Biosciences, Mangalore University, Mangalore from 22nd December 2014 - 4th January 2015.

2nd SERB School in Avian Biology held at Department of Zoology and Environmental Science, Gurukul Kangri Vishwavidyalaya, Haridwar from 8-21 March 2015.

Elected Vice President of the Indian Society for Chronobiology.

B. Keshan:

Attended a Seminar on “Frontiers in Zoological Sciences”, Department of Zoology, NEHU, Shillong, September 29, 2014.

Chief Editor for the publication of the annual magazine “Zoonic News”, 2013-14, published by Zoonic Society, Department of Zoology.

B. Das:

Life Member of Mitochondrial Society of India.

VI

SCHOOL OF PHYSICAL SCIENCES

Dean : Prof. B. Jyrwa
Telephone : 0364-2722501/ 0364-2722503/ 0364-2722830 (O);
986308270 (M); 0364-2550486/ 0364-2550076 (Fax)
Email : bjyrwa@gmail.com; bmjyrwa@nehu.ac.in

The School of Physical Sciences consists of Departments of Chemistry, Mathematics, Physics and Statistics. All Departments are involved in Postgraduate teaching and research (M.Phil/Ph.D.) programmes. Every department has their thrust areas for carrying out research work. The faculty members of the School through their significant research contributions have earned recognition. In addition to individual

research projects the Departments of Chemistry, Mathematics, Physics and Statistics have got extra financial support from DST-FIST and UGC-SAP. Besides, there are quite a number of faculty members having individual Projects. Refresher Courses have also been conducted, and Seminars/Workshops have been organized by different Departments. Many faculty members have national and international collaboration besides individual projects.

DEPARTMENT OF CHEMISTRY

Head : Prof. R.A. Lal (upto 16.02. 2015)
 Prof. K.M. Rao (from 17.02. 2015)

Telephone : 0364-2722601(O); 94361 66937 (M)

E-mail : kmrao@nehu.ac.in

Faculty :

Designation	Name and Qualification	Specialization
Professor	K. Ismail, M.Sc./Ph.D. (AMU)	Physical Chemistry
	B. Myrboh, M.Sc./Ph.D. (NEHU)*	Organic Chemistry
	R. H. Duncan Lyngdoh, M.Sc. (NEHU); Ph.D. (IIT Madras)	Organic Chemistry
	R. A. Lal, M.Sc./Ph.D. (BHU)	Inorganic Chemistry
	K. Mohan Rao, M.Sc. (S. V. Univ.); Ph.D. (IIT Kanpur)	Inorganic Chemistry
	K. Chandra, M.Sc./Ph.D. (Burdwan Univ.)	Physical Chemistry
	G. Bez, M.Sc./Ph.D. (Gauhati Univ.)	Organic Chemistry
Associate Professor	H. Askari, M.Sc./Ph.D. (AMU)	Physical Chemistry
	T. S. Basu Baul, M.Sc. (Jabalpur); Ph.D. (N. Bengal)	Inorganic Chemistry
	M. K. Sahoo, M.Sc. (Utkal); Ph.D. (Comenius, Czechoslovakia)	Organic Chemistry
	S. Mitra, M.Sc. (Vidyasagar Univ); Ph.D. (IACS, Kolkata)	Physical Chemistry
	M. Velusamy, M.Sc/Ph.D. (Bharathidasan)	Inorganic Chemistry
Assistant Professor	R. L. Nongkhlaw, M.Sc./Ph.D. (NEHU)	Organic Chemistry

Assistant Professor	E. K. Rymmai, M.Sc./Ph.D (NEHU)	Inorganic Chemistry
	D. P. S. Negi, M.Sc. (Roorkee); Ph.D. (IIT Roorkee)	Physical Chemistry
	B. Sarkar, M.Sc. (N. Bengal); Ph.D. (IIT Guwahati)	Physical Chemistry
	A. K. Pal, M.Sc. (Calcutta); Ph.D. (Kalyani)	Organic Chemistry
	S. Khatua, M.Sc. (Vidyasagar Univ); Ph.D. (IIT Kharagpur)	Inorganic Chemistry

* On lien as Pro-Vice-Chancellor, Shillong Campus.

Thrust Areas of Research

Organometallic Chemistry, Coordination Chemistry, Computational Chemistry, Theoretical Reaction Kinetics, Synthetic Organic Chemistry, Heterocyclic Chemistry, Chemistry of Surfactants, Dynamics of Excited States, Photocatalysis, Natural Products Chemistry

Brief Statement of Academic Activities

The Department is a UGC Centre for Advanced Studies in Chemistry and also supported by the DST-FIST program. The Department offers the

M.Sc. and Ph.D. programmes. 36 M.Sc. and 15 Ph.D. students were admitted to the Department in the said period. Eight students were awarded the Ph.D. degree; All the Faculty members are engaged in active research. The Department organized an International Symposium attended by many reputed international and national scientists. One student qualified for the CSIR NET Lectureship and one cleared the Gate examination. There are many individual research schemes funded by DST, UGC, CSIR, DAE (BRNS), DBT and DIT.

Students' Profile

Enrolment Capacity: M.Sc : 36, Ph.D: Variable

Actual Admissions

Degree	SC	ST	Gen	Male	Female	Meghalaya	Non-Meghalaya	Total
M.Sc.	-	26	10	21	15	26	10	36
Ph.D.	02	05	08	09	06	10	05	15

School of Physical Sciences

Degrees Awarded

Degree	SC	ST	Gen	Male	Female	Meghalaya	Non-Meghalaya	Total
M.Sc.	02	15	10	14	13	22	05	27
Ph.D.	-	01	07	04	04	04	04	08

Details of Students awarded Ph.D. Degree

Name of the student	Title of Thesis	Name(s) of Supervisor(s)/ Jt. Supervisor
Mr. Anirudh Srivastava	"A study of the interactions of organic additives with surfactants"	Prof. K. Ismail
Mr. Sajal Kundu	"Synthesis, structure and reactivity of zinc, cadmium and mercury complexes of some azodyes and related systems"	Prof. R. A. Lal (Supervisor) Dr. T. S. Basu Baul (Jt. Supervisor)
Ms. Barisha Wahlang	"Studies on synthetic applications of electron deficient and heteroatom substituted olefins with special reference to olefin metathesis"	Prof. Ghanashyam Bez
Mr. Bhauk Sinha	"Studies on decolorization and mineralization of some azo dyes by advanced oxidation processes"	Dr. M. K. Sahoo
Ms. Smritakshi Phukan	"Fluorescence Studies on biologically relevant heterocyclic systems in homogeneous medium and supramolecular assemblies"	Dr. Sivaprasad Mitra
Ms. Rosmita Borthakur	"Synthesis, characterization and reactivity of selected transition metal complexes of some multidentate ligands"	Prof. R. A. Lal

Mr. Uttam Thapa	"A study of the effects of electrolytes and hydrotropes on the adsorption and aggregation of surfactants"	Prof. K. Ismail
Ms. Longjam Meerabai Devi	"Studies on the photophysical and photocatalytic behavior of colloidal ZnS nanoparticles"	Dr. D. P. S. Negi

Placement of Students

M.Sc. students passing out from this Department have been placed as Teachers in different colleges and schools, as Scientists in research organizations, and as Research Scholars in this Department and other Institutes. Some research scholars have joined different University/ institute for Research Associateship. Dr Jahar Dey joined as PDF in the Department of Nuclear and Quantum Engineering, Korea Advanced Institute of Science and Technology, Republic of Korea.

Courses Conducted

M.Sc. Courses

Semester – I

Inorganic Chemistry-I, Organic Chemistry-I, Physical Chemistry-I, Quantum Chemistry, Laboratory Course in Organic Chemistry.

Semester - II

Inorganic Chemistry-II, Organic Chemistry-II, Physical Chemistry-II, Molecular Spectroscopy, Laboratory Course in Inorganic Chemistry. Topics in Organic Synthesis, Computer Programming in Chemistry, Organometallic Chemistry, Bioorganic Chemistry, Chemistry of Surfactants.

Semester - III

Inorganic Chemistry-III, Organic Chemistry-III, Physical Chemistry-III, Applications of

Spectroscopic Methods, Laboratory Course in Physical Chemistry, Environmental and Analytical Chemistry, Photochemistry, Bioinorganic Chemistry, Natural Products Chemistry, Principles and Applications of Fluorescence Spectroscopy.

Semester – IV

Inorganic Chemistry-IV, Organic Chemistry-IV, Physical Chemistry-IV, Seminar, Project Work in Inorganic, Organic and Physical Chemistry.

Ph.D. Courses

Research Methodologies in Chemistry, Spectroscopic & Crystallographic Techniques in Chemistry, Advanced Inorganic Chemistry, Advanced Organic Chemistry, Advanced Physical Chemistry and Advanced Quantum Chemistry.

Seminar/Conference/Symposium/Extension Programme etc.

Organised

Organized a *North East Regional Seminar* entitled Trends in Colloid and Interface Science (NERSTCIS-014) was organized by the Department during November 27th -28th, 2014 with Prof. K. Ismail as Convener.

Organized an *International Symposium* entitled *Recent Advances in Chemistry* (REACH-2015) was organized by the Department during 3rd -5th March 2015, with Prof. G. Bez as Convener.

Attended and Participated

K. Ismail

Delivered an invited lecture entitled "Influence of additives on surfactant aggregation" in the *National Seminar on Recent Trends in Fundamental and Applied Chemical Sciences* held at Dibrugarh University, Dibrugarh during Nov. 19th -21st, 2014.

Delivered an invited lecture entitled "Tuning the Behaviour of Surfactants by Additives" in the *National conference on New Approaches of Basic Sciences towards the Development of Engineering and Technology-2015* held at Assam Don Bosco University, Guwahati during February 27th -28th, 2015.

R. H. Duncan Lyngdoh

Delivered the Keynote Address entitled "The Chemist and his Environment" at the *National Seminar on Newer Trends in Chemistry and Environment*, held at the Department of Chemistry, Don Bosco College, in December 10th -11th, 2014.

S. Mitra

Delivered an Invited lecture on "Fundamentals of Photochemistry" in 9th BRNS AEACI School on Analytical Chemistry (SAC-9) held at Atomic Minerals Directorate (AMD), Shillong, during October 27 – November 3, 2014.

D. P. S. Negi

Delivered the 2nd Prof. S. N. Paul Memorial Lecture titled "Nanochemistry" organized by the Department of Chemistry, St. Anthony's College, Shillong, on 8th November 2014

Delivered an Invited Lecture titled "Selective Sensing of 1,2,4 –trihydroxybenzene in the presence of its isomers using histidine-

stabilized ZnS nanospheres" during the *North East Regional Seminar on Trends in Colloid and Interface Science* organised by the Department of Chemistry, NEHU, Shillong, on 28th November 2014

Biplab Sarkar

Delivered a talk entitled "Hydrogen Bonding Interaction in Gas Phase Catechol and 3-Halo Catechols with Water" at the *National Seminar on Newer Trends in Chemistry and Environment* held in December 10 and 11, 2014, at Department of Chemistry, Don Bosco College-Tura.

Presented a Poster entitled "Generalized Born-Oppenheimer treatment based on Longuet-Higgins phase in three and four Fold Electronic Manifolds of Jahn-Teller systems" at the *International Symposium on Recent Advances in Chemistry (REACH-2015)* held in March 03rd -05th, 2015 at Department of Chemistry, NEHU, Shillong.

A. K. Pal

Delivered an invited lecture at the *National Seminar on Newer trends in Chemistry and the Environment at Department of Chemistry. Don Bosco College, Tura, in December 10th -11th, 2014.*

REACH-2015. An International Symposium on Recent Advances in Chemistry, at Department of Chemistry, NEHU, Shillong, during 3rd -5th March 2015

Publications

Research Papers

Published in India

Borthakur, R., Kumar, A., Lal, R. A. (2014). Synthesis And Characterisation Of Heterotrinnuclear Bis(Nitrato) Dicopper(II)

Mono zinc(II) Complexes derived from some succinoyldihydrazones, *J. Indian Chem. Soc.* 91(3): 407-423.

Prasad, K. T., Mohan Rao, K. (2014). Synthesis and Structural Study of Platinum Group Metal Complexes Containing Pyrimidine Bridged Pyrazolyl-Pyridine Ligand and $\zeta 5$ and $\zeta 6$ -cyclic hydrocarbons. *J. Chem. Sci.* 126:1143-1151.

Bihani, M., Bora, P. P., Askari, H., Bez, G. (2014). Cooperative Catalysis of Silica Gel with Physisorbed Water in the Synthesis of Bis(indolyl)alkanes; *Indian J. Chem. B* 53: 877-883

Published Abroad

Srivastava, A., Ismail, K. (2014). Binding of Phenol Red to Cetylpyridinium Chloride at Air-Solution and Micelle-Solution Interfaces in Aqueous Ethylene Glycol Media. *Colloids Surf. A* 462: 115-123.

Srivastava, A., Ismail, K. (2014). Characteristics of Mixed Systems of Phenol Red and Cetylpyridinium Chloride. *J. Mol. Liquids* 200: 176-182.

Koya, P. A., Wagay, T. A., Ismail, K. (2015). Conductometric Studies on Micellization of Cationic Surfactants in the Presence of Glycine. *J. Solution Chem.* 44:100-111.

Srivastava, A., Dey, J., Ismail, K. (2015). Interaction of Tetracaine Hydrochloride with Sodium Deoxycholate in Aqueous Micellar Phase and at the Surface. *Colloids Surf. A* 466: 181-188.

Dey, J., Biswas, K., Thapa, U., Joshi, S., Kharbangar, I. S., Sultana, N., Ismail, K. (2015). Facile Synthesis of Silver Nanoparticles and their Synergistic Antibacterial Activity in

Combination with Commercial Antibiotics. *Bull. Chem. Soc. Jpn.* 88: 352-357.

Koya, P. A., Wagay, T. A., Ismail, K. (2015). Micellization and Surface Properties of Alkanediyl-1,4-bis (tetradecyldimethylammonium bromide) Gemini Surfactants with Dodecyl Ethyl Dimethyl Ammonium Bromide. *J. Dispers. Sci. Technol.* 36: 1147-1155.

J. Dey, N., Sultana, N., Ismail, K. (2015). Counter Ion Binding of Sodium Dodecylsulphate in Water- Ethylene Glycol Mixtures and the Corrin-Harkins Equation. *J. Mol. Liquids* 207: 107-111.

Tumtin, S., Kathing, C., Phucho, I. T., Nongrum, R., Myrboh, B., Nongkhaw, R. (2014).

Triethylbenzylammonium Chloride as a useful and Efficient Catalyst for the Alkylation of Indole/Substituted Indoles in Water: A Comparative Study Between Conventional and Microwave Irradiation. *J. Chinese Chem. Soc.*, DOI: 10.1002/jccs. 00221.

Das, G., Lyngdoh, R. H. D. (2014). Configuration of Wobble Base Pairs having Pyrimidines as Anticodon Wobble bases: Significance for Codon Degeneracy. *J. Biomol. Struct. Dynam.* 32: 1500-1520.

Khamaier, K.S., Lyngdoh, R. H. D. (2014). Exploration of Minima on the $C_7H_7^+$ surface:

Structural, Stability- and Charge-Related Considerations. *J. Chem. Sci.* 126, 1181-1195.

Mandal, S., Lyngdoh, R. H. D., Askari, H., Das, G. (2015). Metalation of Glycylglycine: An

Experimental Study Performed in Tandem with Theoretical Calculations. *J. Chem. Engg. Data* 60:659-673.

- Koch, A., Kumar, A., De, A. K., Phukan, A., Lal, R. A. (2014). Synthesis, Characterization And Reactivity of Trinuclear Cu(II) complexes derived from Disalicylaldehyde Malonoyl Dihydrazone. *Spectrochim. Acta A: Mol. Biomol. Spectroscopy* 129: 103-113.
- Borthakur, R., Kumar, A., Shangpung, S., Lal, R. A. (2014). Synthesis and characterization of Perchlorato Bridged $\text{Cu}_2\text{IIZn}_2\text{II}$ Heterotrinuclear Complexes Derived from Succinoyl Dihydrazone. *Spectrochim. Acta A: Mol. Biomol. Spectroscopy* 138: 481-488.
- Koch, A., Kumar, A., Singh, S., Borthakur, R., Basumatary, D., Lal, R. A., Shangpung, S. (2015). Synthesis, Crystal Structure and Spectroscopic and Electrochemical Properties of Bridged Trisbenzoato Copper–Zinc Heterobinuclear Complex of 2, 22 -Bipyridine. *J. Mol. Struct.* 1083: 381-388.
- Koch, A., Kumar, A., Barthakur, R., Ozukum, O. S., Lal, R. A. (2015). Synthesis and characterization of a Copper–Zinc Heterobinuclear complex of 2,22 -Bipyridine. *J. Coord. Chem.* 68: 229-240.
- Borthakur, R., Thapa, U., Asthana, M., Mitra, S., Ismail, K., Lal, R. A. (2015). A new Dihydrazone based “Turn on” Fluorescent Sensor for Zn (II) Ion in Aqueous Medium. *J. Photochem. Photobiol. A: Chemistry* 301: 6–13.
- Palepu, N. R., Nongbri, S.L., Premkumar, J. R., Verma, A. K., Bhattacharjee, K., Joshi, S.R., Forbes, S., Mozharivskyj, Y., Thounaojam, R., Aguan, K., Mohan Rao, K. (2015). Synthesis and Evaluation of New Salicylaldehyde-2-Picolinylhydrazone Schiff base Compounds of Ru(II), Rh(III) and Ir(III) as in Vitro Antitumor, Antibacterial and Fluorescence Imaging Agents. *J. Biol. Inorg. Chem.* 20: 619-638.
- Mahesh, K., Forbes, S. H., Mozharivskyj, Y., Mohan Rao, K. (2015). Synthesis, Spectral and Molecular Study of Half-Sandwich η^6 -arene ruthenium, Cp*rhodium and Cp*iridium metal complexes with bidentate ligands. *Z. Anorg. Allg. Chem.* 641: 715–723.
- Mahesh, K., Forbes, S. H., Mozharivskyj, Y., Ahmadi, M., Ahmadihosseini, Z., Phillips, R. M., Mohan, Rao, K. (2014). Mononuclear Half-Sandwich Cyclic-p-Perimeter Platinum Group Metal Complexes having Bithiazole Ligands: Synthesis, Molecular and Anti-Cancer Studies. *Inorg. Chim. Acta* 421: 349-358.
- Mahesh, K., Forbes, S.H., Mozharivskyj, Y., Mohan Rao, Y. (2014). Half-Sandwich η^6 -arene Ruthenium and Cp* rhodium/ iridium compounds comprising with thioether ligands: Synthesis, Spectral and Molecular Studies. *Inorg. Chim. Acta* 421: 218-227
- Sutradhar, D., Chandra, A. K., Zeegers-Huyskens, T. (2014). A Theoretical Investigation of the Interaction between Fluorinated Dimethyl ethers and Molecular Chlorine. *Mol. Phys.* 112: 2791-2801.
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Funds Received from Agencies including NEHU/UGC

- (i) DST PURSE : 7.00 Lakh
- (ii) National Conference : 3.00 Lakh
- (iii) International Conference : 6.50 Lakh

Research Projects***New Research Projects***

Sl. No.	Title of Project	PI/Co-PI	Funding agency	Amount (for entire project)
1	Phosphorescent Iridium Dendrimers Based on Imidazole Containing Conjugated Dendrons	Dr. M. Velusamy PI	UGC, New Delhi	14,48,600/-

Ongoing

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1.	Synthetic Studies of Selenium dioxide (SeO ₂), Selenous acid (H ₂ SeO ₃) and Selenic Acid (H ₂ SeO ₄) in Organic Reactions: Synthesis of important Organo-Selenium Intermediates and attempt at Asymmetric Synthesis of α -substituted Propiophenones and related Reactions.	Prof. B. Myrboh	SERB, DST, New Delhi.	Rs. 49,06,000
2	Study of redox potential of novel 1,2,4-trioxane nanoparticles and assessment of their compatibility to radiotherapy	Prof. G. Bez	DAE-BRNS, Mumbai	Rs. 27,44,276
3	Mineralization and biotoxicity assessment studies of selected surfactant formulations by some advanced oxidation processes	Dr. M. K. Sahoo.	DAE-BRNS, Mumbai	Rs. 31,18,750

School of Physical Sciences

4	Development of "lab-on-a-molecule" chemosensor for cation and anion sensing	Dr. S. Khatua,	SERB-DST, New Delhi.	Rs.27,60,000 lakhs.
5	Synthetic and structural studies projected towards self-assemblies of extended Schiff base and reduced Schiff base amino acetate skeletons incorporating organotin(IV) moieties and evaluation of their cytotoxic potential	Dr. T. S. Basu Baul	CSIR, New Delhi.	20,90,000/=
6	Synthesis and Characterization of Organotitanium(IV) carboxylates and Evaluation of their Antitumour Properties"	Dr. T. S. Basu Baul	UGC, New Delhi	15,30,300/=
7	Rational design, synthetic strategies for developing organometallic anticancer compounds based on organotin and organoiron	Dr. T. S. Basu Baul.	DBT, New Delhi.	52,00,000/=
8	Development of AChE-inhibitor for Alzheimer's disease: screening, designing, synthesis and biological validation using chemical library & traditional North-east Indian plants	Dr. S. Mitra (Co-PI)	DBT, New Delhi.	100.00 Lakh
9	Traceless synthesis of coumarin, pyrrole and polyhydroquinoline annulated benzodiazepine, benzazepine and 5, 11-dihydro-benzo-[e]pyrido[3,2-b][1,4] diazepine-6-one derivatives	Dr. A. K. Pal.	SERB-DST, New Delhi	26,00,000/=

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10	Studies on the Synthetic Utility of Selenium Compounds: Development of New Methodologies for C-C, C-X and C-Se Coupling in Organic Synthesis and Preparation of Novel Organo-selenium Intermediates	Prof. B. Myrboh	CSIR, New Delhi.	11,25,000/=
11	UV light and transition metal-catalyzed degradation and mineralization studies of some azo dyes by hydrogen peroxide	Dr. M. K. Sahoo	UGC, New Delhi	5,00,000/=

Completed during the year

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1.	Studies on the synthetic utility of selenium dioxide: development of new methodologies for carbon-carbon coupling in organic synthesis and related work	Prof. B. Myrboh	UGC, New Delhi	11,16,800/=
2	New synthetic aspects and catalytic study of late transition metal complexes bearing homo and hetero scorpionates and n-heterocyclic carbenes as ligands	Prof. K. M. Rao.	UGC, New Delhi.	6,60,300/=

School of Physical Sciences

3	Synthesis, reactivity and structural studies of platinum group metal complexes containing n^5 and n^6 -cyclichydro-carbons and multidentate nitrogen bases	Prof. K. M. Rao.	CSIR New Delhi	7,50,000/=
4	Theoretical studies on the kinetics, thermochemistry and reactivity of some selected radical reactions of atmospheric importance	Prof. A. K. Chandra	CSIR, New Delhi.	2,50,000/=
6	Spectrophotometric investigation on model nitrogen containing hetrocyclic drugs and their interaction with DNA nucleotides	Dr. S. Mitra.	Sponsored by CSIR, New Delhi	13,50,000/=
7	Identification, molecular characterization and structure determination of glutaredoxin system protein from infectious flukes	Dr. A. K. Pal (Co-PI)	DBT, New Delhi.	72,45,000/-=

Academic Collaborations

Prof. K. Ismail has academic collaborations with (i) Dr. V. K. Aswal, Solid State Physics Division, Bhabha Atomic Research Center, Mumbai (ii) Dr. P. A. Hassan, Chemistry Division, Bhabha Atomic Research Center, Mumbai (iii) Dr. S. Mahiuddin, Materials Science Division, CSIR-North East Institute of Science and Technology, Jorhat (iv) Dr. R. Biswas, Chemical, Biological and Macromolecular Sciences, S. N. Bose National Centre for Basic Sciences, Salt Lake, Kolkata.

Prof. R. A. Lal has academic collaborations with Dr. Arvind Kumar, Department of Chemistry, Faculty of Science and Agriculture, the University of West Indies, St. Augustine, Trinidad and Tobago.

Prof. K. M. Rao has academic collaborations with (i) Prof. Yuriy Mozharivskyj, Department of Chemistry and Chemical Biology, McMaster University, Canada (ii) Prof. Roger M Phillips, Department of Cancer Pharmacology, Institute of Cancer Therapeutics, University of Bradford, Bradford, UK (iii) Prof. Dr. Habil Werner Kaminsky, Department of Chemistry,

University of Washington, Seattle, WA 98195, USA.

Prof. A. K. Chandra has academic collaboration with Quantum Chemistry Group, University of Leuven, Belgium.

Dr. T. S. Basu Baul has academic collaborations with Prof. A. Linden, University of Zurich, Switzerland; Prof. H. K. Fun, University of Malaya, Malaysia; Prof. G. Eng, University of the District of Columbia, USA; Prof. E. R. T. Tiekink, Universiti Sains Malaysia, Malaysia, Prof. U. Englert, Institut für Anorganische Chemie, RWTH Aachen University, Germany, Prof. M. Fátima C. Guedes da Silva, University of Lisbon, Portugal, Prof. A. Duthie, School of Life & Environmental Science, Deakin University, Australia, Prof. P. Singh, *Guru Nanak Dev University, Amritsar*, Dr. S. K. Manna, Centre for DNA Fingerprinting and Diagnostics, Hyderabad.

Dr. M. K. Sahoo has academic collaborations with Prof. R.N. Sharan, Dept. of Biochemistry, NEHU, Shillong; Dr. D. B. Naik, Radiation and Photochemistry Division, BARC, Trombay, Mumbai; Dr. C. Srinivas, Process Development Division, BARC, Trombay, Mumbai.

Dr. S. Mitra has academic collaborations with Prof. K. Aguan, Department of Biotechnology & Bioinformatics, NEHU, Shillong; Prof. D. Kumar, BITS, Pilani; Dr. A. Bhasikuttan, BARC, Mumbai.

Dr. A. K. Pal has academic collaborations with Dr. T. Tripathi, Department of Bio-Chemistry; Dr. A. Bhattacharya, Department of Biotechnology & Bioinformatics; Dr. S. Mitra, Department of Chemistry; Prof K. Ismail, Department of Chemistry; Prof K. Aguan, Department of Biotechnology & Bioinformatics, NEHU, Shillong.

Honours/Awards/Recognitions

Nazima Sultana

Awarded *Best Prize Certificate* for the poster entitled "Solvent Dependence and Role of Mixed Counterions on the Counterion Binding Behaviour of Cetylpyridinium Chloride" presented in the 9th *National Conference on Thermodynamics of Chemical, Biological, Environmental and Non-Conventional Energy Systems* held October 17-18, 2014 at Sardar Patel University, Vallabh Vidyanagar, Gujarat.

Any Other

Nazima Sultana

Selected for the Royal Society of Chemistry Fellowship to participate in the 9th CRSI-RSC Joint Symposium and the 17th CRSI National Symposium in Chemistry held at the *National Chemical Laboratory*, Pune, during February 5th -8th, 2015 and presented a poster entitled "Characterization of interaction between aliphatic carboxylate anion and CPC micelle".

DEPARTMENT OF MATHEMATICS

Head : Prof. M. Ansari

Telephone : 0364-2722713 (O); 9436163816 (M)

E-mail : mansarinehu@gmail.com

Faculty :

Designation	Name and Qualification	Specialization
Professor	M. Ansari, Ph.D., Gorakhpur University	Theory of Relativity & Cosmology
	H. K. Mukerjee, D.Phil., Allahabad University	Algebraic & differential Topology
	K.K. Singh, Ph.D., Gorakhpur University	Fluid Mechanics
	A.K. Das, Ph.D. , N.E.H.U.	Group Theory
Associate Professor	P.K. Saikia, Ph.D., Wisconsin University	Number Theory
Assistant Professor	A.M. Buhphang, Ph.D., N.E.H.U.	Ring Theory
	A.T. Singh, Ph.D., N.E.H.U.	Algebraic & Differential Topology
	Sanghita. Dutta, Ph.D., N.E.H.U.	Topology
	John Paul Jala Kharbih, M.Sc., N.E.H.U.	Function rings
	Phanjoubam Chinglensana M.Sc., Delhi University.	Algebraic Topology

Thrust Areas of Research

Thrust areas of research in the department in alphabetical order are: Algebra, Algebraic and Differential Topology, Theory of Relativity, Cosmology, Number Theory.

Brief Statement of Academic Activities

The department continues to provide quality and rigorous M.Sc./ M.Phil. and Pre Ph.D. courses of different subjects of Mathematics like Algebra, Analysis, Complex Function

Theory, Differential Equations, Linear Algebra, Mechanics, Number Theory, Numerical Analysis and Computer Programming, Oceanography, Relativity and Cosmology, Topology, Algebraic Topology, Differential Topology, Commutative Algebra, Character theory, p -adic analysis.

The department conducted regular seminar and colloquia on the topics in the thrust areas

of research. The students continue to perform well in obtaining UGC/CSIR NET Junior Research Fellowship and NET Lecturer ship. The department continues to follow the culture of all the good universities of the world in pursuing fundamental research of original nature and refraining from repetitive and marginal research. It continues to emphasize on the quality of research output rather than quantity.

Students' Profile

Enrolment Capacity: M.Sc. – 36; Ph.D. – Variable

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
M.Sc.	-	30	6	23	13	25	11	36
M.Phil.	-	1	-	1	-	1	0	1
Ph. D.	-	1	4	4	1	1	4	5

Degrees Awarded

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
M.Sc.	-	13	12	11	14	13	12	25
M.Phil.	-	-	1	1	-	-	1	1
Ph. D.	1	-	3	3	1	-	-	4

Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Mr. Sekhar Jyoti Baishya	"Ore's Harmonic Numbers and Their Group Theoretic Analogues"	Prof. A.K. Das

School of Physical Sciences

Mr. Md. Azizur Rahman	“Accelerating Expansion of the Universe in Presence of Dark Energy”	Prof. M. Ansari
Mr. Ali Asgar	“Bianchi Type cosmological Models in Lyra Geometry”	Prof. M. Ansari
Ms. Sarujanee Gogoi	“Shock Waves in a Mixture of a Non-ideal Gas and Small Solid particles”	Prof. K.K. Singh

Placement of Students

Some of our students were appointed as Lecturers in the affiliated colleges of NEHU.

Courses Conducted

Postgraduate

Semester- I

Analysis I A.M.E.S., Linear Algebra, ODE, Classical Mechanics.

Semester-II

Elementary Graph Theory, Algebra, Topology, PDE, Analysis II.

Semester-III

CFT, Tensor Analysis & Riemannian Geometry, Theory of Field Extensions, ENT, Programming in C and Applications, Computer programming practical.

Semester-IV

Computer Practical, Numerical Analysis, Algebraic Topology, Ring Theory, Theory of Relativity.

M.Phil./Ph.D. Courses

Compulsory Course

MTHMPC-1: Research Methodology in Mathematics

Optional Courses

MTHMPO-1 : Galois Theory

MTHMPO-2 : Rings of Continuous Functions

MTHMPO-3 : Algebraic Geometry

MTHMPO-4 : Commutative Algebra

MTHMPO-5 : Advanced Ring Theory

MTHMPO-6 : Magneto Fluid Dynamics

MTHMPO-7 : Fluid Mechanics

MTHMPO-8 : Advanced Algebraic Topology

MTHMPO-9 : Differential Topology

MTHMPO-10 : Cosmology

MTHMPO-11 : Tensor Analysis and Theory of Relativity

MTHMPO-12 : Analytic Number Theory

MTHMPO-13 : Algebraic Number Theory

MTHMPO-14 : Topics in Algebraic Topology

MTHMPO-15 : Topics in Differential Manifolds

MTHMPO-16 : Topics in Riemannian Geometry

MTHMPO-17 : Homological Algebra

MTHMPO-18 : Advanced Group Theory

MTHMPO-19 : Theory of Characters

MTHMPO-20 : Topological Graph Theory

MTHMPO-21 : Application of Linear Algebra

MTHMPO-22 : Advanced Topics in Discrete Mathematics

MTHMPO-23 : Computational Homology

MTHMPO-24 : Relativistic Mechanics

Educational Tour of Students

Teachers-in-charge : Dr. A. M. Buhphang and Mr. Phanjoubam Chinglensana

Places/Institutions visited : Chennai and Pondicherry

Duration of tour : 13th - 25th January, 2015.

Purpose of tour : Educational and cultural exposure to the southern part of India and to expose our students to the social life and academic atmospheres of the people in those places.

Seminars/Conferences/Symposia/Extension Programmes etc.

Organized

UGC-SAP Workshop, December 12th -15th , 2015

National Conference on "Contemporary Topics in Mathematics", Dec. 16th -17th , 2014.

Attended

J. P. J. Kharbhih

Attended and presented a paper "Ring of Clopen maps" in the UGC-SAP NEHU Workshop and National Conference on Contemporary Topics in Mathematics, 16th -17th December, 2014.

Phanjoubam Chinglensana

Attended *International CIMPA Research School & Conference on "Aspects of Dynamical Systems"*, 3rd-16th November, 2014 in Tribhuvan University, Kathmandu, Nepal;

Attended *Workshop and National Conference on "Contemporary Topics in Mathematics"*, 16th -17th November, 2015, NEHU, Shillong.

A. T. Singh

Attended and delivered an invited lecture in the NBHM sponsored Mathematical Olympiad Orientation Programme held during December 8th -11th, 2014 of NEHU.

Attended and presented a paper titled "Some Applications of Lie Derivative" in the UGC SAP Workshop & National Conference held during December 16th -17th , 2014 at NEHU.

Attended and presented a paper titled "The Rational Homology Type of the Complement of the Graph of a Map" in the Indian Science Congress during 21st -23rd January, 2015 at Manipal University.

Attended and presented a paper titled "Some applications of Thom class" in the *International Conference on Frontiers in Mathematics* (ICFM-2015) held during March 26th -28th, 2015, at Gauhati University.

A.M. Buhphang

Attended and presented a paper titled "On Abelian Modules" at the UGC-SAP Workshop and National Conference on Contemporary Topics in Mathematics held at NEHU during 16th -17th November, 2014.

Delivered an invited lecture in the NBHM sponsored Mathematical Olympiad Orientation

Programme held during 8th -11th December 2014 at NEHU Shillong.

Attended & presented a paper titled “IFP modules which are PS-Aemendaric” in the *International Conference on Frontiers in Mathematics* held in March 26th -28th, 2015 at Gauhati University.

Delivered an invited lecture on “Some Innovative Thoughts in Mathematics” at the State Level Science Seminar organized by the Directorate of School Education, Meghalaya, on 31st March, 2015.

S. Dutta

Attended and presented a paper titled “A Note on Prumial Ideals and Decomposition in $C(X)$ ” in the *International Conference on Frontiers in Mathematics* held on 26th -28th March, 2014 at Department of Mathematics, Gauhati University.

Attended and presented a paper titled “On Bc-continuity and slightly Bc-continuity” in the UGC SAP *Workshop on Contemporary Topics in Mathematics* held in Dept. of Mathematics, NEHU, Shillong on 16th -17th December, 2014.

Attended and presented a paper titled “On $\mathfrak{S}$ -sets in GTS” in 8th *International Conference in IMBIC on Mathematical Sciences for Advancement of Science and Technology* (MSAST 2014) held at IMBIC, Kolkata, in December 21st -23rd, 2014.

H.K. Mukerjee

Attended the UGC-SAP Workshop, December 12-15, 2015.

The *National Conference on Contemporary Topics in Mathematics*, Dec. 16-17, 2014.

Publications

Research Papers

Published Abroad

Kharbhih, J. P. J., Dutta, S. (2014). Ring of Clopen Functions, *Int. J. Pure Applied Math. Sci.* 7: 369-377.

Asgar, A.; Ansari, M. (2014). Accelerating Bianchi type – VI_0 Bulk Viscous Cosmological Models in Lyra Geometry, *J. Theor. Appl. Phys.* 8: 219-224.

Borah, B.; Ansari, M. (2015). Holographic Dark Energy in Higher Derivative Gravity with Time Varying Model Parameter $c^{\wedge}\{2\}$, *Indian J. Phys.* 89 (1), 101-105.

Borah, B., Ansari, M. (2015). Holographic Dark Energy Model with Time Varying G as Well as c^2 Parameter, *International Journal of Theoretical Physics* 53 (4), 1217-1224.

Singh, A.T., Mukerjee, H. K. (2014). The Rational Homotopy Type of the Complement of the Graph of a Map. *J. Homotopy Related Struct.* DOI 10.1007/s40062-014-0099-y.

Singh, K.K. (2014). A Self-Similar Flow Behind a Magnetogas Dynamic Shock Wave in a Self-Gravitating Gas with Heat Conduction and Radiation Heat Flux. *International Journal of Applied Mathematics and Mechanics.* 10: 95-118.

Singh, K. K., Nath, B. (2014). Similarity Solutions for the Flow Behind Exponential Shock in a Rotating Non-Ideal Gas with Heat Conduction and Radiation Heat Flux. *Journal of Engineering Physics and Thermophysics* 87: 973-983.

Rahman, A., Ansari, M. (2014). Interacting Holographic Polytropic Gas Model of Dark

Energy with Hybrid Expansion Law in Bianchi Type- VI_0 Space-time, *Astrophys Space Science*, 354, 617-625.

Rahman, A., M. Ansari, M. (2014). Interacting Generalized Ghost Polytropic Gas Model of Dark Energy with a Specific Hubble Parameter in LRS Bianchi Type-II universe, *Astrophys Space Science*, 354, 675-682.

Borah, B., Ansari M. (2014). Generalized Ghost Dark Energy In Horava–Lifshitz Cosmology, *Journal of Theoretical and Applied Physics*, 9 (1), 7-14.

Borah B., Ansari M. (2014). Power-law Entropy-Corrected New Holographic Dark Energy in Horava–Lifshitz cosmology, *Astrophysics and Space Science*, 354 (2), 637-644(2014).

Borah B., Ansari M. (2014). Power-law Entropy-Corrected New Holographic Dark Energy in Brans–Dicke Cosmology, *Canadian Journal of Physics*, 93 (4), 475-480.

Asgar A., Ansari, M. (2014). Bianchi Type - V Universe with Anisotropic Dark Energy in Lyra's Geometry, *The African Review of Physics*, 9: 0019, 145-151.

Books/Book Chapters/ Proceedings

Saikia, P. K. (2014). *Linear Algebra 2nd Edition*; Pearson, Delhi.

Academic Collaborations

CIMPA

Other Activities

Prof. H. K. Mukerjee visited Tata Institute of fundamental Research, Mumbai during Jan. 21-31, 2015.

Prof. H. K. Mukerjee gave a talk on “A commentary on the Arnold’s conjecture” in the Department of Mathematics, IIT Bombay, Mumbai on Feb. 04, 2015.

Visiting Professors invited during December, 2014, under UGC-SAP programme, who gave series of talks in Algebra, Relativity, Topology: Prof. Indranath Sengupta (IIT Gandhinagar), Prof. Subenoy Chakravarty (Jadavpur University, Kolkata), Prof. Dinesh Khurana (Punjab University, Chandigarh), and Prof. Sudip Acharya (Calcutta University, Kolkata).

DEPARTMENT OF PHYSICS

Head : Prof. Y.N. Tiwari

Telephone : 0364-2722815/ 0364-2722801(O)

E-mail : yntiwari@gmail.com

Faculty :

Designation	Name and Qualification	Specialization
Professor	P. Shukla, M.Sc. (IIT, Delhi), Ph.D.(Temple)	Condensed Matter Physics
	B.M. Jyrwa, M.Sc. (NEHU), Ph.D.(NEHU)	Nuclear Physics
	P. Nongkynrih, M.Sc. (NEHU), Ph.D.(NEHU)	Nuclear Physics (Experimental)
	Y.N. Tiwari, M.Sc.(Patna), Ph.D.(Patna), LL.B. (Patna)	Atomic & Molecular Physics (Theoretical)
	S. Saxena, M.Sc. (Rohilkhand), M.Phil. (Meerut), Ph.D. (NEHU)	Nuclear Physics (Experimental)
	M.C. Mahato, M.Sc. (Ranchi), Ph.D. (IISc. Bangalore)	Solid State Physics (Theoretical)
Associate Professor	S. S. Khatri, M.Sc.(NEHU), Ph.D.(NEHU)	Laser Physics (Experimental)
	A. K. Biswas, M.Sc. (IIT, Kharagpur), Ph.D. (IP, Bhubaneshwar)	High Energy Physics (Theoretical)
Assistant Professor	S. S. Pohlong, M.Sc. (NEHU), Ph.D.(NEHU)	Solid State Physics (Theoretical)

Thrust Areas of Research

Solid State Physics (Theoretical), High Energy Physics (Theoretical), Laser Physics (Experimental) and Nuclear Physics (Experimental and Theoretical), Atomic and Molecular Physics (Theoretical).

Brief Statement of Academic Activities

The main academic activity of the Department has been the teaching M.Sc. (Physics) courses to a class of 33 (thirty-three) students each in

M.Sc. (Physics) First and Second years. During the academic session 2012-13 the Department has started 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 as well as carrying out their own research works. The faculty members visited various reputed national and international institutions to carry out their research collaborations and give talks on their research contributions.

Students' Profile

Enrolment Capacity: M.Sc. – 33; Ph.D. - Variable

Degree	SC	ST	Gen	Male	Female	Meghalaya	Non-Meghalaya	Total
M.Sc.	-	21	12	24	09	01	32	33
Ph.D.	-	06	-	05	01	06	-	06

Degrees Awarded

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non Meghalaya	Total
M.Sc.	-	21	03	17	07	24	-	24
Ph.D.	-	03	01	04	-	04	-	04

Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Mr. Damewan Suchiang	"Study of Medium Energy Charged Particle Scattering of Long Lived Actinides and Structural Materials in Nuclear Reactors"	Prof. B.M. Jyrwa
Ms. Deveshwori Maibam	"Studies on Radon Activity in Soil-Air, Indoors and in Water at Selected Locations in Meghalaya"	Prof. Atul Saxena

Placement of Students

5 research scholars qualified the National Eligibility Test.

Courses Conducted

Post-graduate

Semester – I

Classical Mechanics, Quantum Mechanics I, Mathematical Physics, Laboratory – I.

Semester - II

Electrodynamics, Electronics, Quantum Mechanics II, Laboratory II.

Semester – III

Nuclear Physics I, Solid State Physics I, Atomic and Molecular Physics, Laboratory III, Environment

Semester – IV

Thermal Physics, Computational Techniques and Numerical Methods, Computational Techniques-Laboratory, Optional Papers on Solid State Physics II, High Energy Physics, Laser Physics, Nuclear Physics II.

Ph.D. Courses

Research Methodologies in Physics, Advanced Statistical Mechanics and Advanced Nuclear Physics, High Energy Physics and Laser Physics.

Educational Tour of Students

Teacher-in-Charge : Prof. A. Saxena

Places/Institutions visited : Delhi and Agra

Duration of Tour : 13th January – 25th January, 2015

Purpose of Tour : To visit different Scientific Institutes.

Seminars/Conferences/Symposia/Extension Programmes, etc.

Attended

B. M. Jyrwa

Attended the Winter School on Accelerator, Nuclear and Particle Physics held at Banaras Hindu University during March 29th to April 04th, 2014.

Attended the 5th AASPP *Workshop on Nuclear Reaction Database Development* hosted by Nuclear Data Physics Centre of India, Department of Atomic Energy at BARC, Mumbai during September, 22nd -24th, 2014.

Attended the 6th DAE-BRNS *Workshop-cum-Theme Meeting on EXFOR Compilation of Nuclear Data (EXFOR 2015)*, January 20th -24th, 2015, Bangalore University, Bangalore, India.

Y.N. Tiwari

Attended Bihar Science Congress held during 24th – 26th December, 2014 in Magadh Mahila College under Patna University.

A. Saxena

Attended a *National Conference on New Approaches of Basic Sciences towards the Development of Engineering and Technology*, 2015, Don Bosco University, Gauhati.

Publications

Research Papers

Published in India

Jyrwa, B. (2014). Calculation of Excitation Functions of the 54, 56, 57, 58Fe (p,n) Reaction from Threshold to 30 MeV. *Pramana* 83: 545-555.

Khatri, S. S. (2014). Isotopes Separation by Laser Technique: A review. *Asian Resonance* 3: 1-3.

Published Abroad

Kurbah, L., Thongjaomayum, D., Shukla, P. (2015). Nonequilibrium Random-Field Ising Model on a Diluted Triangular Lattice. *Physical Review E* 91, 012131.

Books/ Book Chapters/ Proceedings :

Walia D., Maibam D., Sharma Y., Saxena A. (2014). Radon Activity Concentration in Schools of Shillong City in Meghalaya. In: *Challenging Areas in Earth Sciences Research Towards Empowering the Society*. Ajai and Walia D., Ministry of Earth Sciences, Government of India, New Delhi, Chapter No. 2, 20-28.

Ghosh, R., Badwar, S., Jyrwa, B., Naik, H. (2015). Calculations of Excitation Function of $^{100}\text{Mo}(p,n)^{99m}\text{Tc}$ from Threshold to 60 MeV. *Proceedings of DAE Symposium on Nuclear Physics* 59 2014 during December 08-12, 2014 at Banaras Hindu University, Varanasi.

Dewsaw, A.K., Maibam, D., Sharma, Y., Saxena S. (2014). Measurement of Radon Concentration in some Dwellings of Nongstoin West Khasi Hills District, Meghalaya. *CPP-IPR Workshop on Linear Tokamak Divertor Simulators for PSI Studies*. Institute for Plasma Research, Sonapur, Assam, 37-38

Syiemiong A., Swer S., Jha A. K., Saxena, A. (2014). MRD CI Study of Potential Energy Surface and Transition Moment for CO^+ ion, *CPP-IPR Workshop on Linear Tokamak Divertor Simulators for PSI Studies*. Institute for Plasma Research, Sonapur Assam, 39.

Swer, S., Syiemiong, A., Jha, A. K., Saxena, A. (2014). Computational Study of Several Low Lying States of the CO Molecule, *CPP-IPR Workshop on Linear Tokamak Divertor Simulators for PSI Studies*. Institute for Plasma Research, Sonapur Assam, 39.

Sharma, Y., Maibam, D., Ram, P. P., Saxena, A., Walia, D. (2015). A Study on the Indoor Radon Concentration in Hospitals in the Shillong Region, Meghalaya. *National Conference on New Approaches of Basic Sciences towards the Development of Engineering and Technology*, 2015. School of Technology, Assam, Don Bosco University: 70.

Maibam, D., Sharma, Y., Dewsaw, A.K., Kenye, A., Walia, D., Saxena, A. (2015). Assessment of Soil-Radium Content, Indoor Radon Activity and the Associated Radiation Risks in Kohima town, Nagaland. *National Conference on New Approaches of Basic Sciences towards the Development of Engineering and Technology* 2015. School of Technology, Assam Don Bosco University: 74.

Dewsaw, A.K., Maibam, D., Sharma, Y., Saxena, A. (2015). Indoor Radon Activity Concentration in Nongstoin town, West Khasi Hills District, Meghalaya. *National Conference on New Approaches of Basic Sciences towards the Development of Engineering and Technology* 2015. School of Technology, Assam Don Bosco University: 73.

Maibam, D., Sharma, Y., Dewsaw, A.K., Lalventluanga, Walia, D., Saxena, A. (2015). Measurements of Radon Activity Concentrations in the Environs of Aizawl city, Mzoram. *National Conference on New Approaches of Basic Sciences towards the Development of Engineering and Technology* 2015. School of Technology Assam, Don Bosco University: 69.

Dewsaw, A.K., Maibam, D., Sharma, Y., Saxena, A., L. Nongneng, E., Ram, P.P., Walia, D. (2015). Radon Measurements in the Soils of Nongstoin and Mairang Regions of West Khasi Hills District, Meghalaya. *National Conference on New Approaches of*

Basic Sciences towards the Development of Engineering and Technology 2015. School of Technology, Assam Don Bosco University : 71.

