

**North-Eastern Hill University**  
**(A University with Potential for Excellence)**  
**NAAC Reaccreditation (2009) : 'A' Grade**  
**Shillong 793 022 India**



**Annual Quality Assessment Report**  
**2011-2012**

## PART – A

The IQAC was entrusted with the responsibility of scrutinizing Self Appraisal Reports of teachers desirous of being promoted to the next stage. This responsibility was successfully executed during the period.

## PART – B

### **1. Activities reflecting the goals and objectives of the institution:**

The university is located in a region predominantly inhabited by the socially and economically deprived sections of the population to which the institution is committed to serve as per the objectives of the university. The university strives to serve these sections of the society and has created unique traditions keeping in perspective the needs, aspirations, culture of the people by suitably orienting its academic, curricular as well as co-curricular and extra-curricular programmes. The goals and objectives of the university as enshrined in the NEHU Act have been made available to various stakeholders including public at large by posting it on the NEHU website

### **2. New Academic Programs initiated (UG and PG)**

Steps taken for recruitment of faculty for starting B.Tech. programme in Nanotechnology, Energy Engineering and Biomedical Engineering.

### **3. Innovations in curricular design and transaction:**

All courses have been designed keeping in mind the guidelines of AICTE, MCI, Bar Council and UGC etc.

### **4. Inter-disciplinary Programs started:**

No new programme was started.

### **5. Examination reforms implemented:**

Computerized Tabulation of scores at PG level.

### **6. Candidates qualified: NET/ SLET/ GATE etc.:**

**Not available**

### **7. Initiative towards faculty development Programs:**

Faculty is encouraged to attend Orientation and refresher Courses. Besides this University extends financial assistance for attending International/ National Conferences etc. The University conducts Orientation and Refresher courses through its Academic Staff College.

### **8. Total number of Seminars/ Conference/ Symposia/Extension Programmes etc.:**

*Organized – 27, Attended – 32.*

### **9. Research Projects: New Projects –12, Completed Projects –14, Ongoing Projects – 22.**

### **10. Patents generated, if any:**

None

### **11. New Collaborative Research Programs:**

See below under individual Departmental initiative.

#### **DEPARTMENT OF ECONOMICS**

Dr. B. Panda continued to collaborate with the Ministry of Rural Development, GOI in the capacity of member, expert committee for formulating research methodology in MGNREGA and as co-opted member, expert committee to evaluate the performance of districts for Prime Minister's annual MGNREGA District Award 2012.

#### **CENTRE FOR SCIENCE EDUCATION**

<b>Faculty Member</b>	<b>Collaborator</b>	<b>Area of Collaboration</b>
Prof. M. S. Bisht	Prof. S. R. Rao, Department of Biotechnology and Bio-informatics, NEHU, Shillong	Plant cytogenetical and molecular biology.
Prof. M. S. Bisht	Prof. N. Chongtham, Department of Botany, Punjab University, Chandigar	Nutritional analysis of edible bamboo shoots.

#### **DEPARTMENT OF ENVIRONMENTAL STUDIES**

Prof. B.K.Tiwari had collaboration with (i) Prof. Dr. Wolfgang-Albert Flugel in INNO-Asia Brahma Twin project of Friedrich-Schiller University, Jena (FSU-Jena), Lobdergraben 32; D-07743 Jena; Germany. (ii) Indian Institute of Science, Bangalore on Climate Change adaptation in North East Region of India.

Dr. Devesh Walia had academic collaboration with EOS-NTU, Singapore; IIG, Navi Mumbai; BARC-BRNS, Mumbai, Department of Physics, NEHU.

#### **DEPARTMENT OF GEOGRAPHY**

Indo-Japan Collaboration with Disaster Prevention Research Institute, Kyoto University (Japan), Team Members: Prof. S. Singh, Dr. H.J. Syiemlieh, and Dr. L. Cajee.

#### **DEPARTMENT OF RURAL DEVELOPMENT AND AGRICULTURAL PRODUCTION**

The Department collaborated with NIRD, Hyderabad, Wildlife Trust of India, New Delhi and ICAR Research Complex for NE Region, Barapani.

#### **DEPARTMENT OF BIO-CHEMISTRY**

Two collaborative DBT-funded research projects are running in the laboratory of Dr. T. Tripathi. There are also research collaborations with the following institutes: University of Konstanz, FRG; University of Dundee, UK; Uppsala University, Sweden; University of California, USA; Institute of Enzyme Research, Japan; Toho University, Japan; Research Centre, Juelich, FRG; Osaka University, Japan; University of Cambridge, UK; Newcastle University, UK; Medical College of Wisconsin, Milwaukee, USA; JNU, New Delhi and BHU, Varanasi.

### **DEPARTMENT OF BIOTECHNOLOGY AND BIOINFORMATICS**

1. A collaborative research work in the field of microbiology on characterization of novel metal tolerant gene(s) has been going on between Dr. Celin Acharya of BRNS-BARC and Dr. S. R. Joshi.
2. A collaborative research work in the field of microbiology-endophytes on characterization of novel endophytes and their anti-cancer properties has been going on between Dr. A Chattopadhyay of Visva-Bharati and Dr. S.R. Joshi.
3. A collaborative research work with All India Institute Medical Sciences (Neurology Dept.) New Delhi and Prof. K. Aguan is on.
4. A collaborative research work in the field of bioinformatics between Dr. A. Bhattacharjee and Prof. Velmurugan, Centre for advanced studies in Crystallography and Biophysics, Chennai.
5. Prof. A. Chatterjee has a collaborative research on Purification and characterization of bioactive natural antioxidant, immunomodulator and anticancer products from *Dioscorea alata* L., of North Eastern region of India with Dr. N. Mandal of Bose Institute and Prof. Tapas Choudhury of Univ. of North Bengal.
6. Prof. A. Chatterjee has a collaborative research on Studies on antitumor and radioprotective potential of *Potentilla fulgens* Wall ex Hook and characterization of its active compounds with Prof. U. Banerjee of NIPER, Chandigarh.

### **DEPARTMENT OF BOTANY**

The faculty members of the Department has been collaborated with several national and international institutes like (i) International: Concordia University, Montreal, Canada; International Centre for Integrated Mountain Development, Kathmandu (ICIMOD); Kfw and Gtz, Humburg, Germany; National Institute of Agrobiological Sciences, Tsukuba, Japan; UNDP; University of Ljubljana, Slovenia under the Indo-EU S & T Cooperation. (ii) National: Andhra University, Andhra Pradesh; Assam University, Silchar; Bose Institute, Kolkata; CPRI, BSI, NBPGR, Shillong; ICAR Complex for NER, Umiam; JNU, New Delhi; Mizoram University, Aizawl; Nagaland University, Kohima; NBRI, Lucknow; NERIST, Itanagar; RFRI, Jorhat; State Council of Science and Technology, Sikkim; TERI, New Delhi; Tocklai experimental station of Tea Research Association, Tocklai; Tripura University, Tripura; University of Agricultural Science, Bangalore; University of Bangalore, Bangalore; University of Delhi, Delhi; University of Kashmir, Kashmir.

### **DEPARTMENT OF ZOOLOGY**

Prof. V. Tandon collaborated with Dr. Rathinam and Dr. Gowri Priya of Aravind Eye Hospital, Madurai on identifying the causative agent of ocular granuloma in human subjects (in focal areas of Tamil Nadu), in which a cercaria (larval stage) of trematode flukes that occur in fish or avian hosts is suspected to be implicated; Prof. A. Bhattacharya of JNU, New Delhi for Next Generation sequencing of zoonotic helminth-parasites in NER under the DBT's NER Twinning Programme.