Syiemiong, A., Swer, S., Jha, A, K., Saxena, A. (2015). A Theoretical Study of Potential Energy Curves and Transition Dipole Moment of the CO⁺ ion, *National Conference on New Approaches of Basic Sciences towards the Development of Engineering and Technology 2015. School of Technology, Assam Don Bosco University: 41.*

Syiemiong, A., Swer, S., Jha, A.K., Saxena, A. (2015). Theoretical Modeling of Nuclear Resonance Vibration Spectra of Fe(SH)₄⁻¹ Complex Molecules. *National Conference on New Approaches of Basic Sciences towards the Development of Engineering and Technology 2015. School of Technology Assam, Don Bosco University: 42.*

Swer, S., Syiemiong, A., Jha, A.K., Saxena, A. (2015). A Computational Study of Stability and Transition Dipole Moment of Several Low Lying Electronic States of the CO Molecule.

National Conference on New Approaches of Basic Sciences towards the Development of Engineering and Technology 2015. School of Technology Assam Don Bosco University: 39.

Swer, S., Syiemiong, A., Jha, A.K., Saxena, A. (2015). A Time-Dependent Study of Electronic Spectroscopy of 1,3,5 Trans-Hexatriene Molecule. *National Conference on New Approaches of Basic Sciences towards the Development of Engineering and Technology 2015. School of Technology Assam, Don Bosco University: 40.*

Khatri, S.S., Chase, V., Adhikari, S. (2014). Vibration Energy Relaxation in Polyatomic Molecules. *National Seminar on "Recent Trends in Science and Technology"* organized by Science Departments, Union Christian College, Shillong.

Khatri, S.S. (2014). Application of Raman Spectroscopy. *National Seminar on "Recent Trends in Science and Technology"* organized by Science Departments, Union Christian College, Shillong.

Research Projects

Ongoing

Sl.No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1.	"Continuing EXFOR compilations and participation in the measurement of high energy photon and neutron induced reaction cross-sections of structural materials (e.g Fe,Co,Ni,Cr,Zr etc.) and materials related to medical isotopes (e.g Mo)"	Prof. B. Jyrwa	BRNS	Sanctioned Rs. 24,78,503/- Received Rs. 10,38,074/-

Academic Collaborations:

Prof. Prabodh Shukla is engaged in an ongoing collaboration with Dr. Matteo Marsili of ICTP, Triesie, Italy.

Prof. B. Jyrwa is having collaboration work with RCD BARC, Mumbai, as well as VECC, Kolkata on experimental work regarding various nuclear reactions related to nuclear data. There is also interaction with IAEA Vienna on compilation and digitization of nuclear data.

Prof. A. Saxena is engaged in close collaboration with various groups including GSI, Darmstadt, Germany and with Prof. K.K. Dwivedi, Vice-Chancellor Apeejay Styas University, for SSNTD

related work (irradiation facility): Prof. Robert J. Buenker and H.P. Liebermann (Bergische Universitaet – Gesamthochschule Wuppertal Fachbereich C-Theoretische Chemie, Gausstr. 20-42097, Wuppertal, Germany) for theoretical Atomic and Molecular physics; Prof. Devesh Walia, Department of Environmental Studies for radon studies and geophysics.

Other Activities

Prof. Prabodh Shukla visited ICTP, Triesie, Italy from February 18 to March 18, 2015.

Prof. B. Jyrwa gave an invited talk at Don Bosco University, Gauhati, entitleds “Applications of Nuclear Data Science” on 27th February, 2015.

School of Physical Sciences

DEPARTMENT OF STATISTICS

Head : Dr. B.K. Gupt
Telephone : 0364-2722901(O)
E-mail : hodsta@nehu.ac.in
Faculty :

Designation	Name and Qualification	Specialization
Professor	G. Das, M.A. (Delhi Univ.), Ph.D. (NEHU).	Sample Survey
Associate Professor	M.K. Das, M.Sc., Ph.D (Dibrugarh Univ.).	Bayesian Inference
	B.K. Gupt, M.A. (Econ) (Rohilkand Univ). M.Sc (Stat) (AMU), Ph.D (Gauhati Univ.)	Survey Sampling
	R.Singh, M.Sc, Ph.D. (Patna Univ.)	Econometrics, Demography, Poverty & Human Development
	T. K. Chakrabarty, M.Stat. (Agra Univ.) Ph.D. (Manipur Univ.).	Statistical Demography
Assistant Professor	S. K. Jha, M.Sc., Ph.D (Patna Univ).	Spatial Statistics
	B. Das, M.Sc, Ph.D (Gauhati Univ)	Distribution Theory, Environmental Statistics.

Thrust Areas

Statistical Inference, Design of Experiments,
Sample Survey, Statistical Ecology,
Demography, Econometrics.

Student Intake

Enrolment Capacity: M.Sc = 25, M.Phil. Variable, Ph.D. Variable

Actual Admission

Degree	OBC	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
M.Sc.	1	-	23	-	15	9	3	21	24
M.Phil.	-	-	-	-	-	-	-	-	-
Ph.D.	-	-	1	3	1	3	1	3	4

Degrees Awarded

Degree	OBC	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
M.Sc	1	-	5	3	1	9	2	8	10
M.Phil	-	-	-	-	-	-	-	-	-
Ph.D	-	-	-	-	-	-	-	-	-

Courses Conducted

M.Sc.

Semester – I

Mathematical Analysis, Linear Algebra, Probability Theory, Distribution Theory I, Distribution Theory II, Distribution, Computing & Programming (Practical)

Semester – II

Sample Survey, Statistical Inference I, Linear Models & Regression Analysis, Sample Survey(Practical), Statistical Inference I & Regression Analysis (Practical), Introduction To probability Theory and Distributions, Introduction to Sample Survey, Linear Programming.

Semester – III

Design of Experiments, Statistical Inference II, Statistics for National Development & Environmental Statistics, Design of Experiments (Practical), Statistical Inference II (Practical), Introduction to Design and Analysis of Experiments, Introduction to Econometrics, /Survival Analysis.

Semester – IV

Applied Multivariate Analysis, Time Series Analysis & Forecasting, Stochastic Processes, Applied Multivariate Analysis (Practical), Time Series Analysis and Forecasting (practical), Project Work, Statistical Computing, Population Dynamics and Demography, Population Dynamics and Demography (practical).

M.Phil/Ph.D Courses

Research Methodology in statistics, Applied Survival Analysis, Statistical Modeling.

Seminars/Conference/Symposia/Extension Programme etc.

Attended and Participated

B. K. Gupta

Presented paper (oral) entitled “Estimation of Fertility Rates in Southern Angami Block of Kohima District in Nagaland using Two Stage Sampling Design” at 68th Annual conference of Indian Society of Agricultural Statistics held at IASRI (ICAR), New Delhi, Jan 29th -31st, 2015.

T. K. Chakrabarty

Delivered two Invited lectures on Analysis of Categorical Data and conducted hands on sessions using SPSS in the *Workshop on “Statistical Methods and Applications”* during January 30th – February 02nd, 2015, at the Department of Statistics, Manipur University, Imphal, organized by Indian Statistical Institute, North East Centre.

B. Das

Attended the VI-MSS *Workshop on Environmental Statistics* (IUWES, 2015) jointly organized by ISI, India & Statistical and Mathematical Sciences Institute (SAMSI), USA held during 2nd to 4th March, 2015 at ISI, Kolkata.

Publications

Published in India

Das, G., A. J. Nath., A. K. Das. (2014). Nonlinear Statistical Model for Characterizing Culm Growth of *Bambusa cacaensis*. *International Journal of Ecology and Environmental Sciences* 40(i): 41-47.

Satya, Y., Gupta, B. K. (2014). Environmental Management: Transitional Trends in Resource Based Dependences in North-East India. *SPECTRUM Humanities, Social Sciences and Management – A Peer Reviewed Research Journal* 1: 68-92.

Das, B., Baruah, B.K., Medhi, C., Mishra, A.K. (2014). An Approach on Modification of Indigenous Rural Water Filtration Technique for Arsenic (As) Mitigation using Different Bamboo charcoals, *J. Chemical and Pharmaceutical Research*. 16(6): 1060-1065.

Published Abroad

Chakrabarty, T. K. (2014). Deconvolving Kernel Density Estimation of Right Censored Duration Data with Recall Errors. *American Journal of Applied Mathematics and Statistics* 2: 416-422.

Chakrabarty, T. K. (2014). Forecasting Rate of Decline in Infant Mortality in South Asia Using Random Walk Approximation. *International Journal Statistics in Medical Research* 3:282-290.

Singh, R. (2014). Income Inequality and Its Measures. *Journal of International Academic Research for Multidisciplinary*, 2 (10): 16–28.

Singh, R. (2014). Academic Performance Indicator Scores for Selection Committees in Indian Universities for Quality Assessment”, *Journal of International Academic Research for Multidisciplinary*, 2(8): 45 - 55.

Singh, R. (2014). Global Corruption Barometer and Gender: A Study”, *Journal of International Academic Research for Multidisciplinary*, 2(7): 266 - 277.

Saikia, B., Singh, R. (2014). “Ridge Regression as an Application to Regression Problems”,

Journal of Environmental Research and Development 8 (3A): 726 - 733.

Saikia, B., Singh, R. (2014). A Comparative Study on Counter-measures for Handling Multicollinearity in Regression Analysis", *Asian-African Journal of Economics and Econometrics*, 14 (2): 163 - 174.

Saikia, B., Singh, R. (2014). Estimation of Principal Components Regression Coefficients. *International Journal of Science and Research* 3 (9): 2437- 2440.

Books/Book Chapters/Proceedings

Das, B., Baruah, B. K., Medhi, C., Mishra, A.K. (2014). Modification of Indigenous Rural Water Filtration Technique for Arsenic (As) Mitigation using Bamboo Charcoals. In: *Green Chemistry for Greener Environment*. Pathak R, (Eds), Educreation Publishing, New Delhi: Chapter 4, 21-26, (ISBN: 978-81-928823-7-6).

Academic Collaborations

Dr. T. K. Chakrabarty visited Indian Statistical Institute, North East Centre,

Tezpur, during March 25th – April 17th, 2015, to participate in the academic programme of the centre and for teaching the course on Time Series Analysis to the students of Post Graduate Diploma in Statistical Methods with Analytics, 2014-15.

Other Activities

Dr B.Das participated in the UGC sponsored Orientation Programme held during 23rd June to 20th July 2014 at Academic Staff College, NEHU.

Mr. Zoramthanga Ralte, Ph.D student was awarded Appreciation Certificate for his presentation on the paper entitled 'Ratio-to-Regression, Estimator in Successive Sampling Using One Auxiliary Variable' (jointly authored with Prof. G. Das) during Student's Paper Presentation Session in the 68th Annual Conference of Indian Society of Agricultural Statistics, held at ICAR-IASRI New Delhi, Jan 29th -31st, 2015.

VII

DEAN SCHOOL OF SOCIAL SCIENCES

Dean : Prof. C.L.Imchen
Phone : 0364-2723001(O)
E-mail : climchen@yahoo.com

The School of Social Sciences consists of the Departments of Cultural and Creative Studies, History, Law, Political Science, Sociology, and History and Archaeology (the last in Tura). The Departments of History, Political Science, Sociology, and History and Archaeology offer postgraduate courses in their respective disciplines. The Department of Cultural and Creative Studies offers P.G. Diploma courses in Music, in Painting and M.A. in Folkloristics. The Department of Law runs a Five-Year Integrated programme of B.A., LLB (Honours).

Some of the Departments are also conducting research under the UGC-SAP scheme. The Department of History is at the DSA-II stage; while the Department of Sociology has been upgraded from DRS III to DSA-I; The Department of Political Science is now at the DRS-II stage. The faculty members of the School have produced a good number of books and articles

emanating from their engagements in archival and field based research works. The constituent Departments have organised Lectures, Symposiums, and Seminars at which eminent and renowned scholars were also engaged. Besides, most of the Departments have outreach programmes including academic bodies and networking with NGOs.

For the current period special mention may be made of the Department of History and Archaeology which is making significant contribution to knowledge in the discipline in terms of both theory and method of study by conducting a series of national seminars and workshops. New and extended knowledge is further augmented by yet another young department, that of Cultural and Creative studies. This academic year saw the meeting of traditional practitioners of folk medicine and theorists drawn from the sciences and social sciences.

DEPARTMENT OF CULTURAL AND CREATIVE STUDIES

Head : Prof. Subrat Kumar Nanda

Telephone : 0364-2723374/ 0364-2723371/ 0364-2723372 (O)
9436702498 (M)

Email : nanda_subrat2@yahoo.com

Faculty :

Designation	Name and Qualification	Specialization
Professor	Desmond L. Kharmawphlang, Ph. D. (NEHU)	English
	Subrat Kumar Nanda, Ph.D. (JNU)	Sociology
Associate Professor	Lapynshai Syiem, Ph.D. (NEHU)	Music
Assistant Professor	Bedanta Kalita, M.F.A. (M.S. Univ. of Baroda)	Painting
Visiting Professor/ Fellow/Scholars in the Department	G. Badaiasuklang L. Nonglait, Ph. D. (NEHU)	Folkloristics
	Roplyneda Lyngdoh, Ph. D. (NEHU)	Folkloristics
	Benedict S. Hynniewta, M.F.A. (Viswa Bharati)	Painting

Thrust Area of Research:

The major thrust area of research in the department is studying various theoretical, conceptual and contextual issues relating to different aspects of folklore, performing arts and visual arts.

Brief Statement of Academic Activities:

The department runs a regular M.A. course in folkloristics and P.G. Diploma courses in music and painting. In addition, the department offers

Ph.D. programme in folkloristics which covers studies primarily related to folklore and other related areas such as folk music, traditional performing arts, folk theatre, etc. Candidates desirous of pursuing research work in these areas are provided necessary facilities, technical and professional guidance. Both theoretical knowledge and practical training are provided to the students admitted to the postgraduate course in folkloristics and the diploma courses in music and painting. Besides teaching and

School of Social Sciences

research, the department regularly engages in extension activities as part of its academic programmes.

Students' Profile:

Enrolment Capacity:	PG Diploma Music	-	20
	PG Diploma Painting	-	10
	M.A. Folkloristics	-	30
	Ph. D.	-	Varies

Actual Admission:

Degree/ Diploma	SC	ST	GEN	OBC	Male	Female	Meghalaya	Non- Meghalaya	Total
M.A. (Folkloristics)	-	24	1	-	4	21	23	2	25
P.G. Diploma (Painting)	1	4	1	-	4	2	4	-	6
P.G. Diploma (Music)	-	7	-	-	5	2	6	1	7
Ph.D.	-	3	-	1	3	1	3	1	4

Degrees/Diplomas Awarded:

Degree/ Diploma	SC	ST	GEN	OBC	Male	Female	Meghalaya	Non- Meghalaya	Total
M.A. (Folkloristics)	-	26	1	-	17	10	24	3	27
P.G. Diploma (Painting)	-	4	-	-	3	1	4	-	4
Ph.D Course Work	1	2	-	-	3	-	2	1	3

Courses Conducted

M.A. (Folkloristics):

Semester-I

CCS(C)-101: Introduction to Folkloristics;
CCS(C)-102: History of Folklore Studies;
CCS(C)-103: Introduction to Semiotics;
CCS(C)-104: Folklore Theories-I; CCS(C)-105:
Field Methods and Studies.

Semester-II

CCS(C)-106: Folklore Theories-II; CCS (O)-
108: Folk Literature-I; CCS (O)-109: Public
Sector Folklore; CCS(C)-110: Introduction to
Visual Arts; CCS(C)-111: Urban Folklore.

Semester-III

CCS (O)-112: Ethnomusicology; CCS(C)-113:
Folk Literature-II; CCS(C)-114: Introduction
to Performing Arts; CCS(C)-115: Folklore of
Northeast India-I; CCS (O)-116: Social Folk
Custom.

Semester-IV

CCS(C)-118: Material Culture; CCS(C)-119:
Language, Culture and Society; CCS(C)-120:
Narratology, CCS(C)-121: Folklore of
Northeast India-II, CCS(C)-122: Dissertation.

P.G. Diploma (Painting):

Semester-I

CCSC-106: Fundamentals of Visual Arts
(Theory), CCSC-107: Introduction to Indian
and Chinese Art (Theory), CCSC-108: Drawing
and Colour Application (Practical), CCSC-109:
Sculpture (Practical), CCSO-110: Introduction
to Folk Art and Craft of Northeast India
(Theory).

Semester-II

CCSC-206: Introduction to Western Art
(Theory), CCSC-207: Print Making (Practical),

CCSC-208: Creative Painting (Practical),
CCSC-209: Enamel Painting in Glazing
Technique (Practical), CCSO-210: Introduction
to Indian and Western Aesthetics (Theory).

P.G. Diploma (Music):

Semester-I

CCSC-101: Brief History of Indian Classical
Music (Theory), CCSC-102: Introduction
to General Musical Terms (Theory), CCSC-
103: Introduction to Indian Classical music
(Practical), CCSC-104: Practical Training in
Indian Classical music (Practical), CCSO-
105: Introduction to Western Musical (Staff)
Notation (Practical).

Semester-II

CCSC-201: Study of Selected Musical
Instruments (Theory), CCSC-202: Songs of
Meghalaya (Practical), CCSC-203: Rhythmic
Pattern of the Music of Meghalaya (Practical),
CCSC-204: Concept of Rhythmic Pattern of
Music of Meghalaya (Theory), CCSO-205:
Proficiency Western Musical Instruments
(Practical).

Ph. D. Course Work:

Semester-I

CCS(C)-501: Research Methodology;
CCS(C)-502: Recent Trends in Folkloristics;
CCS(C)-504: Advanced Course in Performing
Arts.

Educational Tour of Students:

Teachers-in-Charge : Mr. Somingam Mowan,
Research Scholar, Mr. Donald V. Thabab,
Research Scholar

Places/Institutions visited : Mumbai and Goa

Duration of Tour : 13 days

Purpose of Tour : To enable the students to acquaint themselves with the folklore and other oral traditions and literature of different communities in these areas.

Seminars/Conferences/Symposia/Extension Programmes, etc:

Organised:

Symposium on "Northeast Folklore: Challenges and Prospects" at NEHU, Shillong, 6th June 2014.

Poetry Festival titled "Ensemble NEHU" at NEHU, Shillong by Prof. Desmond L. Kharmawphlang in collaboration with Sahitya Akademi, New Delhi, 19th to 21st June 2014.

National seminar on "Ecology and Progress in Northeast India: Anxiety, Hope and Belonging in the Literacy Consciousness" in collaboration with Maulana Abul Kalam Azad Institute of Asian Studies (MAKAIAS) Kolkata, at NEHU, Shillong, 9th and 10th September 2014.

National seminar on "Folk Medicine and Traditional Healing in India: Theory and Practice" at NEHU, Shillong, (Coordinators) Prof. Subrat K. Nanda and Prof. Desmond L. Kharmawphlang, 26th -27th March 2015.

Attended:

Desmond L. Kharmawphlang:

Delivered an invited lecture on "The Jabulo Festival of Nongsangu Village, Ri-Bhoi District" at a *National "Theatre Workshop"* organized by National School of Drama at NEHU, Shillong, 23rd April 2014.

Participated in a *Workshop on "Translations : Transcending Barriers"* organized by the Literary Circle, Shillong at Shillong College, Shillong, 20th November 2014.

Presented a paper on "Cultural Landscape of Meghalaya" at the *National workshop on*

"Multi-Disciplinary Survey Research and Documentation of Rock Art in Northeast India" organized by Lalit Kala Akademi, New Delhi and Department of Anthropology, NEHU, Shillong, 1st December 2014.

Presented a paper on "Making Use of Preserved Data" at the *National Workshop on "Documentation and Conservation of Intangible Cultural Heritage of India"* organized by Folklore Society of South Indian Languages (FOSSILS) at Karnataka Sangha, New Delhi, 6th December 2014.

Presented a paper on "Colonial Myth Making and the Khasi Paradigm" at the *International Seminar on "Northeast India in the Cultural Imaginations: History, Land and People"* organized by Maulana Abul Kalam Azad Institute of Asian Studies (MAKAIAS) at Azad Bhavan, Kolkata 7th -8th January 2015.

Subrat .K Nanda

Chaired a session at the *National Seminar on "Ecology and Progress in Northeast India: Anxiety, Hope and Belonging in the Literacy Consciousness"* organized by the Department of Cultural and Creative Studies, NEHU, Shillong in collaboration with Maulana Abul Kalam Azad Institute of Asian Studies (MAKAIAS) Kolkata at NEHU, Shillong, 9th -10th September 2014.

Chaired a session at the *National Seminar on "Folk Medicine and Traditional Healing in India: Theory and Practice"* organized by the Department of Cultural and Creative Studies, NEHU, Shillong 26th -27th March 2015.

Lapynshai Syiem:

Delivered an Invited lecture-cum-demonstration on "Remix and Remake: Contemporary Khasi Music" on 25th April 2014 at the Theatre

Appreciation Course programme organized by the National School of Drama, New Delhi in collaboration with Department of English, NEHU, Shillong, 21st-28th April 2014.

Publications:

Kharmawphlang, D.L. (2015). "Dialogic Narration and the Discourse of Memory of U Manik Raitong", *Journal of Literature and Cultural Studies*, II, Issue 2, 70-81.

Research Projects:

Ongoing:

Sl.No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1	Rice Myths of North East India Area Study	Professor D.L. Kharmawphlang Professor S.K. Nanda Dr. Lapyngshai Syiem	UGC – (under UPE Scheme)	Rs. 30 Lakhs

Funds Received from Agencies including NEHU/UGC:

Received Rs. 75000/- from North Eastern Hill University, Shillong, Meghalaya for organizing the national seminar on "Folk Medicine and Traditional Healing in India: Theory and Practice" on 26th and 27th March 2015 at the Department of Cultural and Creative Studies, NEHU, Shillong.

Other Activities:

Desmond L. Kharmawphlang:

Delivered a lecture on "Northeast India Literature" at the Department of English, Bodoland University, 28th April 2014.

Delivered two lectures on 'Heritage' at the Orientation Course conducted by the

Nanda, Subrat. K. (2014). "Ethnicity and Nation-building in India: A Critical Appreciation with Special reference to Northeast India". In Sarthak Sengupta (ed.), *Ethnicity in Northeast India*. New Delhi: Gyan Publishing House, 31-58.

Academic Staff College, NEHU, Shillong, 12th May 2014.

Chaired a session at the *National Seminar on "The Northeast Umbrella: Environment-Cultural Interaction and the Tribes in the Region"* organized by Union Christian College, Barapani, Meghalaya, 30th May 2014.

Guest of Honour on "World Library Day" organized by NEHU Central Library, 12th August 2014.

Resource person, a paper on "Voice and Script" at the "Colloquium on Tribal Lore" organized by TATA Foundation, Jamshedpur, 17th November 2014.

Chaired a session at the "National Writers' Meet" organized by Sahitya Akademi, Kolkata

School of Social Sciences

at St. Edmund's College, Shillong, 27th November 2014.

Delivered a lecture on "Tradition: Stability in Subversion" at the Refresher Course in History organized by the Department of History, NEHU, Shillong, 28th November 2014.

Participated as an invited poet and resource person at the Kala Ghoda Arts and Literary Festival, Mumbai, 13th - 14th February 2015.

Appointed as member of the advisory committee for the Centre for Endangered Languages at Rajiv Gandhi University, Itanagar, Arunachal Pradesh. YEAR ?

Undertook a field trip for the students of M.A. (Folkloristics) to Pahambir, Ri-Bhoi District

to study the folk material culture of the region. YEAR ?

Subrat K. Nanda :

Delivered two lectures on "Globalisation, State and Culture" and "Globalisation, State and Nationalism" at the Refresher Course organised by the Department of Political Science, NEHU, Shillong and Academic Staff College, NEHU, Shillong on 20th and 22nd November 2014 respectively. Shillong, 19th November-9th December 2014.

Lapynshai Syiem :

Delivered a lecture on "Music Education: Scope and Relevance" at Special Winter School organized by Academic Staff College, NEHU, Shillong, 3rd November 2014.

DEPARTMENT OF HISTORY

Head : Prof. F.A. Qadri (upto 16.12.2014)
 Prof. A.K. Thakur (from 17.12.2014)
Telephone : 0364-2723019 (H); 0364-2723020 (O)
E-mail : akthakur13@gmail.com
Faculty :

Designation	Name and Qualification	Specialization
Professor	M. Momin, M.A./M.Phil./Ph.D. (JNU)	Ancient Indian History & Early Northeast India
	Manorama Sharma, M.A (Gauhati), Ph.D (NEHU)	Modern Indian History & Gender History
	F.A. Qadri, M.A./M.Phil./Ph.D. (Alig)	Medieval Indian History & Northeast India.
	A.K. Thakur, M.A./Ph.D. (BU, Muzaffarpur)	Medieval Indian History & Northeast India.
	V.R. Rengsi, M.A./M.Phil./Ph.D.(NEHU)	History of Sciences & Non-Indian History
	C.A. Mawlong, M.A. (NEHU), PG Dip. in Archaeology-(IoA, Delhi), Ph.D.(NEHU)	Archaeology & Early Northeast India
	Amena N. Passah, M.A.(Gold Medalist) / M.Phil/ Ph.D. (NEHU)	History of South East Asia & Modern Northeast India
Associate Professor	T. Gurung Nag, M.A/M.Phil./Ph.D. (NEHU)	Modern Indian History & Northeast India
	S.N. Lamare, M.A/M.Phil./Ph.D. (NEHU)	Modern Indian History & Modern Northeast India.
	A. Mathur, M.A./Ph.D.(Rohilkhand Uni.)	Ancient Indian History, Culture & Archaeology.

School of Social Sciences

Assistant Professor	M.S.N. Rahman, M.A./Ph.D. (Calcutta)	Medieval Indian History & Islamic History & Culture
	B. Dutta, M.A./Ph.D. (NEHU)	Modern Indian History

Thrust Area of Research:

The Department's thrust area is Northeast India.

Brief Statement of Academic Activities:

During the period under report the faculty members of the Department were involved in

several academic programmes like 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.

Students' Profile

Enrolment Capacity: M.A. /M.Sc. Ph.D. - Variable

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
M.A.	-	50	-	21	29	9	41	50
M. Phil.	-	6	-	1	5	4	2	6
Ph. D.	-	2	3	3	2	1	4	5

Degrees Awarded

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
M.A.	-	43	-	15	28	16	27	43
M. Phil.	-	-	-	-	-	-	-	-
Ph.D.	-	-	3	3	-	1	2	3

Students Awarded Ph.D. Degree

Name of the student	Title of thesis	Name(s) of Supervisor(s) Supervisor, Jt. Supervisor
Ms. Bobby Das	Buddhism in Assam: From Earliest Times to 13 th Century AD	Prof. A.K. Thakur
Ms. Moushumi Dey	Mass Media, Social Change and Gender Relations in Northeast India: A Historical Perspective	Prof. M. Sharma
Ms. Sarbani Bhattacharjee	Conceptualizing the Early History of North-Eastern India with Special Reference to the Barak-Surma Valley	Prof. M. Momin

Placement of Students

Students cleared NET conducted by the UGC and also Rajiv Gandhi National Fellowship, Maulana Azad National Fellowship for Minorities.

Courses conducted

M.A.

Semester-I

Historical Methods-I; Prehistoric to Ancient Societies; Modern Indian Society; Economy and Society in Ancient India; British Expansion and Imperial Policy in India; Technology in the Making of Early China; Social Movement in USA; the Rise of Islam and the Early Caliphate; Economy and Society in Medieval India.

Semester-II

Historical Methods-II; Feudalism; Ancient Indian Polity and Society; Colonialism, Imperialism and Economic Change in India; History of the Graeco-Roman Civilization; Colonialism in South East Asia; (Open Course): Society, Technology and History: Prehistoric

Age to Industrial Revolution; Polity and Society in Medieval India; The Umayyad and Abbasid Empires.

Semester-III

Capitalism and Imperialism - I; Religion and Society in Ancient India; Indian Nationalism; Political Ideas and Institutions during the Sultanate Period; Ancient Indian Art and Architecture; History of Ideas in Modern India; Religion and Society in Medieval India; (Open Courses) Social Forces and Social Mobilization; Introduction to Gender History;

Semester-IV

Capitalism and Imperialism – II; Social and State Formations; Archaeology: Methods and Approaches; Colonialism, Communalism and Secularism; Political History of the Mughal Empire; Political History of the Delhi Sultanate; Contemporary India; Socio-Economic History of N.E.I. – The Early Period; The Rise of South Indian Civilization; Monarchies in Medieval North East India; Christianity in North East India.

M.Phil/Ph.D. Courses: Research Methodology, History and Theory, Oral Tradition.

Educational Tour of Students:

Teacher-in-Charge : Prof. V.R. Rengsi

Places/Institutions visited : Mumbai & Goa

Duration of tour : 15 days

Purpose of tour : The places have rich historical importance for the students of ancient, medieval and modern histories including archaeology. The places will give first-hand experience and knowledge of the past developments preserved in architectural monuments and various museums located at the places. It is important for the students to see for themselves the historical heritage of India which they otherwise only read about in books.

Field Trip:

Prof. C.A. Mawlong took the students on a field trip, to a Neolithic site at Larnai in June 2014 as part requirement of the course on Archaeology: Methods and Approaches.

Seminars/ Conferences/ Symposia/ Extension Programmes etc.

Organized:

Refresher Course on the theme “The Making of Traditions” (Coordinator) Prof. Mignonette Momin, 25th November to 15th December 2014.

One day seminar on “Autonomy Movements in Northeast India”, by students and faculty of the Department, NEHU, Shillong, 26th March 2015.

Attended:

Manorama Sharma

Attended and delivered a lecture in an “Orientation Programme of KRPs on Gender

Equality and Empowerment in North Eastern States” organized by NE Regional Institute of Education of NCERT at SCERT Guwahati, on 18th March, 2015.

Attended a Round Table on “Gender Violence and Access to Justice” at India International Centre, New Delhi, organised by Institute for Development and Communication, Chandigarh and was the chief speaker on Rainuka Dagar’s book *Gender, Identity and Violence: Female Deselection in India* (Routledge, 2014) .

Delivered the Com. Pyla Vasudeva Rao Memorial Lecture Hyderabad, on 11th May. 2014 on “Popular Movements and Gender Relations in Northeast India”.

Presented a paper “Intellectual History, Women and Colonial Assam” in the National Seminar on ‘Women’s Lives in Colonial India’ organised by the UGC CAS Programme of the Department of History, University of Calcutta on 19th September 2015.

Delivered a Keynote address on “Women and Culture in the Perspective of Assam”, in the UGC sponsored *National Seminar* organized by Department of English, LGB girls’ College, Tezpur on 1st & 2nd November, 2014.

Mignonette Momin:

Presented a paper titled “Musings on Caste in Early Assam”, in the *National Seminar on Interrogating Caste in Assam: History, Ideology, Manifestation*, sponsored by ICHR, New Delhi, and organized by the Department of History, Dibrugarh University, Dibrugarh, 17th-18th October 2014. Also chaired the 2nd Academic Session.

F. A. Qadri:

Delivered an Invited talk on the “Use of Persian Sources to Reconstruct the History

of the Tribal Areas on Northeast India: with special reference to Garo Society”, in *National Seminar, Situating Tura Town from West Garo Hills*, organized by Department of History and Archaeology, NEHU, Tura Campus, Tura, 5th -7th June 2014. Also chaired a technical session.

Presented a paper on “Castes among Muslims with Special Reference to Assam”, in the *National Seminar on Interrogating Caste in Assam*, organized by the Dibrugarh University, 17th -18th October, 2014.

Amrendra. K. Thakur:

Presented the findings of the project “Technology of the Tribes of North East India with Special Reference to Arunachal Pradesh”, in the Annual Project Investigators meet/workshop in Indian National Science Academic, New Delhi, 14th -15th April, 2014.

Presented a paper on “Trends & Possibilities” in *National Seminar on Exploring Environmental History in North East India*, organized by the Department of History, Tripura University, 28th -30th May, 2014.

Delivered an Invited talk on “Urbanisation in the Pre-colonial Period and Changes during Colonial Period in Northeast India with special reference to Garo and Neighbouring Areas”, in *National Seminar, Situating Tura Town from West Garo Hills*, organized by Department of History and Archaeology, NEHU, Tura Campus, Tura, 5th -7th June 2014. Also chaired a technical session.

Presided over One Technical Session in National Seminar organized by the Dakshin Kamrup Girl's College, Mirza , 2nd -3rd July, 2014.

Resource Person in *National Seminar on the theme Arunachal Pradesh in the 21st Century:*

Emerging Dimensions, organised by the Rajiv Gandhi University, 25th September, 2014. Also presided over one technical session.

Presented a paper on “Buddhism and Social Change in Early Assam” in *National Seminar on Interrogating Caste in Assam*, organized by the Dibrugarh University, 17th – 18th October, 2014. (A joint paper with Bobby Das)

Delivered Keynote Address in *National Seminar on Trail of Living Buddhism* on the occasion of the Inauguration of Maulana Azad Centre for Research on North East India in Rajiv Gandhi University in Arunachal Pradesh, 29th October 2014.

Presented a paper on “State, Society and Trade in North East India: Reviewing their Inter Connection,” in 35th Annual Session of North East India History Association, Gargaon, Assam, 10th -12th November, 2014.

Delivered Keynote Address in *National Seminar, North East India Before and After Partition with special reference to Tripura* organized by the Department of History Swami Vivekananda Mahavidyalaya Mohanpur Tripura (West), February 2015.

Delivered Inaugural Address in *National Seminar on the theme Critical Assessment of the Kshatriyalisation Movement of the Rajbanshi Society and the Role of Panchanan Barman*, organized by the Department of History, Vivekananda College. 24th March, 2015. Also presided over one technical session.

Cecile A Mawlong:

Attended and participated in the discussion in the *International Peace Conference, Building Nations of Peace: Our Shared Responsibility*, organized by the Dept. of Political Science, NEHU, 5th September, 2014.

Amena N. Passah:

Presented a paper titled "Christianity and Culture in Khasi-Jaintia Society" in Regional Conference, *1st Triennial Conference*, C.H.A.I. Aizawl, 7th - 9th May 2014. Also chaired a technical session.

Attended and participated in the discussion in the *International Peace Conference, Building Nations of Peace: Our Shared Responsibility*, organized by the Dept. of Political Science, NEHU, 5th September, 2014.

Presented a paper titled "The Two World Wars and the Christian Missions in Khasi-Jaintia Hills" in *Regional Conference, 35th session, North East India History Association*, Gargaon, 10th -12th November 2014. Also chaired a technical session.

Presented a paper titled "Gender and Violence in Northeast India" in *National Seminar*, organised by Department of Women's Studies, Gauhati University, in collaboration with the Indian Association for Women's Studies, Hyderabad, 17th - 18th March 2015.

Presented a paper titled "Healthcare in Meghalaya: Shifting Perspectives" in *National Seminar*, organised by Jawaharlal Nehru Institute of Advanced Study, Jawaharlal Nehru University, New Delhi, 25th - 27th March 2015.

Tejimala Gurung Nag:

Participated and delivered an oral presentation on Human Rights Perspective on Meghalaya, in *National Level Workshop on Human Rights and Duties* for designing a syllabus on the subject to be offered to post-graduate students from all disciplines of Dibrugarh University as a credit course, organized by the Department of Political Science, Dibrugarh University, Dibrugarh, 10th -12th May, 2014.

Participated in the discussion in the *International Peace Conference, Building Nations of Peace: Our Shared Responsibility*, Organized by Universal Peace Federation of India and the Dept. of Political Science, NEHU, 5th September, 2014.

Presented a paper titled "The Practice of Thlen Worship among the Khasis," in ICHR sponsored *International Conference, Black Magic, Witchcraft and Occultism: Secret Cultural Practices in North East India*, organized by Department of History, Assam University, Silchar, 5th -7th November 2014. Also chaired a technical session.

Presented a paper titled "Frontier Tribes of Northeast and the Mughals" in ICHR sponsored *International Conference, Mughals and the Northeast: Linkages, Sustenance and Crisis*, organized by Department of History, Assam University, Silchar, 10th -11th November 2014.

Presented a paper titled "The Making of Gurkhas as a 'Martial Race' in Colonial India: Theory and Practice" Indian History Congress, 75th Session, Jawaharlal Nehru University Delhi, 28th -30th December 2014.

M.S.N. Rahman:

Presented a paper entitled "Inter-Community relations in Bengal during Mughal Period" in *National Seminar, Cultural Pluralism in India and Inter-Cultural Dialogue*, organized by Centre For Studies in Civilizations, New Delhi, funded by Ministry of Human Resource Development, Government of India, ICSSR (NERC), 23rd -24th February, 2015.

Binayak Dutta

Presented a paper titled 'Academia- Community Interface and NEHU: An Overview' in

the *Workshop, Strengthening Community Engagement in Higher Education Institutions* organized by IIT Guwahati in collaboration with PRIA, ICSSR and British Council, 17th -18th September 2014.

Presented a paper titled “History of the Sylhet Referendum, 1947 : Narratives Beyond Archives,” in *International Seminar, Exploring Historical Traditions in India*, organized by the Department of History, Assam University, Silchar, 5th – 6th February 2015.

Publications:

Research Papers

Thakur, Amrendra.Kr. (2014). “Resistance to British Power in the Hills of North-East India: Some Issues”, *Dialogue Quarterly*, 16, (1), July-September, 2014, 117-128 (ISSN 0973-0095).

Thakur, Amrendra. Kr.(2014). Book Review of Sanjoy Hazarika (ed.), *Little Known Fighters against the Raj: Figures from Meghalaya*, Centre for North East Studies and Policy Research, Jamia Milia Islamia, New Delhi, 2013, *The NEHU Journal*, XII (2), July-December 2014, 133-136, ISSN. 0972 - 8406.

Rahman, M.S.N. (2014). ‘Vaishnavite Muslim Poets in Bengal’, *Seva, Annual Journal of Shillong Centre*, Bharat Sevashram Sangha, 1-5.

Dutta, B. (2015). ‘Fanatical Mahomedan and Wastelands: Colonial Assam and the prehistory of the migration of Bengali Peasants’ in *Ninth Column*, 14 (12), 117-132. (In Bengali).

Dutta, B. (2014). ‘Pakistan Movement in the Colonial Frontier: Muslim League Conspiracy and Mobilization in Colonial Assam’ in *Journal of Social Science and Humanity Research*, II (1), 3-70.

Dutta, B. (2014). ‘The Past as Present: Partition in Assam Politics during Independence and Beyond’ in *Dialogue*, 16(1), 160-173.

Dutta, B. (2014). ‘The Stout fanatical Mahomedan and Mullan’s Burden: The History of Bengali Immigration in Colonial Assam’ in *Man and Society*, XI (2), 70-85.

Dutta, B. (2014). ‘Loss and Recovery of Sylhet: Revisiting Partition Discourse in Contemporary Assam’ in *Pioneer*, 1 (1), 11-23.

Dutta, B. (2014). ‘Event, Memory and Lore: Anecdotal History of Partition in Assam’ in *The NEHU Journal*, XII (2), 61-76.

Books/ Book chapters/proceedings

Sharma, Manorama (2015), “Are Social Hierarchies Unjust? A Gendered Approach to Power Structures” in Sutapa Sengupta et. al (eds.), *Dynamics of Gender Disparity: North East Lens* (EBH Publishers, Guwahati), pp.11-22.

Thakur, Amrendra. Kr. (2014). *History of Arunachal Pradesh (Early times -1972 AD)*, Institute of Distance Education, Rajiv Gandhi University, Itanagar in association with Vikas Publishing House Pvt. Ltd., New Delhi, 2014 (ISBN 978-93-259-8389-2).

Thakur, Amrendra. Kr. (2014). “Buddhist Centres of Early Assam Along Trade Routes: A Preliminary Probe”, in Mitali Baruah and Jyotima Phukon (eds.), *Mosaic (A Collection of Research Articles)*, Dibrugarh, 2014, 303-313(In association with Bobby Das)

Thakur, Amrendra.Kr.(2014). “Approaches to Study Technology of Northeast India”, *Proceedings of North East India History Association*, 34th session, Imphal, 2013, published Shillong, 2014, 13-24. ISSN 2349-753x.

Passah, Amena. (2014). "Women and Decision Making: Role of Khasi-Jaintia Women," In *Proceedings of North East India History Association*, 34th session, Imphal, 2013, published Shillong, 2014, 587-596. ISSN 2349-753x.

Mathur, Aparna. (2014). "Human Evolution" and "Decline of Early Empires" in *Ancient Societies*, Directorate of Distant Education, Tripura University, Suryamaninagar, Tripura in association with Vikas Publishing Housing Pvt. Ltd, New Delhi, 03-45 and 185-213 (ISBN 978-93-259-7829-4).

Rahman, M.S.N. (2014). 'Mughal-Ahom Political Relations (1613-1707) A Relook', *Proceedings of North-East India History Association*, 34th Session, Imphal, 2013 published in Shillong, 2014, 354-362, ISSN 2349-753x.

Rahman, M.S.N. (2014). 'Banglai Vaishnava Dharma O Sanaskriti Sammanaya' in Sukanta Pal and Subrata Roy (eds.), *Nabajagoraner pratham Alo Sri Chaitanya*, Mitram, Kolkata, 2014, 68-82. ISBN: 978-93-84104-00-9.

Dutta, B. (2015). 'Forgotten Lands, Forsaken Men: Provincialism, Partition and Sylheti Government Servants in post-Partition Assam' in *Gender and Modernity*, Amitava Chatterjee (ed.) Setu Prakashani, Kol kata, Chapter 2, 31-48

Dutta, B. (2015). 'Disempowered Gender: Status of Women in North East India' in S. Sengupta, S. Nessa, S. Das Gupta, (eds.) *Dynamics of Gender Disparity North East Lens*, EBH Publishers, Guwahati, Chapter 3, 23-30.

Funds Received from Agencies including NEHU/UGC:

NEHU- Rs.1, 50,000/- & UGC-SAP-DSA II – Rs. 8, 80,000/-

Research Projects

Ongoing New Projects

Sl.No	Title of Project	PI/Co-PI	Funding Agency	Amount
1	UGC-SAP-DSA II	Prof. F.A. Qadri	UGC	8,80,000/-

Other Activities:

Manorama Sharma

Was Invited as a Visiting Fellow by the Department of History, University of Calcutta under the UGC-CAS programme during 18th – 24th September, 2014

M. Momin:

Coordinated the UGC-sponsored Refresher Course programme organized by the Department

of History, NEHU under the auspices of ASC-NEHU, Shillong, on the theme "The Making of Tradition", held on 25th November - 15th December 2014.

F. A. Qadri:

Guest of Honour at the ICHR sponsored National Seminar organized by the Dibrugarh University on Interrogating Caste in Assam, 17th – 18th October, 2014. Also presided over the Inaugural session.

Delivered two lectures on Medieval Indian Persian Historiography, on 27th January 2015 during the Refresher Course in History at Academic Staff College, North Bengal University, Siliguri.

Delivered four lectures on Indian Culture on 9th -10th March, 2015 during the Orientation Course at the Academic Staff College, Mizoram University, Aizawl.

A.K. Thakur:

Delivered lectures on Nationalism in orientation programmes at the Academic Staff College, NEHU, Shillong, February and March 2014.

C.A. Mawlong:

Resource person at the UGC-Special Winter School on the theme "Linking Education to Society" organized by the Academic Staff College, NEHU, delivered lectures on Khasi Matriliney, 30th October-19th November, 2014.

NEHU representative in the Governing Body of K L Bajoria College, Shillong.

A.N. Passah:

Member, Meghalaya State Audit Advisory Board (MSAAB), June 2014.

Speaker, Debate, "Indian Educational System is Better than any Other System in the World" in the 3rd Academic Tea Club Hostel Debate Competition organised by NEHU Hostellers' Welfare Committee (NHWC), at Science Seminar Hall, NEHU, 14th November 2014.

Resource person, International Girl Child Day, "Legislation and its Impact on the Girl Child" organised by Meghalaya State Social Welfare Board, at Community Centre, Khliehriat, February 2015.

M.S.N. Rahman:

Delivered a lecture on 'National Integration' in an orientation programme at the Academic Staff College, NEHU, Shillong, on 7th May 2014.

DEPARTMENT OF HISTORY AND ARCHAEOLOGY (Tura Campus)

Head- In-Charge : Dr. Amit Kumar Upadhyay
Telephone : 03651-221006(O); 9415682014 (M)
E-mail : historynehutura@gmail.com
Faculty :

Designation	Name and Qualification	Specialization
Assistant Professor	Amit Kumar Upadhyay M.A., (Gold Medalist, BHU) Ph.D (BHU)	Ancient Indian History, History of Early Northeast, Epigraphy and Numismatics.
	Tilok Thakuria M.A., Ph.D (DCPGRI)	Archaeology, Ethno-Archaeology, Archaeology and Culture of Northeast
	Doneti Shivaji M.Phil, Ph.D (HCU)	Business History, Studies on Entrepreneurship, Intellectual History, Studies on Caste.

Visiting Professors:

Dr. Susmita Basu Majumdar, University of Calcutta, Kolkata.

Dr. Dinesh Kumar Ojha, Banaras Hindu University, Varanasi.

Thrust Areas of Research:

The foremost concentration of the department is on research in history and archaeology. The goal is to promote research in history of ancient India and archaeology of Southeast Asia. The department gives particular interest to encourage research in history, numismatic, epigraphy, archaeology, ethno-archaeology and cultural studies of Northeast India. Beside these, it also aims to explore the research areas

like history of entrepreneurship, intellectual history and caste system of India in general and Northeast India in particular.

Brief Statement of Academic Activities:

The department provides both theoretical and practical training to Post Graduate students as part of teaching and training within the stipulated time. Alongside laboratory exposure to students in the areas related to field and conservation archaeology is also available. In addition to these, the department also arranges field trip to archaeological and historical sites for training in documentation of archaeological and historical records along with other field based studies. Beside these, the faculty

members often make visit to local historical and archaeological places to gather information on related areas.

Students' Profile

Enrolment Capacity: 25

Actual Admission:

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
M.A.	-	23	1	9	15	20	4	24

Courses Conducted:

M.A.

Semester-I

Historical Methods – I, Pre-Historic Society, Ancient Society, Archaeology: An Introduction, Social and Polity Formation in North-East India.

Semester- II

Historical Methods – II, Pre-Industrial Society, Polity and Society in Early India, Religion and Society in Early North – East India, The Neolithic Age in India.

Semester-III

Capitalism and Colonialism – I, Practicals in Archaeology, Economy and Society in Early India, Religion and Society in Early India, Making of Modern India Society.

Semester-IV

Capitalism and Colonialism – II, The Chalcolithic Age in India, Christianity in North – East India, Economy and Society in Early North-East India, Perspectives in History and Culture of North-East India.

Classes were also taken for UGC-NET examination in History and Archaeology.

Provision for tutorial classes and presentation and creativity classes is also available for the benefits of the students. Students were given training on various issues of Art and Architecture.

Educational Tour of the Students:

Teacher-In-Charge : Dr. Amit Kumar Upadhyay

Places/Institutions visited : Bangalore through Chennai

Duration of tour : 19th January to 07th February 2015 (20 days)

Purpose of Tour : To understand Art and Architecture of South India.

Students were taken to archaeological and historical sites within Garo Hills. Students have taken to the Balpagram and Surya Pahar archaeological site during the current academic year. The aim is to provide practical and physical exposure to students.

Seminars/Conferences/Symposia/Extension Programmes etc.

Organised:

Organised a *National Seminar on 'Situating Tura Town from West Garo Hills'* sponsored by ICSSR and ICHR, New Delhi and organised by the Department with Department of Garo,

NEHU in collaboration with A.chik Literature Society, Tura, 5th - 7th June, 2014. (Organising Secretary: Dr. Amit Kumar Upadhyay)

97th Annual Conference of Numismatic Society of India, Varanasi and *National Seminar on 'Coinage and Economy: Continuity and Change in Northeast India*, sponsored by ICHR, New Delhi, organised by the Department with Department of Garo, NEHU in collaboration with ASI, New Delhi, 19th - 21st December 2014. (Local Secretary: Dr. Amit Kumar Upadhyay)

Attended:

Amit Kumar Upadhyay :

Presented a research paper titled "Historiography of Urbanization in India (In special context of West Garo Hills)" in the *National Seminar on Situating Tura Town from West Garo Hills*, organised by the Department of History and Archaeology, NEHU, Tura, 5th -7th June, 2014.