Prof. N. Saha collaborated with Prof. D. Haussinger, Director, Department of Gastroenterology, Hepatology and Infectious Disease, Heinrich-Heine University of Dusseldorf, Dusseldorf, Germany in the field of molecular mechanism of bile acid excretion and hepatic encephalopathy; and with Dr, Manas Kumar Santra, Scientist D, National Centre

for Cell Science, Pune on DBT's Twinning Project for the NE entitled "Molecular characterization in the expression of mRNAs for ornithine-urea cycle enzymes and enzyme proteins, multiple glutamine synthetase genes and signaling cascades under hyper-ammonia stress in the air-breathing walking catfish, *Clarias batrachus*".

Dr. A. K. Yadav collaborated with Dr. Andreas Schmidt-Rhaesa, University of Hamburg, Hamburg, Germany on Biodiversity of Indian Nematomorph species and communicated one joint research paper, "*Chordodes shillongensis* (Nematomorpha: Gordiida), a new species of horsehair worm from Meghalaya, North-East India" to *Current Science* (Bangalore) in February, 2012.

Dr. S. R. Hajong and Prof. B. Kharbuli collaborated with Dr. Falko Drijfhout, Keele University on the GC-MS characterization on cuticular hydrocarbons in *Apis cerana indica* (Fab.).

Dr. B. Das collaborated with Dr. Amit Sharma, ICGEB, New Delhi, for crystallography of PEPCK; Prof. K. Satyamoorthy, Director, Manipal Life Science Centre, Manipal University, Manipal, Karnataka, for Epigenetic analysis of PEPCK promoter and Dr. Sandip Mishra, ILS, Bhubaneswar, Odisha, for anti/pro apoptotic genes in breast cancer.

#### **DEPARTMENT OF CHEMISTRY**

Prof. K. Ismail had academic collaboration with (i) Dr. P. A. Hassan and Dr. V. K. Aswal, Bhabha Atomic Research Centre, Mumbai (ii) Dr. S. Mahiuddin, North-East Institute of Science and Technology, Jorhat, Assam.

Prof. R. A. Lal was in collaboration with Dr. A. Kumar, Faculty of Science and Agriculture, The University of West Indies.

Prof. K. M. Rao had academic collaboration with Dr. Therrien Bruno, Institut de Chimie, Universite de Neuchatel, Switzerland, and Dr. Yuriy Mozharivkyj, McMaster University, Ontario, Canada.

Dr. A. K. Chandra had research collaboration with the Quantum Chemistry Group of the University of Leuven, Belgium.

Dr. T. S. Basu Baul had academic collaboration with Universita di Palermo, Italy; Virije Universiteit Brussel, Belgium; University of Zurich, Switzerland; Pharmachemie BV, Haarlem, The Netherlands; Universita di Camerini, Italy; The University of Texas at San Antonio, USA; University of Malaya, Malaysia; University of the District of Columbia, USA; Universiti Sains Malaysia, Malaysia.

Dr. M. K. Sahoo collaborated with Dr. D. B. Naik, BARC and with Prof. B.S.M Rao the National Centre for Free Radical Research, Pune University.

Dr. S. Mitra has research collaboration with D. Kumar, BITS, Pilani and Dr. A. Bhasikuttan, BARC, Mumbai and S. Jenkins, College of Chemistry Engineering, Hunan Normal University, Changsha, Hunan 410081, China.

#### **DEPARTMENT OF MATHEMATICS**

Dr. A. K. Das collaborated with Prof. M. R. Pournaki, Department of Mathematical Sciences, Sharif University of Technology, Tehran, Iran, and School of Mathematics, Institute for Research in Fundamental Sciences (IPM), Tehran, Iran.

## DEPARTMENT OF PHYSICS

Dr. A. Saxena collaborated with R.J. Buenker and H.P. Liebermann, Bergische University, Wuppertal, Germany, and D. Walia, Department of Environmental Science NEHU, Shillong. Prof. Satish Kumar collaborated with Dr. P. K. Patra, Centre for Science Education NEHU, Shillong.

Prof. B. M. Jyrwa collaborated with Radio Chemistry Division and Nuclear Physics Division, BARC, Trombay, Mumbai.