Presented a paper titled "Historiography of North-eastern Coins" in the *National Seminar on Coinage and Economy: Continuity and Change in Northeast India*, organised by the Department of History and Archaeology, NEHU, Tura, 19th - 21st December, 2014.

Tilok Thakuria :

Delivered a Keynote Address on "Archaeology, Culture and Sustainable Development: the Northeast India scenario" in UGC-Sponsored *Seminar on Traditional Culture of NE India: Basis for Sustainable Development*, Mariani College, Jorhat, 19th - 20th September 2014.

Presented a paper with T. Jamir and M.K. Cheuley, "Recent Archaeological Investigation at North Cachar, Assam," in the *Annual Conference of Indian Society for Prehistoric*

and Quaternary Studies, Deccan College, Pune, 6th - 9th October 2014.

Presented a paper titled "Stone Jars, Deo Moni and Seimi: Archaeology of a Lost Tribe," in the *International Seminar organized by Infinity Foundation*, USA and Indus University, Gujarat at Ahmadabad, 10th - 12th October 2014.

Presented a paper with T. Jamir, "Engravings of North Cachar, Assam," in the *National Seminar* organized by Lalit Kala Academy, NEHU, Shillong, 1st - 2nd December 2014.

Doneti Sivaji

Presented a paper titled "Business History: A study on the Entrepreneurship with reference to Tura town," in the *National Seminar* organized by the Department of History/ Archaeology and Deptt of Garo, NEHU, Tura, 5th -7th June 2014.

Presented a paper titled 'Business History: 18th Century A notable shift in Indian Banking system,' in *National Seminar*, organised by Deptt of Management, NEHU, Tura, 20th -21st Nov 2014.

Presented a paper titled "The Growth of Pharma Industry in Hyderabad" in the *International Seminar*, NEHU, Tura, 20th - 21st November 2014.

Publications:

Research Papers

Singh, P.N. and Upadhyay, A.K. (2014). Gold coins in the cabinet of Numismatic Society of India. *Journal of Numismatic Society of India*, LXXVI: 78

Thakuria, T. (2014). Chronology of Vidarbha Megalithic Culture: an Appraisal. *Heritage: Journal of Multidisciplinary Studies in Archaeology* 2:651-657.

Thakuria, T. (2014). Shell Bangle Manufacturing in Coastal Odisha: A study of Surface Collection at Manikapatana. *Journal of Indian Ocean Archaeology* 9:23-34.

Thakuria, T., Mohanty, R.K., Joglekar, P., Vaidya, S., Midhun, C.S., Wannapat, R., Sabnis, V., Bedekar, G, T. Padan and Yogesh, M. (2014). Preliminary report of exploration at Golbai Sasan and the surrounding area, Dist. Khurda, Odisha, *Bulletin of Deccan College Post Graduate and Research Institute* 72-73: 153-166.

Thakuria, T., Ray, S., Vaidya, S. (2014). Early Historic Beads from Recent Excavations in Odisha. *Heritage: Journal of Multidisciplinary Studies in Archaeology* 2:802-809.

Books/Book Chapter/ Proceedings:

Upadhyay, A. K. (2015). Devi Laksmi on Northern Indian coins: A study. In. *Sakti in Indian Archaeology, Art, Literature and Philosophy*. K.S. Rege, S. A. Pandits et.l (Eds). Agam Kala Prakashan, New Delhi: Chapter 21, 167-178.

Marak, C. R., Marak C.C.D., Upadhyay, A.K. (Eds.). (2014). Abstract Volume of National Seminar on *Situating Tura town from West Garo Hills*, Department of History and Archaeology, NEHU, Tura.

Upadhyay, A.K., (Eds.). (2014). Souvenir Volume of 97th Annual Conference of Numismatic Society of India and National Seminar on *Coinage and Economy and Continuity and Change in Northeast India*,

Department of History and Archaeology NEHU, Tura.

Thakuria, T. (2014). Hollowed Monoliths of North Cachar, Assam: Prospect for archaeology and Ethno-history. In *After 51 Years of Excavation at Daojali Hading: Prospects of Archaeology in North East India*. T. Jamir and M. Hazarika (Eds.). Research India Press: Chapter 20 :243-249.

Thakuria, T. and Mohanty, R. K. (2014). Early Iron Age Megalithic culture of peninsular and South India. In *History of Ancient India: Vol-III: The Texts, Political History and Administration Till C. 200 B.C.*, D. K. Chakrabarti and Makkhan Lal (Eds.). Aryan Publisher and Vivekananda Centre, New Delhi: Chapter IV: 2, 343-378.

Funds Received from Agencies including NEHU/UGC:

Received Rs. 2,00,000 from Indian Council of Social Sciences and Research, New Delhi, Rs. 1,50,000 from Indian Council for Historical Research, and Rs. 50,000 from NEHU to organise National Seminar on *Situating Tura town from West Garo Hills*.

Received Rs. 1,00,000 from Archaeological Survey of India, New Delhi, Rs. 1,00,000 from Indian Council for Historical Research, Rs. 50000 from NEHU and Rs. 25,000 from Numismatic Society of India to host 97th Annual Conference of Numismatic Society of India as well as to Organise National Seminar on *Coinage and Economy Continuity and Change in Northeast India*.

School of Social Sciences

Research Projects:

New Research Project:

Sl. No	Title of Project	PI/Co-PI	Funding Agency	Amount
1.	Automatic Recognition of Patterns in Numismatic Data	PI: Dr. Amit Kumar Upadhyay	UGC, New Delhi	11.25 lakhs
2.	Investigation of Rock Art in North Cachar and in the Surrounding Areas, Assam	PI: Dr. Tilok Thakuria	Lalit Kala Academy, New Delhi	Approved

On Going Project:

Sl. No	Title of Project	PI/Co-PI	Funding Agency	Amount
1.	Tribal Entrepreneurship: Self employment, Promotion of lively hood of educated unemployed youth with special reference to agency areas of West Godavary and Khammam Districts from Andhra, Telangana regions.	Dr. Doneti Sivaji	ICSSR, New Delhi	5 lakhs

Research Projects(s) completed during the Year:

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1.	Archaeological Investigation on Hollowed Monoliths of North Cachar, Assam	PI: Dr. Tilok Thakuria	Archaeological Survey of India, Guwahati Circle	Rs. 200000
2.	Indian Beads: History and technology	Co-PI Dr. Tilok Thakuria	Infinity Foundation, USA	\$ 4000

Academic Collaborations:

Department Collaborated with Archaeological Survey of India, New Delhi; Numismatic Society of India, Varanasi and A”chik Literature Society, Tura for academic works.

Other Activities:

Amit Kumar Upadhyay

Edited Annual Journal *Manaviki- A Journal of Humanities and Social Sciences*, Vol. VII (2014), Published by Society for Education and Social Welfare, Varanasi.

Assistant Editor, Journal of Numismatic Society of India, Vol. LXXVI (2014), Published by Numismatic Society of India, Varanasi.

Acted as Advisory Committee Member in the Research Today biannual Journal on Humanities and Social Sciences.

Advisory Committee Member of an *International Seminar on Entrepreneurship* organised by the Dept. of Management, NEHU, Tura Campus, Meghalaya.

Elected as Executive Council Member of Numismatic Society of India wef. 21/12/2014 for three years.

Attended Refresher Course on I.T. Inter-disciplinary at the UGC Academic Staff College Himanchal Pradesh University, Shimla and awarded ‘A’ grade, 7th July- 26th July 2014

Tilok Thakuria

Attended a *Workshop on Experimental Lithic Knapping and Microwear Studies*, Nagaland University, 15th - 22nd March, 2014.

Delivered Invited Lecture on “Recent Archaeological Research in Northeast India,” at Indian Institute of Science Education and Research, Mohali, 17th April 2015.

Attended a *Workshop on Experimental Research Methodology*, North Eastern Hill University, Tura, 22nd - 30th November, 2014.

Doneti Sivaji

Delivered an Invited Lecture on “Comprehensive Entrepreneurship” NOVA Engineering College, Aswaraopeta, Khammam District, Andhra Pradesh, 26th -28th March, 2015.

Delivered a special lecture on “Comprehensive Entrepreneurship” Department of Management, NEHU-Tura campus, 11th Dec 2014.

DEPARTMENT OF LAW

Head : Dr. Chintamani Rout

Telephone : 0364-2723801 (O); 9436336103 (M)

E-mail : drchintamanirout@gmail.com

Faculty :

Designation	Name and Qualification	Specialization
Associate Professor	J.J. Mozika, Ph.D (Law), University of North Bengal	Constitutional law & Administrative Law
	C. Rout, M.A. (Pol.Sc.), LL.M, Ph.D (Law) Utkal University, Bhubaneshwar	Commercial Law & Constitutional Law
Assistant Professor	R.K. Mishra, LL.M (B.H.U.), P.G. Diploma in Criminology, Lucknow University,	Intellectual Property Rights & Law of Crimes
	A.K. Singh, LL.M (B.H.U.), Ph.D.(Law)	Criminal law & Human Right
	Naveen Kumar, LL.M (Jamia Milia Islamia), Ph.D.(Law)	Corporate Law
	Ranjit Sil, LL.M, Ph.D.(Law) University of Burdwan	Labour Law & Environmental Law
	Shishir Tiwari LL.M. (BHU), M.Phil (JNU)	International Law
	Preeti Gupta, M.Sc. LL.M. (I.L.I., New Delhi), Ph.D (Law)	Environmental Law & Health Law

Thrust Areas of Research

The Department of Law, North Eastern Hill University (NEHU), Shillong was established in 2005. Over the past one decade, the Department has made significant progress in terms of restructuring courses and syllabi, introducing new course, experimenting with innovative

techniques of imparting legal education and strengthening its Clinical Programme in order to give due emphasis to the expanding horizon of legal profession.

The Department of law is at present offering a Five year Integrated B.A. LL.B (Hons.), Two Years LL.M , & the Research Programme.

The programme aims to achieve the following objectives:

- To advance and disseminate knowledge of law and legal processes in the overall context of national and global developments;
- To develop a broad and holistic perspective which would help the students to understand the intricate relationship of law with society, economy, polity and history;
- To develop the highest standards of professional skill, behavior and personal integrity.

Brief Statement of Academic Activities

The Department of Law is offering a Five Year Integrated B.A.LL.B (Hons.) Degree Course, Two Years LL.M Course & Ph.D Course in Law. The Department has organized various competitions like debate, quiz and moot courts among the students during the academic year. (1) The Legal Care & Support Centre was established by the State Legal Services

Authority, Meghalaya on 9th Feb, 2015 and inaugurated by Hon'ble Chief Justice Mr. Uma Nath Singh and in presence of Hon'ble Mr. Justice T.N.K. Singh Chairman of State Legal Services Authority and Justice S.R. Sen High Court of Meghalaya. (2) One day Training Programme on the topic: "Building a carrier in Law" was conducted by Mimansa Consult Us, Attorney & Solicitors & Consultants, New Delhi in the Dept. of Law on 4th March, 2015. (3) One extension lecture on International Law was delivered by a Professor (NAME) from O.P. Jindal Global University, Haryana on 30th March 2015 (4) Three Students of X Semester participated in the 7th GNLU International Moot Court Competition 2015 organized by Gujarat National Law University from February 4-8, 2015 (5) Another group of Three students of Semester X from the Dept. participated in K.K. Luthra memorial moot court competition organized by Delhi University, Delhi from 16-18 Jan, 2015.

Students' Profile

Enrolment Capacity: M.A/M.Sc. - Ph.D. – To be started

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
LL.M	-	7	3	2	8	9	1	10
B.A. LL.B(Hons)	1	55	4	21	39	55	5	60

Degrees Awarded:

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
LL.M	-	-	-	-	-	-	-	-
B.A. LL.B(Hons)	1	45	4	10	40	45	5	50

Placement of Students:

The students of Fifth Batch was passed out from the Dept. in the month of August, 2014, Seven of them admitted to LL.M. course and rest of them enrolled as Advocate. A placement cell is working under the university and brings desired facilities for the placement of the students in various Law Firms.

Courses Conducted:

Five year Integrated B.A.LL.B (Hons.)

Semester I

English I, Political Science I, Sociology I, Micro Economics, Law of Tort

Semester III

English III, Political Science III, Political Science IV, Sociology III, Special Contract

Semester V

Constitutional Law II, Jurisprudence, Law of Crimes II (CPC), Family Law II, Property Law

Semester VII

Company Law, Labour Law II, Honours I Copyright, Interpretation of Statutes & Principles of Legislation, Drafting, Pleading & Conveyance

Semester IX

Honours III Women & Criminal Law, Honours IV Trademark & Design, Honours V Health Law, Information Technology Law, Alternate Dispute Resolution

Postgraduate (LL.M)

Semester-I

Indian Constitutional Law, Criminology & Penology, Criminal Law in India & Cyber Crimes.

Educational Tour of Students

Teacher-in-Charge : Dr. I. Khongjoh & Mrs. M. Rani

Places/Institutions visited : High Court of Maharashtra

Duration of tour : January 4, 2015

Purpose of Tour : Legal observation

Seminars and Conferences Attended:

Chintamani Rout:

Presented a paper titled "Biological Diversity and Climate Change: National and International Prospective" in the *National Workshop on 'Maintenance of International Peace and Security: Contemporary Challenges in International Law'*, organized by National Law University and Judicial Academy, Assam, 24th - 25th May 2014.

Delivered an Invited lecture on "Legal Literacy (i) Rights, Duties and Entitlements (ii) Free Legal Services, Role of NALSA, SLISA and DLSA, organized by National Literacy Mission Authority (NLMA), Department of School Education and Literacy, Ministry of HRD, Government of India, in a Three Day Training Programme for Coordinators of Saakhar Bharat Programme of North Eastern Region, 18th - 20th March 2015.

J.J. Mozika:

Presented a paper titled "Legal Issues of Mental Health" in the two days *National Seminar on Issues of Mental Health Education* organized by the Dept. of Education, NEHU Shillong, 26th - 27th February 2015.

Presented a paper titled "Impact of the Entry of Foreign Educational Institutions in India" in the two day *International Conference on Quality of*

Higher Education in India and Global context organized by the Dept. of Education, NEHU, Shillong, 18th -19th March 2015.

R.K. Mishra:

Presented a paper titled "Traditional Ecological Knowledge and Biological Diversity Act, 2000: A Critical Analysis," in the *National Seminar on Sustainable Development: Environmental Awareness for a Secured Future*, organised by IQAC & Department of Botany, S.S.S.V.S. Government P.G. College, Chunar, Mirzapur (U.P) 6th -7th February 2015.

Presented a paper titled "Corporal Punishment of Children's in Schools in India: A psycho-legal perspective" in the *National Seminar on 'Juvenile Delinquency, Child & Law: Socio-cultural perspective'* organised by St. Andrew's College, Gorakhpur (U.P.), 14th -15th March 2015.

Naveen Kumar:

Delivered two Invited lectures on (1) "Role of Police for the Investigation of Corporate Crimes" (2) "Corporate Social Responsibility of the Company and the Human Rights Issues: Some Observations" in the ten days *Workshop on "Investigation of Economic & Corporate Offences"* organized by North Eastern Police Academy, Meghalaya for the Police Officers, 2nd -12th Sep, 2014.

Presented a paper titled "Sixth Schedule to the Constitution and its Judicial Interpretation: Some Reflection" in 35th Annual Conference of North East India History Association, Gargoan College, Siv Sagar, Assam, 10th -12th November 2014.

Delivered two invited lectures on (1) "RTI Acts and its Implementation" (2) "Constitution of India and Right to Information Act: An

Analysis" in the *Workshop for the Topic "Right to Information"* organized by North Eastern Police Academy, Meghalaya for the Judicial Officers, Joint Secretaries & Policies Officers of all the States of the Country, 23rd -25th March 2015.

Shishir Tiwari:

Presented a paper titled "Saving the Past for the Future: Reflections on the Contemporary Challenges to International Legal Protection of Cultural Heritage during Armed Conflicts and Way Forward," in the *National Workshop on Maintenance of International Peace and Security: Contemporary Challenges in International Law*, organized by National Law University and Judicial Academy, Assam, 24th - 25th May 2014.

Presented a paper titled "Exploring the Legal Nuances of Freedom of Speech and Expression on Social Media: Indian Perspective," in the *National Seminar on 'Social Media and Democratic Discourse'*, organized by Department of Journalism and Mass Communication, EFL University, Shillong Campus, 30st - 31st October 2014.

Presented a paper titled "Demystifying the Clouds: Privacy and Data Security Issues in Cloud Computing and Indian Legal Framework," in the *National Seminar on 'Cyber Security & Cyber Laws - Issues & Concerns'*, organized by Advanced Centre for Research, Development & Training in Cyber Laws & Forensics [ACRDTCLF], National Law School Of India University, Bengaluru, 27th - 28th December 2014.

Preeti Gupta:

Presented a paper titled "Exploring the Legal and Human Rights Dimensions of HIV in

India,” in the *International Conference on Youth, Gender and HIV* organized by Amity University, Lucknow, 12th -13th August 2014.

Presented a paper titled “Embracing Institutional Accountability in Higher Education,” in the *International Conference on Quality of Higher Education in Indian and Global Context*, organized by Department of Education, NEHU, Shillong, 18th -19th March 2015.

Publication

Research Papers

Mozika, J.J. (2013). The Forest Rights Act, Addressing the Issue of Development Induces Displacement of Tribals and Traditional Forest Dwellers”, *D.U. Law Journal*, 1 (1), 80-84, ISSN-2348-6597.

Rout, Chintamani. (2014). International Labour Organization: Its Mission And Objectives with Global Reference. *Indian Journal of Law and Justice*, 5 (1) 17-21, ISSN: 0976-3570,

Rout, Chintamani. (2014). Equality and Law under the Constitution of India, *Orient Journal of Law and Social Sciences*, VIII (V), 8-14. ISSN 0973-7480

Rout, Chintamani. (2014). Abolition of Untouchability and Role of Human Rights and Constitutional Law in India. *Global Journal of Socio-Legal Studies Internationally Index Peer reviewed & Refereed Journal*, 1-5. ISSN: 3333-3333

Rout, Chintamani. (2014). Law of Consumer Protection, *Scholar Journal of Arts Humanities and Social Science (SJAHSS)*, 2(4B), 543-549. ISSN: 2347-9493.

Rout, Chintamani. (2014). Position and Status of Child: A Legal Protection. *The Indian Journal of Legal Studies*, XXIX, 47-54.

Rout, Chintamani. (2014). Women Right vis-à-vis Human Rights, *Indian Human Rights Law Review*, 5 (2), 237-240 (7), ISSN 2230-7036.

Mishra, R.K. (2013-14). Hi-tech Crimes and police administration in India, Problems and challenges. *Chotanagpur Law Journal*, 7-8, 144-59.

Singh, A.K. (2014). Human Rights and Problems of Enforcement: An Analysis with Special Reference to India, *Vidhik Chetna, a Research Journal of Juridical Science*, VII, 2014, 138-148, ISSN: 0976-9684.

Singh, A.K. (2014). The Rhetoric of Right to Information in India, *Burdwan University Law Review*, 9-19, ISBN 978-81-925800-4.

Singh, A.K. (2014). Case Analysis of Kolla Veera Raghav Rao and Ors v Gorantia

Venketeswaran Rao, *AIR 2011 SC 641, Law Review*, 34, 2014-15, 101-109.

Tiwari, Shishir. (2014). Governance of Corporate Environmental and Social Responsibilities in India, Sketching the Contour of Legislative Evolution and Reforms. *Indore Management Journal*, 6(1), 35-59.

Tiwari, Shishir. (2014). Health - A Human Right?, *National Journal of Comparative Law*, 1(1), 13-29.

Tiwari, Shishir. (2014). The Evolving Jurisprudence of Rape as War Crime, *International Journal of Law and Legal Jurisprudence Studies*, 1(6), 1-43.

Tiwari, Shishir. (2014). From Conflict to Accord and a Decade Thenceforth- The Plight of Internally Displaced Persons in Bodoland and the Law, *Elixir International Journal*, 70: 24149-24157.

Gupta, Preeti. (2014). Towards Preservation of Traditional knowledge through Traditional Knowledge Digital Library (TKDL) in India. New Voices, *Multilingual International Journal of Multidisciplinary Studies*, II (V), Jan. 2014, 124-129.

Gupta, Preeti. (2014). Problem Of Elder Abuse and its Implications upon Women, *International Journal of Multidisciplinary Approach and Studies (e-journal)*, 1(2), April 2014, 117-127.

Gupta, Preeti. (2014). Achieving Sustainable Development Through Resource Efficiency, (International Conference Proceedings), *International Journal of Business Management and Social Sciences*, III (1), May 2014, 10-12.

Book / Book Chapters / Proceedings

Rout, Chintamani. (2015). Status of Girl Child in India: A Socio-Legal Study of Girl Child, Eds. Alankar Kaushik and Abir Suchiang. Child Rights in North east India, Perspectives on Media, ISBN: 978-93-83403-07-3

Singh, A.K. (2014). Corporate Law and Governance, (ed) Dr. Arun Kumar Singh, Regal Publications New Delhi, ISBN 978-81-8484. ISSN: 0976-9684.

Singh, A.K. (2014). Partnership and Limited Liability: A Comparative Analysis of Indian Partnership Act, 1932 and Limited Liability Partnership act, 2008, *Corporate Law and Governance (ed) by Dr. Arun Kumar Singh, Regal Publication New Delhi, 2014, 29-39* ISBN 978-81-8484.

Singh, A.K. (2014). Human Rights and Tribal in India: a Socio-Legal Discourse, *Human Right*

and Social Justice (ed) by Dr. Arun Kumar Singh, VL Media Solution, Uttam Nagar, New Delhi, 2014, 173-178, ISBN: 978-93-80820-84-2.

Singh, A.K. (2014). Legal Education in India: Need for Reform in Contemporary Issues on International Law, *International Trade, Information Technology and Legal Education (ed) by BC Nirmal and Rajnish Kumar Singh, Satyam International Publisher, 2014, 639-646, ISBN 978-93-82823-08-7.*

Kumar, Naveen. (2014). Oppression and Mis-Management vis-à-vis Arbitration Agreement: An Enquiry, Dr. Arun Kumar Singh (ed) Corporate Law and Governance, Regal Publication New Delhi, 247-270.

Sil, Ranjit. (2014). Environmental Crime vis-à-vis Corporate Criminal Responsibility: *Prospect and problem in defining and determining published in Corporate Law and Governance (ed) by Dr. Arun Kumar Singh Regal Publication, New Delhi, 2014, 43-56, ISBN 978-81-8488.*

Tiwari, Shishir. (2014). Intellectual Property Rights Protection of Fashion Design in India, A Panoramic View. In *Intellectual Property Rights: A Prismatic View*. S. C. Roy (Ed.). Radha Publication, New Delhi, Chapter 19, 315-346.

Tiwari, Shishir. (2014). Protection of the Outer Space Environment under International Law, Lap Lambert Academic Publishing, Germany.

DEPARTMENT OF POLITICAL SCIENCE

Head : Prof. R. Borgohain

Telephone : 0364-2723035 (O), 9436111871 (M)

E-mail : hodpolsc@nehu.ac.in , nehupoliticalscience@gmail.com

Faculty :

Designation	Name and Qualification	Specialization
Professor	R. Borgohain M.A. & M.Phil (Jawaharlal Nehru University), Ph.D (Gauhati University)	Gender Studies, Indian Government & Politics
	L.S. Gassah M.A., M.Phil & Ph.D (N.E.H.U.)	Government & Politics in North East India
	K. Debbarma M.A., M.Phil & Ph.D (N.E.H.U)	Politics of Migration in Northeast India, Human Rights Development Administration
	H. Srikanth M.A.& Ph.D (Hyderabad University)	Political Theory, Political Economy, Social Movements.
	R. K. Satapathy M.A.&M.Phil (Sambalpur University) Ph.D (N.E.H.U)	International Politics, Political Theory and Electoral Politics.
	T. T. Haokip M.A. & Ph.D (N.E.H.U)	Foreign Policy, Public Administration, North East India.

Associate Professor	Susmita Sen Gupta M.A., M.Phil & Ph.D (N.E.H.U)	Indian Government & Politics w.s.r. to Government & Politics of North-East India.
	Munmun Majumdar M.A., M.Phil & Ph.D. (Jawaharlal Nehru University)	Southeast Asia, South China Sea
Assistant Professor	Biswajit Mohapatra M.A. (Delhi University) M.Phil & Ph.D (Jawaharlal Nehru University)	International Politics
	S. Bhattacharjee M.A., M.Phil & Ph.D (Jawaharlal Nehru University)	International Politics and trade.

Thrust Areas of Research

Contemporary Issues in Indian Politics and Politics of North East India.

Brief Statement of Academic Activities

The Department of Political Science, established in 1974, aims at building an academic community of students, researchers and teachers devoted to an open, critical and analytical study of the discipline with an emphasis on inter-disciplinary approach. It also aims at making courses and research work socially relevant and developing in the students an awareness of the basic issues and problems in

the discipline so as to equip them intellectually to fulfill these needs.

With the strength of 10 faculty members, the department has 104 students on its roll at the M.A. level. The department admits M.Phil and Ph.D scholars who undergo course work for one semester followed by dissertation/thesis writing on proposals approved by the School Board of Social Sciences. At present there are 68 research scholars who are engaged in M.Phil and Ph.D programme of the Department. The Department is in DRS Phase II of SAP. The thrust area of SAP is "Political Economy of North East India.

School of Social Sciences

Students' Profile

Enrolment Capacity: M.A/M.Sc. - Ph.D. – Variable

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
M.A.	-	51	1	29	23	26	26	52
M.Phil.	-	1	5	2	4	-	6	6
Ph.D.	-	4	2	4	2	3	3	6

Degrees Awarded

Degree	OBC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
M.A.	-	45	-	17	28	14	21	45
Ph.D.	-	3	2	3	2	-	5	5

Students Awarded Ph.D. Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)
Ms. Vanthangpuii Khobung	Politics of Rural Development and Poverty Alleviation: A Study of Swarnjayanti Gram Swarozgar Yojana Programme in Churachandpur District of Manipur.	Prof. R. Borgohain
Mr. L. B. Hemkhomang	Electoral Politics in Manipur: A Study of 2007 Assembly Election in Churachandpur District.	Prof. L. S. Gassah
Mr. Amar Jit Singh Bhui	Role of Opposition in Assam Legislative Assembly 1985-2006.	Prof. K. Debbarma
Mr. Ch. Sekholal Kom		Prof. T. T. Haokip
Ms. Sayistha Baruah	Women in Public Space: A Study of Women's Representation in Assam Legislative Assembly.	Dr. V. Bijukumar

Placement of Students

UGC - PG Merit Scholarship for University Rank Holders: 1

Qualified NET: 2

Research scholars availing various kinds of fellowship:

UGC-NET SRF – 4

UGC-NET JRF – 2

Rajiv Gandhi National Fellowship for SC/ST = 9
ICSSR = 4

Maulana Azad National Fellowship for Minorities = 1

Non-NET Fellowship = 26

Students passing out from this Department are placed in high government services like the I.A.S., I.P.S. and State Civil Services and in many research and teaching institutions including Central Universities and accredited colleges. The students are also placed in high posts in public sector and reputed private organizations.

Courses Conducted

Postgraduate

Semester-I : All Core Courses are Compulsory Credit

POL-C.101: Liberal Political Theory - 4

POL-C.102: Theory of International Politics - 4

POL-C.103: Major Concepts and Issues in Public Administration - 4

POL-C.104: Indian Political System - 4

POL-C.105: State Politics in India with special reference to North-East Politics (I) - 2

Semester-II : Three Compulsory, one Optional Core Courses and one Open Course

Compulsory Core Courses:

POL-C.201: Marxist Political Theory - 4

POL-C.202: Problems of International Politics - 4

POL-C.203: State Politics in India with special reference to North-East Politics (II) - 2

Optional Core Courses:

POL-C.204: Third World Political Theory - 4

POL-C.205: Administrative Theory - 4

POL-C.206: East and South-East Asian Political Systems - 4

POL-C.207: West Asian Political Systems - 4
(Students to choose any one from the above)

Open Courses:

POL-O 208: Government and Politics in N. E. India - 4

POL-O 209: Democracy in India - 4

POL-O 210: Modern Indian Political Ideas. - 4
(Students to choose any one from the above)

Semester-III :

Compulsory Core Courses:

POL-C 301: Contemporary Political Theory - 4

POL-C 302: Research Methodology (I) - 2

Optional Core Courses:

POL-C 303: Issues in Women's Studies - 4

POL-C 304: International Law and International Organisation - 4

POL-C 305: South Asian Political Systems - 4

POL-C 306: African Political Systems - 4
(Students to choose any one from the above)

School of Social Sciences

Open Courses:

- POL-O 307: Globalisation - 4
POL-O 308: Politics of Social Movements - 4
POL-O 309: Women and Political Theory - 4
POL-O 310: Development Administration - 4
POL-O 311: Issues in Environmental Politics - 4
(Students to choose any two from the above)

Semester-IV : Three Compulsory and Two Optional Core Courses

Compulsory Core Courses:

- POL-C 401: Major Debates in Political Theory- 4
POL-C 402: Comparative Politics - 4
POL-C 403: Research Methodology (II) - 2

Optional Core Courses:

- POL-C 404: Political Ideology - 4
POL-C 405: Political Sociology - 4
POL-C 406: Foreign Policy of Major Powers - 4
POL-C 407: Indian Political Economy - 4
POL-C 408: Human Rights - 4
(Students to choose any two from the above)

M.Phil/Ph.D. Courses

Course Structure

Duration of the course: One semester

Compulsory:

PSc. M/P – I (c) - Research Methodology (4 credits)

PSc. M/P – II (c) - Issues and Processes in the Politics of North East India (4 credits)

Optional: **Any One** from the following: (4 credits)

PSc. M/P – III (o) : Issues in Indian Politics

PSc. M/P – IV (o) : Women and Politics in North East India

PSc. M/P – V (o) : Critical Perspectives on Knowledge and Power

PSc. M/P – VI (o) : Advanced Studies in International Politics

PSc. M/P – VII (o) : Environmental Politics.

Second Semester: Dissertation Work

Seminars/Conferences/Symposia/Extension Programmes etc.

Organized

K. Debbarna :

Organized one day *SAP International Conference on Universal Peace: Our Shared Responsibility*, at ICSSR-NERC Conference Hall, NEHU Campus, Shillong, 5th September 2014.

Attended:

T.T. Haokip:

Presented a paper titled “Democratic governance and Traditional institutions in Manipur” at a *National Seminar on Civil Society and Democracy in North East India* at Indira Gandhi National Tribal University – Regional Campus, Manipur, 5th-6th August 2014.

Presented a paper titled “Local Self Government and the Tribal in North East India with special reference to Meghalaya” in *National Seminar on Democratic Decentralization and the Tribals in North East India*, Manipur University, 16th-17th January 2015.

Susmita Sen Gupta:

Presented a paper titled “Extremist Politics as a Catalyst to Ethnic Assertions among

the Bodos of North East India” in the *Fifth Asian Conference on Social Sciences (ACSS)* organized by International Academic Forum (IAFOR) in Osaka, Japan, 12th -15th June 2014.

Presented a paper titled “Academia-Community Interface and the North-Eastern Hill University – An Overview in the Consultative Workshop titled Dialogue on Strengthening Community Engagement in Higher Education Institutions organized by IIT, Guwahati, Department of Humanities and Social Sciences in association with the British Council and the Society for Participatory Research in Asia (PRIA), in IIT, Guwahati, 17th -18th September 2014.

M. Majumdar:

Presented a paper titled “China as a Factor in India-Myanmar Relations” in *International Conference on “India-China Relations: Implications for Peace and Prosperity of Asia”* at Centre for Southeast Asian and Pacific Studies, Sri Venkateswara University, Tirupati, 11th -13th October 2014.

Presented a paper titled “Border Fencing in Manipur: Implication for the Border Communities” in *International Conference, Reimagining India’s North East: Narratives, Networks and Negotiations, Centre for North East Studies and Policy Research*”, Jamia Millia Islamia University, New Delhi, 4th -6th February 2015.

S. Bhattacharjee:

Presented a paper titled “Made in South: A Better Globalisation?” in the *International Conference on An Alternate Globalisation from South: Dynamics of International Business and Finance in Emerging Economics*” organized by Centre for Management Studies, Jamia Millia Islamia, New Delhi, 19th -20th September, 2014.

Presented a paper titled “Globalisation, Farmers Suicide in a Frame of 204 minutes in the *National Seminar on History of Hundred years of Indian Cinema*” organized by Department of History, CKT College, Mumbai, 24th -25th January 2015.

Chaired a Session on ‘Hindi Cinema at a glance’, in the *National Seminar on “History of Hundred years of Indian Cinema”* organized by the Dept. of History CKT College, Mumbai, 24th-25th January 2015.

Biswajit Mohapatra:

Presented a paper titled “ICT and Quality Education in the Emerging Networked Society,” Int. Rund table: Inclusion in the Network Society – Mapping Development Alternatives, Forging Research Agendas, Bangalore, India, 29th September – 1st October 2014.

Presented a paper titled “Panchayati Raj: Institutions and the Challenges of Promoting Financial Inclusion amongst the Rural Masses,” in the *National seminar on Panchayati Raj as an Instrument of Rural Development with support from financial Institutions* organized by SBI Chair and CRRID, Chandigarh, 27th -28th November 2014.

Presented a paper titled “Pluralism and the Inclusiveness: Emerging Challenges for Governance in North East India,” in the *International seminar on Celebrating Multiple Identities in India*, jointly organized by the UNESCO Chair for Peace in Collaboration with Temple of Understanding, (India) & Peace Research Institute, Oslo (PRIO). at Banaras Hindu University, 29th -30th November 2014.

Presented a paper titled “Human Rights Education and North Eastern India: Panoramic View of Needs & Strategies,” in the *Annual Conference of Indian Association of Social*

Science Institutions (IASSI), Manipur University, Imphal, 27th -28th February 2015.

Publications

Research Papers:

Published in India

Gassah, L. S. (2014). The State of Meghalaya: Its People's Involvement in Democratic Movement, Man and Society, *A Journal of North-East Studies*, Vol.XI, Winter 2014, ICSSR-NERC, Shillong, 7-29

Srikanth, H. (2015). Ethnic Militancy in Assam : Whom to Blame? *Economic and Political Weekly*, L (5).

Srikanth, H. (2014). Between Balance and Bias : In Defence of Telangana. *Economic and Political Weekly*. XLIX (33)

Srikanth, H. (2014). Student Organizations and Social Movements in North East India. *Man and Society: A Journal of North-East Studies*. XI (Winter), 30 41.

Srikanth, H. (2014). Construction and Maintenance of Ethnic Boundaries. *Man and Society: A Journal of North-East Studies*. XI (Summer), 34 48.

Srikanth, H. (2014). Who in North east India are Indigenous? *Economic and Political Weekly*, XLIX (20), 41 46.

Satpathy, R. K. (2014). Civil Society and State: Public Domain Interface in the book *Civil Society, Voluntary Sector and Social Transformation in India*, B. Panda (Eds.), Guwahati, EBH Publications, 15-31.

Sen Gupta, Susmita. (2014). Transformation and Consolidation of Bodo identity: An enquiry into the role of the middle class. *The Standard International Journals*. 2:3: 123-127.

Sen Gupta, Susmita. (2014). Extremist Politics as an Instrument of Ethnic Assertion among the Bodos of North East India. *International Journal of Journalism and Mass Communication*, 4:8: 527-534.

Majumdar, M. (2015). The ASEAN Way of Conflict Management in the South China Sea, *Strategic Analysis*, Routledge, Taylor & Francis, 39.1, January 2015, 73-87.

Majumdar, M. (2014). Myanmar/Burma, India and US, OUCIP Journal of International Studies, *Special Issue on Indo-US Relations*. Vol.2, Number 1, January-June 2014, (Osmania University Centre for International Programmes, Hyderabad.),9-29.

Mohapatra, Biswajit. (2014). Positive Discrimination and Political Empowerment of the Scheduled Castes: An Analysis, *Journal of Political Science* (ISSN 0976-8254), X (1), April, 69-74.

Mohapatra, Biswajit. (2014). China-India Strategic and Cooperative Partnership: Challenges and Opportunities, SPECTRUM (ISSN 2349-2929), published by St. Anthony's College (College with Potential for Excellence), Shillong. 1, 176-181.

Books/Book Chapters/Proceedings

Gassah, L.S. & Thomas C .J. (2015) . *Democracy and Development in India's North-East : Challenges and Opportunities*, Book Well, Delhi

Sen Gupta, Susmita. (2015). Women and Political Representation in Meghalaya – Some observations. In *Dynamics of Gender Disparity-North East Lens*, Sutapa Sengupta, Saifun Nessa and Sarbani Das Gupta (Eds.), Eastern Book House, Guwahati: Chapter 6, 56-6

Mohapatra, Biswajit. (2015) Traditional Tribal Institutions and Inclusive Development: Perspectives on Empowerment and Mobilization, In *Democracy and Development in India's North-East: Challenges and Opportunities*, Gassah, L.S. and Thomas, C.J. (Eds), 363-372, (ISBN: 978-93-80574-74-5).

Mohapatra, Biswajit. (2014). Cooperative Federalism, Competitive Regionalism and the Role of Regional Parties led Coalition Governments in the Present Era, In *Federalism in India: Towards a Fresh Balance of Power*, Lancy Lobo, Mrutujanaya Sahu and Jayesh Shah (Eds.), Rawat Publications, Jaipur & Delhi, 223-233, (ISBN 978-81-316-0659-9).

Mohapatra, Biswajit. (2015). India's Look East Policy: Stemming the Drift in "India's North-East and Asiatic South-East: Beyond Borders", Malhotra & Gill (Eds.), CRRID, Chandigarh, March 2015, 25-36 (ISBN:978-81-85835-74-8).

Other Activities:

L. S. Gassah:

Editor of *Man and Society*, A Journal of North-East Studies, ICSSR-NERC, Shillong.

H.Srikanth

Delivered an Invited lectures on "Caste System in India" on 12th September, 2014. in Special Summer School organized by Academic Staff College, NEHU, Shillong.

Nominated as the member of UGC Expert Committee for selection and evaluation of Major

Research Projects in Political Science and Public Administration, which met on 23rd September, 2014 in the UGC Office in Delhi.

Delivered an Invited lectures on 20th February, 2015 on two topics, "Structure of Academic Writing" and "Review of Literature" in ICSSR sponsored workshop on Capacity Building Programme for Social Sciences for Faculty Members organized by ICSSR_NERC, Shillong.

Delivered an Invited lecture on "Understanding Corruption" on 30th February, 2015 in Orientation Programme organized by Academic Staff College, NEHU, Shillong.

Delivered a Key Note Address in the Inauguration of 10 Days "Workshop on Research Methodology" in Tripura University, Agartala, on 21st March, 2015

Delivered an Invited lectures on 23rd and 24th March, 2015 on "Marxist Dialectical Method", "Feminist Methodologies" and "Post-modernism" in 10 days Workshop on Research Methodology organized in Tripura University, Agartala.

Nominated as the observer for ICSSR sponsored 10 Days Workshop on Research Methodology, organized in Tripura University, Agartala from March 21st to March 30th, 2015

Nominated as the member of UGC Expert Committee for selection of candidates for Ishaan uday Scholarships 2014-15. The committee met on 30th-31st March, 2015 in the UGC office in Delhi.

R. K. Satpathy:

Conducted Election Survey in the 2014 Lok Sabha Elections for Meghalaya State as Loknity State Coordinator.

K. Debbarma:

Delivered a key note address and chaired two academic sessions in the National Seminar on

Empowerment of Tribal Women, organized by Women's College, from 13th - 14th February 2015, Agartala, Tripura

Delivered two lectures on Development of the Concept of Human Rights on 24th February 2015 in the UGC sponsored Orientation Course in Academic Staff College, NEHU, Shillong.

Participated as resource person in the *National Seminar on North East Indian Culture, space and other Dimensions* on 16th March 2015 organised by Central Institute of Himalayan Culture Studies, Dahung, Arunachal Pradesh. Also chaired one academic session in the same seminar.

T. T. Haokip:

Delivered two lectures in a Refresher Course organized by the Department of History at Academic Staff College, NEHU, Shillong on 5th - 8th December, 2014.

M. Majumdar:

Delivered two lectures on India's Look East policy in Gedu College, Bhutan on 24th and 25th July 2014.

Delivered Key note address at the UGC *National Seminar on "Insurgency and its Impact on Socio-Economic Development in India with reference to the North East"* organized by Kamargaon College, Golaghat, 4th -5th November 2014.

Biswajit Mohapatra:

Delivered an Invited lectures on 'Preventing Crimes and Violence Against Women in Meghalaya: Rationale and Perspectives ' at Nongtalang College, Jaintia Hills, Meghalaya on 25th July 2014, as part of Meghalaya Chief Minister's Special Scheme for Raising Public Awareness for Curbing of Crimes and Violence Against Women in Meghalaya.

S. Bhattacharjee:

Delivered three lectures on topics titled, "Road Map to Globalisation: Where to spot South? Dated 26/11/2014, 'Globalisation and Human Trafficking' dated 28/11/14 and 'TRIPS and indigenous Knowledge' dated 2/12/2014 on the Refresher Course organized by the Dept. of Political Science at Academic Staff College, NEHU, Shillong.

DEPARTMENT OF SOCIOLOGY

Head : Prof. I.L. Aier
Telephone : 0364-2723040 (O)
E-mail : hodsoc@nehu.ac.in
Faculty :

Designation	Name and Qualification	Specialisation
Professor	C.L. Imchen, M.A., M.Phil., Ph. D. (JNU)	Political Sociology; Polity Formation and Indigenous Peoples
	Lanu Aier, M.A., M. Phil., Ph. D. (NEHU);	Political Sociology; Sociology of Religion; Ethnic Relations
	A. K. Nongkynrih, M.A., M. Phil., Ph. D. (NEHU)	Sociology of Kinship, Sociology of Organisations, Sociology of Rural Development
	D. V. Kumar, M.A., M. Phil., Ph.D. (JNU);	Modernization, Ethnicity and Social Change
Associate Professor	B. Panda.M.A.,M.Phil. (Hyd.), Ph. D. (IIT/ Kanpur);	Sociology of Third Sector, Sociology of Development
Assistant Professor	Rekha M. Shangpliang, M.A., M. Phil., Ph.D. (NEHU);	Sociology of Environment Sociology of Family and Kinship
	Md Yusuf Khan, M.A. (AMU), M. Phil (DU)	Urban sociology, Ethnicity

School of Social Sciences

Thrust Areas of Research:

Social Change

Brief Statement of Academic Activities:

The Department is concentrating on understanding changes taking place in the societies of the region. The Department of Sociology began instructions at M. A., M. Phil., and Ph. D. levels in 1976. Besides teaching and supervising research the faculty engages in individual research activities as well. With the existing faculty expertise, the Department has developed research excellence in the studies of political dynamics and Social

Movements, emerging accommodation between native systems and the Nation State, ethnic identity, Globalisation and its impact on the North-Eastern Region, land and privatization of communal lands, rural developmental schemes and policies and traditional political institutions, Non-Governmental Organizations. Moreover, faculty members have been involved in their own capacities in community extension programmes, development of evaluation tools, documentation of Khasi indigenous forest management with reference to environment, evaluative research on community approach to handicap in development.

Students' Profile

Enrolment Capacity: M.A/M.Sc. Ph.D – Variable

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
M.A	-	47	1	13	35	18	30	48
M.Phil	-	-	-	-	-	-	-	-
Ph.D	-	-	-	-	-	-	-	-

Degrees Awarded:

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
M.A	-	1	-	-	1	-	1	1
M.Phil	-	-	-	-	-	-	-	-
Ph.D	-	1	2	-	3	1	3	3

Students Awarded Ph.D Degree

Name of Student	Title of Thesis	Name(s) of Supervisor(s)/ Joint Supervisor
Ms Dipanjali Deb	A Sociological Study on the Status of Educated Bengali Working Women in Shillong	Prof. C.L. Imchen 11 th December, 2014
Ms Fiasta T. Diengdoh	A Sociological Study of the Retired Government Employees among the Khasis	Prof. C.L. Imchen 9 th December, 2014
Ms Nila Dutta	Working Women in Decision-making Process: A Sociological study of the Educated Bengali Women	Prof. C.L. Imchen 12 th September, 2014

Courses Conducted:

Postgraduate:

Semester-I

Sociological Theories – I, Methodology of Social Research – I, Sociology of Family and Kinship, Indian Society – I, Indian Society – II

Semester-II

Sociological Theories – II, Methodology of Social Research – II, Sociology of Religion, Indian Society – III, Open Course

Semester-III

Economy and Society, Political Sociology, Sociology of Development, Tribal Movements in India, Open Course, Open Course

Semester-IV

Social Change, Sociology of Environment, Anthropological Theories, Industrial Sociology.

M.Phil:

SOC P 01: Designing Sociological Research, SOC P 02: Sociological Concepts, SOC P 03: Advanced Sociological Theory

Ph.D:

SOC P 01: Designing Sociological Research, SOC P 02: Sociological Concepts, SOC P 03: Advanced Sociological Theory.

Seminars/Conferences/Symposia/Extension Programmes etc.

Organized:

R.M. Shangpliang :

Organised a Symposium on “Waste Management and Civic Sense” to commemorate World Environment Day by Department of Sociology, NEHU, Shillong on 5th June 2014.

Attended:

A.K. Nongkynrih:

Chief Guest on the occasion of Librarian's Day Celebration organised by the Meghalaya Library Association, Shillong, 12th August 2014.

Delivered a Key note address on "Trends in Society" in the 1st Meghalaya Scout/Guide Education Congress, Shillong, 24th September 2014.

Presented a paper on "Modernisation and Tribal Lands", in a *Workshop on Codification of Land Related Customary Laws in Northeastern States: Challenges and Prospects*, organised by the Centre for Rural Studies, Lal Bahadur Shastri Academy of Administration, Guwahati, 19-20 February, 2015.

Presented a paper on "Community Participation and National Social Service", in a *National Seminar on Role of NSS in Nation Building: Scope and Challenges*, organised by NSS Cell, NEHU, Shillong, 5-6 March, 2015.

Presented a paper on "Sociological Research and Single Parent Households" in the *National Consultation on Issues Related to Single Mothers*, organised by Meghalaya State Commission for Women, Shillong, 21st April, 2015.

B. Panda

Presented a paper entitled "Participatory Community Development and Formation of Social Capital: Role of Third Sector Organizations" at XL All India Sociological Conference organized by the Department of Sociology Mahatma Gandhi Kashi Vidyapith, Varanasi, 29th November -1st December, 2014. Also chaired a technical session.

Publications

Books/Book Chapters/Proceedings

Aier, I.L. (2014). *The Naga Club: Reconstruction from the Spectrum of Oral History of Ethnic Genesis, Ethnicity and Resultant Political Permtations*. Rawat Publication, New Delhi

Nongkynrih, A.K. (2014). Organisations and Tribal Societies of North-East India: A Social –Historical Perspective. In *Civil Society, Voluntary Sector and Social Transforamtion in India*. Biswambhar Panda(Ed.).EBH Publishers, Guwahati:Chapter 10, 151-191.

Kumar, D. V. (2015). Modernization and Ethnicity: The Context of Telugus in Benglauru. In *Gender, identity and Multiple Marginalities*. Ishwar Modi (Ed.). Rawat Publications, Jaipur : Chapter 14, 220-237.

Kumar, D. V. (2014). State and Civil Society in Mizoram : Situating the Young Mizo Association. In *Civil Society, Voluntary Sector and Social Transformation in India*. B. Panda (Ed.).EBH publishers, Guwahati : Chapter 11, 205-215.