## DEPARTMENT OF BASIC SCIENCES AND SOCIAL SCIENCES

Dr. H. Choudhury collaborated with (i) prof. P. Tandon and Dr. S. Kumaria of Department of Botany, NEHU, Shillong on Micropropagation of *Nardostachys grandiflora* and *Malaxis wallichii*, two threatened medicinal plants of Northeast India, (ii) Prof. S. K. Barik, Prof. N. Venugopal and Dr. M. C. Das of Department of Botany, NEHU, Shillong, and Dr. A. Chettri, Sikkim University, Gantok, 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 (iii) 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 Phytochemical profiling, molecular characterization and conservation of *Flemingia vestita*: Endemic medicinally important plant of Northeast India.

Dr. K. Upadhaya collaborated with Prof. N.K. Chungroo 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.

### 12. Research grants received from various agencies:

Funding Agency	Total Funding (Rs. In Lakhs)
ICSSR-NERC, Shillong	Rs. 50,000.
MHRD, New Delhi	Rs. 6.30 Lakhs
Centre for Science Education received	Rs. 13,56,584 Lakhs
GBPIHED, Almora 2009-2012	Rs. 2.16 Lakhs
NEC, Shillong	Rs. 35.00 Lakhs
NEC, Shillong	Rs. 10 Lakhs
MoES, New Delhi	Rs. 4.80 Lakhs
UGC (SAP) DRS II Programme	Rs. 3.50 Lakhs
International Seminar	Rs. 0.75 Lakhs
Projects	Rs. 4.50 Lakhs
Ministry of Communication & Information Technology	Rs. 78.11 Lakhs
Equipment grant (11 <sup>th</sup> Plan)	Rs. 13 Lakhs
UGC-SAP (DRS-II), New Delhi	Rs. 4 Lakhs
DST	Rs. 1.5 Lakhs
UGC	Rs. 1 Lakhs
BRNS (DAE)	Rs. 7.5 Lakhs
DST	Rs. 5 Lakhs

ICMR	Rs. 1.88 Lakhs
BRNS (DAE)	Rs. 16.5 Lakhs
DBT	Rs. 25.37 Lakhs
DBT	Rs. 1.1 Crore
ICMR	Rs. 12 Lakhs
Department of Biotechnology (Project)	Rs. 255.771 Lakhs
Department of Atomic Energy- BRNS, Mumbai (Project)	Rs. 8.56 Lakhs
Dept. of Biotechnology – Govt. of India MSc Support Programme	Rs. 23.49 Lakhs
Department of Information Technology, Govt. of India(Project)	Rs. 59.97 Lakhs
Indian Council of Agricultural Research/NAIP/World Bank (Project)	Rs. 27.8 Lakhs
DST – Ministry of Science and Technology (Project)	Rs. 44.0 Lakhs
DST – Ministry of Science and Technology (FIST)	Rs. 51.0 Lakhs
UGC, Govt. of India (Project)	Rs. 7.07 Lakhs
Ministry of Science and Technology, Government of India	Rs. 389.966 Lakhs
Board of Research in Nuclear Sciences (BRNS), Mumbai	Rs. 16.445 Lakhs
MoEF	Rs. 23.950 Lakhs
DST, New Delhi	Rs. 34.1 Lakhs
DBT, New Delhi	Rs. 284.81 Lakhs
Ministry of Environment and Forests, New Delhi	Rs. 11.0 Lakhs
Department of Information Technology, Ministry of Communications & Information Technology	Rs. 18.84 Lakhs
BRNS-BARC	Rs. 16.5 Lakhs
ICMR-ICAR Coordinated Joint project	Rs. 17.01 Lakhs
DST/DAE/BRNS/CSIR/UGC/DIT	Rs. 45.77 Lakhs
UGC-SAP-DSA Phase-III Programme	Rs. 04.20 Lakhs
National Symposium on Current trends in Computational Chemistry (CTCC-2012)	Rs. 1,75,000 Lakhs
UGC (SAP-DRS-I)	Rs. 18.4 Lakhs
UGC (BSR)	Rs. 20 Lakhs
NBHM (DAE) Library	Rs. 10 Lakhs
BRNS-DAE	Rs. 7,62,725 Lakhs
UGC for Research Projects under SAP-DSA Programme	Rs. 6,02,424 Lakhs
ICSSR, NERC, Shillong	Rs. 50,000
UGC-SAP-DRS III	Rs. 5.20 Lakhs
Development fund of ECE and IT Departments	Rs. 7 Lakhs
Funded by DIT & DietY both under the MCIT, GoI	Rs. 30.15 Lakhs & Rs. 57.92 Lakhs
DIT	Rs. 12.84 Lakhs
DIT, Govt. of India	Rs. 45 Lakhs
DST, Govt. of India, New Delhi	Rs. 14,00,000
<b>Non – Plan Plan</b>	Rs. 87,83,284