Kumar, D. V. (2014). Ethnicity, Nationalism and Modernity : Exploring the Linkages. In *Modernity and Ethnic Processes in India*. D. V. Kumar (Ed.), Rawat Publications, Jaipur: Chapter 6, 101-112

Kumar, D. V. (2014). Modernity and Ethnic Processes in India, Rawat Publicatioins : Jaipur

Panda, B. (2014). Tradition, Modernity and Traditional Institutions. In *Globalisation and Traditional Institutions in North-East India*. R.K. Satapathy (Ed.) Lakshi Publishers & Distributors, New Delhi: Chapter 2, 40-56.

Panda, B. (Ed.). (2014). *Civil Society, Voluntary Sector and Social Transformation in India*, EBH Publishers: Guwahati.

Panda, B. (2014). Voluntary Organizations: Issues and Challenges *In Civil Society, Voluntary Sector and Social Transformation in India*. Biswambhar Panda (ed.) EBH Publishers, Guwahati: Chapter 4, 43-57.

Shangpliang, Rekha. (2013). Development and Conflict: The legacies of Forest Management Policies in India: A Case Study in Khasi and Jaintia Hills. *In Modernity and Ethnic Processes in India*. D.V Kumar (Ed.). Rawat Publications: Jaipur, Chapter No. 10, 148-159.

Shangpliang, Rekha. (2015). Forest Livelihood and Gender: Livelihood Strategies of Khasi Rural Women. *In Dynamics of Gender Disparity: North East Lens*. S. Sengupta, Saifun Nessa et al (Eds.). EBH Publishers, PLACE Chapter No. 25, 297-305.

Khan, Md. Yusuf. (2015). Muslim Minority in Manipur: Challenges of Development. *In Democracy and Development in India's North-East: Challenges and Opportunities*. L.S. Gassah and C.J. Thomas (Eds.). Bookwell: PLACE chapter 16, 261-277.

Other Activities:

A.K. Nongkynrih

Panelist in a Panel Discussion on “The Philosophy and Essence of Niam Khasi”, CALM Festival organised by Department of Arts and Culture, Government of Meghalaya, Shillong, 24th May 2014.

Panelist in a Panel Discussion on “Raise Your Voice and Not the Sea Level”, in Programme for Celebration of World Environment Day, organised by IBDLP, WIF and Government of Meghalaya, Shillong, 5th June 2014.

Guest Speaker in the Annual General Meeting of the Meghalaya Editors and Publishers Association, Shillong, 26th July 2014.

Delivered an Invited lectures on “Research Design”, organised by Shillong Commerce College, Shillong, 2nd August 2014.

Panelist in a Panel Discussion on “Society for All: Is Egalitarian Possible?” organised by ICFAI University, Meghalaya, Shillong, 25th September, 2014.

Delivered an Invited lectures on the “Sixth Schedule in Meghalaya” in the Orientation Programme for IAS Probationers of 2013 Batch Assam – Meghalaya Cadre, Shillong, 8th October 2014.

Delivered an Invited lectures on “Juvenile Justice System: Sociological Dimensions” in a *Workshop on Juvenile Justice*, organised by Meghalaya State Legal Services Authority, Shillong, 18-19 October, 2014.

Panelist in a Panel Discussion on “Juvenile Delinquency”, organised by the Department of Political Science and Sociology, Shillong College, Shillong, 3rd November, 2014.

Delivered a Talk on “Youth Leadership” organised by Seng Samla Sohbar, Shillong, 4th November 2014.

Panelist in a Panel Discussion on “Transparency in Public Affairs: Role of the Press” as part of the National Press Day, organised by the Meghalaya Information and Public Relations, Shillong, 15th November 2014.

Delivered a talk on “Role of Youth for Constructive Activities” in the State level National Integration Camp organised by the Nehru Yuva Kendra, Shillong, 25th February, 2015.

B. Panda:

Delivered an Invited lectures at Inauguration of Orientation Programme for 2014 Batch of

School of Social Sciences

USTM at University of Science & Technology, Meghalaya on 23rd August, 2014.

Delivered one lecture on “Role of NGOs in Community Development” 12th November, 2014 in Refresher course on “Community Education” organized by the Department of Adult and Continuing Education, NEHU in collaboration with UGC-Academic Staff College, NEHU, during 27th October -16th November 2014.

Chaired a session (I- B) in RC 15 of All India Sociological Conference on 29th November, 2014 at XL All India Sociological Conference organized by the Department of Sociology

Mahatma Gandhi Kashi Vidyapith, Varanasi held during 29th November- 1st December, 2014.

Delivered one lecture on “Voluntary Sector: Theoretical Aspects” on 6th December, 2014 in Refresher course on State, Civil Society & Globalization organized by Political Science Department, NEHU in collaboration with UGC –Academic Staff College, NEHU, during 20th November – 10th December 2014.

Delivered an Invited lectures on 13th February, 2015 in a *Workshop on Capacity Building Programme for Social Science Faculty members* organized by ICSSR-NERC Shillong held during, 9-21 February, 2015.

VIII

SCHOOL OF TECHNOLOGY

Dean : Prof. P. V. Koparkar
Telephone : 0364- 2723601/ 0364-2723603(O); 0364- 2723606 (Fax)
Email : deanst@nehu.ac.in; chimanee@gmail.com

The School of Technology was established in 2006. At present it consists of eight departments, namely, Electronics and Communication Engineering, Information Technology, Basic Sciences and Social Sciences, Energy Engineering, Biomedical Engineering, Computer Applications, Architecture, and Nanotechnology.

During the year under review, the B. Arch. Course was started in the Department of Architecture. The students from the Departments of Electronics and Communication Engineering

and Department of Information Technology have been doing well, and were selected for positions in various companies such as Tech Mahindra, TCS, Infosys, IBM, and the like.

The first batch of M. Tech. Students will also pass out from these two departments in July 2015. Various Ph.D. programmes in the different departments are in progress. The faculty members of all the departments have put in considerable efforts and have been actively involved in research studies along with their teaching commitments.

DEPARTMENT OF ARCHITECTURE

Head- In- Charge : Mr. Banbhalang Swer
 Telephone : 0364-2724101(O); 8794741771(M)
 E-mail : banbha13@gmail.com/bswer@nehu.ac.in
 Faculty :

Designation	Name and Qualification	Specialization
Assistant Professor	Banbhalang Swer	Master in Architecture (Urban Design)
	Ibynta.B.Tiewsoh .	Master in Design (Product Design)
	Rameez Gazi	Master in Landscape Design (Landscape Design)

Thrust Areas of Research:

- Urban Geography, Urban Studies and Planning.
- Product Design and Landscaping.

Brief Statement of Academic Activities:

Approval of the course by the Council of Architecture, New Delhi was on 29th May 2014. The Department was allotted an Academic code from the Council of Architecture as ML-01 for any reference with the Council of Architecture, New Delhi. The Department of Architecture has

been recognised and approved by the Council of Architecture, New Delhi on 29th May, 2014.

The 5 years B Arch Programme started its 1st batch in the Academic Session 2014-15. The Department of Architecture, NEHU Shillong, has set up a Test Centre in May 2015, for conducting the NATIONAL APPTITUDE TEST IN ARCHITECTURE (N.A.T.A) with the Approval of the Council Of Architecture for admission into the 5 years B Arch Programme. The First Inspection of the Council of Architecture was on 19th May 2014:

Students' Profile - B. Arch

Enrolment Capacity: 40

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
B Arch 1 st Year	-	10	15	13	12	08	17	25

Courses Conducted:

B Arch Programme

Semester-I

Structural Design - I (Applied Mechanics), Building Materials - I, Introduction to Architecture, Communication Skills, Architectural Design, Building Construction & Technology - I, Architectural Graphics - I, Workshop - I.

Semester-II

Structural Design-II, Building Materials - II, History of Architecture - I, Communication Skills - II, Architectural Design-II, Building Construction & Technology - II, Architectural Graphics - II, Workshop - II.

Seminars/ Conferences/Symposia/Extension Programmes etc.

Organized

Banbhalang Swer

Organised an Interactive session between the University (Vice Chancellor, Pro Vice Chancellor Deans and Heads of Departments) and the Indian Green Building Council on the 14th May 2015 for the Green Rating system and the introduction of a student chapter in the University.

Attended

Banbhalang Swer

Attended NPTEL Workshop on the 29th and 30th April, 2013 organised by IIT Guwahati in collaboration with Royal Group of Institution in Royal Group of Institution, Betkuchi, Guwahati.

Attended the Symposium "Shillong Next" by Meghalaya Architects Forum, on 22nd and 23rd August 2014, State Central Library, Shillong.

Ibynta B Tiewsoh

Attended the Symposium "Shillong Next" by Meghalaya Architects Forum, on 22nd and 23rd August 2014, State Central Library, Shillong.

Rameez Gazi

Attended the Symposium "Shillong Next" by Meghalaya Architects Forum, on 22nd and 23rd August 2014, State Central Library, Shillong.

Other Activities:

The Department is involved in the preparation of the Detailed Master Plan of the Proposed Jowai Campus which is an Annex Campus of the North eastern Hill University, Shillong.

Banbhalang Swer

Member of the Extra Co Curricular activities committee constituted by the University and is involved in designing interactive spaces for the University.

Was invited as an external Jury on the 9th December 2013 in Royal School of Architecture, Royal Group of Institution, Betkuchi, Guwahati.

Was invited as an external Jury on the 12th and 13th June 2014 in Royal School of Architecture, Royal Group of Institution, Betkuchi, Guwahati.

Attended the 30th Orientation Programme conducted by NEHU UGC-ASC from 29th January 2015 to 25th February 2015.

Rameez Gazi

Attended the 33rd Orientation Programme conducted by NEHU UGC-ASC from 18th May 2015 to 14th June 2015.

Ibynta B Tiewsoh

Attended the 32nd Orientation Programme conducted by NEHU UGC-ASC from 20th April 2015 to 17th May 2015.

DEPARTMENT OF BIOMEDICAL ENGINEERING

Head : Dr. Dinesh Bhatia (upto 28.01.2015)
: Mr. Nitin Sahai Incharge (from 29.01.2015)

Telephone : 0364-2723851 (H); 0364-2723852 (O)

E-mail : bhatiadinesh@rediffmail.com,
biomedicalengg123@gmail.com

Faculty :

Designation	Name and Qualification	Specialization
Associate Professor	Dinesh Bhatia Ph.D (MNNIT, ALLAHABAD) PDF (USA), PDF (UK)	Biomechanics and Rehabilitation Engineering, Biomedical devices and signal processing
Assistant Professor	Nitin Sahai M.Tech (MNNIT, ALLAHABAD)	Biomechanics & Biomaterials
	Sudip Paul Ph.D * (IIT-BHU) M.Tech (IT-BHU)	Electrophysiology, Biomedical Instrumentation, Artificial Organ and Rehabilitation system, Biomedical Signal Processing
	Manashjit Gogoi Ph.D (IIT, BOMBAY) M.Tech (TEZPUR UNIVERSITY)	Bio nanotechnology, Nano medicine, Cancer drug delivery
	Gajendra Kumar Mourya M. Tech (IIT-BHU) MBA(MARKETING)	Medical Image Processing , Signal Processing and Biomedical Instrumentation
	Shyamal Mandal Ph.D* (IIT, KHARAGPUR) M. Tech (IIT, KHARAGPUR)	Medical image processing, Nanotechnology, Biomaterials

*Pursuing degree

Thrust Areas of Research:

- Biomechanics and Rehabilitation Engineering.
- Biomedical devices and signal processing
- Electrophysiology and medical Instrumentation.
- Bio nanotechnology, Nano medicine, Cancer drug delivery

- Medical Image analysis and processing.
- Biomaterials and Artificial Organs.
- Medical Informatics and Telemedicine.

Brief Statement of Academic Activities:

The department started B.Tech. programme in Biomedical Engineering with effect from July 2013.

Students' Profile

Enrolment Capacity:

B. Tech. – 60 (60 seats from Vertical and 6 seats from Lateral Entry) Admissions:

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
B.Tech (I st year)	-	12	25	20	17	6	31	37
B.Tech (II nd year)	04	37	20	42	19	07	54	61

Courses Conducted

Undergraduate: B.TECH (Biomedical Engineering)

Semester-III

Biomaterials, Human Anatomy & Physiology-I , Human Anatomy & Physiology Laboratory-I , Biomedical signals and systems Laboratory, Data Structures and Algorithms, Data Structure using C Laboratory , Biomedical signals and systems Laboratory ,

Semester-IV

Biomedical Instrumentation –I, Biomechanics, Medical Biochemistry, Human Anatomy & Physiology-II , Biomedical Instrumentation Laboratory –I, Medical Biochemistry

Laboratory, Human Anatomy & Physiology Laboratory-II, General Proficiency – II

Seminars/Conferences/Symposia/Extension Programmes etc.

Attended/Participated

Nitin Sahai

Attended the National Thematic meeting on “Application of Radiation Technology and Radio Isotope in the Field of Agriculture, Food and Health” held at AAU, Jorhat during May 28th -30th , 2014.

Attended the *Workshop on “Value Proposition Personality Development and Communication Skills”* from 11th -12th September, 2014 by ITM Group, Mumbai & Career and Counselling Cell, NEHU, Shillong at NEHU, Shillong.

Brainstorming Workshop on “Industry-academia Collaborations to Enhance Entrepreneurship Development, Innovation and Technology Commercialization in the North East (NE)” at IIT Guwahati on October 8th, 2014 IIT Guwahati.

QIP workshop on “Advances in Biomedical Engineering 2015” held in IIT Guwahati from February 25 till March 01, 2015.

DBT funded Symposia on “Research Methodology and Biomaterials for Human applications for Clinical Translational Research”, March 20th -21st, 2015 organized by the Department of Orthopaedics & Trauma, at NEIGRIHMS, Shillong.

Sudip Paul

Attended and presented poster at “102 Indian Science Congress Association” organized at the University of Mumbai, India from 03/01/2015 to 07/01/2015.

Participated in Department of Biotechnology, Govt. of India and Department of Orthopaedics & Trauma, NEIGRIHMS sponsored Symposia on “Research Methodology and Biomaterials for Human applications for Clinical Translational Research” at NEIGRIHMS, Shillong from 20/02/2015 to 21/03/2015.

Participated in AICTE Sponsored Short term course on “Advances in Biomedical Engineering” at IIT- Guwahati from 25/02/2015 to 01/03/2015.

Participated in Ministry of Human Resource Development, Government of India sponsored Short term course on “Sophisticated Instruments in Interdisciplinary Research” at IIT-Guwahati from 24/11/2014 to 27/11/2014.

Participated in the sponsored workshop by the ITM Group, Mumbai in collaboration with

Career and Counselling cell, NEHU, Shillong on theme “Value Proposition Personality Development and Communication Skill” at NEHU, Shillong from 11/09/2014 to 12/09/2014.

Manashjit Gogoi

Presented a paper entitled “Magnetic Liposomes for Cancer Therapy” (oral) in North East Regional Seminar on Trends in Colloid and Interface Science (NERSTCIS – 2014) held in the Department of Chemistry, NEHU, Shillong, India during November 27th -28th, 2014.

Presented a poster entitled “Therapeutic Evaluation of Magnetic Liposomes for Self-Controlled Hyperthermia and Chemotherapy and their Bio-Distribution” in Indo-USA Workshop on Nano-engineering in Medicine (NANOENG.MED 2014) held at All India Institute of Medical Sciences (AIIMS), New Delhi, India during December 17th -19th, 2014.

Gajendra Kumar Mourya

DBT funded Symposia On “Research Methodology And Biomaterials For Human Applications For Clinical Translational Research”, March 20th -21st, 2015 organized by the Department of Orthopaedics & Trauma, at NEIGRIHMS, Shillong.

Participated in Workshop on Engineering Curriculum and Instructional Design from June 5th -7th organized by National Institute of Technology, Meghalaya, Shillong.

Shyamal Mandal

Participated in the sponsored workshop by the ITM Group, Mumbai in collaboration with Career and Counselling cell, NEHU, Shillong on theme “Value Proposition Personality Development and Communication Skill”

at NEHU, Shillong from 11/09/2014 to 12/09/2014.

Participated in TEQIP Short Term Course on "Advanced Machining and Finishing Processes", during 15th -16th December, 2014 sponsored by Centre for Educational Technology and conducted by Department of Mechanical Engineering, IIT, Guwahati.

DBT funded *Symposia on "Research Methodology and Biomaterials for Human Applications for Clinical Translational Research"*, March 20th -21st, 2015 organized by the Department of Orthopaedics & Trauma, at NEIGRIHMS, Shillong.

Publications:

Kaur, M., Mathur, S., Bhatia, D.*. (2015). "Comparison of Muscle Activation Patterns During Walking in Healthy Males and Paraplegic Subject" *International Journal of Electronics, Electrical and Computational System* ISSN 2348-117X, 4(4), pp. 39-46.

Kaur, M., Mathur, S., Bhatia, D.*, Verma, S. (2015). "siGnum: Graphical user Interface for EMG Signal Analysis" *Journal of Medical Engineering and Technology* (JMET), Taylor and Francis Publisher, ISSN: 0309-1902 (print), 1464-522X (electronic); 39(1), pp. 19-25.

Sahai, N., Shrivastava, D., Srivastava, P. (2014). "Diagnosis of the Jaundice Using Fuzzy Expert System" *International journal of Biomedical Engineering and Science* (IJBES), 1(3), 15-19.

Sahai, N., Shrivastava, D., Sheikh, A. N. (2014). "Effect of Lifestyle and Physiological Factors of the Human Body on the Blood Pressure by Using Fuzzy Logic" *International journal of*

Biomedical Engineering and Science (IJBES), 1(3), 47-57.

Sahai, N., Tewari, R.P. (2015). "Characterization of Effective Mechanical Strength of Chitosan Porous Tissue Scaffolds Using Computer Aided Tissue Engineering", *International journal of Biomedical Engineering and Science* (IJBES), 2(1), 21-28.

Mazumdar, S., Saikia, A., Sahai, N., Paul, S. (2015). "Below Elbow Prosthetic: A Path to Independent Era" *International Journal of Advanced Information Science and Technology* (IJAIST) ISSN: 2319:2682, 34(34), 9-14.

Saikia, A., Sahai, N. (2015). "Finger Movement Recognition Using Neural Network", 2nd *International Conference on Bio Signals, Images and Instrumentation*, (ICBSII - 2015) 19th - 21st March 2015, 6-8

Paul, S., Sinha, T. K., Patnaik, R. (2015). EEG Time Series data analysis in Focal Cerebral Ischemic Rat Model. *International journal of Biomedical Engineering and Science*. 2(1), 1-10.

Paul, S. (2015). Advanced EEG Recordings as Tools for Treating Brain Strokes. Proceedings of the 102nd Indian Science Congress, University of Mumbai, India. Page no: 71.

Gupta, A., Paul, S., Mukhopadhyay, R., Bhattacharya, P., Patnaik, R. (2015). Direct Current Electromagnetic Radiation in Low Dose Promotes Recovery in Rodent Model of Depression. *International Journal of Advanced Information Science and Technology*. 33(33), 70-78.

Pandey, A. K., Bhattacharya, P., Shukla, S. C., Paul, S., Patnaik, R. (2015). Resveratrol Inhibits Matrix Metalloproteinases to Attenuate

Neuronal Damage in Cerebral Ischemia: A Molecular Docking Study Exploring Possible Neuroprotection. *Neural Regen Res.* 10(4):568-575.

Mukhopadhyay R., Paul S., Bhattacharya P., Patnaik R. (2015). Ischemic Stroke and its Rehabilitation by low dose Direct Current Electromagneto Therapy. *International Journal of Advanced Information Science and Technology.* 35(35):1-7.

Mazumdar, S., Sahai, N., Saikia, A., Paul, S. (2015). Below Elbow Prosthetic: A Path to Independent. *International Journal of Advanced Information Science and Technology.* 34(34):9-14.

Paul, S., Bhattacharya, P., Pandey, A. K., Patnaik, R. (2014). Application of Mathematical Modeling as a Tool to Analyze the EEG Signals In Rat Model of Focal Cerebral Ischemia. *Journal of the Institution of Engineers. Springer.* 95(1): 23-27.

Paul, S., Sinha, T. K., Bhattacharya, P., Patnaik, R. (2014). Neural Network based Classification of EEG Signal in induced Focal Cerebral Ischemic Rat Brain. *International Journal of Advanced Information Science and Technology (IJAIST).* 32(32): 49-54.

Paul, S., Rout, N., Waghmare, P. G., Patnaik, R. (2014). Design of Low Cost Multi-Use, User-Friendly and Durable Hearing Aid. *International Journal of Emerging Engineering Research and Technology.* 2(4): 109-115.

Paul, S., Bhattacharya, P., Sinha, T. K., Patnaik, R. (2014). Characterization of the Brain Attractors in Focal Cerebral Ischemic Rat Model Using EEG time series data analysis. In the proceedings of SfN Neuroscience-2014, Washington DC, USA. (Poster).

Bhattacharya, P., Pandey, A. K., Paul, S., Patnaik, R. (2014). Possible role of Piroxicam in GABA Agonism to Alleviate Glutamate Mediated Neuronal Insult in Rodent Model of Ischemic Stroke in the Proceedings of SfN Neuroscience-2014, Washington DC, USA pp.

Bhattacharya, P., Pandey, A. K., Paul, S., Patnaik, R. (2014). Alleviation of Glutamate Mediated Neuronal Insult by Piroxicam in Rodent Model of Focal Cerebral Ischemia: A Possible Mechanism of GABA agonism. *Journal of Physiol Biochem.* DOI: 10.1007/s13105-014-0358-8.

Bhattacharya, P., Pandey, A. K., Paul, S., Patnaik, R. (2014). Melatonin Renders Neuroprotection by Protein Kinase C mediated Aquaporin-4 Inhibition in Animal Model of Focal Cerebral Ischemia, *Life Sciences.* 100: 97-109.

Gogoi, M., Singh, L. R., "Magnetic Liposomes for Cancer Therapy", oral presentation published in the proceedings of the North East Regional Seminar on Trends in Colloid and Interface Science (NERSTCIS – 2014) held in NEHU, Shillong, India during November 27th -28th, 2014, 52.

Gogoi, M., Sarma, H. D., Bahadur, D., Banerjee, R., Therapeutic Evaluation of Magnetic Liposomes for Self-Controlled Hyperthermia and Chemotherapy and their Biodistribution, Poster Presentation Published in Indo-USA "Workshop on Nanoengineering in Medicine (NANOENG.MED 2014), held in at All India Institute of Medical Sciences, New Delhi, India during December 17th -19th, 2014, 40.

Books/Book Chapters/Proceedings:

Bhatia.D (2015) , Medical Informatics, PHI Learning Pvt. Limited, Delhi ISBN No. 978-203-5075-5

Patent and Copyrights:

Dinesh Bhatia

Copyright filed (Application 3920/2015 Ref. No.: T.I. (55) /TIFA/2014 dated 25.02.15) for software on Patient Classifier Algorithm

(PCA) developed under project "Design of Smart FES for physically challenged persons" funded by IDP Division, Department of Science and Technology (DST), Delhi registered by TIFAC, Delhi.

Research Projects

New Projects

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1	To study relief of muscle spasticity in CP kids by employing r-TMS from 2014-16 (Sanctioned on 26.05.14)	Dr. Dinesh Bhatia	SEED Division, Department of Science and Technology (DST), Ministry of Science and Technology, Govt. of India.	Rs. 48.08 lakhs
2.	Design of Artificial hand with artificial fingers from 2014-16 (Sanctioned on 01.09.14)	Mr. Nitin Sahai; Mr. Sudip Paul and Dr. Dinesh Bhatia	Twinning programme, Department of Biotechnology, Govt. of India	Rs. 32.78 lakhs
3.	Development of an interactive interface for early identification of abnormalities in lower limb muscles of humans (Sanctioned on 20.12.14)	Dr. Dinesh Bhatia (mentor)	National Academy of Sciences (NASI), Allahabad	Rs. 3.25 Lakhs

School of Technology

Ongoing

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1.	Design of Smart FES System for Physically Challenged Person from 2012- 2015 (Sanctioned on 26.02.12)	Dr. Dinesh Bhatia	Department of Science and Technology (DST), Ministry of Science and Technology, Govt. of India	Rs. 42.91 lakhs

Academic Collaborations:

- University of Glasgow, Glasgow, Scotland, UK
- All India Institute of Medical Sciences (AIIMS), New Delhi
- DRK Test Solutions Ltd., Pune (Industry)
- Indian Institute of Technology (IIT), Delhi
- North Eastern Indira Gandhi Institute of Regional Health Medical Sciences (NEIGRHMS), Shillong.
- Indian Institute of Technology (IIT), Guwahati
- Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Haryana
- Maharashi Dayanand University, Rohtak, Haryana
- Bundelkhand University, Jhansi
- Rajasthan Technical University, Kota

Honours/Awards/Recognitions:

Dr Dinesh Bhatia was selected among 12 awardees for the prestigious Young Biomedical Scientist award by the Indian Council of

Medical Research (ICMR) fellowship in 2014 awarded by the Government of India to pursue research activities at the School of Engineering, University of Glasgow, Scotland, UK for 6 months effective 29.01.2015.

Other Activities:

Dinesh Bhatia

Invited member Research Advisory Committee (RAC) for PhD program at NIT, Jalandhar-144011, Punjab, 2014 onwards.

Invited as resource person for the UGC Special Summer School to deliver talk on "Biomedical Engineering: Its scope and growth in India" held at UGC Academic Staff College, NEHU, Shillong from 25th August -14th September, 2014.

Invited Speaker for Continuing Rehabilitation Education (CRE) on "Trends on Rehabilitation Therapy and Inclusive development USAID Workshop from 27th -29th September, 2014 organized by North Eastern Indira Gandhi Regional Institute of Health & Medical Sciences (NEIGRIHMS), Shillong on the topic "Biomedical Engineering and Rehabilitation Engineering".

Invited as resource person for the UGC Special Winter School Linking Education to Society to deliver talk on “Biomedical Engineering: Its scope and growth in India” held at UGC Academic Staff College, NEHU, Shillong from 30th October -19th November, 2014.

Reviewer (Invited), Department of Science and Technology (DST) Research projects committees in 2014-15.

Invited Reviewer and member Technical Program Committee for Second *International Conference on Advanced Micro and Nanocomposite for Engineering (ICNC 2014)* from 6th -8th , April, 2014 at Penang, Malaysia.

Invited Reviewer and Technical Program Committee member *IEEE Symposium on Computer Applications and Industrial Electronics (ISCAIE 2014)* from 7th -8th April, 2014 at Penang, Malaysia.

Invited Reviewer for the Technical Program Committee for the *International Workshop on Computer Vision and the Internet (VisionNet'14)* affiliated with *Third International Conference on Advances in Computing, Communications and Informatics (ICACCI-2014 IEEE society)* held on September 24th -27th , 2014, Delhi, India.

Invited to serve on the Technical Program Committee for the *International Workshop on Biomedical Imaging and Sensing (BIS'14)*, affiliated with *Third International Conference on Advances in Computing, Communications and Informatics (ICACCI-2014) of IEEE society* held on September 24th -27th , 2014, Delhi, India.

Invited Reviewer, International Program Committee of *CARDIOTECHNIX 2014* (“2nd *International Congress on Cardiovascular Technologies*”), 25th -26th October, 2014, Rome, Italy.

Invited International Program Committee member for the *BIODEVICES 2015* (8th *International Conference on Biomedical Electronics and Devices*) at Portugal, Lisbon from 12th -15th January, 2015.

Invited Program Committee for 2nd *International Conference on Physiological Computing Systems (PhyCS 2015)* Angers, France from 11th -13th February, 2015.

Invited Reviewer for Technical Committee of the *International Conference of Francophone Engineers and Technicians (CITEF 2014)* to be held at the Lebanese University, Faculty of Engineering, Rafic Hariri University Campus, Hadath, Beirut, Lebanon from 16th to 18th October, 2014.

Invited Reviewer to *International Workshop on “Recent Developments on Signal Processing (RDSP)”*, from 20th to 30th August, 2014 at Istanbul , Turkey.

Invited as Editorial Board Member & Reviewer of the *Journal of Advances in Biomedical Engineering and Technology (JABET)* since May, 2014.

Invited as Technical Program Committee (TPC) member for *ICCAAD' 2014 (International Conference on Computer Applications & Aided Diagnosis)* technical co-sponsorship by IEEE Algeria from 25th -26th November, 2014 at Algiers, Algeria.

Invited as Technical Program Committee (TPC) member for *ICCVIA' 2015 (International Conference on Computer Vision & Image Analysis)* from January 18th -20th , 2015 at Sousse, Tunisia.

Invited Review committee member *IEEE Symposium on Industrial Electronics & Applications (ISIEA)*, 28th September- 1st

October, 2014, Sutera Harbour Resort, Kota Kinabalu, Malaysia.

Invited Reviewer on the Technical program committee for the IEEE 6th *International Conference on Engineering Education (ICEED2014)*, 9th -10th December, 2014, Kuala Lumpur, Malaysia.

Invited Reviewer, *International Journal of Medical Engineering and Informatics (IJMEI)*

ISSN online: 1755-0661, ISSN print: 1755-0653, USA.

Invited Associate Editor of the *Journal of Advances in Biomedical Engineering and Technology (JABET)* since September, 2014.

Invited to serve on the Technical program committee for 2014 IEEE International Power and Energy Conference (PECON 2014) to be held from 1st -3rd December, 2014 at Kuching Sarawak, Malaysia.

Invited to serve on the Technical program committee for eQeSS 2015 (*International Conference on e-Quality & e-Service Sciences*) from 24th -25th February, 2015, Dubai, UAE.

Invited reviewer on the Technical program committee of *International Journal of Electrical and Computer Engineering (IJECE)*, Scopus Indexed Journal ISSN: 2088-8708.

Invited Reviewer/ Editorial Board member for the American Association for Science and Technology (AASCIT) ISSN: 2375-3803, Newcastle, USA.

Nitin Sahai

Invited Speaker- DBT funded *Symposia on "Research Methodology and Biomaterials for Human applications for Clinical Translational Research"*, March 20th -21st, 2015 organized

by the Department of Orthopaedics & Trauma, at NEIGRIHMS, Shillong.

Sudip Paul

Invited Speaker- QIP Short term course on "Advances in Biomedical Engineering", IIT-Guwahati, 2015.

Science Communicator in the 102nd Indian Science Congress, Mumbai, 2015.

Member in Board of Professional Studies for Department of Biomedical Engineering, SOT, NEHU, Shillong for a period of three years since 2012.

Member in Board of Studies for Professional Course in Master of Computer Application (MCA) NEHU, Tura for a period of three years since 2012.

Laboratory In-Charge (Biomedical Instrumentation and Signal Processing), Department of Biomedical Engineering, SOT, NEHU, Shillong.

Life member of Biomedical Engineering Society of India since 2007.

Life member of Society for Biomaterials and Artificial Organs (India) since 2008.

Life Member of Indian Science Congress Association since 2014.

Member of International Society of Biomechanics (ISB) since 2015.

Member of Society for Neuroscience (SfN) since 2010. Member of International Brain Research Organization (IBRO) 2009.

Manashjit Gogoi

Life member of Indian Science Congress Association since 2013.

Life Member of Society of Biomedical Engineering India (BMESI) since 2013.

Life Member of Biomaterials and Artificial Organs since 2014.

Life Member of IIT-Bombay Alumni Association since 2014.

Shyamal Mandal

Life Member of Indian Science Congress Association since 2014.

Under graduate Coordinator, Department of Biomedical Engineering, SOT, NEHU, Shillong

Invited Speaker- “3D imaging & CNC Machining of Dental Crown” at the AICTE sponsored Short Term Course on “Micro-manufacturing for Biomedical Application” Organized by the Department of Mechanical Engineering, IIT Guwahati from February 23rd - 27th, 2015.

DEPARTMENT OF BASIC SCIENCES & SOCIAL SCIENCES

Head : Dr. M. M. Singh
Telephone : 0364-2723641/42
E-mail : hodbsss@gmail.com

Faculty :

Designation	Name and Qualification	Specialization
Professor	P.V.Koparkar; M.Sc., Ph. D.(N.U.)	Physics (Instrumentation/ Atmospheric Sciences/ Nanomaterials)
Associate Professor	A.K. Das; M.Sc. (IIT, Kgp), Ph.D.(CU) (Superannuated on 31 st January 2015)	Physics (Theoretical Physics)
	M.M. Singh; M.Sc. (BhU), Ph.D. (PU)	Mathematics (Number Theory, Algebraic Number Theory, Numerical Analysis, Discrete Mathematics)
	A. Sinha; M.Sc. (LU), Ph.D. (NEHU)	Chemistry (Physical)
Assistant Professor	M.D. Kushwaha; M.A. (BHU), Ph.D. (BHU)	Mathematics
	Hiranjit Choudhury; M.Sc. (NEHU), Ph.D. (NEHU).	Botany (Plant Biotechnology)
	Regenel S. Kharwanlang; M.Sc. (NEHU), NET (UGC); Ph. D. (NEHU).	Physics (Theoretical Physics)
	Phrangstone Khongjee; M.Sc. (NEHU), NET (UGC); Ph. D. (NEHU).	Statistics (Sampling Theory and Demography)
	Krishna Upadhaya; M.Sc. (NEHU), Ph.D. (NEHU)	Botany (Plant Ecology)

Assistant Professor	Jibitesh Dutta; M.Sc. (NEHU), NET (UGC/CSIR); Ph. D. (NEHU).	Mathematics
	Sainkumar M.N. Mawiong; M.Sc.; M. Phil. (NEHU), NET (UGC)	Mathematics
	Evapynhun Giri; M.A. (NEHU), M. Phil. (NEHU).	English
	R. S. Singh; M.Sc. (JU), NET (CSIR), Ph. D (CSIR-IICT, Osmania University).	Chemistry (Organic/Bio-organic/ Soft materials)
	M. Mahato; M. Sc. (Burdwan University), NET (CSIR), Ph. D. (CU).	Physics (Thin film/ Molecular Spectroscopy/ Nanobiotechnology)
	Munshi Ram; M.Com(VBSPU), Ph.D. (BHU)	Commerce- HRM (Human Resource Management)

Thrust Area 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 & Applied Environmental Sciences, Biotechnology, Basic & Applied Economics, Applied Statistics, and Communicative English, with emphasis on interdisciplinary and multidisciplinary studies.

Brief Statement of Academic Activities:

The Department of BSSS is not offering any course of study at the present. However, the Department is undertaking teaching of basic core courses in Basic Sciences, Humanities and Social Sciences included in the B. Tech curricula of ECE, IT, BME and EE of the School

of Technology. In addition, the members of the Faculty have undertaken research activities in their respective fields of interest as also in the interdisciplinary and multidisciplinary areas.

Students' Profile:

Enrolment Capacity : Ph.D. 20

Actual admissions : Ph.D. 19

Out of 19, 11 students are admitted in other departments, while 8 are admitted in BSSS

Courses Conducted During the Year:

The core courses pertaining to basic sciences, humanities and commerce are taught for the B. Tech programme of the departments/ disciplines of Electronics & Communication Engineering, Information Technology, Bio-medical Engineering, and Energy Engineering,

in the School of Technology. The details of the courses 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, Workshop Practice, 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 EE.

Semester III

Engineering Mathematics III, both for ECE & IT, Engineering Economics and Financial Accounting for IT only, Discrete mathematics for IT only.

Semester IV

Statistics and Random Processes, for both ECE & IT.

Semester V

Industrial Economics and Management, for ECE only. Management Information System (for IT only).

Semester VIII

Bio-informatics (IT-721) for IT.

Seminars/ Conferences/ Symposia/ Extension Programmes etc.

Organized:

The Department organized Entrepreneurship Awareness Camp during 26th -28th March 2015,

sponsored by Entrepreneurship Development Institute of India, Gandhi Nagar, Gujarat, India. The Co-ordinator of the camp was Dr. Munshi Ram and the organising Secretary was Mrs. Eva Giri.

Attended / Participated

P. V. Koparkar

Presented two papers at the *National Symposium on Instrumentation* held at Gurukul Kangri Vishwavidyalay, Haridwar, during 15th – 17th October 2014 on (i) Non invasive blood glucose meter. (ii) Development of instrumentation for accurate measurement of bite force and related EMG response.

Presented a paper on *An Intelligent GSM based SMART GRID management system* at the Thirtieth National Convention of Electrical Engineers, *National Seminar on Development of Smart Grid in India* during November 07th & 08th, 2014, NEHU, Shillong.

Presented a paper on “A Viable Cost Effective Rain Water Harvesting & Management System for Rural Applications” during 28th *National Convention of Agricultural Engineers and National Seminar On Rehabilitation and Reclamation of Degraded Land through Cost Effective Bio-engineering Measures*; January 30th -31th, 2015, Shillong organized by Institution of Engineers (India), Meghalaya State Centre.

P. Khongji

Presented a paper on- Volunteering for Cleaner, Safer, Healthy and Rural Develop India: Role of NSS, in the *National Seminar on Role of NSS in Nation Building: Scope and Challenges*, organized by the NSS cell, NEHU, held during March 5th -6th, 2015.

J. Dutta

Presented a paper on Relation Between Laws of Thermodynamics and Einstein Field Equations in the *National Conference on Recent Trends in Mathematics* held at Rajiv Gandhi University, Rono Hills, Arunachal Pradesh during May 26th -27th, 2014.

Presented a paper on Laws of Thermodynamics in the DGP Braneworld in the *International Centre of Theoretical Physics* held at Trieste, Italy, during August 4th -15th, 2014

Presented a paper on Scalar Field Dynamics in Braneworld Cosmology at UGC SAP NEHU Workshop and National Conference: *Contemporary Topics in Mathematics* held during December 16th -17th, 2014, organized by the Department of Mathematics NEHU, Shillong, Meghalaya, India

S. K. Mawiong

Delivered two invited talks on (i) Frontiers of Mathematics at St. Anthony's College, Shillong on 13th September 2014, and (ii) Application of Mathematics at State-Level Workshop on *Creation of Awareness of Learning Mathematics among Secondary Level Students* held during March 27th -29th, 2014, organized by SCST Cell, Government of Meghalaya and Shillong Vidyalaya Secondary School.

Presented a paper on Some Results and Examples Related to Conley Index Theory in the *National Conference on Recent Trends of Mathematics and its Application* held at Rajiv Gandhi University, Rono Hills, Arunachal Pradesh during May 27th -29th, 2014.

Presented a papers on Survey and Review of Conley Index over a Base in UGC SAP, NEHU Workshop, National Conference: *Contemporary Topics in Mathematics* held during December

16th -17th, 2014, organized by the Department of Mathematics NEHU, Shillong

Munshi Ram

Presented one paper on Role of Public Sector in New Employment Generation in India in *National Seminar on Public Sector Reforms in India* held at Sonebhadra, U.P., organized by

Faculty of Commerce, ABR PG College, Anpara, Sonebhadra, U.P., India during January 17th -18th, 2015.

Publications

Research Papers:

Published in India

Koparkar, P. V. (2014). Development of Instrumentation for Accurate Measurement of Bite Force and Related EMG response", *Journal of Instrumentation Society of India*. 4(4), 256-259.

Mir, A.H., Upadhaya, K., Choudhury, H. (2014). Diversity of Endemic and Threatened Ethnomedicinal Plant Species in Meghalaya, North-East India. *International Research Journal of Environment Sciences*. 3(12): 64-78.

Nongbri, S., Upadhaya, K., Pandey, H.N. (2014). Seed Germination and Seedling Fitness of Economically Important Tree Species of Meghalaya, Northeast India. *Ecology, Environment and Conservation*. 20(3): 117-124.

Upadhaya, K., Thapa, N., Barik, S.K. (2015). Tree Diversity and Biomass of Tropical Forests under two Management Regimes in Garo hills of north-eastern India. *Tropical Ecology*. 56(2): 257-268.

Khongji, P. (2015). Skill Mapping towards Enhancing Employability among Final Year

Graduate and Post Graduate Students (A Case Study of some Selected Institutions in Sambalpur and Shillong). *International Journal of Interdisciplinary and Multidisciplinary Studies*. 2(4):131-144.

Sarkar, R., Tah B., Mahato, M., Talapatra, G.B., Pal, P. (2014). Formation of Hemoglobin Assisted Graphene Oxide Biocomposite Film. *Indian Journal of Physics*. 88(11):1147-1155.

Mahato, M., Sarkar, R., Pal, P., Talapatra, G.B. (2015). Formation of Silver Nanoparticle at Phospholipid Template Using Langmuir–

Blodgett Technique and its Surface-enhanced Raman Spectroscopy application. *Indian Journal of Physics*., DOI 10.1007/s12648-015-0674-z.

Books/Book Chapters/ Proceedings

Choudhury, H., Kumaria, S., Tandon, P. (2014). Pinus Biotechnology: Progress and Prospects. *In Tree Biotechnology*. K. G. Ramawat, Jean-Michel Merillon and M. R. Ahuja (Eds.). CRC Press, Taylor & Francis Group, 6000 Broken Sound Parkway NW, Suite 300, Boca Raton, FL33487-2742, USA. Chapter 8, 223-247.

Research Projects:

New Projects

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1.	Phytodiversity and phytosociological characterization of sacred groves in Meghalaya. Sponsored by Department of Environment and Forest, Government of Meghalaya.	PI: B.K. Tiwari CI: K. Upadhaya	Department of Environment and forests, Govt. of Meghalaya. Duration: 2 Yrs (Sept. 2014 to Sept.2016)	Rs.20.00 Lakhs

Ongoing Projects

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1.	Fragmentation of humid subtropical broad-leaved forests and its impact on plant diversity and ecosystem functions in Meghalaya, Northeast India.	PI: K. Upadhaya	Ministry of Environment and forests, Govt. of India. Duration: 3 Yrs (27.06.2013 to 26.06.2016)	Rs. 35.58 lakhs.
2.	Molecular characterization and chemoprofiling of two pharmacologically relevant species of <i>Dendrobium</i> found in Northeast India	PIs: S. Kumaria & S. Sailajan Co-PIs: H. Choudhury, S. Pednekar and S. Menon	Department of Biotechnology, Ministry of Science and Technology, Government of India. Duration: 3yrs (27.01. 2014 to 26.01.2017)	Rs.26.25 lakhs
3.	Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools	PI: S. K. Barik <i>et al.</i> Co-PIs: H. Choudhury, N. Venugopal and M. C. Das	Department of Biotechnology, Ministry of Science and Technology, Government of India. Duration: 5yrs (23.02.2012 to 22.02.2017)	Rs. 103.2985 lakhs
4.	Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools, ,	PI: N. K. Chrungoo Co-PIs: K. Upadhaya and S. Kumaria	Department of Biotechnology, Ministry of Science and Technology, Government of India. Duration: 5yrs (23.02.2012 to 22.02.2017)	Rs. 82.578 lakhs

Completed during the Year

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1.	Phytochemical profiling, molecular characterization and conservation of <i>Flemingia vestita</i> : Endemic medicinally important plant of Northeast India	PIs: S. Kumaria and S. Shailajan Co-PIs: H. Choudhury, S. Pednekar and S. Menon	Department of Biotechnology, Ministry of Science and Technology, Government of India. Duration: 2yrs (2.05.2012 to 1.05.2014)	Rs. 30.39 lakhs
2.	Skill mapping on enhancing employability among final year graduate and post graduate students: (A case study of some selected institutions in Sambalpur and Shillong)	PI: P. Khongji	Funded by the Kusuma foundation, New Delhi in partnership with The Kusuma Trust (UK). Duration: 31.01.2014 to 30.09.2014.	Rs 1.5 Lakh

Academic Collaborations

M. M. Singh

Has collaborative research with Dr. B. Bhuyan, Department of Information Technology, NEHU, Shillong.

H. Choudhury

Has collaborative research with (i) Prof. S.K. Barik, Prof. N. Venugopal and Dr. M. C. Das of Department of Botany, NEHU, Shillong, and Dr. A. Chettri, Sikkim University, Gangtok, Sikkim and Dr. K. K. Singh, GBPIHED (Sikkim Unit) Sikkim on Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools and (ii) Dr. S. Kumaria of Department of

Botany, NEHU, Shillong and Dr. S. Shailajan, Dr. S. Pednekar and Dr. S. Menon of Herbal Research Lab., Ramnarain Ruia College, Mumbai, Maharashtra on- (a) Phytochemical profiling, molecular characterization and conservation of *Flemingia vestita*: Endemic medicinally important plant of Northeast India,

and (b) Molecular characterization and chemoprofiling of two pharmacologically relevant species of *Dendrobium* found in Northeast India.

K. Upadhaya

Has collaborative research with Prof. S.K. Barik, Prof. N. K. Chrungoo and Dr. S. Kumaria of Department of Botany, NEHU, Shillong, and Dr. P. Kumari of BSI, Howrah,

West Bengal on Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools.

Has also collaborative research with Prof. B. K. Tiwari of Department of Environmental Studies, NEHU, Shillong on Phytodiversity and phytosociological characterization of sacred groves in Meghalaya.

Other Activities:

P. V. Koparkar

Delivered invited lecture on "Interferometry: A powerful technique in precision measurements" at *National Symposium on Recent trends in Instrumentation Science & Technology*, organized by Department of Instrumentation, Jadavpur University, Jadavpur from March 19th – 21st, 2015.

Has been appointed as one of the executive member on the National Committee constituted to advise on the training in repairs and maintenance of Instruments in North Eastern Region,.

Has been the Coordinator of the following schemes on behalf of the University pertaining to the XIIth Plan merged scheme: Remedial Coaching Scheme for SC/ST/OBC and Minority students at UG level in the School of Technology.

Has been the Coordinator of the EDUSAT facility provided by CEC, New Delhi, from its inception & installation in the premises of School of Technology, NEHU, Shillong. Mr. Wellson Kharjyomati of Department of BSSS performs the technical duty for the above facility, besides his regular job in the Physics laboratory, in the Department of BSSS.

H. Choudhury

As an invited speaker, delivered a talk on the topic- Phytochemicals as a source of chemical entity for control of Mycobacterium tuberculosis growth in the *National Seminar on Metabolomics-A New Frontier in Natural Products Research* held during May 23rd -24th, 2014, organized by the Department of Biotechnology & Bioinformatics, North-Eastern Hill University, Shillong, Meghalaya, India.

Has been invited as Guest Faculty for M. Sc. 'Plant Molecular Biology Courses' of Department of Botany, NEHU, Shillong (Academic session February to July, 2014).

Phrangstone Khongji

Acted as a Research Consultant to the Research Agency "Impulse NGO Network, Shillong" in documenting the main findings of in-depth interviews, Focus Group Discussions, Closed

Ended and Secondary Data analysis of the Project entitled "Needs Assessment Study to Identify Gaps in the Legal Empowerment of people in the eight North Eastern States of India". This project was funded by National Mission for Empowerment of Women, Department of Justice, Ministry of Law and Justice, GOI and UNDP.

Worked as a Programme Officer, NSS Unit, NEHU during the 2011- March 2015 period.

S. K. Mawiong

Attended an International CIMPA-NEPAL Research School on "*Aspects of Dynamical Systems*" organized by Tribhuvan University, Kathmandu from 3rd-16th November, 2014

Dr. R. S. Singh

Attended *National Seminar on Metabolomics – A New Frontier in Natural Products Research*

School of Technology

organized by Department of Biotechnology & Bioinformatics, NEHU, Shillong during May 23rd -24th , 2014,

Attended REACH-2015: An *International Symposium on Recent Advances in Chemistry* organized by Department of Chemistry, NEHU, Shillong during March 3rd -5th, 2015.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Head : Dr. Subhash C. Arya
Telephone : 0364-2723661 (O)
E-mail : hodece@nehu.ac.in
Faculty :

Designation	Name and Qualification	Specialization
Associate Professor	Lairenlakpam Joyprakash Singh	Signal Processing
	S. K. Dutta	Speech Processing, Signal Processing
	Subhash C. Arya	Optical Fibre Communication and Opto-Electronics Devices
	R. Subadar	Theory of Wireless Communication, MIMO System
Assistant Professor	Juwesh Binong	Robotics and context-aware systems.
	Rajkishur Mudoi	Wireless Communication, Embedded System
	Jaydeep Swarnakar	Control System
	Fidalizia Pyrtuh	Speech Processing
	Asif Ahmed	Mixed Signal CAD tool Development

School of Technology

	Pankaj Sarkar	RF/Microwave filters, Antenna.
	Nipanka Bora	Nano Scaled Device Modelling

Thrust Areas of Research

Signal Processing: Speech, Language, and Speaker Recognition, Digital Image Processing, Quantized Semiconductor Structures, Microwave passive and active circuit design, Telecommunication Engineering, Optical Fibre Communication and Opto-Electronics Devices, Theory of Wireless communication, Mixed Signal CAD tool and VLSI Design, Qualitative Reasoning and Context Awareness.

Brief Statement of Academic Activities

The department currently runs three programmes i.e. B. Tech, M. Tech and PhD. Department

Placement of Students:

Company Name	Student's Placed	Date of Joining (Tentative)	Place(City)
Tech Mahindra	MrNimish Agarwal. MrTridip Sharma	04 Aug,2015	Noida
IBM, Bangalore	Ms Bishruta Phukan Mr Ajay Roy MsTraslima Ashraf	Aug,2015	Bangalore

Courses Conducted

B.Tech: (Electronics and Communication Engineering)

Semester II

Basic Electronics, Basic Electronics Laboratory.

admitted 60 students in B. Tech first year (in vertical), 6 students in lateral entry. In M. Tech, 20 students were admitted and 4 candidates got admission in PhD programme. 50 students successfully completed their B. Tech in Electronics & Communication Engineering degree this year.

Students' Profile

Enrolment Capacity: B. Tech: 66 (60 seats from Vertical and 6 seats from Lateral Entry), M. Tech: 20 (18 seats +2 seats supernumerary), PhD: Variable.

Semester III

Electronic Devices and Circuits, Signals and Systems, Electrical Network Theory, Electronic Devices and Circuits Laboratory, PCB Design Laboratory.

Semester IV

Electromagnetic Theory, Digital Electronics, Linear Integrated Circuits and Systems,

Electronics Measurements and Instrumentation, Digital Electronics Laboratory, Linear Integrated Circuits Laboratory, Electronics Measurements and Instrumentation Laboratory.

Semester V

Microprocessor, Principles of Communication Systems, Power Electronics, Basic Control Engineering, Microprocessor Laboratory, Communication Systems Laboratory, Simulation using MATLAB.

Semester VI

Embedded Systems and Microcontrollers, Digital Signal Processing, Microwave Engineering, Computer Communications and Networks, Antenna, Embedded Systems and Microcontrollers Laboratory, Digital Signal Processing Laboratory, Microwave Engineering Laboratory, GP-III.

Semester VII

Introduction VLSI Design, Digital Communication, Data Communication Systems, Information Theory and Coding, VLSI Design Laboratory, Digital Communication Laboratory.

Semester VIII

Satellite and Optical Communication Systems, Mobile Communication, Architecture of Advanced Processors, Nanotechnology.

Note: After the adoption of new B.Tech syllabus (2011), it is being implemented in phase wise, therefore, presently I to VI semester, new syllabus is being followed and semester VII and VIII semesters, old B.Tech syllabus (2007) is being followed.

M.Tech: (Electronics and Communication Engineering)

Semester I

Advanced Engineering Mathematics, VLSI Device & Modelling, Digital IC Design, Microelectronics Technology and IC Fabrication, Lightwave Communication Systems, CAD Tools for VLSI Design Laboratory, Circuit Simulation Laboratory, Seminar-I.

Semester II

Processor Architecture for VLSI, Advanced Digital Signal Processing, Analog IC Design, Advanced Communication, Low Power VLSI Design, ADSP Lab., Seminar-II, General Proficiency.

PhD:

Semester I

Mathematical Modelling, Speech Processing, Advanced Optical Communication and Sensors.

Seminars/Conferences/Symposia/Extension Programmes etc.

Organized:

The Department organized one day Exhibition of Electronics Products developed by Final year Students of B. Tech (ECE) on 18th July 2014 which was basically outcomes of their Major Project course.

The Department organized 3 Days *Workshop on "RF& Microwave Technology for Modern Systems Design"* (October 08th -10th, 2014) at Deptt. Of ECE NEHU, Shillong, with support from SAMEER Mumbai.

Attended/ Participated

L.J. Singh

Delivered two Invited lectures on advanced topics of Digital Signal Processing in a Refresher Course organized by the Department of ECE, MZU, Aizwal during August 11th -12th, 2014.

Attended a *Workshop in Image and Signal Processing (WISP) – 2014* organized jointly by IIT Hyderabad and Centre of Excellence in Signal Processing (CESP) IIIT Hyderabad on December 13th, 2014 at IIIT Hyderabad

Rajkishur Mudoi

Presented a research paper titled “Performance of Multiuser TAS/MRC-MIMO Systems Over Rayleigh Fading Channels With Exponential Correlation” in the *International Conference on Electronic Design, Computer Networks and Automated Verification-EDCAV2015* on 29th-30th January, 2015 organised by National Institute of Technology Meghalaya.

Subhash C.Arya

Participated in workshop in “Engineering Curriculum and Instructional Design” during 5th -7th June, 2014 at NIT, Meghalaya

Participated in *National Workshop in “Internal Quality Assurance Mechanism”* on 21st October, 2014 at IIT Guwahati

Publications

Research Papers

Published Abroad:

Subadar, Rupaban., Singh, Aheibam Dinamani. “Performance of M-MRC Receivers Over TWDP Fading Channels” *International Journal of Electronics and Communications (AEÜ)*, 68(6), 569-572, Jun. 2014.

Sarkar, Pankaj., Rakshit, Ishita., Adhikari, Sharmili., Pal Manimala., Ghatak, Rowdra. “A Band Notch UWB Bandpass Filter Using

Dual-Stub-Loaded Multimode Resonator with Embedded Spiral Resonator” *International Journal of Microwave and Wireless Technologies, Cambridge University Press*, 6(2), 161–166, 2014.

Sarkar, Pankaj., Ghatak, Rowdra., Pal, Manimala., Poddar, D.R. “High-Selective Compact UWB Bandpass Filter with Dual Notch Bands” *IEEE Microwave and Wireless Components Letters*, 24 (7), 448-450, JULY -2014.

Pal, Manimala., Sarkar, Biswajit., Sarkar, Pankaj., Ghatak, Rowdra. “A Dual-Band Bandpass Filter Using Integrated Stepped Impedance Resonators” *International Journal of Electronics Letters, Taylor & Francis*, 2014.

Books /Book Chapters /Proceedings

Singh, Aheibam Dinamani., Subadar, Rupaban. “Performance of Dual MRC over Non-Identical TWDP Fading Channels.” In the Proceeding of IEEE *ICACEA-2015, 19th -20th Mar. 2015, NewDelhi.*

Singh, Aheibam Dinamani., Subadar, Rupaban. “Capacity of Dual MRC with Adaptive Transmitters over non-identical TWDP Fading Channels.” In the Proceeding of IEEE *ICACEA-2015, 19th -20th Mar. 2015 NewDelhi.*

Subadar, R., Mudoi, R. “Performance of Multiuser TAS/MRC-MIMO Systems Over Rayleigh Fading Channels with Exponential Correlation,” In the Proceeding of 2015 *International Conference on Electronic Design, Computer Networks & Automated Verification (EDCAV)*, 165-168, 29-30 Jan. 2015.

Research Projects***Ongoing Research Project(s)***

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount (2014-15)
1	Development of Prosodically Guided Phonetic Engine for Searching Speech Databases in Indian Languages	Dr. L. J. Singh / Mr. S. K. Dutta	Department of Electronics and Information Technology (Deity), Ministry of Communication and Information Technology, Govt. of India, New Delhi.	29,65,500. The project has received extension upto March 2015, without any additional grants.
2	Development and Deployment of Speech based Multi-Level Person Authentication System	Dr. L. J. Singh / Ms. F. Pyrtuh	Department of Electronics and Information Technology (Deity), Ministry of Communication and Information Technology, Govt. of India, New Delhi.	15,06,000

Research Project(s) completed during Year

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1	NPMASS programme to establish NPMASS MEMS Design Centre (National Centre)*	Dr. L. J. Singh (Co-ordinator)	Funded by Aeronautical Development Agency (ADA) through IISc., Bangalore in the form of licenced software to design and simulate MEMS, and then successful/ realizable systems to fabricate at other laboratories which have facilities to realize the design into the physical systems.	Under this project, the Coordinator received software tools for analysing and designing MEMS funded by Aeronautical Development Agency, GoI through IISc.

*This project was closed on January 12, 2015

Other Activities:

L.J. Singh

Technical Committee Member of 2014 *National Workshop on Advances in Communication and Computing (WACC 2014)* held at Assam Engineering College, Guwahati, India during September 26th – 27th, 2014.

Attended Winter School on Speech and Audio Processing (WiSSAP)-2014 on the theme “Production -Perception Based New Models of Speech Analysis” organized by Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT) Gandhinagar during January 04th -07th, 2015.

Nominated and became a member (alumni representative) of Board of Management (BoM), North-Eastern Regional Institute of

Technology (NERIST), Nirjuli, Arunachal Pradesh in the month of January 2014.

Sushanta Kabir Dutta

Participated in WiSSAP, 2014 at IIIT Hyderabad during January 17th -20th, 2014.

DRC member in the ECE department at NIT, Meghalaya.

Member in Academic Committee of AICTE-NEQIP project at Shillong Polytechnic, Shillong

Subhash C. Arya

Programme Committee Member of WACC 2014 held at Assam Engineering College, Guwahati, India during September 26th – 27th, 2014.

Rajkishur Mudoi

Attended the 30th *National Convention of Electrical Engineers & National Seminar on "Development of Smart Grid in India"* organised by the Institution of Engineers(India) on 7th and 8th November, 2014.

Participated in the National Course on Recent Advances in Communications and Signal Processing conducted under the TEQIP sponsored by the MHRD from 12th -16th January 2015, IIT Guwahati.

Jaydeep Swarnakar

Attended UGC sponsored 6th Refresher course on "Information Communication Technology" organized by Academic Staff College, University of Burdwan from 26.11.2014 to 16.12.2014.

Fidalizia Pyrtuh

Attended Winter School on Speech and Audio Processing (WiSSAP)-2014 on the theme "Production -Perception Based New

Models of Speech Analysis" organized by Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT) Gandhinagar during January 04th -07th, 2015.

Nipanka Bora

Participated in the National Course on Recent Advances in Communications and Signal Processing conducted under the TEQIP sponsored by the MHRD from 12th -16th January 2015, IIT Guwahati.

Rupaban Subadar

Attended the conference at WACC 2014 during September 26th – 27th, 2014 at Assam Engineering College, Jalukbari Assam, as expert member in panel discussion.

Programme Committee Member of WACC 2014.

Technical program committee member of conference ICPDEN 2015 held at NERIST during 10th and 11th Jan 2015.

DEPARTMENT OF ENERGY ENGINEERING

Head- In- Charge : Dr. Samrat Paul
Telephone : 03642723951/ 0364-2723953 (O)
E-mail : paulsamrat17@gmail.com
Faculty :

Designation	Name and Qualification	Specialization
Assistant Professor	Samrat Paul, M. Tech.(Energy Technology), Ph.D.(Energy) Tezpur University	Solar Energy, Nanomaterials and Nano-composites
	Manmit Saikia, M. Tech. (Energy Technology)Tezpur University	Bio-Energy
	Sanat Das, M.Tech.(Aerospace Propulsion) IIT Kanpur	Propulsion
	Samar Jyoti Hazarika M. Tech. (Energy Technology)Tezpur University	Energy Accounting and Management

Thrust Areas of Research:

Solar Photovoltaics, Bioenergy

Brief Statement of Academic Activities:

The department is currently offering B.Tech Program in Energy Engineering

Students' Profile

Enrolment Capacity: M.A/M.Sc. - Ph.D. – Variable

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
B. Tech	11	20	29	52	08	06	52	60

Courses Conducted: B. Tech (Energy Engineering)

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, Workshop Practice, 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 EE.

Semester-III

Energy Resources, Electrical Systems and Automatic Control, Elements of Nanoscience, Engineering Thermodynamics, Fluid Mechanics, Fluid Mechanics Laboratory, Thermal Laboratory, Electrical Measurement and Instrumentation Laboratory

Semester-IV

Basics of Renewable Energy Technology, Measurement and Control Instrumentation,

Heat and Mass Transfer, Fuel and Combustion Technology, Basics of Solar Energy Technology Heat and Mass Transfer Laboratory, Fuel and Combustion Laboratory, Solar Energy Laboratory.

Semester –V : NA

Semester-VI : NA

Semester VII : NA

Semester VIII : NA

Seminars/ Conferences/ Symposia/ Extension Programmes etc.:

Attended:

S Paul

Attended the 101st conference of Indian Science Congress held at Jammu, January 2014.

Publications:

Published Abroad

Bharali, P., Saikia, J.P., Paul, S., Konwar, B.K. Colloidal Silver Nanoparticles/Rhamnolipid (SNPRL) Composite as Novel Chemotactic Antibacterial Agent. *International journal of biological macro molecules* 61, 238-242.

Research Projects:

New Projects:

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1	Mixed Phase Titania / Carbon Nanotube Nanocomposite based Dye Sensitized Solar Cells	Dr S Paul	DST	21,92, 000.00

DEPARTMENT OF INFORMATION TECHNOLOGY

Head : Dr. Hemanta Kumar Kalita
Telephone : 0364-2723611(O); 9436941223 (M)
E-mail : hodit@nehu.ac.in
Faculty :

Designation	Name and Qualification	Specialization
Professor	Goutam Saha, M.Tech (Calcutta Univ.) Ph.D.(IIT, Kharagpur), Post-Doc.(Ben Gurion University, Israel)	Bioinformatics and image Processing
Associate Professor	Md. Iftexhar Hussain, M.Tech (Tezpur Univ.)	Rural Wireless Networks, QoS in Computer Networks, Wireless Mesh Networks
	Bubu Bhuyan M.Tech (Tezpur Univ.), Ph.D.(Jadavpur Univ.)	Information Security
	Hemanta Kumar Kalita, M.Tech (Tezpur Univ.), Ph.D. (Jadavpur Univ.)	Performance Engineering, Computer and Network Security, Wireless Sensor Network, Spatial Data Mining, Expert Systems
	Debdattta Kandar, M.Tech (Allahabad Agricultural Institute-Deemed Univ.) , Ph.D.(Jadavpur Univ.)	Wireless Mobile Communication, Soft Computing, Artificial Intelligence, RADAR Imaging.

Assistant Professor	Swarup Roy, M. Tech , Ph.D.(Tezpur Univ.)	Data mining, Computational Biology
	Arnab Kumar Maji M.Tech (Bengal Engineering & Science Univ. (Currently IEST, Shibpur)	Image Security, E-Commerce
	Sangita Neog M.Tech (Tezpur Univ.)	Theoretical Computer Science
	Sufal Das M.Tech (Tezpur Univ.)	Data Mining, Soft Computing
	Subhas Chandra Sahana M.Tech (Tezpur Univ.)	Cryptography and Network Security
	K. Amitab M.Tech (Punjab Engineering College)	Image Processing
	Amitabha Nath M.Tech (Tezpur Univ.)	Network Security

Thrust Areas of Research

Bioinformatics, Data Mining, Soft Computing, Rural Wireless Networks, QoS in Computer Networks, Wireless Sensor and Mesh Networks, Information & Networks Security, Image Processing, Performance Engineering, Spatial Data Mining, Expert Systems.

Brief Statement of Academic Activities:

Currently department is offering courses on B.Tech, M.Tech, Ph.D. in Information

Technology. M.Tech and Ph.D. courses are included from the current academic session (2013-14). All faculty members are actively involved in their own research work & published various paper on reputed peer reviewed and refereed journals. Department is currently running with two projects from DeitY, Government of India. Department has organized three workshops in the current year. Two of the faculty members have submitted their thesis for evaluation in the current year.

School of Technology

Students' Profile

Enrolment Capacity: M.A/M.Sc. - Ph.D. – Variable

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
B.Tech.	4	19	28	40	11	9	42	51
M.Tech	2	10	07	11	8	10	09	19
Ph.D.	1	1	4	6	4	2	8	10

Degrees Awarded

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
B.Tech.	11	24	25	43	17	14	46	60

Placement of Students

B.Tech. (IT) students are successfully placed in the following companies:

- IBM
- Info Sys
- TCS
- Indian Army

Courses Conducted

Undergraduate: (B.Tech):

Semester-I

Professional Communication Skills, Engineering Mathematics-I, Engineering Physics, Engineering Mechanics, Basic Electrical Engineering, Digital English Language Laboratory, Engineering Physics

Laboratory, Basic Electrical Laboratory, Workshop Practice.

Semester-II

Elements of Environmental Science, Engineering Mathematics II, Engineering Chemistry, Computer Systems and Programming, Basic Electronics, Engineering Chemistry Laboratory, Computer Programming Laboratory, Basic Electronic Laboratory, Engineering Graphics, General Proficiency –I.

Semester-III

Engineering Economics and Financial Accounting, Engineering Mathematics III, Signals and Systems, Computer Graphics and Multimedia, Data Structures and Algorithms, Discrete Mathematics, Computer Graphics and Multimedia Lab, Data Structure Laboratory, Numerical Programming laboratory.

Semester-IV

Statistics and Random Processes, Data Communication, Digital Electronics, Formal Language and Automata Theory, System Programming, Computer Organization and Architecture, Digital Electronics laboratory, Systems Programming Laboratory, General Proficiency –II.

Semester-V

Management Information System, Microprocessor, Information Theory and Coding, Object Oriented Programming and Methodology, Algorithm Analysis and Design, Computer Networks, Microprocessor Laboratory, Object Oriented Programming Laboratory, Computer Networks Laboratory.

Semester-VI

Operating System, Software Engineering, Relational Data Base Management System, Compiler Design, Elective-I (Mobile Computing, Data Mining, Data Compression, Embedded System, Human Computer Interaction), Elective-II (Cryptography and Network Security, Artificial Intelligence, E-Commerce, Simulation and Modeling, Distributed Systems), Operating System Laboratory, Database Management System Laboratory, Compiler Design Laboratory, General Proficiency –III.

Semester-VII

Professional Ethics and IPR, System Administration, Web Technology, Elective-III (Bioinformatics, Natural Language Processing, Internet and Its Application Technologies, Fuzzy Logic & Neural Networks, Computer Vision), Elective-IV (Pattern Recognition, Wireless Communication, Digital Image Processing, Robotics, Advance Computer Architecture),

System Administration Laboratory, Visual Programming Laboratory, Web Technology Laboratory, Minor Project.

Semester-VIII

Major Project, General Proficiency –IV (Grand Viva).

Postgraduate: (M.Tech):

Semester-I

Mathematical Foundations of Information Science, Theory of Computer Science, Computer Architecture and Operating System, Advanced Database System, Elective, Software System Laboratory.

Semester-II

Algorithms & Complexity, Advanced Computer Networks, Elective, Elective, Elective, Seminar on Advanced Topics, Internet Technology Lab.

Semester-III

M.Tech thesis, Elective.

Semester-IV

M.Tech thesis.

List of Elective subjects:

Compiler Design, Topics in Programming Languages, Logic and Computation, Topics in Algorithms, Game Theory, Quantum Computation, Distributed Computing, Object Oriented Modeling and Design, Embedded Systems and Applications, Natural Language Processing, Computational Intelligence, Soft Computing, Image Processing, Pattern Recognition, Computational Biology, Cryptography, Formal Methods in Secure Computing, Network Security, Information Theory and Coding, Perimeter Security, Data

Compression, Multimedia Systems, Computer Laws and Ethics, Security Policies and Assurance, Fuzzy Set Theory and Applications, Advanced Topics in Graph Theory, Advanced Topics in Information Security, Robotics, Data mining and Data warehousing, Advanced Wireless Networks.

Ph.D. Courses:

Course Work: Research Methodology, Algorithm Analysis and Design, Elective

List of Elective subjects:

Compiler Design, Topics in Programming Languages, Logic and Computation, Topics in Algorithms, Game Theory, Quantum Computation, Distributed Computing, Object Oriented Modeling and Design, Embedded Systems and Applications, Natural Language Processing, Computational Intelligence, Soft Computing, Image Processing, Pattern Recognition, Computational Biology, Cryptography, Formal Methods in Secure Computing, Network Security, Information Theory and Coding, Perimeter Security, Data Compression, Multimedia Systems, Computer Laws and Ethics, Security Policies and Assurance, Fuzzy Set Theory and Applications, Advanced Topics in Graph Theory, Advanced Topics in Information Security, Robotics, Data mining and Data warehousing, Advanced Wireless Networks.

Seminars/Conferences/Symposia/Extension Programmes etc.

Organized:

Department along with CDAC, India organized one *Workshop on Applications of "Wireless Sensor Networks and SCADA"* on 4th September, 2014. (Co-coordinator: Amitabha Nath).

Department along with SRSB Broad Cast (India) Pvt Ltd organized one *Workshop on "Benefits of Apple and Adobe in Education"* in the month of September 2014.

The Department conducted a two day *Workshop on "Wireless Communication- Protocols and Practice"* during 29th -30th January, 2015 (Co-coordinator: I. Hussain).

Attended/ Participated

Md. Iftexhar Hussain

Presented a research paper titled "A Tightly Synchronized TDMA MAC Protocol for multi-hop WIFI- BASED Long Distance Networks" in the *Sixth International Conference on Ubiquitous and Future Networks (ICUFN-2014)*, Shanghai China, July 8th – 11th, 2014

Arnab Kumar Maji

Presented a research paper titled "A Novel Biometric Template Encryption Scheme using Sudoku Puzzle" in the *1st International Doctoral Symposium on Applied Computation and Security System (ACSS)*, Kolkata, India, during April 23rd to 25th, 2014.

Presented a research papers titled "A Brief Study on Different Features Extraction Scheme in Face Recognition" in the *7th International Conference on Electrical, Electronics, Computing and Communication Systems (EECCS 2015)*, Bangalore, India, during Jan. 9th -10th, 2015.

Sufal Das

Presented a research paper titled "Efficient Feature Selection Method for Big Data" in the *7th International Conference on Electrical, Electronics, Computing and Communication Systems (EECCS 2015)*, Bangalore, India, during Jan. 9th -10th, 2015.

K. Amitab

Presented a research paper titled “Speckle Noise Reduction in Synthetic Aperture Radar Image using Multi Layer Perceptron” in the *7th International Conference on Electrical, Electronics, Computing and Communication Systems* (EECCS 2015), Bangalore, India, during Jan. 9th -10th, 2015.

Publications

Research Papers

Published in India:

Maji, A.K., Roy, K.S., Kandar, D. A Novel Spread Spectrum Based Audio Encryption Technique using Latin Square, *International Journal of Applied Engineering Research* 9 (20), 2015, 4955-4960, (ISSN 0973-4562).

Kandar, D., Kumar, V. Dhilip., Chyne, Phida., Maji, A.K. “Image Transmission in WiMax/DSRC System For Efficient Vehicular Communication”, *International Journal of Applied Engineering Research*, 9 (20), 2014, 4676-4679, ISSN 0973-4562.

Amitab, K., Kandar, D., Sonwal, S. “Speckle Noise Reduction in Out Door SAR Imaging Instrumentation System Using Radial Basis Function Network (RBFN)”. *International Journal of Applied Engineering Research*, 4997-4999, 9(21), 2014, ISSN 0973-4562.

Mandal, S., Saha, G., Pal, R.K. “A Comparative Study on Disease Classification using Different Soft Computing Techniques.” *SIJ Transactions on Computer Science Engineering & its Applications (CSEA)*, 2(3), 45-52, May 2014, ISSN: 2321-2381.

Published Abroad:

Maji, A.K., Pal, R.K. A Novel Biometric Template Encryption Scheme using Sudoku Puzzle,

Advances in Intelligent System and Computing, DOI 10.1007/978-81-322-1988-0_7, Springer, 305, 109-128, 2015, (ISSN- 2194-5357).

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Hussain, I., Sarma, N., Saikia, D.K. “TDMA MAC Protocols for WiFi-based Long Distance Networks: A Survey” *International Journal of Computer Applications*, 94(19), 1-8, May 2014. Published by Foundation of Computer Science, New York, USA (IF=0.821) (doi=10.5120/16496-5702)

Hussain, I., Ahmed, Z.I., Saikia, D.K., Sarma, N. “A Tightly Synchronized TDMA MAC Protocol for multi-hop WiFi-based Long Distance Networks” in the proc. of *Sixth International Conference on Ubiquitous and Future Networks (ICUFN- 2014)*, Shanghai China, July 8th – 11th, 2014, 543-548, IEEE (doi= {10.1109/ICUFN.2014.6876854}).

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Roy, S., Bhattacharyya, D.K., Kalita, J.K. “Reconstruction of Gene Co-expression Network from Microarray Data Using Local Expression Patterns”, *BMC Bioinformatics*, 15 (Suppl 7): S10, 2014.

Dhal, D., Datta, P., Chakrabarty, A., Saha, G., Pal, R.K. “An Algorithm for Parallel Assay

Operations in a Restricted Sized Chip in Digital Microfluidics.” In *VLSI (ISVLSI), 2014 IEEE Computer Society Annual Symposium on, USA*, 142-147. IEEE, 2014.

Books/Book Chapters/Proceedings:

Maji, A. K., Rymbai, B., Kandar, D. A Brief Study on Different Features Extraction Scheme in Face Recognition, In Proc. *7th International Conference on Electrical, Electronics and Communication Systems (EECCS)*, 74-81. Bangalore, Jan. 9th-10th, 2015.

Amitab, K., Kandar, D., Maji, A.K. Speckle Noise Reduction in Synthetic Aperture Radar Image using Multi Layer Perceptron, In proc. *7th International Conference on Electrical, Electronics and Communication Systems (EECCS)*, 92-95. Bangalore, Jan. 9th-10th, 2015.

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Kandar, D., Kumar, V. Dhillip., Sahana, S. C. “Physical Layer Design of WiMax/DSRC Infrastructure” In Proceedings of *International Conference on CCSN-2014*, Puri, Orrisa, India, during December 10th -12th, 2014.

Kandar D., Kumar, V. Dhillip., Das, S. “Convergence of LTE-A and DSRC Infrastructure for Intelligent Transportation System”, In the Proceedings of *7th International Conference on Electrical, Electronics, Computer and Communication Systems (EECCS’15)*, Bangalore, Karnataka, India, January 09th -10th, 2015.

Sahana, S.C., Saikia, S.I., Bhuyan, B., Kandar, D. “A Comparative Study of Elliptic Curve Scalar Multiplication Algorithms with Efficient Representation of Scalar Multiplier” In Proceedings of *International Conference on CCSN-2014*, Puri, Orrisa, India, during December 10th -12th, 2014.

Nath, A., Saha, G. A study on the performance of Rough Set, Random Forest and SVM with respect to Diagnosis of Breast Cancer using micro array data. *7th International Conference on Electrical, Electronics and Communication Systems (EECCS)*, 35-38. Bangalore, Jan. 9th-10th, 2015.

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Ahmed, S.S., Hussain, I., Ahmed, N., Hussain, I. “Driver Level Implementation of TDMA MAC in Long Distance WiFi”, In the proceedings. of the *International Conference on Computational Intelligence and Networks (CINE- 2015)*, Bhubaneswar, India, Jan 12th -13th, 2015, 80-85, IEEE (doi: 10.1109/CINE.2015.25).

Hussain, I., Ahmed, N., Saikia, D.K., Sarma, N. “A QoS-aware Multipath Routing Protocol for Wi-Fi-based Long Distance Mesh Networks”, In the proceedings. of the *2nd IEEE International Conference on Emerging Technology Trends in Electronics, Communication and Networking (ET2ECN-2014)*, Surat, India, December 26th -27th, 2014, 1-8, IEEE (doi: 10.1109/ET2ECN.2014.7044990).

Das, S., Syiem, B. V., Kalita, H. K. "Popularity Analysis on Social Network using MapReduce", In Proceedings of International Conference on CCSN-2014, Puri, Orrisa, India, during December 10th -12th , 2014.

Das, S., Kalita, H. K. "Big Data Analysis: State of the Arts and Few Open Problems", In Proceedings of 1st *National Conference on Communication, Cloud and Big Data*, Sikkim India, during December 20th -21st , 2014.

Das, S., H. K. Kalita, "Efficient Feature Selection Method for Big Data", In the Proceedings of 7th International Conference on Electrical, Electronics, Computer and Communication Systems (EECCS'15), Bangalore, Karnataka, India, January 09-10, 2015.

Das S., Kalita, H. K. "Breast Cancer Diagnosis using Evolutionary Algorithm based Classification Rule Mining", In the Proceedings of 7th International Conference on Electrical, Electronics, Computer and Communication Systems (EECCS'15), Bangalore, Karnataka, India, January 09th -10th , 2015.

Mandal, S., Saha, G., Pal, R. K. "Identification of Genetic Pathway for Cervical Cancer Development Using Rough and Bayesian

Theory." In *Emerging Applications of Information Technology (EAIT)*, 2014 *Fourth International Conference of*, 77-82. IEEE, 2014.

Mandal, S., Saha, G., Pal, R. K. "S-system based gene regulatory network reconstruction using Firefly algorithm." In *Computer, Communication, Control and Information Technology (C3IT)*, 2015 *Third International Conference on*, 1,5, 7-8 Feb. 2015, doi: 10.1109/C3IT.2015.7060217.

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Dasgupta, S., Saha, G., Mondal, R., Pal, R. K. A. Chanda. "A Comparison between Methods for Generating Differentially Expressed Genes from Microarray Data for Prediction of Disease." In *Computer, Communication, Control and Information Technology (C3IT)*, 2015 *Third International Conference on*, 1,5, 7-8 Feb. 2015, doi: 10.1109/C3IT.2015.7060148.

Research Projects:

Completed during the Year

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1.	QoS provisioning in wifi based Long Distance Wireless networks for Hilly Terrain Areas	Md. I. Hussain/ S.K Dutta	DeitY	67.08 Lakhs

Honours /Awards/Recognitions:

Sufal Das got the best paper award for his work on Breast Cancer Diagnosis using Evolutionary Algorithm based Classification Rule Mining in 7th EECS, Bangalore, India.

Other Activities

Department successfully organized CAT, GATE, JEE and many online examinations as part of NEHU's facility agreement with TCS iON.

Prof. G. Saha, Dr. S. Roy, A.K. Maji delivered invited lecture each in NIT, Mizoram, India on the topics ????????

Arnab Kumar Maji attended 6th *Refresher Course on ICT* at University of Burdwan from 26.11.2014 to 17.12.2014.

K. Amitab attended Regional Training Workshop on Science Journalism/Writing for North-Eastern States organized by Manipur Science & Technology Council during February 10 - 14, 2015

DEPARTMENT OF COMPUTER APPLICATIONS (Tura Campus)

Head : Mr. Ansuman Kumar
Telephone : 919089458911 (M); 03651-221407 (O)
E-mail : computerapplication.nehu@gmail.com
Faculty :

Designation	Name and Qualification	Specialization
Assistant Professor	Ansuman Kumar, MCA, M.Tech (IT).	Web Services, Computer Networks
	Anindya Halder, MCA, Ph.D. (Engineering)	Pattern Recognition, Soft Computing
	Rubul Kumar Bania, MCA, M.Tech (IT).	Data mining

Thrust Areas of Research:

Machine Learning, Pattern Recognition, and Data mining, Bioinformatics, Remote Sensing Image Analysis.

Brief Statement of Academic Activities

The Department of Computer Applications established in the year of 2012, under the School of Technology, NEHU, funded by MHRD, Govt. of India, with a prime focus to impart quality, career/research-oriented course in computer application to produce best possible manpower in the field. The Department is presently offering three years Master of

Computer Application programme since 2013. The core part of the curriculum embodies theoretical and practical knowledge basic to the industry/academic/research. In addition to the core courses the programme also incorporates current and emerging technologies relevant to the field of computer application. To tackle theoretical and real life problems, the syllabus has been designed by balancing various cores, specialized and elective courses. The syllabus also includes several practical papers and challenging projects. The curriculum is also enriched with management papers to give an exposure to student in the field of corporate management.

Students' Profile

Enrolment Capacity: MCA programme

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	Total
MCA	-	11	7	12	6	13	5	18

Courses Conducted:

MCA

Semester I

Digital Logic Design, Programming & Problem Solving through C, Organisational Behaviour, Accounting and Financial Management, Discrete Mathematics and Probability Theory.

Semester II

Theory of Computation, Data Structures Using C++, Object Oriented Programming and Design, Computer Graphics, Computer Organisation and Architecture.

Semester III

Database Management System – I, Data Communication and Networks – I, Operating System, Design and Analysis of Algorithms, GUI Programming Using VB.NET.

Semester IV

Software Engineering, Data Communication and Networks – II & Network Programming using Linux, Oracle, Database Management System - II, Internet Technology and Applications, Artificial Intelligence.

Seminars/Conferences/Symposia/Extension Programmes etc.:

Organized:

North-Eastern Workshop on "LATEX a Document Preparation System", Organized by

Department of Computer Application, NEHU, Tura Campus, Tura, Meghalaya during 16th-17th September, 2014.

Attended/ Participated

Rubul Kumar Bania

Presented a seminar paper titled "Ozone depletion" in the 100th Orientation Programme organized by UGC-Academic Staff College, Gauhati University (GU), during July 28th - August 24th, 2014 at Gauhati University, Guwahati.

Ansuman Kumar

Presented a seminar paper titled "Overview of Computer Networks" in the 80th Orientation Programme organized by UGC-Academic Staff College, Ranchi University (RU), during November 5th - December 2nd, 2014 at Ranchi.

Publications:

Published in India:

Halder, A., Dey, S., Kumar, A. (2014). Active Learning Using fuzzy k-NN for Cancer Classification from Microarray Gene Expression Data, In Proceedings of the *National Workshop on Advances in Communication and Computing (WACC)*.

Published Abroad:

Bania, K. R. (2014). Survey on Feature Selection for Data Reduction, *International*

Journal of Computer Applications (IJCA) 94(18), 1-7, doi: 10.5120/16456-2390.

Bania, K.R., (2015). Comparative Review on Classical Rough Set Theory Based Feature Selection Methods, *International Journal of Computer Applications (IJCA)*, 114(19), 31-35

Academic Collaborations:

Dr. Anindya Halder did collaborative research work as Visiting Scientist (at Machine Intelligence Unit,) with Indian Statistical Institute, Kolkata, India during January-February, 2015.

Honours/Awards/Recognitions:

Dr. Anindya Halder and Mr. Anshuman Kumar bagged 3rd Best Paper Award in the *National Workshop on Advances in Communication and Computing (WACC)* (for the paper "Active learning using fuzzy k-NN for cancer classification from microarray gene expression data") organized by Assam Engineering College, Assam during 26th -27th September, 2014.

Other Activities:

A. Halder

Delivered an invited talk on "Introduction to Latex: A document preparation system" in one day workshop organized by Dept. of Education, NEHU, Tura Campus held on 25th September, 2014 at NEHU, Tura Campus.

As a member of two scientific/academic associations namely, (i) Computer Science

Teachers Association (CSTA), New York, founded by Association for Computing Machinery (ACM) and (ii) International Association of Engineers (IAENG), Hong Kong.

As a reviewer for the period under reporting for (i) IEEE Transactions on Geosciences and Remote Sensing Letters, (ii) IET Computer Vision and (iii) Swarm Intelligence (Springer) journal.

As a Program committee Member of ICAPR 2015 8th *International Conference on Advances in Pattern Recognition*) organized by Electronics and Communication Science Unit (ECSU), Indian Statistical Institute, Kolkata held during January 4-7, 2015.

Participated in the *Workshop on the C Language and Linux operating System* organized by the Computer & Statistical Service Centre (CSSC), Indian Statistical Institute (ISI), Kolkata held during 16th -28th, March, 2015.

Anshuman Kumar

Member of Computer Science Teachers Association (CSTA), New York, founded by Association for Computing Machinery (ACM). He is also a member of International Association of Engineers, Hong Kong.

Rubul Kumar Bania

Member of Computer Science Teachers Association (CSTA), New York, founded by Association for Computing Machinery (ACM).

DEPARTMENT OF NANOTECHNOLOGY

Head : Dr. L. Robindro Singh
Telephone : 0364 – 2723903 (O); 9863331127 (M)
E-mail : robidnro001@yahoo.co.in/lrsingh@nehu.ac.in
Faculty :

Designation	Name and Qualification	Specialization
Assistant Professor	L. R. Singh, Ph.D.	Material Science and Nanomaterials
	D. Pyngrope, M.Tech.	Nanoelectronics, Nanomaterials and Devices

Thrust Areas of Research:

Optical and electrical properties of Nanoparticles, CNT and Nanoelectronics.

Brief Statement of Academic Activities

Students' Profile

Enrolment Capacity: Ph.D. – Variable

Degree	SC	ST	GEN	Male	Female	Meghalaya	Non-Meghalaya	TOTAL
Ph.D.	1	1	1	-	-	1	2	3

M.Phil/Ph.D. Courses

Course Work: Research Methodology, Mathematical method and simulation, Optical properties of Nanomaterials.

Seminars / Conferences/Symposia/Extension Programmes etc.

Papers Presented:

L. R. Singh:

Presented a paper on “Bifunctional Nanocomposite for Future Perspective.” during orientation *Workshop on Radiation-Its Applications in Chemical, Physical and life*

science from 29th to 31st October, 2014 organized by Department of Chemistry, Mizoram University and UGC-DAE Consortium for Scientific Research, Kolkata.

Presented a paper on “Luminescence studies on Y₂O₃:Eu³⁺ nanoparticles prepared by Poly Method” during a *National conference on North East Regional Seminar on Trends in Colloid and Interface Science* (NERSTCIS-2014) organized by Department of Chemistry, NEHU Shillong-22 from 27th Nov. to 29th Nov., 2014.

Presented a paper entitled “Synthesis and Characterization of Bifunctional Hybrid

Nanocomposite $\text{LaPO}_4:5\text{Eu}@ \text{Fe}_3\text{O}_4$ ” at the Indo-US *Workshop on Nanoengineering in Medicine*, AIIMS, New Delhi from 17th -19th December, 2014.

Presented a paper on Preparation of nanomaterials with polyol technique and study their luminescence emission. at *National Conference on Frontiers of Research in Chemical Sciences (NCFRCS-2015)* from March 13th -14th, 2015 organized by Department of Chemistry, Manipur University and Department of Chemistry, DMC, Imphal.

Publications:

Published Abroad

Rai, D.P., Shankar, A., Sandeep Devi, N., Singh, L.R., Sharma, B.I., Ghimre, M.P., Thapa, R.K. (2015). *Study of Half-metallic Properties of Co_2YGe ($\text{Y}=\text{Sc}, \text{Ti}, \text{V}, \text{Cr}, \text{Mn}, \text{Fe}$; Density Functional Theory: Journal of Physical Science* 25(1) 45-57.

Singh, L.R. (2015). Photoluminescence Studies of ZnO , ZnO:Eu and ZnO:Eu nanoparticles covered with Y_2O_3 matrix, *Materials Science Application* 6, 269-278

Funds Received from Agencies including NEHU/UGC

Ongoing:

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1	Study particle size effect and role of sensitizers in the luminescence emission of nanoparticle oxide phosphors	PI	UGC (Aug.2013-July 2016)	6 Lakhs
2.	Preparation And Study On Effect/ Role Of Sensitizers On The Photoluminescence Properties Of Lanthanide Doped Gd_2O_3 And Y_2O_3 Nanocrystals: Dispersion In Organic Solvents	PI	DST	23 Lakhs
3.	Characterization and investigation of luminescence properties of Zn^{2+} and sulphate based nanophosphors doped with lanthanide and metal ions for the feasibility on luminescence dosimetry application	PI	BRNS	25 Lakhs

Academic Collaborations:

L. R. Singh

Has collaborative research with BARC, Mumbai and Manipur University.

IX ADMINISTRATIVE DEPARTMENT

COLLEGE DEVELOPMENT COUNCIL

Director : Dr. C. R. Diengdoh
Telephone : 0364-2721201/ 0364-2721202/ 0364-2721203/ 0364-2721204 (O)
E-mail : dircdc@nehu.ac.in/cdcnehu@gmail.com

The College Development Council is an intermediary between the University and the affiliated colleges admitted to its privileges. It plans for the integrated development of the affiliated colleges and provides them with the required help, guidance and advice. Serving as an academic guide to the college system it ensures availability and use of facilities in the University departments to the teachers in the colleges. It provides a forum for taking necessary steps for the continuous promotion, coordination and raising the standards of education in colleges.

The Council is the Principal Advisory Body to the Executive Council and the Academic Council in all matters relating to affiliation. It is constituted every two years and has representatives comprising university officials, faculty members, a representative of the State Government, principals and teachers of affiliated colleges.

The University has 63 affiliated Colleges, of which 32 are permanently affiliated and 31 are provisionally affiliated. The University also considers affiliating Minority Educational Institutions located anywhere in the country as per the provisions of the National Commission for Minority Educational Institutions (NCMEI) Act.

The Council is the liaisoning body for the UGC in guiding the affiliated colleges recognized under Section 2(f) and 12(B) of UGC Act, 1956 with all the procedural formalities to send proposals to the UGC for obtaining funds under the different schemes for the overall development of colleges, including minor/major research projects, faculty development programme for college teachers for pursuing M.Phil./Ph.D. etc.

The College Development Council appoints Subject Experts/Vice Chancellor's Nominees

as members of Selection/Screening Committees for appointing/placement of Assistant Professors (lecturers) in affiliated Colleges as per University/UGC norms.

The College Development Council nominates the NEHU representatives from among the academicians, to represent the University on the Governing Bodies/Advisory Committees of the affiliated colleges.

The Colleges visited by various Inspection Teams during the year 2014-15 for purposes of affiliation include:

1. Nongrum College, Zekabari, West Garo Hills
2. Jaintia Eastern College, Khliehriat, East Jaintia Hills
3. Mawlai Presbyterian College, Shillong, East Khasi Hills
4. Tura Government College, Tura, West Garo Hills
5. Don Bosco College of Teacher Education, Tura, West Garo Hills
6. Sankardev College, Shillong, East Khasi Hills
7. K.L. Bajoria College, Shillong, East Khasi Hills
8. Union Christian College, Umiam Khwan, Ri-Bhoi
9. Synod College, Shillong, East Khasi Hills
10. Regional Institute of Science and Technology, Baridua, Ri-Bhoi
11. Metas Adventist College, Surat, Gujarat
12. Raid Laban College, Shillong, East Khasi Hills

13. Tikrikilla College, Tikrikilla, West Garo Hills
14. Mendipathar College, Mendipathar, East Garo Hills
15. Khad-ar Doloi Law College, Jowai, West Jaintia Hills
16. Buddha Bhanu Saraswati College, Shillong, East Khasi Hills
17. Lady Keane College, Shillong, East Khasi Hills
18. Nabon Women's Synod College, Shillong, East Khasi Hills
19. Bormanik College, 3rd Mile, Upper Shillong, East Khasi Hills
20. Bissau College, Shillong, East Khasi Hills
21. Sohra Government College, Sohra, East Khasi Hills
22. Shillong College, Shillong, East Khasi Hills
23. NEIGRIHMS, Mawdiangdiang, Shillong, East Khasi Hills
24. St. Anthony's College, Shillong, East Khasi Hills

Actions taken on Affiliation Matters during the year 2014-15

For considering grant of affiliation under the following categories are as follows:

- I. Provisional Affiliation to New Subject(s)/ Course(s) of study in an Affiliated College/Institution: 2 Colleges: 1) Sohra Government College, Sohra. 2) Shillong College, Shillong
- II. Renewal of Provisional Affiliation: 20 Colleges

Administrative Department

- III. Permanent Affiliation of Subject(s)/ Course(s) of study in permanently affiliated colleges: St. Anthony's College, Shillong
- IV. Permission or Provisional Affiliation to start PG Department in an existing College/Institution: NEIGRIHMS, Mawdiangdiang, Shillong

One College was assessed and accredited by NAAC, Bangalore:

Metas Adventist College, Surat, Gujarat with Grade 'B'.

One College was reassessed and recredited by NAAC, Bangalore:

Lady Keane College, Shillong with Grade 'A'

In January 2015, an All India Survey on Higher Education (AISHE), conducted by the MHRD, Department of Higher Education, providing a data base on higher learning for the year 2013-14 was successfully uploaded for the University on the AISHE portal. The CDC also monitors the uploading of All India Survey on Higher Education (AISHE) data of the affiliated colleges.

In the year under report, the College Development Council has been instrumental in the convening the Meetings of the Working Committee constituted to undertake the task of working out relevant issues pertaining to the level Semester System at Undergraduate and in coordinating matters related to co-curricular activities with the affiliated colleges under NEHU.

EXAMINATION DEPARTMENT

Controller of Examinations : Dr. L. Cajee
Telephone : 0364-2721211/ 0364-2721212 (O); 9774026782 (M)
Email : offcoe@nehu.ac.in

- During the Academic Year under review, the Examination Department had effectively declared all Under Graduate results within a stipulated timeframe which have facilitated students seeking admission to Post Graduate Programme of the University and outside as well. The Department also took special measures in timely declaration of all Postgraduate results which in turn, enabled the students aspirant for higher academic pursuit in various Universities of the Country and abroad.
- The Examination Department is mandated to operate round the year on matters pertaining to various Under Graduate, Post Graduate and Professional Courses examinations including award of M. Phil and PhD Degrees of various disciplines that are offered by the University. With the increase of numbers of affiliated colleges and Academic Departments vis-à-vis implementation of semester system of examinations at its undergraduate level from the academic session 2015, the Examination Department is progressively envisaging to be equipped with necessary logistical support to meet the challenges ahead.
- As a continuous process, the Examination Department is conducting coursework examinations for M. Phil and PhD programme in accordance with the UGC guidelines and all results of course work examinations under the UGC's 7 Point Scale have been declared within stipulated time.
- The Examination Department has successfully declared the results of final year MS & MD Degrees examinations which are serviced at NEIGHRIMS.
- Under the directive from the UGC, the University has initiated steps for introduction of the semester system at its Under Graduate level which is to be implemented from the academic session of 2015. To implement semester system of examinations at the under graduate level, the Examination Department has organized three orientation workshops of three days duration each on "Paper setting and Evaluation" during the month of August - October 2014 by involving sizeable numbers of senior teachers from various affiliated colleges. The participants, who attended the said workshops, appreciated the task taken by the Examination Department to keep them abreast with the concept related to Undergraduate semester system of examinations and as such, it will yield optimistic results for successful implementation of semester system at Undergraduate level.

Administrative Department

- The Examination Department is in receipt of a substantial numbers of requests from external agencies for verification and authentication of certificates / documents issued by this University for the purpose of employment. The Department has made special provision to respond to these requests expeditiously. The Examination Department also taking adequate steps to digitize all confidential records maintained since its inception.
- In deference to the austerity measures undertaken by the Government of

India, Examination Department as initiated steps on curtailment of expenditure with regard to UG and PG Examinations.

- The Twenty Second Convocation of the University was held on 25th November 2014. Beside other dignitaries, the Hon'ble Governor of Meghalaya graced the occasion as the Chief Guest. The numbers of degrees awarded during the year 2013-14 is reproduced below:

Course	In Person	In Absentia	Total
PhD	97	30	127
M. Phil	4	1	5
PG Degrees	543	496	1039
Bachelor's Degrees	2213	7163	9376
Total	2857	7690	10547

- The following table shows the enrolment for the various Departments / Courses in the University

Student's Enrolment in the Departments /courses of the University (2014-15)

Sl. No.	Courses	Gen	ST	SC	OBC	M/F	Total
1	B.A. LLB	31	270	8	2	137/174	311
2	B. Arch	17	11	0	0	16/12	28
3	B Ed (SEDE)	149	157	19	74	154/245	399
4	B. Tech	276	286	90	42	534/160	694

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5	M.A	64	1338	5	8	413/1002	1415
6	M. Sc	114	309	9	3	281/354	635
7	M.Com	18	71	1	1	29/62	91
8	M Lib Info Sc	12	33	0	6	22/29	51
9	MBA	14	58	3	1	46/30	76
10	MCA	8	17	0	1	17/9	26
11	MFA	0	15	0	0	8/7	15
12	M. Tech	27	31	11	1	47/23	70
13	LLM	3	7	0	0	2/8	10
14	M. Ed	1	22	0	0	4/19	23
15	M. Phil	18	50	2	4	31/43	74
16	Ph. D	274	410	33	26	373/370	743
17	P G Diploma	48	41	8	10	43/64	107
18	FC SEDE	180	240	20	81	341/180	521
Grand Total		1254	3566	209	260	2498/2791	5289

•The following table shows the enrolment for the various Courses in the Affiliated Colleges of the university
Student's Enrolment in the Affiliated Colleges of the University (2014-15)

Sl. No.	Courses	Gen	ST	SC	OBC	M/F	Total
1	B.A(Pass)	1385	20842	140	128	10256/12239	22495
2	B.Sc (Pass)	20	316	2	5	158/185	343
3	B.Com (Pass)	325	1275	11	27	1073/565	1638
4	B.A (Honours)	612	10511	103	106	4050/7282	11332

Administrative Department

5	B.Sc (Honours)	623	3531	92	98	2135/2209	4344
6	B.Sc. HomeScience (Honours)	3	64	0	0	0/67	67
7	B.Com (Honours)	978	1747	39	73	1575/1262	2837
8	B.B.A (Honours)	381	164	21	10	353/223	576
9	B.C.A (Honours)	65	177	6	5	158/95	253
10	B.S.W	17	239	2	7	48/217	265
11	L.L.B	66	591	5	3	379/286	665
12	B.Ed	77	304	9	16	145/261	406
13	B.Sc (Nursing)	16	138	9	33	18/178	196
14	M.B.B.S	92	119	4	35	130/120	250
15	B.Tech (Civil Engineering)	100	191	58	36	320/65	385
16	B.Tech. (Computer Science Engineering)	45	36	8	33	84/38	122
17	B.Tech (Electronics and Communication Engineering)	69	18	5	25	88/29	117
18	B.Tech (Electrical and Electronics Engineering)	40	78	11	30	124/35	159
19	B.Tech (Meghanical Engineering)	103	28	15	53	190/9	199
20	M.B.A	52	1	1	2	22/34	56
21	M.C.A	35	31	4	5	39/36	75
22	M.S.W	6	43	1	0	9/41	50

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23	M.Sc	24	16	1	4	17/28	45
24	PGDCA	2	23	0	0	13/12	25
	Grand Total	5136	40483	547	734	21384/25516	46900

Administrative Department

FINANCE DEPARTMENT

Finance Officer-in-Charge : N.G. Marwein
Telephone : 0364-2721021(O)
Email : fo@nehu.ac.in

The Grants, Income and Expenditure account of the University for the Year 2014-15 is as follows:

Receipt	Rs	Payment	Rs
Balance B/F	595542090		
Non-plan grants from UGC.	1423782000	Non plan	
		Salary and wages	1062057178
Interest Non-plan grants.		Pension	218588839
Plan/UPE.		Revenue	159646209
Interest Plan/UPE grants.	81192090	Capital	24177977
Ministry of women and Child development: <i>Interest only</i>	278989	Plan	
		Salary and wages	70120962
Ministry of Social justice: <i>Interest only</i>	842301	Revenue	42088401
Other special assistance scheme and sponsored programme.	89972992	Capital	275849774
TOTAL	2191610462	<u>Other special assistance:</u>	
		Capital	6742827
		Revenue	40432881
		TOTAL	1899705048
		Balance carried forward	291905414

Internal receipt	111950642
Interest on S.B. Account of other funds	27226774

PLANNING DEPARTMENT

Deputy Register : Mrs. Annet Rynjah
Telephone : 0364-2721060/ 0364-2721062 (O)
E.mail :

In the year 1978, North Eastern Hill University created the Planning Department, with the objectives for designing and implementing, as well, the vision plan, for the development into of the university, in the field of Academic. Infrastructure welfare.

It is the central unit for budgetary planning of the university. On receipt of budgetary plan proposals from different Schools, Departments, Centre etc, it scrutinize and finalize the fund allocations to be made to individual Schools, department, centers in specific and the whole university in general.

Out of the Proposal for XII Five Year Plan (2012-2017) amounting to Rs.405, 44 lakhs

submitted to UGC, New Delhi and amount of Rs.134, 00 lakhs has been approved by the commission under the current plan period.

During the year 2012-13 an amount of Rs.1132 lakhs has been released as the first installment against XII Five Year plan period grants.

For the year 2013-14, the UGC has granted an amount of Rs.3500 lakhs as next installment toward General Development Assistance under this XII Plan period.

For the Year 2014-15 UGC has granted an amount of Rs. 1700.lakhs as next installment towards General Development Assistance under this XII plan period as per the details given below:

XII Plan Allocation	Name of the Item	Head of Account	Grant already sanctioned	Grant now being sanctioned	Total grant
2975.00	Grants-in-aid General (Recurring) (31)	1(D) 2552.00.131.02.02.31 CU(NER)	1463.25	566.11	2029.36
		1 (E) 2552.00.789..02.04.31 CU(NER) SC	284.38	95.26	379.64
		1(F) 2552.00.796.05.04.31 CU(NER) ST	184.37	38.63	223.00
		Total	1932.00	700.00	2632.00

Administrative Department

2075.00	Grants in aid Salary (36)	1(D) 2552.00.131.02.02.36 CU(NER) `	319.38	0.00	319.38
		1 (E) 2552.00.789.02.04.36 CU(NER) SC	92.19	0.00	92.19
		1(F) 2552.00.796.05.04.36 CU(NER) ST	88.43	0.00	88.43
		Total	500.00	0.00	500.00
8350.00	Grants of Capital Assets (Non-recurring) (35)	1(D) 2552.00.131.02.02.35 CU(NER) `	1587.12	775.00	2362.12
		1 (E) 2552.00.789.02.04.35 CU(NER) SC	356.44	150.00	506.44
		1(F) 2552.00.796.05.04.35 CU(NER) ST	256.44	75.00	331.44
		Total	2200.00	1000.00	3200.00
13400.00		Grand Total	4632.00	1700.00	6332.00

X CENTRAL SERVICES

BIOINFORMATICS CENTRE

Name of the Coordinator: Prof. Pramod Tandon

Deputy Coordinator : Prof. Suman Kumaria

Telephone : 0364-2550150/ 0364-2550300 (O)

E-mail : nehuniv.btisnet@nic.in, bicnehu@gmail.com;
profptandon@gmail.com
sumankhatrikumaria@gmail.com

Faculty :

Designation	Name and Qualification	Specialization
Professor	Pramod Tandon	Plant Biotechnology
	Suman Kumaria	Plant Biotechnology
AssistantProfessor/ Information Officer	Devendra K. Biswal	Bioinformatics, Evolutionary Computational Biology

Thrust Area of Research

Molecular characterization, Genome organization and expression in plants, animals and microbes, Parasitology, Crop improvement, Microbial genetics.

Brief Statement of Academic Activities

The Bioinformatics Centre (BIC) at North-Eastern Hill University (NEHU) has been set

up and funded by Department of Biotechnology (DBT), Ministry of Science & Technology under the Biotechnology Information System Network (BTIS) program since November 1999 with a view to catering to the needs of the scientific community in the far-flung north-eastern region of the country and to augmenting their research activities through information inputs. Rich in great variety of flora and fauna, the north-eastern part of the country has been

Central Services

identified as one of the bio-diversity 'hotspots'. As a part of the National Bioinformatics Network, the Centre's mandate is

Biodiversity Informatics, servicing as an information base in various areas of Biosciences. The most important area of research relevant to the north-eastern region being biodiversity, the facilities of the Centre are extensively used for preparation of databases. Besides, extensive work on parasite genomics, proteomics and metabolomics, evolutionary bioinformatics and phylogeny have also been initiated, apart from providing support to all disciplines of research in biotechnology.

The following are some of the major activities of the Centre:

- Nodal Centre of North-East Bioinformatics Network (NEBInet).

- Nodal Centre for operating DBT-sponsored Online Access Facility of Library Resources (OAFLR).
- One of the 18 nodal Centre in North-East Region to operate and monitor the DBT e-Library Consortium (DeLCON) facility.
- DBT-sponsored Bioinformatics National Certification Examination Exam Centre (BINC).
- Dissertation training for students pursuing post-graduation in biosciences.
- Training Programmes in Bioinformatics.

Studentship/Traineeship trained at Bioinformatics Centre, NEHU

A total of Six (6) students have been trained in the year 2014 - 2015

Sl. No.	Name	Affiliation	Title & details of the project work undertaken
1.	Mr. Karna Singh Yadav July 10 – Aug 10, 2014 (6 months)	Dibrugarh University	Systematic Evolution of rDNA Complex in Platyhelminthes
2.	Ms. Ruchishree Konhar in the DST Inspire scheme (2 months)	National Institute of Science Education and Research, Bhubaneswar	Phylogenomics and biogeography of the carnivorous plant family Nepenthaceae in the Order Caryophyllales based on ribosomal, mitochondrial and plastid markers.
3.	Ms. Sudeshna Saikia June 01-June 30, 2014 (1 month)	Tezpur University, Tezpur	Barcoding of selected markers in Platyhelminthes

4.	Ms. MongamRiba June 01-June 30, 2014 (1 month)	Tezpur University, Tezpur	Barcoding of selected markers in Platyhelminthes
5.	Ms. Sangita Sarmah June 01- June 30, 2014 (1 month)	Tezpur University, Tezpur	Barcoding of selected markers in Platyhelminthes
6.	Ms. Pragya Mohanty May 15 – April 15, 2014 (1 month)	OUAT, Bhubaneswar	Phylogenomics and biogeography of the carnivorous plant family Nepenthaceae in the Order Caryophyllales based on ribosomal, mitochondrial and plastid markers.

Seminars/Conferences/Symposia/Extension Programmes etc.

Attended

Veena Tandon

Participated in the 13th International Congress of Parasitology during August 10th - 15th, 2014 at the Camino Real Hotel Mexico City.

Pramod Tandon

Delivered lecture on Plant Resources of an Indian Biodiversity Hot-spot: Challenges and Opportunities.

Delivered lecture on the Role of Biotechnology for Conservation and Sustainable Utilisation of Plants from North-East India at Science Academies' Lecture Workshop entitled 'Vistas in Biology-Biotechnology & Biodiversity at Mizoram University during 14th -15th October, 2014.

Delivered lecture on Plenary Lecture on 'Bioresources and Sustainable Development: Challenges and Strategies for North-East India' at 1st National Bioresources and Sustainable Development Summit-2015 held at Institute of Bioresources and Sustainable Development, Imphal during 19th -20th February, 2015.

Suman Kumaria

Was invited as Guest Speaker under DBT Star College Programme (2014-2015) of St. Edmund's college, Shillong on 9th August, 2014. She delivered the lecture on 'Micropropagation: A lifeline for threatened plants' in the Department of Botany of the college.

Publications

Research Papers

Published Abroad

Devi, S. P, Kumaria, S., Rao, S. R., Tandon, P. (2015). Genetic Fidelity Assessment in Micropropagated Plants using Cytogenetical Analysis and Heterochromatin distribution: a Case Study with *Nepenthes khasiana* Hook f. *Protoplasma* 1-8.

Raomai, S., Kumaria, S., Kehie, M., Tandon, P. (2015). Plantlet Regeneration of *Paris polyphylla* Sm. via thin cell layer culture and enhancement of steroidal saponins in mini-rhizome cultures using elicitors. *Plant Growth Regulation* 75(1): 341-353.

Bhattacharyya, P, Kumaria, S. (2015). Molecular Characterization of

Dendrobiumnobile Lindl., an endangered medicinal orchid, based on randomly amplified polymorphic DNA. *Plant Systematics and Evolution* 301(1): 201-210.

Biswal, D. K., Chatterjee, A., Bhattacharya, A., Tandon, V. (2014). The Mitochondrial Genome of *Paragonimus westermani* (Kerbert, 1878), the Indian isolate of the lung fluke representative of the family Paragonimidae (Trematoda). *PeerJ*, e484.

Shailajan, S., Kumaria, S., Pednekar, S., Menon, S., Joshi, H., Matani, A. (2014). Chromatographic Evaluation of a Phytoestrogen Genistein from *Flemingiavestita* Benth: an Endemic Plant of North-East India. *Pharmacognosy Communications* 4 (4): 2-9.

Bhattacharyya, P., Kumaria, S., Diengdoh, R., Tandon, P. (2014). Genetic stability and Phytochemical Analysis of the *in vitro* regenerated plants of *Dendrobiumnobile* Lindl., an endangered medicinal orchid. *Meta gene* 2: 489-504.

Kalita, V., Kumaria, S., Tandon, P. (2014) Cryopreservation of Zygotic Embryos of *Pinus kesiya* Royle ex. Gord. by air flow dehydration. *Transient* 4: 8-13.

Singh, M., Kumaria, S., Tandon, P. (2014) *In vitro* multiplication of *Thuniamarshalliana* Rcbh. f. through mature seeds and pseudonodes. *Indian Journal of Biotechnology* 13: 268-273.

Paul, S., Kumaria, S., Tandon, P. (2014). Comparative study on the changes of Proteins and Oxidative Enzymes occurring in Protocorms and Protocorm-Like Bodies Systems of Development in the Orchid *Dendrobium hookerianum*. *Acta Physiologiae Plantarum* 36(8): 2113-2123.

Raomai, S., Kumaria, S., Tandon, P. (2014). Plant Regeneration through direct Somatic Embryogenesis from Immature Zygotic Embryos of the Medicinal Plant, *Paris polyphylla* Sm. *Plant Cell, Tissue and Organ Culture* 118(3): 445-455.

Ramchiary, N., Kehie, M., Brahma, V., Kumaria, S., Tandon, P. (2014). Application of Genetics and Genomics towards Capsicum translational research. *Plant Biotechnology Reports* 8(2): 101-123.

Research Projects

Ongoing

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1	Establishment of Portal for Indian Bioresource Information Network (IBIN)	PI: Prof. Veena Tandon Co-PI: Mr. Devendra Kumar Biswa	National Bioresources Development Board (NDBD), DBT, GOI	31.84 Lakhs

2	DBT-sponsored NER Twinning project on Next Generation Sequencing(NGS)-based de novo assembly of expressed transcripts and genome information of Orchids in North-East India (PI: Prof. PramodTandon, Devendra K. Biswal (CO-PI) and Dr. S. Sundar (PI), IIT, Delhi)	PI: Prof. PramodTandon Co-PI: Devendra Kumar Biswal Co-PI: Dr. D. Sundar, IIT, Delhi	DBT, GOI	273.05 Lakhs
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Completed during the Year

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount
1.	Next Generation Sequencing and Genome Information of Parasite Biodiversity of medico-veterinary significance in North-East India	PI: Prof. VeenaTandon PI (Collaborating Institution): Prof. Alok Bhattacharya, School of Life Sciences, Jawaharlal Nehru University, New Delhi Co-PI: Mr. Devendra Kumar Biswal	DBT, GOI	78.80 Lakhs

Academic Collaborations

Establishment of Portal for Indian Bioresource Information Network (IBIN) - VeenaTandon (PI), Devendra Kumar Biswal (Co-PI) under National Bioresources Development Board (NBDB, DBT, Govt. of India) (2011-2014).

DBT-sponsored NER Twinning project on Next Generation Sequencing (NGS)-based de novo

assembly of expressed transcripts and genome information of Orchids in North-East India (PI: Prof. PramodTandon, Devendra K. Biswal (CO-PI) and Dr. S. Sundar (PI), IIT, Delhi)

Others

Prof. Pramod Tandon appointed as Chairman, Local Advisory Committee, Regional Science Centre, Guwahati.

CAMPUS DEVELOPMENT DEPARTMENT

University Engineer : A.M. Kharmawphlang
 Telephone : 0364-2722061 (O)
 Email : amkharmawphlang@gmail.com

Sl No.	Name of the works	Allocated Amount	Completion Cost	Status
	Shillong Campus	In Rupees	In Rupees	
1	Remaining works of construction of glass dome for butter fly park at Permanent Campus, NEHU, Shillong.	2,23,72,856.00		Work in progress
2	Exhaustive renovation to Saramati Hostel at Permanent Campus, NEHU, Shillong	1,46,96,960.00		Work in progress
3	Extension of English Department at permanent Campus, NEHU, Shillong	44,57,000.00	Rs. 3877019/-	work completed
4	Construction of Guest House building near airport at Guwahati.	9,00,00,000.00		Work in progress
5	Construction of One unit of Warden residence at permanent Campus, NEHU, Shillong	29,73,000.00	Bill under preparation	work completed
6	Construction of First Floor above Animal House at Permanent Campus, NEHU, Shillong	52,12,430.00		Work in progress

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7	Providing laboratory furnishing to Cluster of Class rooms for Sciences at permanent Campus NEHU, Shillong	1,94,83,594.00		Work in progress
8	Extension of Law building at permanent Campus NEHU, Shillong	5,68,00,000.00	Rs. 43725308/-	work completed
9	Augmentation of water supply system with 3 (Three) new borewells and its allied works at permanent Campus, NEHU, Shillong	1,29,75,331.00	Rs. 12489370/-	work completed
10	Renovation of old residential quarters at permanent Campus NEHU, Shillong	1,00,00,000.00		Selection of contractor in progress
11	Providing parking facilities at permanent Campus NEHU, Shillong	1,00,00,000.00		Work in progress
12	Renovation of Internal electrification work of old hostels, dinning hall, Guest House, Academic building and SAIF .SH:1: Providing backup power supply of D G Set of 250 KVA for School of Life Sciences at permanent Campus NEHU, Shillong	Overall Rs. 100 lakhs. & allocation of sub-head is Rs. 3908348/-	Sub-Head Rs. 3513872/-	sub-head of the work completed. Remaining works yet to commence

Central Services

	Tura Campus			
1	Construction of 60 seated hostel for MBA students with Warden's residence at Tura Campus,Tura.	4,20,00,000.00		Work in progress
2	Construction of One Unit of L type quarter at Tura Campus, Tura	36,56,000.00	Rs. 2981276/-	work completed
3	Construction of Two Unit of Type II quarter at Tura Campus, Tura	41,88,000.00	Rs.3595076/-	work completed
4	Construction of Two Unit of Type III quarter at Tura Campus, Tura	51,99,000.00	Rs.4725390/-	work completed
5	Providing CFL lighting at Tura Campus, Tura.	27,20,000.00	Rs.2441253/-	work completed
6	Construction of Administrative Building Phase I at Tura Campus, Tura	1,53,00,000.00	Rs.11238036/-	work completed
7	Construction of 20 bedded Guest House at Tura Campus, Tura.	3,19,94,000.00		Work in progress
8	Construction of Service Building at Tura Campus, Tura.	1,53,13,000.00		Work in progress

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Jowai Campus (Total allocation is Rs. 600.00 lakhs under XII plan)			
S.H.-1 Construction of boundary wall at Wahiajer, Jowai Campus, NEHU.	2,23,02,000.00		Selection of contractor in progress
S.H.-2 Topography survey and erection of boundary pillars at Wahiajer, Jowai Campus, NEHU.	7,79,800.00	Rs. 6,95,600/-	work completed

COMPUTER CENTRE

Head : Prof. Asit K. Chandra
Telephone : 0364-2722622 (O)
E-mail : akchandra@nehu.ac.in
Faculty :

Designation	Name and Qualification	Specialization
Professor	A. K. Chandra, Ph.D. (Burdwan Univ.)	Computational Chemistry
Associate Professor	T. K. Sinha, Ph.D. (NEHU)	Physics (Computational)
Senior System Analyst	P. P. DEY, B.Tech. (REC Warangal)	On Study Leave
System Analyst	H. Kharshiing, B.Tech (Jawaharlal Nehru Engineering College)	Web & Desktop Programming, HPCC, Linux/Servers Administration.
Data Entry Operator	P. Kharlukhi, BCA (Deputed to Examination department from 1:00 P.M everyday)	Hardware & Networking, Computer Services.

Thrust Areas of Research

(i) Providing computational facility to faculty members, research scholars and students of the University; (ii) Developing and maintaining software program developed for in-house use; (iii) Assisting Examination Section in Automation; (iv) Conducting training programmes in computer related subjects

(both hardware and software). (v) Providing Computational Access to our HPCC (Sulekor) for research scholars of the University. (vi) Provide in-house customized websites and software's.

Brief Statement of Academic Activities

We conduct Short Term Computer Courses in MATLAB, Windows & MS-Office and Java.

Students' Profile**Intake Capacity: 39****Following Short Term Courses were conducted during April 2014-15:**

Course Name	SC	ST	OBC	Gen	Male	Female	From Meghalaya	From Outside
MATLAB	0	0	0	3	2	1	3	-
Windows & MS-Office	0	31	0	0	14	17	31	-
Java	2	0	0	4	4	1	5	-
Total								39

Seminars/ Conferences/ Symposia/ Extension Programmes etc.**Organized**

Organized the Spoken Tutorials Training Workshop, an IIT Bombay Project for spreading IT awareness, for Research Scholars on various softwares like C/C++, Java, Linux, LaTeX etc.

Publications***Published in India***

Paul, S., Sinha, T. K., Patnaik, R. (2015). Characterization of the Brain Attractors in Focal Cerebral Ischemic Rat Model using time series data analysis. *International Journal of Biomedical Engineering and Science*, 2(1), 1-10.

Paul, S., Sinha, T. K., Patnaik, R. (2014). Neural Network based Classification of EEG Signal in Focal Cerebral Ischemic Model of Rat. *International Journal of Advanced Information Science and Technology*, 32 (32), 49-54.

The Centre generated a revenue of Rs.40, 460/- (Rupees Forty Thousand Four Hundred and Sixty Only) during 2014-15.

Brief Statement of Activities

Dr. T. K. Sinha, Mr. H. Kharshiing and Mr. P. Kharlukhi delivered lectures in various Orientation Programmes/ShortTerm Courses in Research Methodology at Academic Staff College, NEHU, Shillong.

The Centre conducted course work in Computer for Ph.D students of Hindi Department, NEHU.

Computer Centre maintains software of Salary Section and Fund Section, NEHU, and assists loan data processing for Finance Section, NEHU.

The Centre is actively involved in Automated Tabulation work, printing of tabulation sheets, Marksheets Generation Software for Postgraduate programmes, and the development of a web portal for the Examinations Section, NEHU.

The Centre helps Research Scholars in using the HPC (SULEKOR) for heavy duty computational work.

Duties related to Administration's meeting for arranging and operating projectors, Computers and Networking.

Organized Online Test for Spoken Tutorials project.

NEHU DATA AND VOICE NETWORK (NDVN)

Administrative in-charge	:	Prof. P. Nongkynrih
Telephone	:	0364-2722831(O)
NDVN Facility numbers	:	0364-2726195/ 0364- 2726196/ 0364-2726197/ 0364-2551297 (O)
E-mail	:	admin@nehu.ac.in
Technical Officer	:	Mr. Ivan Lyngdoh
System Analyst	:	Mr. S. Nongkhlaw
Technical Assistant	:	Mr. S. N. Sharma
Field Assistant (Technical)	:	Mr. Kapoorchand Chaudhury (On contract)

The NEHU Data and Voice Network (NDVN) Facility, commissioned in 2003 as VSAT Facility, continues to provide data (Internet) and voice (telephony) access to all academic and administrative departments.

New Implementations (2014-2015).

The New Next Gen DELL Sonic Wall Super Massive 9200 Firewall with Analyzer was installed to replace the old firewall for better security and performance.

The DELL Sonic Wall Email Appliance Security (ESA) was installed for better mail security and spam filter.

WI-FI connection with LAN-Controller based Access Points (APs) has been commissioned to all hostels.

Six nos of IPDSLAM has been commissioned enabling Broadband connectivity over the telephone lines to all P-Type, L-Type, Type V, Type IV and Type III residential quarters.

The Extreme Summit Black Diamond 8806 core switch has been upgraded with 24 ports

1/10 Gbps Fibre connectivity and latest MSM and OS.

Existing Components providing continual services

1. Data Network

The National Knowledge Network (NKN) of 1 Gbps 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.

Data Network is available to all Departments, Centres and Administrative building with a capacity of over 3000 connections.

NEHU Mail Server with nehu.ac.in domain provides email facility to all faculty and officers of NEHU. The Mail Server is also functioning as an authentication server for WI-FI with LDAP service.

All servers and applications which include DNS, DHCP Web Servers, Mail Servers,

Proxy Servers, Gateway filtering for Viruses and Spams, Network Monitoring software and DHCP, run on HP Blade Chassis C7000 with 9 active Blade Servers. The other older Tower servers (IBM) are being utilized for voice IP-PBX management and backup.

The Extreme Summit Black Diamond 8806 core switch provides connectivity, routing, vlans access to and from all layers 2 (L2) switches in all Departments.

All Departments are connected to the core switch with the Extreme Summit X150-24t & Extreme Summit X150-48t L2 switches with gigabit uplinks.

Data/Internet connections to most departments having computer laboratory facilities are available with 30 numbers of 48 port L2 HP Procurve Switches.

The Intranet and Internet access of the Digital Repository under the Library Digitalization Project of UPE is being provided through the network infrastructure of NDVN.

The e-governance project with the University Management Software (UMS) runs on the Intranet network infrastructure of NDVN.

Limited WI-FI access is provided to each Department of the University including Multi-Use Convention Centre and Guest House.

2. Voice Network

Voice Network is extended to all Departments, Centres, Administrative building and most residences quarters with a capacity of over 1500 telephone extensions.

The Avaya S8730 server with two G650 Media-gateways located in NDVN, Administrative Building and Political Science Dept 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 to the server over IP and registered to the Server-over-IP-Back-Bone.

The 2 Mbps PRI and 2 Mbps Level-DID leased lines from BSNL integrated with the IP –PBX Server provides incoming and outgoing telephone calls facilities to/from the network.

Central Services

3. Website Data: Usage Statistics for www.nehu.ac.in

Summary by Month										
Month	Daily Avg				Monthly Totals					
	Hits	Files	Pages	Visits	Sites	KBytes	Visits	Pages	Files	Hits
March 2013	125011	90238	21818	6383	54843	47775987	98749	327273	1533371	1873173
Feb 2013	47297	33927	10470	2582	52090	246717362	80060	324593	1031742	1466209
Jan 2013	34407	23799	8515	2012	42506	43184685	60361	255470	713982	1032235
Dec 2014	31049	21500	7308	1783	46202	44583867	55280	226559	666514	962549
Nov 2014	30497	20486	7111	1798	43097	47257793	50368	199119	573608	833939
Oct 2014	28124	19735	6175	1885	44580	41689352	58452	191437	611790	871853
Sept 2014	31737	21292	10839	1816	42954	41833651	56310	336019	660056	983876
Aug 2014	30345	19948	9304	1751	40554	43584712	52532	279140	598442	910379
July 2014	36755	22126	17542	1716	42035	92978865	53198	543806	685912	1139420
Jun 2014	34091	23213	11966	1829	45059	42160280	54872	358999	696392	1022745
May 2014	59701	44370	19632	1489	30728	81530738	46189	608595	1375487	1850756
Apr 2014	89601	64384	20278	341	83	120703683	10594	628619	2002108	2777656
Total						894020979	676985	4279619	10989604	15746792

NEHU DATA AND VOICE NETWORK (NDVN) (TURA CAMPUS)

System Analyst (contract) : Mr. Deramun Ch.Momin
Email : deramunmomin@gmail.com

The NEHU Tura Data and Voice Network (NDVN) Facility commissioned in 2012 and continues to provide data (Internet) and voice (telephony) access to all Academic and Administrative Departments.

New Implementations for 2014-2015.

Installation of Projectors and Screen along with internet connection for all the Department class room in Permanent campus.

Existing Components providing continual services

1. Data Network

Internet leased line of 16 Mbps for Permanent Campus and 4 Mbps for Chandmary Campus from BSNL.

The Extreme Summit Black Diamond 8810 core switch provides connectivity with LAN tagging to all the Departments layers 2 switches.

All Departments and Administrative block are connected to the core switch with the Extreme Summit X150-24t L2 switches to corresponding VLAN with gigabit uplinks.

Data network is secured with Firewall Unified Threat Management Cyberoam300i which provides Web and Application Filter, Intrusion Prevention System (IPS), Gateway Anti-virus and Gateway Anti-Spam.

2. Voice Network

The Avaya server 8300 with G450 Media-gateways provide core IP Base PBX Voice network.

IP Phones is installed to all the Departments and Administrative Block.

STUDENTS' WELFARE CELL

Dean Students' Welfare : Dr. S. N. Lamare
Telephone : 0364-2721181(O)
E-mail : dsw@nehu.ac.in

The office of the Dean Students' Welfare continued to serve 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 Foreign Students.

Residence in Hostels: *In Shillong Campus the number of Students who were given hostel accommodation during the year 2014-2015 is as follows:*

		ST	SC	GEN	OBC	Total
R.S.	MEN	114	17	93	38	262
	WOMEN	114	10	74	27	225
P.G.	MEN	251	10	38	8	307
	WOMEN	320	9	29	12	370
U.G.	MEN	197	65	179	61	502
	WOMEN	92	23	54	23	192
Foreign Students	MEN	-	-	12	-	12
	WOMEN	-	-	2	-	2
Total		1088	134	481	169	1872

Educational Tour of Students:

The office coordinated the study tours of the following nine Academic Departments from Shillong Campus:

(1) Commerce, (2) History, (3) Physics, (4) Mathematics, (5) Statistics, (6) Khasi (7) Biochemistry, (8) LAW and (8) Education

The DSW Office supported the conduct of the following additional students' activities:

In order that the term of the NEHUSU and of the Academic calendar coincides, the Elections to the Union Executive Committee were held on 28th October, 2015 and the new office-bearers took charge soon thereafter. DSW office supported the Annual Event of NEHUSU to showcase talents of students of the University. During 2014-15 the Varsity Fest was held from 7th April, 2015 to 2nd May, 2015 and the same concluded with a week of celebrations from 22nd April, 2015 onwards where most of the final competitions took place. Other events organized by the NEHUSU were parting Social and Advance Christmas. DSW Office has also recently taken up "Self Defence Training

programme Martial Arts" (kickboxing, Wushu, Tai-chi) for ladies teachers and students of the University.

Scholarships/ Aid Fund:

During 2014-15, 70 P.G. Students (including ST/SC) were awarded NEHU Post-graduate Merit Scholarships @ Rs. 5400/- per student for one year and 15 U.G. students (including ST/SC) were selected for the students Aid @ RS. 4000/- per student.

Fellowship to the M.Phil/ Ph.D. Students:

During 2014-15 of the 363 (292 Ph.D. and 71 M. Phil) Research Scholars were selected / provisionally selected for the award of the UGC Non-Net Fellowship, 33 Ph.D. and 1 M.Phil scholars resigned essentially to avail of a better fellowship, thus bringing the number of awardees to 329. Each Ph.D. scholar was awarded Rs 8000/- per month while Rs.5000/- per month was awarded to M. Phil Scholars and contingency for Ph.D. Scholars @ 10,000/-per annum for Sciences and 8000/-per annum for Humanities and Social Sciences.

HEALTH CENTRE (SHILLONG)

Chief Medical Officer	:	Dr. M. Marwein
Senior Medical Officer	:	Dr. C. Mukhim
Medical Officer	:	Dr. M.B.G. Momin.
Medical Officer (Contractual basis)	:	Dr. I. Hussain
Pharmacists	:	Shri S. Kuki. Shri R. Mylliemngap.
Pharmacy Attendant	:	Shri Clinton H. Pyngrope (Daily Wage).
Staff Nurse	:	Smti. G. N. Syiem
Staff Nurse (Contractual basis)	:	Smti. Eemonmi Khyriem Ms. Marlin Kharumnuid.
Laboratory	:	Shri S. K. Kashyap STA (Laboratory Technician).
Laboratory Assistant	:	Shri S. G. Choudhury.
Office Staff	:	Shri H. M. Marak (LDC) Shri Parimal Dev -UDC.
MTS (Peon)	:	Shri B. C. Momin
MTS (Peon)	:	Shri Rohit Pradhan (Daily Wage).
Dresser	:	Shri Balarius Marwein.
Receptionist	:	Ms. A. Mawlong assisted by Smti. T. Lyngdoh and Smti. Janailin Nongkynrih (MTS).
Safaiwalla (MTS)	:	Smti Laxmi Kaur (Daily Wage). Shri W. Ryndong (Daily Wage).
Cleaners	:	Smti. D. Chetri Smti. D. Pathaw (Pro-rata). Smti. B. Synnah (Daily Wage). Smti. Laxmi Thapa (Daily Wage).

The NEHU Health Centre, Mawkynroh Umshing, Shillong is catering to the health needs of Teaching, Non-Teaching Staff along with their Dependants and the Students.

The following facilities are available at the Health Centre:

Consultation: The Medical Officers are available for consultation at fixed hours as well as for emergency consultation outside duty hours.

Pharmacy: The required medicines are purchased from the wholesale suppliers and stocked at the medical store. These medicines are issued to the patients based on the prescription by the Doctors.

Dressing room: Dressings, injections and minor surgical procedures are carried out in the dressing room.

Laboratory: Bio-Chemical and Clinical Pathology tests for blood and urine analysis are performed in the Laboratory of the Health Centre.

Observation room: In the observation room, moderately sick patients have been taken care off for giving IV drips etc.

In-Patient treatment: Patients requiring in-patient treatment are referred to the hospitals/ Specialist within Shillong and thereafter outside Shillong depending upon the necessity.

Ambulance: Ambulance service is provided during emergency for transporting the severely sick patients from residents to Clinic/Hospitals.

Emergency duty: The Resident Medical Officers and Resident Nurse are doing emergency duty outside duty hours whenever needed.

Credit Billing Facility: We have credit billing facility available for patients admitted in Nazareth and KJP Hospitals in Shillong and CMC Hospital at Vellore.

Sports Aid: First Aid service is provided at sport tournaments organized by the University.

Medical Camp: Free medical camps like Bone Mineral Density Test (BMD), Eye Check up, Diabetes and Blood Donation camps are being held at the Health Centre during the period.

HEALTH CENTRE (TURA CAMPUS)

Health Centre in NEHU Tura Campus is functioning from two different sites. One is from NEHU Tura, Permanent Campus, Chasingre and the other from NEHU Tura, Chandmari Campus. The Health Centre ministers to the health needs of the teaching and non- teaching staffs along with their dependents, as well as the students and scholars on campus. The centre has Dr. Mrs. Tangsil Dilme Ch. Momin as Senior Medical Officer and has an Honorary Medical Officer Dr A. K. Pal Choudhury (a retired state government doctor). One peon serves on a permanent basis.

The following facilities are available in the Health centre:

Consultation: Senior Medical Officer is available for consultation in the Permanent Campus, Chasingre , Tura in the morning hours and in Chandmari Campus, Tura during the afternoon hours, as well as for emergency consultations and advice outside duty hours. Honorary Medical Officer, Dr A, K. Pal

Choudhury, a retired state government doctor attends to patients in his residential clinic.

Pharmacy: Pharmacy could not be set up till today. Recently after an interview , an appointment offer has been given for the post of pharmacist but unfortunately the candidate did not join.

Laboratory: Not functioning as the offered candidate following an interview did not join.

Ambulance: One Sumo ambulance is serving to provide transportation of patients from residents to clinics/hospitals during emergencies.

Emergency and In Patient Treatment: For emergency treatments and for patients requiring in- patient treatments, they are referred to the hospitals/specialists within Tura and thereafter outside Tura depending upon the necessity.

Sports: First Aid service is provided at the sports tournament organized by the Campus.

HINDI CELL

Hindi Officer : Shri. Rajendra Kr. Ram
Telephone : 0364-2721331 (O)
Email : hindiofficer@nehu.ac.in

In pursuance of the Official Language Policy of the Govt. of India and to promote the progressive use of Rajbhasha Hindi, the Hindi Cell is established in this University. An Official Language Implementation Committee is already constituted in the University for proper Implementation of Rajbhasha Policy and to review the same from time to time.

During the year a Hindi Training Programme for the employee of this University is conducted under the aegis of the Govt. of India, Hindi Teaching Scheme, Shillong Centre. After completion of different courses viz., Probodh, 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 a one year special increment as per Government of India's orders and guidelines.

The Departmental Official language Implementation Committee held all the mandatory meetings in every quarter. The quarterly report regarding the progressive use of Hindi was forwarded to the Ministry of Human Resource Development and Ministry of Home Affairs, Govt. of India. Besides three Hindi workshops were conducted for the employees

in Shillong campus which is mandatory by the Ministry of Home, Govt. of India.

During this period The Hindi Cell conducts Hindi Divas in Shillong campus, in the month of September w.e.f. 14-28 September, 2014. On this occasion several Hindi Programmes i.e. Hindi extempore speech, Hindi Handwriting, Noting and Drafting competitions, Hindi Translation and Hindi Antakshri were conducted. The winners of these competitions were awarded a cash prizes with certificate on the valedictory function by the Vice Chancellor on 30th September, 2014.

During the year 2014-2015, Sri R. K. Ram, Hindi Officer and Sri A. K. Shing, UDC, Hindi Cell attended a three days National Seminar from 8 -10 October, 2014 in the Central University of Tamil Nadu, Thruvarur Tamil Nadu, Sri R. K. Ram, Hindi Officer attended a two days National Conference held on 14-15 November, 2014 in Vishakhapatnam, Andhra Pradesh under the aegis of Ministry of Human Resource Development, Govt. of India, New Delhi.

The Hindi Cell has published the first edition of an In House Magazine bearing the name 'NEHU JYOTI' in Hindi during this period.

INTERNAL QUALITY ASSURANCE CELL

Director : Prof. A. K. Misra
Telephone : 0364-2721070 (O)
E-mail : directoriqac@nehu.ac.in

The IQAC is meant for planning, guiding and monitoring Quality Assurance (QA) and Quality Enhancement (QE) activities of the institution. Accordingly, the IQAC, NEHU aims at systematization of the efforts and measures of the University towards academic excellence. The following are the functions performed by the IQAC, NEHU during 2014-15.

1. The IQAC was reconstituted on August 28, 2014, with Vice-Chancellor as Chairman, Three external Members, All Deans of Schools, Deputy Registrar (Estt II) and Director IQAC. The meeting of IQAC was held on November 20, 2014. It was decided to initiate the process of re-accreditation of the University.
2. The Letter of Intent was filed and the same was accepted by NAAC on March 18, 2015.
3. The IQAC constituted a Steering

Committee for preparing Self Study Report of the University for the re-accreditation (cycle 3). Two meetings of the Steering Committee were held to monitor the progress made in this direction.

4. The AQARs of the University were prepared for the years 2013-14 and up loaded on the University website.
5. IQAC screened many applications of faculty members for promotion under Career Advancement Scheme as an ongoing process.
6. Feedbacks from students were obtained and are being analyzed by a Committee comprising of external members drawn from IIM, Shillong.

CENTRAL LIBRARY (SHILLONG)

University Librarian : Shri. F. R. Sumer
Phone : 0364-2721251 (O)
E-mail : fsumer@nehu.ac.in

The NEHU Central Library continues to play a pivoted role to support teaching and research in the University. During the period it had discharged its basic duties primarily to build the library collection through procedures of acquisition, processing and organizing of books and journals for the benefit of the students, teachers and research scholars of the university. As in the previous years, to commemorate the birth of Dr. S. R. Ranganathan in order to keep the spirit of Librarianship alive, the Central Library celebrated Librarian's Day on the 12th August 2014 in the NEHU Central Library. The

celebration was graced by the presence of Prof. P. Shukla, Vice Chancellor, NEHU as the Chief Guest and Prof. D. Kharmawphlang, Centre for Creative and Cultural Studies, NEHU as Guest of Honour. The core attraction of the celebration was the un-veiling of traditional artifacts of Meghalaya by the Vice Chancellor. The guests present on this occasion includes library officers and staff, teachers, other library professionals and important dignitaries viz. Dr. (Mrs.) I. Majaw, former University Librarian, NEHU, Shillong and others.

PROGRESS DURING THE PERIOD

I. Library Budget

(Rs. in Lacs)

1.	Books	Non-Plan	10.00	115.00
		Plan	105.00	
2.	Journals and Periodicals	Non-Plan: For sciences (scientific journals) including Subscription to e-resources for School of Technology	90.00	110.00
		Non-Plan: Other than sciences periodicals for Humanities, Social Sciences etc.	20.00	
		Other Grants Plan: NBHM	14.00	14.00

Central Services

3	Infrastructure and Additional Manpower	Plan	16.94	16.94
4	Allocated for Tura Campus Library	Plan	12.06	12.06
5	Library Office Equipment	Non Plan	2.00	2.00
6	Recurring Expenditures & Contingency	Non Plan	6.75	6.75
8	Digitization: Manpower	Non-Plan	0.60	0.60
Grand Total				277,35,000

II. Library Collection : 2, 75, 873 Volumes.

III. Data Bank (Government Publications and Reports) : 244 Volumes.

III. Books added during the Year : 7,673 Volumes.

School-wise Break-Up

Social Sc	Eco., Mngs. & Lib. Sc	Human & Env. Studies	Humanities	Education	Physical Sc	Life Sciences	Info. Technology.	Gifts & others	Thesis	Total
989	698	296	3008	443	334	226	868	639	172	7673

IV. Periodical Subscription (Print)

(i) Foreign Journals : 128

(ii) Indian Journals : 117

Total : 245

(iv) University Teachers : Nil

(v) Non-Teaching Staff : 03

(vi) Technical Staff : 01

(vii) Visiting Lecturer/Professors : 04

(viii) Others (Including College Teachers) : 05

Total No. of Registered Members : 1594

Library User's Enrollment Including Usage of E-Resources and Other Online Services

(I) Enrollment during the year 2014-15

(i) Under Graduate Students : 321

(ii) Post Graduate Students : 1109

(iii) Research Scholars/M. Phil : 151

(II) Daily Average No. of Books issued/return/renewal (including Law Dept.) : 10,863

(III) Daily Average No. of users who availed consultation services : 79

- (IV) Average usage of Journals and Back Volumes : 1741 per month
- (V) Total Usage of Thesis/Dissertations:
Students : 300 per month approx.
Research Scholars : 200 per month approx.
Others : 50 per month approx.
- (VI) Photocopies of journal articles including Back Volumes made : 580 copies/month
- (VII) Average internet users : 729 per month
- (VIII) NEHU usage of UGC INFONET Digital Library Consortium e-journals depicted by total Articles downloaded during the period : 2, 18, 839 articles
- (IX) Usage of Online Databases: 2782 viz. Web of knowledge 1495, JCCC 1079 and MathSciNet 208.
- (X) Total number of books photocopied with pages missing: 16 Volumes
- (XI) Total Number of pages missing photocopied for replacement: 961 Volumes
- (XII) Total number of books photocopied for course book usage: 12 Volumes

Initiatives during the Period

(i) Awareness/ Orientation/Internship Programme for students and research scholars

Library Orientation Programme was conducted from 17th to 26th September 2014 in the NEHU Central Library Conference Hall for the first semester students of the different departments. The programme focussed on the library's rules and guidelines, in-house/online resources, features of the Online Public Access Catalogue and a guided tour of the NEHU Central Library.

(ii) Exposure to e-resources across the academic fraternity

Several presentations were made including poster displays on scholarly e-resources subscribed by the library including indiatat database and those available through the UGC INFONET Digital Library and DelCON consortium especially focusing on the requirement of MPhil and PhD scholars. Demonstration of anti-plagiarism software was also made on various forums for the benefit of the researchers and entire academic community. To facilitate uninterrupted usage, hyperlinks of e-resources are placed on the library homepage for the benefit of the users.

(iii) Membership with American Libraries in India

The library enrolled as a member of the American Libraries in India during the period. The library can thus borrow books etc. from the American Libraries on behalf of its readers.

iv) Subscription to e-journals, e-books and online databases

The following subscribed online databases and e-journals were renewed during the period:

(a) Biological Abstracts (b) IndiaStat (c) OECD Education iLibrary (Online & Archive) (d) Library and Information Abstracts (e) IEL Online.

Brief statement of activities/steps accomplished towards improvement of library services

- The library also extends its services to library members/visitors/scholars from other colleges/universities/institutions/ government departments from the region and other parts of the country who visited the library to consult the available resources.

- Initiated during the beginning of the year, re-shelving and re-organizing of books was accomplished to facilitate ease in recovery of books by its readers. In the process, most of the wooden shelves in major stack areas for books were also replaced with steel racks thus producing shelving space.
- Library Internship Programme was conducted by the NEHU Central Library from 7th August to 10th October 2014 for the post 4th semester students of the Department of Library & Information Science, NEHU, Shillong.
- While digitization of out of copyright documents including faculty publications is an ongoing process, the library during the period focused on the digitization of old PhD theses and Mphil dissertations that are available in the library in print with support from UGC under the Shodhganga Project. Through the initiative, support was also made available to set up the Electronic Theses and Dissertation (ETD) lab in the library to facilitate the uploading of soft copies of the theses and dissertations by the concerned research scholars to Shodhganga repository.

Academic Contributions

(i) Invitation as Resource Persons/Expert in Orientation Programme, Refresher Course, Committees etc.

- Shri F.R. Sumer, Deputy Librarian delivered a total of 4 lectures during the 28th & 30th Orientation Programme conducted by UGC-Academic Staff College, NEHU during 6th May 2014 and 6th February 2015 respectively. Invited as an expert-member by Union Christian

College (UCC), Umiam-Khwan for selection committee conducted for the post of Lower Division Clerk in Library which was held on 25th June 2014. Invited as a resource person during the workshop on Library Management (Automation) organized by Administration Training Institute Nagaland (ATIN), Kohima during 8th to 10th October 2014. Invited as a Rapporteur General during the IASLIC XXVI National Seminar organized by the Department of Library and Information Science, Guwahati University, Guwahati during 25th to 28th November 2014. Invited as an expert-member by NEIGRIHMS, Shillong for the selection committee conducted for the posts of Assistant Librarians and Senior Library and Information Assistants which was held on 12th and 13th February 2015.

- Dr. Lalmachhuana, Documentation Officer delivered two lectures on 29/5/2014 as a Resource Person for the Refresher Course in Education conducted by the UGC-Academic Staff College, NEHU during 26/5/2014 to 15/6/2014. Again delivered two lectures on 25/6/2014 as a Resource Person for the UGC-ASC 29th Orientation Programme (General) conducted by the UGC-Academic Staff College, NEHU during 23/6/2014 to 20/7/2014. Delivered a lecture on "Information Technology Applications in Libraries" on 21/10/2014 as a Resource Person for the Refresher Course in Education conducted by the UGC-Academic Staff College, NEHU during 13/10/2014 to 1/11/2014. Delivered two lectures on 26/11/2014 as a Resource Person for the Refresher Course in History (Theme: The

Making of Tradition) conducted by the UGC-Academic Staff College, NEHU during 25/11/2014 to 15/12/2014. Finally, delivered two lectures on 10/2/2015 as a Resource Person for the UGC-ASC 31st Orientation Programme (General) conducted by the UGC-Academic Staff College, NEHU during 9/2/2015 to 8/3/2015.

- Shri Manoj Rana, Assistant Librarian was invited as subject expert for inspection for visiting of North-Eastern Institute of Ayurveda & Homeopathy (NEIAH), NEIGRIHMS Campus, Mawdiangdiang, Shillong on 15th October, 2014.

(ii) As participants in workshops, seminars, trainings, meetings etc.

- Shri F.R. Sumer, Deputy Librarian participated in the National Workshop on “Digitization and Digital Preservation of Documents and Books” organized jointly by Centre for Development of Advanced Computing, Kolkata and the Directorate of Arts & Culture, Government of Meghalaya on 4th & 5th November 2014 at U Soso Tham Auditorium, Shillong. The programme was part of the project “Digital Library for North Eastern States” funded by Department of Electronics & Information Technology (DeitY), Govt. of India).
- Dr. Lahmachhuana, Documentation Officer alongwith Shri. Rangpher Rynjah, SPA and Shri. ShanborlangLyngdoh, JLA participated in the National Workshop on “Digitization and Digital Preservation of Documents and Books” organized jointly by Centre for Development of Advanced Computing, Kolkata and the Directorate

of Arts & Culture, Government of Meghalaya on 4th & 5th November 2014 at U Soso Tham Auditorium, Shillong. The programme was part of the project “Digital Library for North Eastern States” funded by Department of Electronics & Information Technology (DeitY), Govt. of India).

- Shri Manoj Rana, Assistant Librarian participated in the National Workshop on “Digitization and Digital Preservation of Documents and Books” organized jointly by Centre for Development of Advanced Computing, Kolkata and the Directorate of Arts & Culture, Government of Meghalaya on 4th & 5th November 2014 at U Soso Tham Auditorium, Shillong. The programme was part of the project “Digital Library for North Eastern States” funded by Department of Electronics & Information Technology (DeitY), Govt. of India).
- Shri J.P. Nongbri, Assistant Librarian participated in the National Workshop on “Digitization and Digital Preservation of Documents and Books” organized jointly by Centre for Development of Advanced Computing, Kolkata and the Directorate of Arts & Culture, Government of Meghalaya on 4th & 5th November 2014 at U Soso Tham Auditorium, Shillong. The programme was part of the project “Digital Library for North Eastern States” funded by Department of Electronics & Information Technology (DeitY), Govt. of India).
- Shri B. Sten, Information Scientist, participated in the National Workshop on “Digitization and Digital Preservation of Documents and Books” organized jointly

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by Centre for Development of Advanced Computing, Kolkata and the Directorate of Arts & Culture, Government of Meghalaya on 4th & 5th November 2014 at U Soso Tham Auditorium, Shillong. The programme was part of the project “Digital Library for North Eastern States” funded by Department of Electronics & Information Technology (DeitY), Govt. of India)

Training Imparted to other institutions

- Dr. Lalhmachhuana, Documentation Officer delivered two lectures-cum-demonstration on Scholarly Web Resources on 24/10/2014 as a Resource Person for the DBT Star College Scheme Workshop for Students conducted by the Department of Biotechnology, St. Edmund's College, Shillong.
- Shri B. Sten, Information Scientist, delivered a lecture on “Digitization and Digital Preservation: NEHU Central Library Resources” during the National Workshop on “Digitization and Digital Preservation of Documents and Books” organized jointly by Centre for Development of Advanced Computing, Kolkata and the Directorate of Arts & Culture, Government of Meghalaya on 4th & 5th November 2014 at U Soso Tham Auditorium, Shillong. The programme was part of the project “Digital Library for North Eastern States” funded by Department of Electronics & Information Technology (DeitY), Govt. of India).

Participation in College/Institute Visiting/ Inspection Team etc.:

Shri F. R. Sumer, Deputy Librarian, visited National Institute of Electronics and Information Technology (NIELIT), Shillong on 16/03/2015

as a member of the Inspection Team constituted by the University.

Dr. Lalhmachhuana, Documentation Officer was opted as a member of the Visiting Team constituted to visit Synod College, Shillong on 16/9/2014 for grant of renewal of Provisional Affiliation of B.Com (Hons) course.

Shri B. Sten, Information Scientist, accompanied the students of the Department of Library & Information Science, NEHU, Shillong as Teacher In-charge, during the Educational Tour to Kolkata from 1st to 11th February, 2015.

OTHER INFORMATION

(i) Library staff strength (Sanctioned Posts)

Librarian	= 1 (vacant)
Deputy Librarian	= 1
Assistant Librarian	= 4 (1 vacant)
Documentation Officer	= 1
Information Scientist	= 1
Other staff	= 42 (9 vacant)

(Includes PA, SPA, JLA, Technical, Secretarial)

(ii) Revenue in rupees generated during the year by the Library

Consultation fees	:	8,100/-
Overdue fines (including Law Library)	:	91,891/-
Total	:	99,991/-

Special achievements

Smti. R. Warjri, Semi Professional Assistant who retired from service on 31st May 2014 on superannuation, received the North-Eastern Hill University “Appreciation Award” during the Foundation Day celebration of the university.

CENTRAL LIBRARY (TURA CAMPUS)

North-Eastern Hill University, Tura Campus was established in 1996 to impart Higher Education with the Motto "RISE UP AND BUILD". The Campus now has 9 (Nine) Post-Graduate and Research Departments. They are English, Garo, Education, Rural Development and Agricultural Production, Management, Computer Application, Horticulture, Agri-Business Management & Food Technology and History & Archaeology.

During 2014-2015, the Campus Library achieved outstanding progress in terms of its collection. The Library continued to offer services like Reference, Circulation, Bibliography Services, OPAC, online access to e-journals & databases and internet browsing facilities to the students, research scholars, faculty members and non-teaching staff of the Campus. The Annual Report is detailed below:-

Allocation of Books and Periodicals 2014-2015 (Non-Plan)

Book Grant	Rs. 3.10 lakhs
Periodicals Subscription	Rs. 7.90 lakhs
Library Stationary and Others	Rs. 1.00 lakh
Total	Rs. 12.06 lakhs
Budget Allocation of Books (Plan)	
Book Grant	Rs. 11.00 lakhs
Binding of Books and Periodicals	Rs. 1.00 lakhs
Library Stationary and Others	Rs. 0.06 lakh
Total	Rs. 12.06 lakhs
Collection Development	
Text Book collection	24,610 Volumes
Books on Purchase	23,844 Volumes

Central Services

Books on Gift	726 Volumes
Books Added during the year (2014-2015)	
Books Added	1,836 Volumes
Purchased of Books	1,829 Volumes
Gifted Books	7 Volumes
No. of Journals Subscribed	118
Indian Journals	104
Foreign Journals	14
Library Membership Statistics	599 Members
Students of 9(Nine) PG Departments	390 Members
M.Phil. / Ph.D. Scholars	100 Members
Faculty Members	57 Members
Guest Lecturers	25 Members
Non-Teaching Staff	27 Members
Library Circulation Statistics	
Books Issued	13,243 Vols.
Books Returned	11,212 Vols.
Books Consulted	12,368
Statistics of Technical and Library Automation Unit.	
Books Classified (2014-2015)	1,836 Vols.
Books Added in the Database & Bar coded	1,836 Vols.

Statistics of Reprography Units (2014-2015)	
Total no. of Xerox Exposure Provided	47,659 exposures
Revenue Collected Year (2014-2015)	Rs. 42,143/-
Reprography Services	Rs. 25,091/-
Overdue Fine	Rs. 6,272/-
Disposal of Old Newspaper and Magazines	Rs.10,780/-

Brief Statement of Activities

Dr. A.K. Mondal, Senior Professional Assistant had successfully completed Ph.D. course work from Department of Library and Information Science, NEHU Shillong in August 2014.

Shri. A.J. Singh, Assistant Librarian, NEHU Tura Campus Tura has been granted Study Leave for one year w.e.f. 19 February 2015 for pursuing a Ph.D. program in Department of Library and Information Science, NEHU, Shillong.

Dr. A.K. Mondal Sr. Prof. Asstt, NEHU Tura Campus has assumed as Incharge Library, NEHU Tura Campus Tura w.e.f. 1.05.2015 and is looking after the libraries of NEHU Tura Campus Tura during the Study Leave period of Shri A.J. Singh, Assistant Librarian.

The NEHU, Tura Campus Library is scattered and running in three different location such as Central Library (Chasingre Campus) Management Library (Chasingre Campus) and Chandmari Library (Chandmari Campus).

Library is using Libsys4 software for its computerised housekeeping operations. All the books are in the Computer processed database and they are available on OPAC. Now Library resources are also available on Web-OPAC.

1. Library Staff.

a) *Central Library, Chasingre Campus*

- i) Shri R.P. Yadav, Peon (MTS)
- ii) Shri. Jeraltus A. Sangma, Gatekeeper (NEHU, Contract).
- iii) Smt. Shaira A. Sangma, L.D.C (NEHU, Contract).
- iv) Shri. Jonash M. Momin, Attendant (Outsourcing).
- v) Shri. Nengsan M. Momin , Attendant(Outsourcing).
- vi) Shri. Alexander A. Sangma, Attendant (Outsourcing).

b) *Chandmari Campus Library*

- i) Dr. A.K. Mondal, Incharge(Sr. Prof. Asstt.).
- ii) Shri Udai Nath Naik, Peon (MTS).
- iii) Smt. Sita Chetri, Peon (MTS).
- iv) Miss Dilys Biangca R. Marak, LDC (Outsourcing).
- v) Mr. Salgira S. Sangma, LDC (Outsourcing).

Central Services

- vi) Miss Gresilchi R. Marak, Attendant (Outsourcing).
- vii) Smt. Shima A. Sangma, Attendant (Outsourcing).
- c) **Management Library**
 - i) Shri.B. K. Singh, Peon (MTS).
 - ii) Smt. Meritha M. Sangma, LDC (NEHU Contract).
 - iii) Mr. Trainithson A. Sangma, Gatekeeper (Outsourcing).

NEHU, Tura Campus Library is not only rendering services to its academic user communities but also providing Library services to the neighbouring colleges of West 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.

NATIONAL SERVICE SCHEME CELL

Programme Coordinator	:	Dr. Lakhan Kma
Telephone	:	0364-2721151/ 0364-2721152/ 0364-2721153 (O)
Fax	:	0364-2721151(Fax)
E-mail	:	nss.nehu@gmail.com .
Postal Address	:	Programme Co-ordinator, NSS Cell, NEHU Administrative Building, Umshing Mawkynroh, Shillong-793022.

The National Service Scheme (NSS) of Government of India envisages to utilize the free time 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 21819 comprising students from 37 colleges, 1 Medical Institute and 2 Post Graduate units with 72 Programme Officers.

1. Review Meeting

A Review Meeting was held for NSS Programme Officers of various institutions from East, West Khasi Hills, Jaintia Hills, Ri Bhoi District and Garo Hills District on the 6th May, 2014 at the Conference Room, Administrative Building, NEHU, Shillong. 33 NSS Programme Officers attended the meeting.

The NSS State Advisory Committee meeting was held on 20th May 2014 at Main Secretariat Building, Shillong. Programme Coordinator attended the same.

The 34th NSS University Advisory Committee meeting was held on 4th December 2014 at NEHU, Shillong.

5th Zonal Workshop on considering NSS as Elective Subject at the UG level was attended by the Programme Coordinator in Ranchi University on 23-24th May 2014.

2. Blood Donation

This year 540 NSS volunteers have made donations to the various blood banks in the state through blood donation camps and emergency donations. These camps were conducted in collaboration with the Meghalaya AIDS Control Society, (MACS) State Blood Transfusion Council (SBTC) and the blood banks of Pasteur Institute, Nazareth Hospital, NEIGRIHMS and Tura and Jowai Civil Hospital.

3. NSS Mega Camp

10 NSS volunteers along with 1 contingent leader from P.G NSS unit NEHU attended the NSS Mega Camp at Ladnun, Rajasthan from 5th – 16th September, 2014.

4. Indira Gandhi National NSS Award:

Mr. Banjied Warjri, NSS volunteer, St. Edmund's College, Shillong was conferred

with the IGNSS Award on 19th November 2014 at New Delhi.

5. Republic Day Parade Camp

The NSS Cell, NEHU organized the Selection camp for the Pre Republic Day Parade Camp at NEHU Community Centre on 9th September 2014. Around 60 NSS volunteers participated.

10 NSS volunteers from different colleges participated at the Pre Republic Day Parade Camp at Kalinga Stadium, Bhubaneswar, Odisha from 9th – 18th October 2014.

2 NSS volunteers from Tura Govt. College attended the Republic Day Parade Camp at New Delhi from 1st - 31st January 2015.

6. National Youth Festival

10 NSS volunteers from 3(three) NSS units along with 1 Programme Officer attended the XIX National Youth Festival at Guwahati (Assam) held from 8th – 12th January 2015.

7. North East NSS Festival

29 NSS volunteers and 1 Programme Officer from Sngap Syiem College, Mawkyrwat of Meghalaya attended the North East NSS Festival held at Nirjuli, Arunachal Pradesh from 3rd - 7th June, 2014.

30 NSS volunteers and 2 NSS Programme Officers from Ri-Bhoi College, Nongpoh and Thomas Jones Synod College, Jowai attended the NE NSS Festival at Kohima, Nagaland from 13th -17th June, 2014. Programme Coordinator also attended the same as guest speaker.

8. Adventure Camp

The NSS unit of Tura Government College organized an *adventure programme* on 13th September 2014 to Ganol River as part of the Regular Activities.

16 NSS volunteers from 3 colleges attended a *Summer Adventure Camp* at Dharmshala, Himachal Pradesh from 19th – 28th September 2014.

The NSS unit of St. Anthony's College, Shillong organized a *trekking expedition* towards Shillong Peak on 8th October, 2014. 40 NSS volunteers along with Programme Officer participated.

An *Adventure camp cum Trekking* was organized by the NSS unit of Shillong College on the 23rd October 2014 to *David Scott's Trail, Mawphlang*. About 50 NSS volunteers took part in this camp.

The NSS unit of Tura Government College, Tura organized a *trekking* to Ranggol-wari cum *awareness programme* on degrading environment due to misuse and exploitation of natural resources in the vicinity of Rongkhon River on 15th November, 2015. 40 NSS volunteers along with 2 NSS Programme Officers participated.

The NSS unit of Seng Khasi College, Shillong organized *trekking* from the college campus to Mawpat and Mawtarwar village on 26th November 2014. 100 NSS volunteers along with Programme Officers participated.

The NSS unit of St. Edmund's College, Shillong in collaboration with Meghalaya Adventure Association, Shillong undertook a *caving expedition* to Mawmluh Cave, Sohra on 12th December 2014. 25 NSS volunteers along with Programme Officers participated.

9. Special Camps: Under the theme of "Healthy Youth for Healthy India"

21 Special Camps were held at various places as highlighted below:

Shillong College, Shillong at *Laitkseh village*, from 21st - 26th April 2014.

P. G. Unit, NEHU, Shillong at *Nongkohlew Village, Mawtawar* from 23rd - 29th July 2014.

Shillong College, Shillong at *Nongpathawvillage*, from 29th September - 5th October 2014.

St. Edmund's College, Shillong at (a) *Mawkasiang village* and (b) *Mawdulop village* from 29th September - 5th October 2014.

Thomas Jones Synod College, Jowai at *Pynthor Langtein village* from 29th September - 5th October 2014.

St. Anthony's College, Shillong at *Swer village* from 1st - 8th October 2014.

Synod College, Shillong at *Mawpdangvillage* from 13th - 19th October 2014.

Jaintia Eastern College, Khliehriat at *Lumchyrimvillage* from 20th - 27th October 2014.

Tura Government College, Tura at (a) *Megonggre village*, (b) *Dopgre village* and (c) *Boldorenggrevillage* from 24th - 30th October 2014.

Sngap Syiem College, Mawkyrwat at *Pawphlang Village* from 29th October - 4th November 2014.

Durama College, Tura at *Subalgrevillage* from 17th - 23rd November 2014.

Captain Williamson Memorial Government College, Baghmara at *Daset, Nalsagihimvillage* from 21st - 26th November 2014.

Mawsynram Border Area College, Mawsynram at *Phlangmawsyrpatvillage* from 24th - 29th November, 2014.

Lady Keane College, Shillong at *Pingwait village*, Mawkyrnrew block from 1st - 7th December, 2014.

Mendipathar College, Mendipathar at *Tangsim A.wevillage* from 3rd - 9th December 2014.

Sankardev College at *Kyrdemkhla village*, Laitkroh from 6th - 12th December, 2014.

Nongstoin College, Nongstoin at *Nongrangoi village* from 8th - 13th December, 2014.

Acheng Rangmanpa College, Mahendraganj at *Shilhaguri village* from 10th - 16th December, 2014.

Major activities undertaken during these camps

Socio-economic survey of the village, literacy programmes, demonstration on rural technologies and low cost sanitation, disaster management, formation of SHG's, waste disposal and composting, cleaning drives, white washing of local schools, digging of water ponds/fish ponds, asset creation, quiz/debate, sports competitions, trekking, awareness on HIV/AIDS, drug abuse etc. Besides these activities, free medical and eye check-up camps have become a regular feature during these camps. We are grateful to the DMHO's of the different districts and to Bansara Eye Care Centre, Shillong for their support.

10. Workshops/ Trainings/Orientations/ Seminars

The NSS unit of Seng Khasi College conducted an *orientation programme* for the newly enrolled students at the college campus on 2nd July 2014.

The NSS unit of Sngap Syiem College conducted an *orientation programme* for the newly enrolled students at the college campus on 15th July 2014. 180 NSS volunteers attended.

The NSS unit of Nongstoin College in collaboration with Nehru Yuva Kendra organized a 3 day seminar on "*Youth Leadership*

Training-cum-Community Development programme” from 28th – 30th July 2014 at Nongstoin College. About 60 NSS volunteers participated.

One Programme Officer from St. Edmund’s College attended a ***Training of Trainers on Social Harmony & National Unity*** at Dimapur, Nagaland organized by RGNIYD and NSS regional Centre, Guwahati from 26th – 30th July 2014.

The NSS unit of Thomas Jones Synod College organized the ***State and District Level Workshop of the tenth Annual Status of Education Report, (ASER)*** at the college campus from 2nd – 6th September, 2014.

The NSS unit of Union Christian College organized a workshop on ***Waste Management and Recycling*** at the college auditorium on 6th September 2014. Around 200 volunteers participated and around 800 students were benefitted.

20 NSS volunteers of St. Anthony’s College and Shillong College attended a ***workshop on Goal Setting*** organized by the Syngkhong Rympei Thymmai (SRT) on 13th September 2014 at KJP Conference Hall, Barik.

Around 70 volunteers from different college attended a one day ***training on HIV/AIDS*** at Don Bosco Youth Centre, Shillong on 29th October 2014. The programme was conducted by Meghalaya AIDS Control Society, Shillong.

The NSS unit of Lady Keane College, Shillong organized a ***one day workshop on Road Safety and Traffic Rules*** at the college campus on 30th October 2014. The Programme Coordinator was the Chief Guest for the programme.

Orientation lecture was delivered by the Programme Coordinator on the NSS Orientation

Programme for volunteers in ICAFI University on 3rd February 2015.

The NSS Cell, NEHU organised a ***National Seminar*** on Role of NSS in Nation Building - Scope and Challenges on 5th & 6th March 2015 at NEHU. Around 150 participants participated.

11. NSS Day

The NSS Cell NEHU in observance of the 44th NSS Foundation Day organised a day long programme on 24th September 2014 at NEHU Convention Centre, Shillong. Around 650 volunteers along with Programme Officers from different institutions attended the programme. Shri. Cyril V. Diengdoh, Deputy Commissioner I/C East Khasi Hills District was the chief guest on the occasion in the presence of Prof. P. Shukla, Vice-Chancellor, NEHU and Dr. H. Iangrai, SLO, NSS. The University Level NSS Awards were also presented on the occasion. The best NSS Unit was awarded to ***Jaintia Eastern College, Khliehriat*** and the best Programme Officers were awarded to (i) ***Mr. Davidson Diengdoh of Jaintia Eastern College, Khliehriat.*** (ii) ***Dr(Mrs.)Sharalyne Khyriemujat of Shillong College, Shillong.*** The best NSS Volunteer Awards were given to (i) ***Mr. Banjied Warjri of St. Edmund’s College, Shillong,*** (ii) ***Mr. Royal Nongtdu of Jaintia Eastern College, Khliehriat,*** (iii) ***Mr. Pynbianglang Marboh of P. G. NEHU, Shillong,*** (iv) ***Mr. Andreas Myrmen of St. Anthony’s College, Shillong,*** (v) ***Ms. Albinia Diengdoh of Umshyrpi College, Shillong and*** (vi) ***Ms. Saphina Marboh of Shillong College, Shillong.*** The awards were given on the basis of their committed and effective participation in community service.

The day ended with a variety programme which comprised songs, dances, skits and multi-varied cultural items presented by the volunteers.

12. Environmental Programmes

The NSS unit of P. G. NEHU, Shillong organized a 4 (four) day **cleaning-cum-beautification drive** of the campus including water bodies on 3rd, 4th, 7th and 8th April 2014. 38 NSS volunteers actively participated.

The NSS unit of Shillong College in collaboration with Meghalaya Urban Development Authority (MUDA) observed this day by organizing a brief talk on **Zero Litter Campaign and cleaning drive** in and around the college campus on 4th June 2014. On 5th June 2014 the unit in collaboration with the local village dorbar and local youth club organized cleaning drive at the **river Umiew**, Smit village as part of the clean **river Umiew campaign**. Around 110 volunteers participated.

The NSS unit of Women's College, Shillong organized a **Tree plantation and awareness programme** at Umtung Village on 5th June 2014. 15 NSS volunteers along with Programme Officer took part in the programme.

The NSS unit of Thomas Jones College, observed the World Environment Day by organizing a **poster painting competition and tree plantation** on 5th June 2014 at the college campus.

The NSS unit of St. Anthony's College organized a **cleaning drive** outside the college campus on 9th June 2014. Around 80 NSS volunteers participated.

The NSS unit of St. Edmund's College organized an **Environmental Fair** at the college campus to raise awareness on a plastic free world and adoption of the 3 **"R"- Re-use, Reduce and Recycle**. An **exhibition-cum-sale** of products made from waste materials called **"wealth from waste"** was a major attraction at the fair.

The NSS unit of St. Anthony's College in collaboration with Botany Department organized a talk on **Waste Management** and conducted a **tree plantation** at the college campus. 20 NSS volunteers participated and 80 saplings were planted.

The NSS unit of Christian Academy College organized **tree plantation drive** at Mawpran village, Nongrah. 150 saplings were planted and around 60 NSS volunteers participated.

The NSS P. G. NEHU unit observed this day by organizing various programmes including **cleaning drive, tree plantation** in front of Multi-Use Convention Centre, NEHU followed by **quiz, essay competitions and a documentary film on environmental issues** at Kendriya Vidyalaya School, NEHU. 70 saplings were planted and about 25 NSS volunteers participated.

The NSS unit of Seng Khasi College organized **cleaning drive** at the college campus and in some areas of Mawlai including one of the tourist spot at Mawlai Nongkwar on this day.

In observance of **Van Mahotsav Week** the NSS unit of St. Edmund's College and Seng Khasi College in collaboration with the Dorbar Shnong Mawionggrim jointly organized **cleaning drive -cum-tree plantation** along the National Highway 40 on 12th July 2014. About 200 NSS volunteers participated and 100 saplings were planted.

20 NSS volunteers participated at the **Plantation Drive** in the college campus organized by NSS unit of Nongstoin College in collaboration Department of Horticulture on 16th July 2014.

The NSS unit of Tura Government College organized a **cleaning drive** in the college campus on 26th July 2014. Around 38 NSS volunteers and 2 Programme Officers participated.

NSS unit of Nongstoin College organized a **cleaning drive** at the college campus on 20th August 2014.

The NSS unit of Shillong College in collaboration with the Local Dorbar organized **tree plantation** on 26th August 2014 at Laitlum village. 500 saplings were planted.

The NSS unit of Thomas Jones Synod College, Jowai organized a **cleaning drive** at Krang Suri Falls, a tourist site under Amlarem Sub-Division on 20th September 2014. 40 NSS volunteers participated.

About 600 (approx) NSS volunteers from different institutions participated at the **Swachh Bharat Campaign** on 2nd October, 2014. Cleaning drives by various units were organised in their respective adopted villages and campuses. Participation of NSS volunteers in the Marathon organized by the district administration East Khasi Hills was also a highlight of the day.

The unit of Mawlai Presbyterian College conducted a **cleaning drive** at the college campus and tourist spots of Beadon Falls and Bishop Falls on 18th November 2014.

13. District Level NSS Meet

The NSS unit of Jaintia Eastern College, Khliehriat organized the first Inter District NSS Festival for the students of Jaintia Hills Districts from 2nd – 5th December 2014. More than 200 NSS volunteers along with Programme Officers from different colleges of East and West Jaintia Hills Districts attended the programme.

The unit of Sngap Syiem College organized the second District level NSS Meet for students of West Khasi Hills district at the college campus, Mawkyrwat from 11th-14th December, 2014. About 200 NSS volunteers from different

colleges of East, West and South West Khasi Hills District attended the same.

14. Other Activities

The NSS units in observance of the **International Day on Biological Diversity** organized various programmes which included **presentations, poster, essay and slogan competitions** on 22nd & 23rd May 2014 at their respective campuses.

The NSS unit of Shillong College observed the **World Anti – Tobacco Day** on 31st May 2014 by organizing various programmes including **poster, painting and slogan competitions** at the college campus. The volunteers actively participated on this day.

The NSS unit of Nongstoin College organised a **street play** and an Awareness programme on Disaster Preparedness on 12th June 2014 in collaboration with District Disaster Management Authority, Nongstoin at the college campus. 40 NSS volunteers participated.

The NSS unit of Sngap Syiem College observed the **International Day against Drug Abuse & Illicit Trafficking** at the college campus on 26th June 2014. Around 50 NSS volunteers attended.

The NSS unit of Thomas Jones College, Jowai observed the **International Day against Drug Abuse & Illicit Trafficking** at the college campus on 26th June 2014 by organizing extempore speech competition.

The NSS unit of Seng Khasi College in observance of the **World Population Day** organized an **essay, slogan & poster competitions** on the theme **“The Impact of Rapid Population Growth on the environment”** at the college campus on 11th July 2014.

6 NSS volunteers of Nongstoin College participated at the **Inter-District Youth Exchange Programme** at Shillong, organized

by Nehru Yuva Kendra, Zonal Office from 13th – 19th July 2014.

The NSS unit of Women's College took part in a *rally* on 24th July 2014 for observance the *World Population Day*. 15 NSS volunteers participated.

The NSS unit of Sngap Syiem College organized an awareness programme on "*NSS and its activities*" at Rangthong Christian Higher Secondary School to encourage other institutions to join the NSS on 29th July 2014. About 10 NSS volunteers of the college participated.

15 NSS volunteers attended the *State Level Inter-District Youth Exchange Programme* at Tura from 3rd – 9th August 2014 organised by Nehru Yuva Kendra, Zonal Office.

The NSS unit of Union Christian College organized a *poster, slogan and photography competition* on the topic "*Youth & Mental Health*" at the college auditorium on 29th July, 4th & 7th August 2014. About 307 volunteers participated.

The NSS unit of Sngap Syiem College in collaboration with RRC and MACS organized a *slogan, artwork, photography and "Phawar"* competition in observance of *International Youth Day* on the theme "*Youth & Mental Health*" on 12th August 2014 at the college campus. About 200 NSS volunteers participated.

The NSS unit of Women's College observe the *International Youth Day Celebration* on 12th August 2014 by organizing a short programme for the students of the college.

The NSS unit of Sngap Syiem College attended the *Independence Day celebration* at Maharam Government Higher Secondary School on 15th August 2014. About 50 NSS volunteers participated.

4 NSS volunteers of Shillong College participated in the *cycle rally-cum-symposium* in observance of *World Suicide Prevention Day* organized by Sanker, Shillong on 10th September 2014.

50 NSS volunteers attended *Apiculture Training Programme* (Apiculture Mission) organized by Meghalaya Khadi & Village Industries Board, West Khasi Hills District, at Nongstoin College on 16th September 2014.

30 NSS volunteers of Thomas Jones Synod College, Jowai attended *District level training* and were engaged in conducting survey in 30 selected villages of Jaintia Hills on the Annual Status of Education Report 2014 from 22nd – 26th September 2014.

The NSS unit of Mawlai Presbyterian College organized an *awareness programme* on Addictions & HIV/AIDS in collaboration with New Hope Centre, Shillong at the college campus on 10th October 2014. About 100 volunteers attended.

The Red Ribbon Club, NSS Tura Government College, Tura participated in the celebration of *National Voluntary Blood Donor's Day* 2014 held at Don Bosco College for Education Seminar Hall on 28th October 2014 in collaboration with Blood Bank, Tura Civil Hospital, Tura, Red Ribbon Club (NSS), Don Bosco College and Durama College, Tura.

The NSS unit of Women's College observed the *Rashtriya Sankalp Diwas (National Re-dedication Day)* on 30th October 2014 in the college Auditorium. 60 NSS volunteers along with other students of the college were present during the function.

The NSS unit of Women's College observed the *Rashtriya Ekta Diwas (National Unity Day)* on 31st October 2014.

On the occasion of **National Unity Day** the NSS unit of Union Christian College, Umsaw Khwan organized a **cleaning drive** at the college campus on 31st October 2014. More than 300 NSS volunteers and faculties participated at the programme.

The NSS unit of Nangtalang College, Nongtalang organized a day long programme on 31st October 2014 on account of Birth Anniversary of Sardar Vallabhai Patel. **Flag hoisting, floral tribute, Rashtriya Ekta Diwas Pledge, Run for Unity and a football match** between local football clubs were the highlights of the programme.

The NSS unit of Nongstoin College, Nongstoin organized a **State level debate and painting competition** on 4th November 2014 at the college premises. 14 participants from 7 Higher Secondary Schools and colleges participated under the theme **“Coal mining in Meghalaya a boon to the State and Society”**.

The NSS unit of Union Christian College, Umsaw Khwan organized a 2 (two) day workshop/training programme on **“Online Services and E-Commerce”** on the 4th and 5th November 2014 at the college.

The NSS unit of Tura Government College, Tura participated in the **100 Drums Wangala Festival 2014** at Asanang from 6th – 8th November 2014 in collaboration with 100 Drums Wangala Festival Committee, Asanang and ICTC, Tura Civil Hospital, Tura.

The NSS unit of Shillong College, Shillong organized a **Food Fest** at the college campus on the 8th November 2014. NSS volunteers and faculty members participated at the same.

Approximately 50 NSS volunteers from different colleges took part at the **walkathon** organized by Bansara Eye Care on the occasion

of World Diabetes Day on 14th November 2014.

The NSS unit of Nongstoin College, Nongstoin Celebrate the **National Integration Day** on 19th November 2014 at the college auditorium.

The NSS unit of Sngap Syiem College, Mawkyrwat in collaboration with Reserve Bank of India, Shillong Branch highlighted about the various issues related to the objectives & function of RBI, **Journey of Money in India and circulation of money** on 27th November 2014.

The NSS unit of different colleges of the state participated on **World Aids Day** organized by Meghalaya Aids Control Society at State Central Library on 1st December 2014.

The NSS unit of Sngap Syiem College, Mawkyrwat in collaboration with the Office of Deputy Commissioner South West Khasi Hills District organized one day awareness on **clean and green campaign programme** as part of the “Chief Minister Youth for Green Campaign” at Umjarain market on 5th December 2014. 30 volunteers participated.

The NSS unit of St. Edmund’s College, Shillong in collaboration with Laitryngew PHC and Tynrai Foundation organized a **blood testing camp** at Diengsong village, East Khasi Hills on 8th December 2014.

The NSS unit of St. Anthony’s College, Shillongorganised a **Pre-Christmas celebration programme** on 13th December 2014 at Shanti Bhavan, Missionaries of Charity, Shillong. About 25 volunteers along with 2 Programme Officers attended. The unit distributed gifts and lunch to the aged and orphans.

The NSS unit of Umshyrpi College distributed clothes to Bethany Society on 15th December 2014.

The NSS unit of Seng Khasi College, Shillong organized a *street play* on “*Dignity of Labour*” and an awareness programme on HIV/AIDS at Mawlai Nongkwar on 16th December 2014.

The NSS unit of Umshyrpi College, Shillong organized a one day *counseling and awareness programme* on the role of special camps in NSS at Kyrdemkulai village (adopted village) on 16th December 2014.

The NSS unit of Shillong College organized a *Pre-Christmas celebration programme* on 16th December 2014 at NEIMA Children’s Orphanage, Pynursla. NSS volunteers and Programme Officers attended.

2 NSS volunteers from Nongstoin College attended the *International Youth Exchange Programme* from 20th – 29th January 2015 at Singapore organized by District Sports & Youth Affairs, Government of Meghalaya.

The NSS unit of Synod College organised an awareness programme on “*Forest Fires*” at Mawpdang, adopted village on 20th March 2015.

15. Asset Creation

NSS units have also constructed community assets through the labour of volunteers at the respective adopted villages during the course of the special camping programme:

- The NSS unit of Shillong College constructed 2 village *foot paths*, a) at Laitkseh village and b) Nongpathaw village.
- The NSS unit of Christian Academy College constructed a *bus shed* at Nongrah village.
- The NSS unit of P. G. NEHU unit constructed a *footpath* at Nongkohlew village.

- The NSS unit of St. Edmund’s College constructed a *Composting Pit* at Mawkasiang village.
- The NSS unit of St. Anthony’s College constructed a *mini multi-purpose dam* at Swer village.
- The unit of Jaintia Eastern College, Khliehriat constructed a *bus shed* at Lumchyrmit village.
- The unit of Sngap Syiem College constructed an *additional class room* at L. P. School at Pawphlang village.
- The unit of Thomas Jones Synod College, Jowai constructed a *footpath* at Pynthor Langtein village.
- The NSS unit of Lady Keane College undertook construction work for developing the main *drinking water source* at Pingwait village.

16. Skill Development

NSS units of 9 colleges organized skill development programmes during the year. Training programmes conducted *includemobile repairing, food preservation & food processing, mushroom cultivation, floriculture, bakery, computer application, beautician course, tailoring, animal husbandry, communication skills, music, dress making, vermi-composting etc.* 183 NSS volunteers availed of the courses. Some of the collaborating institutions include Don Bosco Technical School, Department of Agriculture, Government of Meghalaya, Institute of Hotel Management & Catering, Technology, Shillong.

17. Adoption of Model Village

The NSS Cell has identified *Lawsohtun* as a model village. Since its adoption in June 2014,

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several programmes have been conducted for the residents. A list of activities is given below:-

Asset Creation: As part of the community asset creation, a washing shed has been constructed.

Eye Camp: An eye check-up camp was also held on in collaboration with Bansara Eye Care Centre. 78 residents availed the services.

Swachh Bharat Campaign: Along with the rest of the country a cleaning drive was also observed on 2nd October in collaboration with the Dorbar Shnong. Residents of the locality came out in huge numbers to participate in the programme.

Skill development: 43 residents have completed training courses in 19 skills ranging from hard & soft skills.

CAREER AND COUNSELING CELL

Coordinator	:	Dr. Dinesh Bhatia (20.05.2014 to 23.01.2015) Prof. Goutam Saha (18.03.2015 to 31.03.2015)
Telephone	:	0364-272-3604 (O)/ 0364-2723607 (O)
Fax	:	0364-2723607
Email	:	placement.nehu@gmail.com, placement@nehu.ac.in

The Career and Counseling Cell (CCC) which was established on 01 April 2008 is functioning from the School of Technology since 2010. Since its inception, it is being administered by a faculty Coordinator and two office staff personnel.

The placement cell which is officially known as Career and Counseling Cell endeavors to provide the very best opportunities to NEHU graduates in terms of counseling and guidance, campus placements, trainings, internship opportunities etc. The Cell regularly publicizes detailed notification on any matter related to counseling, training, and career/job opportunities for students. This cell takes care of all the opportunities / information forwarded to the Cell from any corner. The Cell also interacts with reputed industries, organizations, training centers and other entities for meeting the demands of the students. To facilitate the objectives, enrollment of representatives from all the departments of NEHU has been formulated of which the Committee consists of faculty and student representatives, who coordinate the different activities of the Cell. Job-oriented awareness related workshops are being organized by the Cell regularly for the students of NEHU and affiliated colleges.

The Cell invites experts from corporate organization for interactive sessions, lectures

on soft skills and giving away placement training to the students. It disseminates the job opportunities related information in the concerned (related) centers / departments / career related fairs, pool campuses for the job seekers in the university premises. Apart from hiring activities, the Cell organizes interactive sessions, special lectures and seminars so as to prepare the students for a smooth transition to their professional lives and face the challenges of the corporate world. With its interaction with company/industry on a regular basis, the students can avail the opportunity to undergo training during semester break in many companies/industries.

Moreover, a common placement brochure is updated and sent to various companies from time to time. It organizes seminars to provide a platform for the students to interact with professionals from various industries. It encourages visits to the industries for the University students.

Brief Statement of Academic Activities:

Infosys Pvt. Ltd, Bangalore conducted a pool campus interview in Assam Engineering College, Guwahati, Assam on 12th and 13th June, 2014 where 30 of our eligible students attended out of which 02 of students got selected.

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IBM Collabora, Bangalore conducted a campus drive to the students of School of Technology, NEHU, Shillong on 23rd and 24th June, 2014 where 15 students got selected by the company.

M/s Teleperformance, Gurgaon, Manesar conducted campus drive at SOT, NEHU, Shillong on 25th and 26th June, 2014 wherein 20 students got placed.

ICICI Bank conducted a pool campus drive for the students of NEHU & affiliated colleges on 14th and 15th July, 2014. Few students got selected during drive.

Institute of Technology and Management (ITM), Mumbai funded and organized a two seminar on "Workshop on Value Proposition: Personality Development and Communication Skills" at NEHU, Shillong on 11th -12th September, 2014. More than 200 students of NEHU participated in this workshop.

Students attended a two day pool campus drive conducted by Tech Mahindra in Tezpur University, Tezpur Assam on 24 September, 2014 where 30 of our eligible students attended. 02 students got selected in the drive.

Around 30 students of the School of Technology, NEHU, Shillong were eligible to

participate a pool campus conducted by IBM, Bangalore at Assam Engineering College on 21st and 22nd October, 2014 where 05 students got selected.

Motivation cum pre selection interviews conducted by the Indian Army, Shillong for the students of School of Technology on 3rd November, 2014 at Multi Conventional Hall, NEHU, Shillong. 147 students attended the seminar.

A seminar on "Student Development Program" was conducted by IBS (School of Indian Business) Guwahati & Hyderabad on 7th November, 2014 at Multi Conventional Hall, NEHU, Shillong where a total of 140 students attended the seminar.

Talwandi Sabo Power Plant Ltd, Punjab conducted a recruitment drive on 17th November, 2014 for the B. Sc students of NEHU and its affiliated colleges where few students got selected.

Indian Army, Shillong conducted a campus drive on 29th November, 2014 for the pre final year B.Tech students of NEHU, out of which 09 students got shortlisted.

Details Placement of the students through the Career and Counseling Cell (2014-2015)

Sl. No	Name of company	Name of students who got selected	Date of interview	Department/ Branch	University/ College
1.	Infosys Pvt. Ltd, Bangalore	1. Biswajit Kalita.	13.06.14	ECE	School of Technology, NEHU, Shillong

		2. Adruta Chirantani Guru		ECE	School of Technology, NEHU, Shillong
				ECE	
2.	IBM Collabora Bangalore	Name of students who got selected	23.6.14		
		1. Archana Tiwari		ECE	School of Technology, NEHU, Shillong
		2. Lucky Sonowal		ECE	
		3. Anamika Salkia		ECE	
		4. Riddhi Kumari		CSE	Assam Don Bosco, Guwahati
		5. Devika Paul		IT	
		6. Abhishek Malakar		ECE	
		Waiting List			
		1. Ponalin D Sagma		MBA	
		2.. Veronica Kurbah		M.Com	
		3. Sneha Barman		IT	
		4. Gautam Sarma		IT	
		5. Imayanmosha Wahlang		IT	School of Technology, NEHU, Shillong
		6. Mustafiz Ur Rahman H		ECE	
		7. Sasanka Narah		IT	
		8. Mazidul Islam		IT	
		9. Rajiv Biswas		ECE	

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These are few more that are borderline cases and can be evaluated after some more training.

		1. Nabarun Saikia		IT	
		2. Rojlina Yasmin Siddiki		IT	
		3. Bidisha Sonowal		IT	School of Technology, NEHU, Shillong
		4. Narji Saikia		IT	
		5. Rupam Barman		ECE	
		6. Anirban Deb		M.Com	NEHU (Tura)
		7. Dipankar Borah		MBA	
		8. Sambha Phawa		M.Com	NEHU, Shillong
		9. Himasmita Das		IT	School of Technology, NEHU, Shillong
		10. Mohd Abdul Khader SK		ECE	
3.	Teleperformance, Manesar, Gurgaon, Haryana	Name of students who got selected	24. 9. 14		
		1. Rojlina Yasmin Siddiki		IT	
		2. Mustafiz Rahman Hazarika		ECE	
		3. Bidisha Sonowal		IT	
		4. Ruhana Ahmed		ECE	
		5. Nabarun Saikia		IT	
		6. Bidyut Karmakar		IT	
		7. Raj Kamal Nayak		ECE	School of Technology, NEHU, Shillong
		8. Partha Kinkor Goswami		IT	
		9. Sailen Kalita		IT	

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		10. Gautam Sarma		IT	School of Technology, NEHU, Shillong
		11. Rupam Barma		ECE	
		12. Mazidul Islam		IT	
		13. Phungkha Narzary		IT	
		14. Gwmsart Basumatary		ECE	
		15. Avishek Kumar		IT	
		16. Sasanka Narah		IT	
		17. Sneha Barman		IT	
		18. Amit Kumar		ECE	
		19. Puspanjali Basumatari		ECE	
		20. Kolin Chanda		IT	
		21. Ponjit Borgohain		IT	
		22. Sheba Diamond Thabah		ECE	
4.	Tech Mahindra	Name of students who got selected	24. 9. 14		School of Technology, NEHU, Shillong
		1. Tridip Sarma		ECE	
		2. Nimish Agarwal		ECE	
5.	IBM, Bangalore	Name of students who got selected	21.10.14		School of Technology, NEHU, Shillong
		1. Anisha Chakravorty		IT	
		2. Dolly Basumatary		IT	
		3. Bishruta Phukan		ECE	
		4. Ajay Roy		ECE	
		5. Toshlima Ashraf		ECE	

Central Services

6.	Indian Army, Shillong	Name of the students who got shortlisted for the next round.	29. 11.14		
		1.Siddhartha Bhuyan		IT	School of Technology, Shillong
		2. Divyajyoti Pathak		IT	
		3. Rasidul Alam		IT	
		4. Mahamudul Hassan		IT	
		5. RakeshHazarika		IT	
		6. Sangam Prasad		ECE	
		7. Santosh Kalita		ECE	
		8. Palash Jyoti Borah		ECE	
		9. Raushan Kumar		ECE	

PLACEMENT CELL (TURA CAMPUS)

Officer-in-Charge : Dr. Abhigyan Bhattacharjee
Telephone : 9435017519 (M)
Email : abhigyan09@rediffmail.com;
placementcellnehutura@gmail.com

Brief Statement of Activities:

The Placement Cell carried out the following activities during the year (2014-15) under report.

A campus placement interview was conducted by HDFC Bank at Shillong on 29th June 2014. All total ten (10) MBA students of 2012-14 participated in the drive, out of which 7 students got selected for job positions of Management Trainee.

Professional Assistance for Development Action (PRADAN) an NGO from New Delhi conducted recruitment drive for the post of Development Apprentice on 17th-18th March 2015. Students from the Departments of Management, RDAP, Horticulture, Agri-business Management and Food Technology of 2013-15 batch of NEHU, Tura Campus participated in the drive.

In the placement drive by Axis Bank held on 24th Feb 2015, altogether 5 students of MBA 2013-15 Batch were shortlisted for the process. Finally 1(one) student got final appointment letter to the post of Assistant Manager. The process involved written rounds followed with GD and PI.

A placement interview was held by Vodafone Spacel Ltd on 26th Feb 2015. 2 MBA students of 2013-15 batch got job offers as “Executive Trainee” in Sales function of the organisation.

ICICI Bank initiated campus interview at Tura on 23rd March 2015 where 10 MBA students of 2012-14 batch got job offers to the post of Senior Customer Service Officer. The process involved written rounds followed with GD and PI. They are now posted at various branches across North Eastern states of India.

A pooled campus drive for HDFC Bank through Skills Academy Pvt. Ltd, Bhubaneswar, was initiated at NEHU, Tura Campus during March 24th-26th 2015 for the post of Personnel Banker and Agri-Banker positions. Apart from students of Management, RDAP, Horticulture, Agri-business Management and Food Technology of NEHU, Tura Campus, the students from Mizoram University, Nagaland University, Manipur University and ICAI University, Meghalaya also participated in the three (3) days' campus drive at Tura campus. Altogether 40 students were shortlisted after written rounds for both the profiles. The process is still going on for both the job profiles until final selection.

PUBLICATION UNIT

In-Charge	:	Prof. R. Khongsdier
Telephone	:	0364-2721422 (O)
E-mail	:	rkhongsdier@hotmail.com
Publication Officer	:	Mr. B. Shylla
Telephone	:	0364-2721423 (O)
E-mail	:	<u>bmshylla21@gmail.com</u>
Assistant Editor	:	Ms. G. Umdor
Telephone	:	0364-2721424 (O)

The NEHU Publication Unit is mainly concerned with printing and promoting publications in various academic areas of the University. These include some undergraduate textbooks (*Phuit! Ka Sabuit!*), *Study Materials for the Centre and Distance Education* (CDE), official publications of the University like the Acts and Statutes, Ordinances, the *Annual Report* (Hindi and English versions), *The Annual Accounts*, *The NEHU Journal* (biannually) and the e-NEHU News (quarterly) forms, etc. Apart from these, NEHU Publication Unit is also functioning as the official printer of the University with the printing press attached to it. At present, the Press has been undertaking almost all printing jobs assigned to it by the Examination department, Centre for Distance Education, various departments, and P&S.

On the distribution front, it is entering into contracts with major distributors and book sellers in and around Shillong and a few in Guwahati, Assam. The Unit has also flashed its publication on the website of the University for the General Public to have a bird's eye view

of the publications and the books available in the Unit.

During the period under report, the Unit has also taken extra patience to get the details of the revised syllabi, under the Semester System for printing. After many changes and corrections made by the AC, the approved syllabi (in ARTS) has been printed and ready for distribution.

The printing and publication of the following works were undertaken during the period 2014-2015:

Printing of items relating to Examination Department, NEHU

Printing of items relating to Printing & Stationary Department, NEHU

Printing of items required for the 22nd Convocation

Printing of *Annual Accounts* (2013-14) of Finance Department

Printing of study materials relating to the Centre for Distance Education, NEHU

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Printing of certificates relating to the Career & Counseling Cell, NEHU

Printing of Undergraduate textbook *Phuit! Ka Sabuit!*

Printing of NEHU calendars for the year 2015

Printing of UPE materials & booklets relating to the Planning Department

Printing of certificates (EAC) relating to the Basic Sciences and Humanities, NEHU

Printing of draft and final copies of the Annual Report (2013-14)

Printing of *The NEHU Journal* Vol.XII No.1, Jan' 2014 and Vol. XII No. 2, July 2014

Printing of NEHU Syllabus for Bachelor of Arts

SOPHISTICATED ANALYTICAL INSTRUMENT FACILITY

Head : Prof. K. M. Rao (upto February 2015)
Prof. G. Bez (from February 2015)

Telephone : 0364-2721801 (O); 0364-2550212 (Fax); 9436332612 (M)

E-mail : bez@nehu.ac.in, saifnehu@gmail.com, hodsaiif@nehu.ac.in

Thrust Area of the Centre:

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.

Brief Statement of Activities:

SAIF carries out analysis of samples received from the scientists/institutes, and provides

facilities of sophisticated analytical instruments to scientists and other users from academic/ Research institutions, R&D laboratories and industries to enable them to carry out advanced research. It also acquires and develops 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 as well as undertakes design and development of instruments/ accessories of existing instruments.

Scientific Staff

Sr. Scientific Officer : Taposh Chakraborty, M. Sc. /Ph. D. (Physics, NEHU)

Scientific Officer : Sudip Dey, M. Sc./Ph. D. (Zoology, NEHU)
Begonia Dkhar, M. Sc. (Zoology, NEHU), Ph. D. (GU)
Debashish Dey, M. Sc. (Chemistry, NEHU), Ph. D. (RDU)
P. S. Dkhar, M. Sc. (Biochemistry, NEHU),
Ph.D. (Biophysics, NEHU)
S. K. Prasad, M. Sc. (Biochemistry, NEHU),
Ph.D. (Env. Sc., NEHU)
J. M. Sohtun, M. Sc. (Biochemistry, NEHU)

Publications

Published Abroad

Thabah, C. M., Devi, L. M., Hooroo, R. N. K., Dey, S. (2014). Microscopic Studies on

the Effects of pH on the Oral Morphology of *Hyla annectans* Tadpoles from North East India. *J. of Advanced Microscopy Research*, 9, 1-6.

- Devi, L. M., Thabab, C. M., Hooroo, R. N. K., Dey, S. (2014). Scanning Electron Microscopic Studies on the Effect of pH on the Gill Morphology of *Polypedates teraiensis* Hatchling (Amphibia: Anura). *J. of Advanced Microscopy Research*, 9, 115-120.
- Pala, E. M., Dey, S., Borkotoki, A., Pala K. H. M. (2014). Ultra Structural Deformities in the Gills of a Fresh Water Fish *Channa Gachua* Inhabiting a North East Indian Hill Stream, Umkhrah, Contaminated by Municipal Wastes, *J. of Toxicology and Health*, 104, 369-380.
- Goldsmith, A., Dey, S., Boruah, R., Choudhury, R. (2014). Ontogeny of Mouth Part Sensilla of Muga Silk Worm: A Scanning Electron Microscopic Study, *Microscopy Research and Technique*, 77, 120-132.
- Dey, S., Biswas, S. P., Dey, S., Bhattacharyya, S. P. (2014). Scanning Electron Microscopy of Scales and its Taxonomic Application in the Fish Genus *Channa*, *Microscopy and Microanalysis*, 20, 1188-1197.
- Monorama, M., Ramanujam, S. N., Dey, S. (2014) Scanning Electron Microscopy of some Structures of *Puntius Shalynius* Yazdani and Talukdar, 1978, a Hill Stream Fish Endemic to North East India, *J. of Advanced Microscopy Research*, 9, 22-28.
- Prasad, S. K., Dey, S., Singh, O. P. (2014). Transmission Electron Microscopy of Skin and Muscle of the Hill Stream Fish, *Danio Rerio* with reference to Environmental Acid Stress., *J. of Advanced Microscopy Research (Special section)*, 9, 130-135.
- Sarma, K. K., Bhattacharjee, P. C., Dey, S. (2015). A Comparative Scanning Electron Microscopic Study on Guard Hair of Tiger (*Panthera tigris*) and Leopard (*Panthera pardus*): its Taxonomical and Ecophysiological Significance, *J. of Veterinary Science*, 116, 426-433.
- Sarma, K. K., Bhattacharjee, P. C., Dey, S. (2014). Microscopical Analysis of Guard Hair of Tiger, *Panthera Tigris* with reference to Wild Life Forensic Application., *J. Advanced Microscopy Research (Special section)*, 9, 199-205.
- Kharbuli, S. M., Dey, S. (2014). Microscopical and other Evidences on Possible Involvements of Liquid Crystals in Molecular Adaptation against Environmental Acid Stress in a Hill Stream Fish., *J. Advanced Microscopy Research (Special section)*, 9, 154-161.
- U. Rajguru, S. Dey, U. C. Goswami, D. C. Pathak. (2014). Microscopical Analysis of Gill in a Fresh Water Fish, *Puntius Sphore* exposed to Bleached Sulphite Pulp Mill Effluents., *Advanced Microscopy Research (Special section)*, 9, 141-147.
- Massar, B, Dey, S, Dutta, K. (2014) Structural Changes in Kidney of common Carp (*Cyprinus carpio L*) Inhabiting a Polluted Reservoir, Umiam in Meghalaya, India, *Advanced Microscopy Research (Special section)*, 9, 105-109.
- Massar, B, Dey, S, Dutta, K. (2014). Microscopical Analysis on the Ovaries of common Carp, *Cyprinus carpio L* Inhabiting a Polluted Reservoir, Umiam in Meghalaya, India., *Microscopy and Microanalysis*, 20, 1404-1410.
- Funds Received From Agencies other than NEHU:**
- DST, Govt. of India, New Delhi: Non Plan: Rs. Nil; Plan: Rs. 1, 65, 96, 000.00.

Central Services

Infrastructure Facilities:

The following sophisticated analytical instruments are available for analytical services:

- Scanning Electron Microscope (JEOL JSM 6360)
- EDAX (Attached with SEM, Oxford INCA 350)
- Transmission Electron Microscope (JEOL JEM 2100)
- FT-NMR 400 MHz (BRUKER AVANCE II-400)
- LC-MS Spectrometer (Waters ZQ-4000)
- Graphite Furnace (Analytik Jena AG Vario 6)
- Liquid Nitrogen Plant (Philips PLN 106)
- Microscope with Image Analyser (LEICA DMRX)
- A Seminar room (capacity: 50 seats) and a Conference room (capacity: 14 seats)

A new EDAX to be attached with the Transmission Electron Microscope, an Inductively Coupled Plasma-Optical Emission Spectrometer and a glass knife maker for Transmission Electron Microscope and Carbon Coating unit for Scanning Electron Microscope are in the process of procurement.

The Transmission Electron Microscope (JEOL JSM 100CX), Atomic Absorption Spectrometer (Perkin Elmer PE 3110) and CHN-OS Analyser (Perkin Elmer PE 2400), being very old are no longer functional.

Services Offered

Scanning and Transmission electron microscopic studies of biological and material science samples; 1-D and 2-D NMR spectra of biological and chemical samples in liquid/solution phase; Trace element analysis in biological, chemical and industrial samples; Mass spectra of compounds, and supply of liquid nitrogen to academic, research and industrial institutions.

Instruments Uses

Instrument	Total number of samples Analyzed	Total number of Users utilizing the facility
Scanning Electron Microscope (JEOL JSM 6360)	1044	122
EDAX (Attached with SEM, Oxford INCA 350)	181	34
Transmission Electron Microscope (JEOL JEM 2100)	957	198
FT-NMR 400 MHz (BRUKER AVANCE II-400)	1872	43
LC-MS Spectrometer (Waters ZQ-4000)	205	28

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Graphite Furnace (Analytik Jena AG Vario 6)	400	11
Liquid Nitrogen Plant (Philips PLN 106)	5590 Lts.	42

Fund Received

Total Revenue Earned: Rs. 27, 85, 554.00
(External users: Rs; 19, 53, 503.00 Internal users: Rs.8, 32,051.00)

Other Activities:

SAIF-NEHU hosted visits of (i) M. Sc. (Agri.) students of College of Post graduate Studies, Central Agricultural University, Umiam

Campus, Barapani, Meghalaya, (ii) M. Sc. Students from Department of Zoology, Bajali College, Pathsala, Barpeta District, Assam, (iii) B. Sc. students of St. Edmund's College Shillong, Meghalaya, (iv) 2nd Year B. Sc. Students from St. Mary's College, Shillong, Meghalaya and (v) Students from Department of Botany, Pragjyotish College, Guwahati, Assam (Twice).

SPORTS DEPARTMENT

Teacher in Charge : Dr. S. N. Lamare
Telephone : 0364-2721381/1383.
Email : nehusports@gmail.com

Brief Statement of Activities

The Sports Department of the North Eastern Hill University organized the **Inter College Football (Men) Tournament 2014** from 18th July to 24th July 2014 at J.N.Sports Complex, Polo, Shillong. All together 14 colleges participated in the tournament. The Vice-Chancellor of NEHU Prof. P.Shukla graced the occasion as the Chief Guest and declared the tournament open. On 24th July 2014, Prof. B.Myrboh, Pro Vice-Chancellor, NEHU, Shillong was present as the Chief Guest for the final match which was played between Shillong College and St. Anthony's College, Shillong. The former defeated St. Anthony's College by 3 goals to nil. The chief guest gave away the trophies and medals to the winners and runners-up. The program ended with a closing declaration by the Chief Guest.

The Department in collaboration with Thomas Jones Synod College, Jowai, organized the **2nd Jowai Zone Inter College Badminton (Men & Women), Table Tennis (Men & Women) and Chess (Combined) Tournament** on 28th and 29th July 2014. The tournament began with an opening ceremony where Mr. B. N. Lamare, Ex. Principal of Kiang Nangbah Govt. College, Jowai graced the occasion as the Chief Guest and declared the tournament open. All together 4 colleges participated in the tournament.

The Sports Department also organised the **Inter College Cross Country Run** on 12th August 2014 at the NEHU, Permanent Campus Shillong, where St. Anthony's College, Shillong College, Mendipathar College, Sngap Syiem Memorial College, NEHU took part in the competition. The runner from Sngap Syiem College, Mawkyrwat secured 1st position in both men & women section.

The Department also organised the **Shillong Zone Inter College Badminton (Men & Women), Table Tennis (Men & Women) and Chess (Combined) Tournament** on 26th & 27th August 2014 and the Inter Zonal Inter College Badminton (Men & Women), Table Tennis (Men & Women) and Chess (Combined) Tournament on 28th August 2014. The tournament ended with a closing ceremony where Prof. David Syiemlieh, Member UPSC and Ex Vice Chancellor of Rajiv Gandhi University, Itanagar, Arunachal Pradesh grace the occasion as the Chief Guest and gave away the prizes to the winners and runners up. All together 16 colleges participated in the tournament.

The Sports Department also organized the **Inter College Basketball (Men & Women) Tournament** from 2nd to 5th October 2014 at the NEHU Basketball Ground, Permanent Campus. Prof. B. Myrboh, Pro Vice Chancellor, NEHU was the Chief Guest in the Opening

Ceremony. Dr. S.N.Lamare, Dean Students Welfare, NEHU cum Teacher In-charge Sports Department, NEHU was the chief guest in the closing ceremony. St. Anthony's College of Shillong lifted the Championship trophy in the men section while NEHU, Shillong Team lifted the Championship trophy in the women section. All together 14 colleges has participated in the tournament.

The University also took part in the East Zone Inter University Table Tennis (Men & Women) and Chess (Combined) Tournament 2014 which

was held at KIIT University, Bhubaneswar, Odisha from 27th September to 1st October 2014. In the tournament both Men & Women team reached up to the quarter final. The Chess (Combined) team was able to secure 16th Position as a whole where as in the East Zone Chess (Combined) Tournament. Mr. S. Minthang Gangte of St. Edmund's College, Shillong was ranked at the 10th Place in the East Zone Chess Tournament 2014. The names of the students who represented the University are mentioned below:

Table Tennis (Men Section)

Sl. No	Name of Sportsperson	Name of the College
1	Abhinab Bharali	St. Anthony's College, Shillong
2	B.Zirnuntluanga	St. Anthony's College, Shillong
3	Lalrinfela	St. Anthony's College, Shillong
4	Kyntiewlang Mukhim	Shillong College, Shillong

Table Tennis (Women Section)

Sl. No	Name of Sportsperson	College in which studying
1	Shankari Roy	Women's College, Shillong
2	Nikita Biswakarma	St. Anthony's College, Shillong
3	Eureeca Chyne	Lady Keane College, Shillong

Chess (Combined)

Sl. No	Name of Sportsperson	College in which studying
1	Mr. S.Minthang Gangte	St.Edmund's College,Shillong
2	Mr. Dinsuibou Moita	St. Anthony's College, Shillong
3	Miss Alisha Lyngdoh	B.B.S. College, Shillong
4	Miss Malaya Baishya	St. Anthony's College, Shillong

The Sports Department also organised the **Inter College Cricket (Men) Tournament** at the Shillong Cricket Association Ground, Polo from 4th to 14th November 2014. Dr.S.N.Lamare, Dean of Students Welfare cum Teacher In-Charge, Sports Department, NEHU, Shillong was the Chief Guest in the opening ceremony. The tournament was conducted successfully. The closing ceremony was graced by Prof. P. Shukla, Vice-Chancellor, NEHU and gave away the prizes to the winners. St. Edmund's College, Shillong lifted the championship trophy for the third consecutive time whereas St. Anthony's College, Shillong were the runners up. All together 16 colleges participated in the tournament.

The Sports Department also organised the **Inter College Volleyball (Men & Women) Tournament** at the Kendriya Vidyalaya Ground from 26th to 27th November 2014. In the tournament St. Edmund's College, Shillong lifted the championship trophy in the men section and Women's College; Shillong lifted the championship trophy in the women's section. Prof. P. Shukla, Vice-Chancellor,

NEHU, Shillong grace the occasion as the Chief Guest and gave away the prizes to the winners. All together 8 colleges participated in the tournament.

The Department also organised the **Inter College Football (Women) Tournament** at the J.N.Sports Complex, Polo from 26th to 28th November 2014. Dr.S.N.Lamare, Dean of Students Welfare cum Teacher In-Charge, Sports Department, NEHU, Shillong grace the occasion as the Chief Guest. The tournament ended with a closing ceremony, where Dr. M. Marwein, Chief Medical Officer NEHU, Shillong grace the occasion as the Chief Guest and gave away the prizes to the winners. Sngap Syiem College, Mawkyrwat lifted the championship trophy. All together 4 colleges participated in the tournament.

The North- Eastern Hill University, Shillong took part in the **East Zone Inter University Football (Men) Tournament** held at the Mizoram University, Aizawl, Mizoram from 20th to 25th October 2014. The under mentioned students had represented the University in the tournament.

Sl. No	Name of Sportsperson	Name of the College
1	Bankitlang Marwein	Nongstoin College, Nongstoin
2	Kynjai Myrthong	Nongstoin College, Nongstoin
3	Kamwamut Talang	St. Anthony's College, Shillong
4	Yuletideborn Langbang	Thomas Jones Synod College, Jowai
5	Kobar S. Swer	Jaintia Eastern College, Khleriat
6	Bikram Chettri	St. Edmund's College, Shillong
7	Apshaimi Ryan Ryngksai	St. Edmund's College, Shillong
8	Kynsai Nongtri	Synod College, Shillong
9	Dennis Mawphniang	Shillong College, Shillong

10	Geoffery Massar	St. Anthony's College, Shillong
11	Maitshaphrang Nengnong	Shillong Commerce College, Shillong
12	Kitdorlang L. Nonglait	Shillong College, Shillong
13	Shandranes Syiemlieh	Synod College, Shillong
14	Aibanjop Shadap	Shillong College, Shillong
15	Shanbor Jyrwa	Shillong College, Shillong
16	Aibormiky Suchiang	Shillong College, Shillong
17	Meban Wahlang	St. Anthony's College, Shillong
18	Defenderson Pomtiah	Shillong Commerce College, Shillong

The University team also took part in the **East Zone Inter University Badminton (Men & Women) Tournament** held at the Banaras Hindu University, Varanasi, Uttar Pradesh

from 20th to 24th December 2014. Both Men & Women team reached the pre-quarter finals. The under mentioned students had represented the University in the tournament

Men Section

Sl. No	Name of Sportsperson	Name of the College
1	Donbornson Warjri	Synod College, Shillong
2	Freedy Lyngdoh	Synod College, Shillong
3	T.O.Punii Luckyson	St. Anthony's College, Shillong
4	Lalhmingmawia	Deptt. of Linguistics, NEHU, Shillong
5	Isak Lalnunpuia	St. Anthony's College, Shillong
6	K.amwamut Talang	St. Anthony's College, Shillong

Women Section

Sl. No	Name of Sportsperson	Name of the College
1	Rechie-U Kapfo	NEHU, Shillong
2	Lalfelpuii	St. Mary's College, Shillong
3	Lalsangliani	St. Mary's College, Shillong
4	Larihun A. Warjri	Deptt. of (Eng), NEHU, Shillong

UGC ACADEMIC STAFF COLLEGE

Director : Prof. Rakesh Mohan
Telephone : 0364-2721401/2721402 (O); 0364-2550103 (Fax)
Email : asc@nehu.ac.in; ascnehu@gmail.com
Faculty :

Designation	Name and Qualification	Specialization
Professor	Rakesh Mohan M.Sc., Ph.D., BCKV Mohanpur	Agronomy
Associate Professor	Quendarisa Kharbuli M.Sc., Ph.D. , NEHU, Shillong	Zoology (Genetics)
Assistant Professor	Kuheli Biswas Das M.Sc., Ph.D. NEHU, Shillong	Zoology (Biochemical Adaptation)

Thrust Area of Research:

The UGC-Academic Staff College (UGC-ASC) has been established to upgrade the knowledge and skills of faculty members of the institutions of higher education, under the Faculty Development Programme of the UGC, New Delhi. The UGC-ASC organizes Refresher Courses (RCs) and Orientation Programmes (OPs) for the faculty of Universities and Colleges, located in the North-Eastern region as well as in other parts of the country. RCs and OPs are conducted in subjects approved by the UGC, New Delhi in order to update and acquaint the participating teachers with the latest developments and recent trends in their respective subjects. The OPs and RCs are designed to empower the teachers with depth of knowledge to enhance their teaching skills as well as capabilities. Besides, UGC-

ASC conducts Short-Term Courses and Principal Workshops for the Faculties, Research Scholars, Academic Administrators as well as Principals of affiliated Colleges.

Brief Statement of Academic Activities:

The UGC-ASC was established at NEHU in 2006 with financial assistance from the UGC. It became fully functional in March, 2007 after appointment of non-teaching staff (7 Nos.). The UGC sanctioned 3 academic posts (Professor-Director: 1; Reader: 1, and Lecturer: 1), which are filled up accordingly. The UGC-ASC was allotted three rooms for the faculty members, three office rooms, two lecture rooms, one library-cum-documentation room and a computer Laboratory in the Building for Centre of Studies. During 2014-15, the UGC-ASC conducted a total of 4 OPs, 6 RCs, 2 Special

Summer/Winter School and 3 Short-Term Course, and trained a total of 410 participants belonging to various universities and colleges recognized by the UGC. Further, the UGC-ASC established a Computer Laboratory with 24 numbers of state of the art PCs, a Server, two Network Laserjet Printers, a DLP Projector and a Scanner etc. The Computer Lab is used for training the participants of the OPs and

RCs as well as the faculty, research scholars and students of the University in information technology with special reference to teaching and research. The UGC-ASC has taken up a new initiative to have a one day Interactive Session of the respective departmental Refresher Course Participants with the faculty members of the concerned department on academic reforms.

Courses Conducted

The UGC-Academic Staff College conducted the following courses during the year 2014-15:

Sl. No.	Orientation Programme	Duration
1	28 th Orientation Programme	5 th May to 1 st June, 2014
2	29 th Orientation Programme	23 rd June to 20 th July, 2014
3	30 th Orientation Programme	29 th January to 25 th February, 2015
4	31 th Orientation Programme	9 th February to 8 th March, 2015

Sl. No.	Refresher Courses	Duration
1	Refresher Course in Education	26 th May to 15 th June, 2014
2	Refresher Course in Disaster Management	25 th September to 15 th October, 2014
3	Refresher Course in Adult & Continuing Education	27 th October to 16 th November, 2014
4	Refresher Course in Political Science	20 th November to 10 th December, 2014
5	Refresher Course in History	25 th November to 15 th December, 2014
6	Refresher Course in English	16 th March to 5 th April, 2015

Central Services

Sl. No.	Short-Term Course	Duration
1	STC in Research Methodology with Special reference to SPSS	19 th May to 24 th May, 2014
2	STC in SPSS	23 rd June to 29 th June, 2014
3	STC for Academic Administrators	2 nd to 7 th February, 2015

Sl. No.	Special Summer/ Winter School-2014	Duration
1	Special Summer School-2014	25 th August to 14 th September, 2014
2	Special Winter School-2014	30 th October to 19 th November, 2014

Study Tours/Field Trips

Name of Teacher-in Charge	Places/ Institutions Visited	Name of the Courses/ Programmes	Dates
Dr.(Mrs.) Kuheli B. Das	Sohra	Orientation Programme	16/7/2014
	SILOAM Umsawkhwan	Orientation Programme	30/8/2014
	SILOAM, Umsawkhwan	Orientation Programme	11/2/2015
	Sohra	Orientation Programme	21/2/2015
Ms. J. I. Rapthap	Umiam-Umbir	R.C. in Disaster Management	3/10/2014
Dr.(Mrs.) Q. Kharbuli	SILOAM, Umsawkhwan	Special Winter School	7/11/2014
	SILOAM, Umsawkhwan	Orientation Programme	11/2/2015
	Sohra	Orientation Programme	21/2/2015

Prof. M. Momin	Sohra	Refresher Course in History	6/12/2014
Dr. K. S. Nongkynrih	Sohra	Refresher Course in English	2/4/2015

Purpose of visit

These field trips and visits are a regular feature since they are included in the curriculum, designed for Orientation Programmes, whose objective is Resource Awareness and knowledge Generation. Furthermore, since the Orientation Programmes provide training to the new-entrant College and University teachers participating from different states of the country; these visits expand learning beyond the classrooms and expose them to the mesmerizing scenic beauty of the State and glimpses of the cultural heritage of entire North-East India. Siloam being a Transformational Leadership Resource Centre provides an excellent environment to the participants for faculty development especially in Interpersonal Relationship and Student guidance and counseling.

Seminars/ Conferences/ Symposia/ Extension Programmes etc:

Kuheli Biswas Das

Attended the International Conference on 'Quality of Higher Education in Indian and Global Context' organized by the Department of Education, North Eastern Hill University, Shillong from 18th-19th March, 2015.

Funds Received from Agencies Other than NEHU:

The Academic Staff College was sanctioned Rs. 105.84 Lakhs for the year 2014-15 from the University Grants Commission, New Delhi, for

conducting Refresher Course and Orientation Programmes, Short-Term Courses/Workshops in approved subjects and for meeting other expenditures.

Infrastructure Added during the Period:

Wireless presenter (3 Nos.) for the lecture rooms, Coffee Vending machine (1 No.), Emergency Lights (8 Nos.), Water Geyser (1 No.), 4 Drawer Book Case (1 No.), Room Heaters (4 nos.), Workstation (4 nos.), Computer Chair (1 No.), Induction Heater (1 No.), Steel Ladder (1 no.), Plastic Chairs (16 Nos.), White Board (1 No.), Board Stand (2 Nos.), Library books (100 Nos.).

Other Activities:

NEHU Sponsored Refresher Course for the Academic Administrators of the University:

The Academic Staff College, NEHU organized a two weeks Refresher Course for the officers and staff of the University of Group B, C and above w. e. f. 9th to 21st February 2015. Prof. G. C. Maheshwari, Retd. Professor, Dept. of Management, M. S. University of Baroda, Baroda, Mr. S. Prabhakar, Joint Director, Lok Sabha Secretariat, New Delhi, Dr. T. K. Bamon, English & Foreign Languages University, Shillong, Mr. Kamana Deb, (Retd.) Registrar, Sikkim University, were invited as external resource persons to interact with the participants.

WOMEN'S CELL

Officer In-charge : Prof. S. M. Sungoh
Telephone : 0364-2721071/ 0364-2723347 (O); 93436307570 (M)
Email : smsungoh@yahoo.com

Brief Statement of Activities:

The Women cell carried out the following activities (2014-2015) under report:

Flower Show and Flower arrangement organized for Female Students of NEHU in the Department of Education, on June 5th, 2014.

Poster display by NEHU students on 16th and 17th of November, 2014, at Multi convention Hall, NEHU, Shillong.

Lecture on Do's and Don'ts of Sexual Harassment by Hasina Kharbhih, Member of Women's Cell on 17th November, 2014 at Multi convention Hall, NEHU, Shillong.

Lecture on Psychological Effects of Victims by Dr. Indu Singh, Psychologist, on 17th November, 2014 at Multi convention Hall, NEHU, Shillong.

Lecture on Laws of Sexual Harassment by T. Yangni, Advocate and Member of Women's Cell on 17th November, 2014 at Multi convention Hall, NEHU, Shillong.

Number of complaints reported during the period 2014-2015 March:

Two and the cases have been disposed off.

EQUAL OPPORTUNITY CELL

Brief Statement of Activities

The Cell deals with matters pertaining to implementation of Government of India Orders, UGC Guidelines and other instructions issued from time to time on the subject of reservation, etc. in co-ordination with Establishment-I & II

Sections and Office of the Dean of Students' Welfare of the University.

As per the information collected by the Cell from the concerned Sections, the present position of SCs/STs at teaching, non-teaching levels and admission to various courses/degrees as on 31.03.2015, is as under:

(A) Teaching staff

Sl. No.	Name of the post	Total Post		In Position out of Total Filled						
		Sanctioned	Filled	Gen.	OBC	SC	ST	PWD	Total	Vacant
1.	Lecturer/ Assistant Professor	205	190	134	19	21	15	1	190	15
2.	Reader/ Associate Professor	147	95	89	-	1	5	-	95	52
3.	Professor	93	60	58	-	1	1	-	60	33
4.	Professor/ Associate Professor	1	-	-	-	-	-	-	-	1

(B) Non-Teaching staff

Sl. No.	Name of the post	Total Post		In Position out of Total Filled						
		Sanctioned	Filled	Gen.	OBC	SC	ST	PWD	Total	Vacant
1.	Group-A	68	61	61	-	-	-	-	61	7
2.	Group-B	185	130	128	-	1	1	-	130	55
3.	Group-C*	756	494	493	-	-	-	1	494	262

*Including all 212 Group D Staff who are now placed in Group C as Multi-Tasking Staff

Central Services

(C) Admission to various courses/degrees

Sl. No.	Course/ Degree	Total Seats		In Position out of Total Filled						
		Sanctioned/ Approved	Filled	Gen.	OBC	SC	ST	PWD	Total	Vacant
1.	UG	540 +24*	1432	473	118	117	721	3	1432	9
2.	PG	1340	2412	261	21	29	2093	8	2412	52
3.	M.Phil	Unspecified	74	18	4	2	50	-	74	-
4.	Ph.D.	Unspecified	743	274	26	33	410	-	743	-
5.	Others	PG Diploma : 60 Others : Unspecified	620	228	91	28	273	8	628	-

*24 seats are earmarked as *Lateral Entry*

STUDENTS' WELFARE CELL (TURA CAMPUS)

Teacher In-Charge : Dr. Deepak Bhagat
Telephone : +91-9436733357
E-mail : dip19bhagat@gmail.com

The Office of the Teacher in-Charge Students' Welfare, NEHU, Tura campus continued 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 students admission in various hostels of the university; management of postgraduate and Ph.D. students hostels; conduct of elections of the office bearers

and other representatives of students union; supervision and coordination of co-curricular, cultural and sports activities of the students; issuing of travel concession to the students for educational/industrial tours etc.

Residence in Hostels

In the Tura campus, the numbers of students who were given hostel accommodation during the year 2014-2015 are as follows:

Particulars		ST	SC	GEN	OBC	FOREIGN STUDENT	TOTAL
P.G.	Men	68	0	13	0	1	82
	Women	79	2	7	4	0	92
Ph.D.	Men	2	0	7	1	0	10
	Women	6	0	6	1	0	13
Total		155	2	33	6	1	197

Educational/Industrial Tours of Students

The Teacher in-Charge Students' Welfare, NEHU, Tura campus coordinated the study tours/industrial tours of the following eight Academic Departments from Tura campus: (a) Department of Management (b) Department of Education (c) Department of English (d)

Department of Garo (e) Department of Rural Development and Agricultural Production (f)

Department of History and Archaeology (g) Department of Agribusiness Management and Food Technology; and (h) Department of Horticulture.

Additional Students' Activities

Annual Varsity Week (1st April-8th April, 2014):

The Teacher in-Charge Students' Welfare continued to support the Annual Varsity Week organised by PGSU, NEHU, Tura Campus. Varsity week provides students' an opportunity to showcase their talents, skills, leadership, team spirit, creativity, sociability, etc.

World Environment Day (5th June, 2014):

In its continuous endeavour to keep the campus and environment green, World Environment Day was observed on 5th June, 2014. The programme was coordinated by Office of the In-Charge Students' Welfare and PGSU, NEHU, Tura Campus.

Publication of "DURAMONG" Magazine:

The seventh issue of the annual campus magazine "DURAMONG" was published in August, 2014. Over the years, "DURAMONG" has played the role of a mirror by reflecting the clear picture of various cultural, academic, sports and literary activities including achievements of the campus.

PGSU Election (19-11-2014):

Election for new office bearers of PGSU, NEHU, Tura Campus was held on 19- 11- 2014.

Other events organised by the PGSU, NEHU, Tura campus were Parting Social, Fresher's Social, Advance Christmas, Teachers Day etc. They were also actively involved in the Swachh Bharat Abhiyan organised in the campus.

XI APPENDIX

MEMBERS OF THE UNIVERSITY COURT

Constituted under Clause 10A of the University Statute

10A. (1) The Court shall consist of the following members, namely;

Ex-Officio members:

- | | | | |
|--------|---------------------------------|---|---|
| (i) | Chancellor, Ex-officio | - | Prof. André Betèille
Chancellor,
69, Jorbag, Ground Floor
New Delhi – 110003. |
| (ii) | Vice-Chancellor, Ex-officio | - | Prof. P. Shukla,
Vice-Chancellor,
NEHU, Shillong |
| (iii) | Pro-Vice-Chancellor, Ex-officio | - | (a) Prof. E.D. Thomas
Pro-Vice-Chancellor,
NEHU, Tura Campus

(b) Prof. B. Myrboh
Pro-Vice-Chancellor
NEHU, Shillong. |
| (iv) | Dean of Students' Welfare, | - | Dr. S.N. Lamare |
| (v) | Registrar, Ex-officio | - | Dr.L. Cajee (In-Charge) |
| (vi) | Librarian, Ex-officio | - | Dr.F.R. Sumer (In-Charge) |
| (vii) | Proctor, Ex-officio | - | Prof. .H. Kayang |
| (viii) | Finance Officer, Ex-Officio | - | Mrs.N.G. Marwein (In-Charge) |

Representatives of Schools and Departments

- | | | | |
|------|---|----|--|
| (ix) | Deans of Schools of Studies, Ex-officio | 1. | Dean, School of Economics,
Management & Information
Sciences |
| | | 2. | Dean, School of Education |

Appendix

- | | | |
|-------|----|--|
| | 3. | Dean, School of Humanities |
| | 4. | Dean, School of Human and Environmental Sciences |
| | 5. | Dean, School of Life Sciences |
| | 6. | Dean, school of Physical Sciences |
| | 7. | Dean, School of Social Sciences |
| | 8. | Dean, School of Technology |
| (x) | | All Professors of the Department/Centre, NEHU Shillong/Tura (Ex-officio) - Member |
| (xi) | | Heads of Departments, who are not Professors (Ex- officio) - Member |
| (xii) | | Two Associate Professor who are not Head of Department and two Asstt. Professor to be appointment by rotation in the manner prescribed by Ordinance. - Associate Professor |
| | 1. | Dr. Pramod k. Saikia
Department of Mathematics
NEHU, Shillong
(wef.11.07.2013 upto 3 years) |
| | 2. | Dr. R.K. Satapathy
Department of Political Science
NEHU, Shillong
(wef.11.07.2013 upto 3 years) |
| | | Miss. N. Ganguli
Department of English
NEHU, Shillong
(W.e.f 27.02.2015) |
| | | Assistant Professor |
| | 1. | Shri. R.S.Thakur
Department of English
NEHU, Tura Campus |
| | 2. | Shri. J.P. Jaiswal
Department of RDAP
NEHU, Tura Campus |

Representatives of Affiliated Colleges

(xiii) Seven Principals

MEGHALAYA

1. Director
MBBS College, NEIGHRIMS
Mawdiangdiang, Shillong-793018.
2. Principal
Nongrum College,
Zekabari, West Garo Hills District
Meghalaya-794105
3. Principal,
Khrawsing Christian College
Mawngap, East Khasi Hills District,
Mawphlang-793121, Meghalaya.
4. Director
Regional Institute of Science & Technology,
Raid Marwet Myllem Syiemship,
P.O. Killing Road- 793101, Ri-Bhoi
District, Meghalaya
5. Principal,
St. Edmund's College, East Khasi
Hills District Shillong-793003,
Meghalaya
6. Principal,
St. Anthony's College, East Khasi
Hills District, Shillong-793003,
Meghalaya
7. Principal,
Lady Keane College, East Khasi
Hills District, Shillong-793003,
Meghalaya, for 3 years

(xiv) Four teachers from affiliated Colleges nominated by the Visitor on the recommendation of the Vice-Chancellor.

1. Shri Syrpailin Lyngdoh
Asstt. Professor,
St. Edmund's College Shillong.

Appendix

2. Smti. Deilinda Mawthoh
Asstt. Professor,
Kiang Nongbah College, Jowai.
3. Shri Kalyan C.Momin
Asstt. Professor,
Donbosco College, Tura.
4. Smti. P. M.S. Diengdoh
Tirot Singh Memorial
College, Mairang.

Representatives of Parliament

- (xv) Six representatives of Parliament, four to be nominated by the Speaker of the Lok Sabha from among the members thereof and two to be nominated by the Chairman of the Rajya Sabha from among the members thereof. However, in the event that a member of Parliament becomes a Minister or Speaker / Deputy Speaker / Lok Sabha, or Deputy Chairman, Rajya Sabha, her/his nomination/ election on the Statutory Body shall be deemed to have been terminated.

LOK SABHA

- | | |
|---|--|
| 1. Shri Gurudas Dasgupta
15 Canning Lane
New Delhi – 1100 001
OR
78, Cheltha Road,
Kolkata – 700 027 | 2. Shri Biren Singh Engti
ITI Colony
Rongmongwe,
P.O.Diphu-782460
Distt.Karbi Anglong (Assam)
Tel. (03671) 272345 |
| 3. Smti. Bijoya Chakravarty
House No. 39, Srinagar Path,
Bye Lane – I,
Guwahati – 5,
Assam. | 4. Shri Sushil Kumar Singh
27, Old Court Hostel
New Delhi
OR
“Singh Kjothi”,
Old GT Road
Aurangabad-824101 |

RAJYA SABHA

- | | |
|--|--|
| 1. Dr. Balachandra Mungekar
901, Carnation, Dosti Acre
Complex, Wadala(East),
Mumbai – 400037
and
901, Brahmaputra,
Dr. B.D.Marg, New Delhi - 110001 | 2. Dr. Janardhan Waghmare
Shram Safalya Society,
Ambajogai Road, Latur
and
179, South Avenue
New Delhi – 110001 |
|--|--|

Persons representing learned professions and special interests

(xvi) Ten members representing learned professions and special interests including representatives of industry, commerce, trade unions, banking and agriculture, to be nominated by the Visitor:

1. Prof.(Ms) Tapati Guha Thakurta,
Director, Centre for Studies in Social Sciences,
Kolkata-700029.
2. Dr. Chandra Shekhar Nautiyal,
Director, Centre Institute of Medical and Aromatics Plants
CSIR Laboratory, Lucknow – 226015
3. Prof. Arup Kumar Raychaudhuri,
Director, S.N.Bose National Centre for Basic Sc,
Kolkata – 7900098
4. Shri. R.L. Sethia, Meghalaya Chamber
of Commerce and Industry,
Paltan Bazaar, Shillong
5. Dr. Sanjoy Hazarika
Director, Centre of North East Studies & Policy
Research Jamia Millia Islamia,
New Delhi -110025
6. Prof.S.N. Puri
Vice-Chancellor, Central Agriculture
University Iroisembha, Imphal – 785004
7. Prof. Dilip Kumar Saikia,
Director, NIT Sohra, Meghalaya
8. Prof. O.K. Medhi,
Vice-Chancellor, Gauhati University,
Guwahati -781014.
9. Shri Falguni Rajkumari
Former Secretary, North Eastern Council &
Chairman, Board of Governors, RG IIM-Shillong
F2486, Ansal's palam Vihar, Gurgaon,
Haryana – 122017.
10. Dr. P.G. Rao,
CSIR Technical Consultant & Former Director,
CSIR-North East Institute of Science & Technology
Jorhat – 785006.

Appendix

Representatives of Students

(xviii) Four students to be nominated by the Vice-Chancellor.

- | | | |
|----|--|-----------------------------|
| 1. | Ms. Harsha Choudhury,
3 rd Semester,
Department of Biotechnology & Bioinformatics,
NEHU, Shillong. | wef 3.10.2013
for 1 year |
| 2. | Ms. Nibedita Gogoi,
3 rd Semester,
Department of Geography,
NEHU, Shillong. | -do- |
| 3. | Ms. Konthoujam Sarda,
Ph.D. Scholar,
Department of Political Science,
NEHU, Shillong | -do- |
| 4. | Mr. Deiborlang Nongsiang,
Ph.D. Scholar,
Department of Mathematics,
NEHU, Shillong. | -do- |

Other Members

(xix) (a) Not more than five persons to be nominated by the Visitor.

1. Shri.Pranab Kumar Barbora,
Airmarshal(Retd)
Former Vice Chief of Air Staff C-1201, Celebrity Home,
Palam Vihar, Gurgoan – 122017
2. Dr. Helen Giri,
Former Professor & Head of the Centre for Creative & Cultural Studies,
NEHU, Shillong -793022
3. Prof. Lokendra Arambam
Sagalbal Meino Leirak, Imphal
West, P.O.Imphal -795001,
Manipur.
4. Prof. Udayon Mishra
House No.3, Bylane/3, Naricolbari,
Zoo Narangi Road, Guwahati – 781024.

5. Shri Mani Shankar Aiyar,
Hon'ble Member of Parliament(Rajya Sabha)
New Delhi- 110001.

(xix) (b) Not more than two persons to be nominated by the Chancellor:

1. Prof. Dipankar Chakravorty,
Emeritus Professor & INSA
Honorary Scientist, MLS
Professor Unit, Indian Association
for the Cultivation of Science, 2A & 2B Raja S.C.Nullick Road, Kolkata – 70032.
2. Prof. Abu Nasar Saied Ahamed,
2B Krishna Plaza, Banphul Nagar
Path, Dispur Last Gate, Guwahati – 781006.

(xix) (c) Not more than two persons to be nominated by the Chief Rector.

1. Dr. (Mrs.) M.P.R. Lyngdoh,
Retd. Principal, Shillong College, Shillong.
2. Prof. Caroline R. Marak
Retd. Principal, Shillong College. Shillong.

Representatives of the Non-Teaching Staff

(xx) Two members of non- teaching staff to be nominated by the Vice-Chancellor.

1. President,
Non-Teaching Staff Association,
NEHU, Shillong.
2. General Secretary,
Non-Teaching Staff Association,
NEHU, Shillong.

Representatives of State Governments

(xxi) Two representatives of the State of Meghalaya to be nominated by the State Government concerned.

1. Shri F.R. Kharkongor, IAS
Secretary Education Department
Government of Meghalaya, Shillong.

Appendix

2. Shri. J.D. Sangma, (MCS)
Director of School Education & Literary,
Government of Meghalaya, Shillong.

(xxii) Members of the Executive Council, who are not otherwise members of the Court:

1. Prof Gautam Barua,
Director,
Indian Institute of Technology,
Amingaon, Guwahati -781039
2. Prof. Keya Sengupta
Rajiv Gandhi Indian Institute of Management,
Shillong-793014.
3. Prof. M.P. Lama,
Former Vice-Chancellor,
Sikkim University,
Chairperson,
Centre for South, Centre &
South-east Asia Studies School of International Studies, JNU,
New Delhi – 110067.
4. Dr. Rafiquz Zaman, IAS(Rtd)-
Vice-Chancellor,
Assam Rajiv Gandhi University of Co-operative Management,
Sivasagar, Assam – 785640.
5. Shri.N. Parthasarathy
Department of Philosophy
NEHU, Shillong
6. Principal,
Acheng Rangmanpa College,
Mahendragang, West Garo Hills.
7. Principal,
Nongstoin College,
Nongstoin.
8. Director,
Higher & Technical Education,
Govt. of Meghalaya, Shillong.
Fax No: 22286015
Ph: 2226015 (M) 9863028845.

MEMBERS OF THE EXECUTIVE COUNCIL

Clause 1 (i)	1.	Prof. Prabodh Shukla Vice-Chancellor, NEHU.	-	Chairman
Clause 1(ii)	2.	Prof. E.D. Thomas, Pro-Vice-Chancellor, NEHU, Tura Campus, Tura.	-	Ex-officio-Member
	3.	Prof. B. Myrboh, Pro-Vice-Chancellor, NEHU, Shillong.	-	Ex-officio-Member
Clause 1(iii)	4.	Prof. N.M. Panda Dean, (upto 2.3.2015) School of Economics Management & Information Sciences NEHU, Shillong.	-	Member
		Prof. B.M. Jyrwa Dean, (wef. 05.03.2015) School of Physical Sciences NEHU, Shillong.	-	Member
	5.	Prof. H. Lamin Dean, (upto.8.01.2015) School of Human & Environmental Sciences, NEHU, Shillong.	-	Member
		Prof. C.L. Imchen, Dean, (wef.9.1.2015) School of Social Sciences NEHU, Shillong	-	Member
	6.	Prof. M.M. Singh Dean, School of Education, NEHU, Shillong.	-	Member
	7.	Prof. A.K. Mishra, Dean, (upto 17.12.2014) School of Life Sciences, NEHU, Shillong	-	Member

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		Prof. P.V. Koparkar, Dean, (wef 16.1.2015) School of Technology, NEHU, Shillong.	-	Member
Clause 1(iv)	8.	Prof. Prabodh Shukla Department of Physics, (Upto.31.07.2014) NEHU, Shillong.	-	Member
		Prof. L.K. Jha, Department of Environmental Studies, NEHU, Shillong.	-	Member
Clause 1(v)	9.	Shri. N. Parthasarathy Department of Philosophy NEHU, Shillong	-	Member
Clause 1(vi)	10.	Principal, Achengrangmanpa College, Mahendraganj, Tura. (Ph.No-09436307662)	-	Member
	11.	Principal, Nongstoin College, Nongstoin- 793119 West Khasi Hills District, Nongstoin, Meghalaya	-	Member
Clause 1(vii)	12.	Director, Higher & Technical Education, Govt. of Meghalaya, Shillong.	-	Member
Clause 1(viii)	13.	Prof. Arup Kumar Raychaudhuri Director, S.N.Bose National Centre for Basic Sciences, J.D.Block, Sector-II, Kolkata – 700089, West Bengal.	-	Member
	14.	Prof. Sanjoy Hazarika, Director, Centre for North East Studies, and Policy Research, Jamia Milia Islamia, New Delhi - 110025.	-	Member

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Clause 1(ix)	15.	Prof Gautam Barua, Mentor Director Indian Institute of Information Technology Guwahati Ambari, GNB Road, Guwahati -781001	-	Visitor's Nominee
	16.	Prof. Keya Sengupta Rajiv Gandhi Indian Institute of Management, Mayurbhanj Complex, Nongthymai, Shillong-793014.	-	Visitor's Nominee
	17.	Prof. M.P. Lama, 1327, Purvanchal, JNU, New Delhi – 110067.	-	Visitor's Nominee
	18.	Dr. Rafiquz Zaman, IAS(Rtd) Vice-Chancellor, Assam Rajiv Gandhi University of Co-operative Management, Sivasagar, Assam – 785640.	-	Visitor's Nominee
	19.	Finance Officer, NEHU, Shillong. Ph. No: 2721021/2721020 Fax No: 03642551153	-	Permanent Invitee
	20.	Registrar NEHU, Shillong. Ph. No: 2721011/2721012/(R)2551909 Fax No: 03642551634	-	Ex-Officio-Secretary

MEMBERS OF THE ACADEMIC COUNCIL

CONSTITUTION OF ACADEMIC COUNCIL NORTH EASTERN HILL UNIVERSITY, SHILLONG STATUTES-14(1) OF THE NEHU ACT 1973

Members for the year 2014-2015

Ex-officio members

- (i) Vice- Chancellor
- (ii) Pro- Vice- Chancellor
- (iii) Deans of Schools
- (iv) Dean of Students' Welfare
- (v) Heads of Departments and Centres of Studies
- (vi) Librarian
- (vii) Principals of Colleges maintained by the University
- (viii) All Professors, other than the Heads of Departments and Centres, to be nominated

THE DETAILS

Prof. P. Shukla Vice-Chancellor, NEHU, Shillong	-	Chairman
Prof. E.D. Thomas Pro-Vice-Chancellor, NEHU, Tura Campus.	-	Member
Prof. B. Myrboh, Pro-Vice-Chancellor, Shillong Campus.	-	Member
All Deans of School, NEHU, Shillong	-	Members
Dr. S.N. Lamare Dean, Students Welfare NEHU, Shillong.	-	Member

**All Heads of Departments
and Centres of Studies** - **Members**
NEHU, Shillong/Tura

Dr. F. R. Sumer (In-Charge) - **Member**
Librarian
NEHU, Shillong.

All Professors - **Member**

**All Heads of Departments
and Centres** - **Members**

**(ix) Six principals of Colleges admitted to the Privileges of the University
(Upto 17.07.2014)**

1. Principal, St.Mary's College Shillong
2. Principal, Union Christian College
3. Principal, Shillong College.
4. Principal, Tura Govt.College,
5. Principal, Shillong Law College,
6. Principal, Don-Bosco College, Tura.

(Wef.18.07.2014)

1. Principal, St. Mary's College Teacher Education
2. Principal, Kazi & Zaman College, Tura
3. Principal, Durama College, Tura
4. Principal, Greater Mawlai College
5. Principal, Capt. William Memorial, Baghmara
6. Principal, Umshyrpi Colleg

(x) Five teachers of the University, other than those under (i) to (viii) above, by rotation according to seniority of which two shall be Associate Professors and three Assistant Professors.

Associate Professors

1. Dr. R.K. Satpathy, Deptt. of Pol. Science.
2. Dr. Y. Kumar, Deptt. of Botany

Appendix

Assistant Professors

1. Shri. J.P. Jaiswal, Deptt. of RDAP, Tura
2. Shri Mohan Das Kushwaha, BSSS
3. Dr. E.R. Tongper, Deptt. of Philosophy
- (x) **Four persons, not being employees of the University or of a College or Institution by or affiliated to it, to be nominated by the visitor for their special knowledge.**
Vacant
- (xi) **Six teachers of the affiliated Colleges admitted to the Privileges of the University to be elected from amongst themselves.**
Vacant
- (xii) **Two Post-Graduate Students of the University one from Sciences and one from Humanities and one Research Scholar to be elected on academic merit in the manner prescribed by an Ordinance.**
 1. Mr.Sunil Chetri, Department of Physics, NEHU, Shillong
 2. Ms. Arphi S. Lyngdoh, Department of Management NEHU, Tura Campus

Research Scholar

1. Ms. Deepa Sharma, Department of Botany, NEHU, Shillong

Permanent Invitees(s)

1. The Director, College Development Council, NEHU, Shillong
2. The Controller of Examinations, NEHU, Shillong
3. The Registrar, Ex- Officio- Secretary.

MEMBERS OF THE BOARD OF RESEARCH STUDIES

LIST OF MEMBERS: 2014-15

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Appendix

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| <p>4. Dr. B. Panda (Upto 30.09.2014)
Department of Sociology NEHU,
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Department of Commerce NEHU, Shillong</p> |
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Department of Khasi, NEHU, Shillong</p> |
| <p>6. Dr. Ibadani S. Syiem (Upto 30.09.2014)
Department of Education, NEHU,
Shillong</p> | <p>Dr. T.S. Basu Baul (wef.01.10.2014)
Department of Chemistry, NEHU
Shillong</p> |

Four external experts two representing Humanities and Social Sciences and two representing Sciences to be appointed by the Vice-Chancellor.

- | | | | |
|---|------------------------|---|-----------------------|
| <p>1. Prof. Archana Barua
Department of
Humanities & Social Sc,
IIT, Guwahati-781039</p> | <p>Upto 30.09.2014</p> | <p>Prof. Margaret Zama
Department of
English, Mizoram University</p> | <p>wef.01.10.2014</p> |
| <p>2. Prof. Atal Chaudhury
Department of
Computer Science
Jadavpur University,
Jadavpur-700032</p> | <p>-do-</p> | <p>Prof. A.K. Rai
Department of
Life Sciences
Dibrugarh University
786004</p> | <p>-do-</p> |
| <p>3. Prof. N.K. Gogoi
Department of
Anthropology
Dibrugarh University
Dibrugarh -786004</p> | <p>-do-</p> | <p>Prof. Sachin Nath
Karmakar
Condensed Matter
Physics Division
Saha Institute Of Nuclear
Physics 1/AF Bidhannagar
Kolkata-700064</p> | <p>-do-</p> |
| <p>4. Prof. Saugat Ray,
Strategic Management
Group, IIM, Diamond
Harbour Road
Joka, Kolkata-700104,
West Bengal</p> | <p>-do-</p> | <p>Prof. S. Dorendrajit Singh
Department of Physics
(Director Centre of Material
Science) Manipur University,
Cahanchipur 795003,
Manipur</p> | <p>-do-</p> |
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