### 13. Details of Research Scholars (Ph.D)

<u>Departments</u>	<u>No. of Research scholars</u>
Department of Commerce	01
Department of Economics	02
Department of Education	04
Department of Anthropology	04
Department of Environmental Studies	04
Department of Geography	04
Department of Rural Development and Agric Production	01
Department of English	04
Department of Garo	01
Department of Hindi	01
Department of Khasi	01
Department of Linguistics	01
Department of Philosophy	04
Department of Biochemistry	02
Department of Botany	06
Department of Zoology	06
Department of Chemistry	09
Department of Mathematics	01
Department of Physics	03
Department of Cultural and Creative Studies	03
Department of History	04
Department of Political Science	04
Total	70

### 14. Citation Index of Faculty Members and Impact Factor:

The research publications of the faculty have been widely cited in national and international journals. Impact factor of journals where such work has been published ranged between 1 to 8.

### 15. Honors / Awards to the Faculty:

#### ***DEPARTMENT OF ECONOMICS***

Prof. S.K. Mishra was referee to (i) the *British Journal of Mathematical & Statistical Psychology* (Wiley), (ii) *Computational Statistics and Data Analysis* (Elsevier), (iii) *Economics Letters* (Elsevier), (iv) *Journal of Risk* (Incisive Media, London) and (v) *IUP Journal of Managerial Economics* (ICFAI). He was on the editorial boards of (vi) *Indian Journal of Regional Science* (Kolkata) and *Gitam Review of International Business* (Visakhapattanam). He also served as a member on the Plagiarism Committee of RePEc, an international organization of Research Documentation in Economics under the auspices of the Federal Reserve Bank of St. Louis, USA.

Prof. B. Mishra was appointed as a member of the working Sub- Group on Societal Intervention of S & T Society under the Department of Science and Technology, Government of India, for formulating the Twelfth Five Year Plan perspective for the department. He was also



appointed as a member of the Meghalaya Commission on Resource Mobilization w.e.f.25<sup>th</sup> November, 2011.

Dr. B. Panda was co-opted as a member of the Expert Committee to evaluate the performance of districts for Prime Minister's Annual MGNREGA District Award 2012.

Dr. Daisy Das was honored as the second best paper presenter in the 2<sup>nd</sup> International Conference on Sustainability: People, Planet and Prosperity, IIM Shillong, 9<sup>th</sup> – 11<sup>th</sup> November, 2011.

#### ***DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE***

Prof. M. M. Raza was a member of Departmental Advisory Board of NCERT, New Delhi.

#### ***DEPARTMENT OF ANTHROPOLOGY***

Prof. T.B.Subba was (i) appointed Honorary Director, Indian Council of Social Science Research, North Eastern Regional Centre, Shillong from 4<sup>th</sup> April 2011 till 3<sup>rd</sup> April 2014, (ii) nominated as Member, Regional Centers Committee of the Indian Council of Social Science Research, New Delhi for three years (2011-13).

Dr. B. Langstieh was (i) nominated Visiting Scholar by the University Grants Commission, New Delhi and the Hungarian Scholarship Board, Ballasi, Budapest, Hungary for research stay of 15 days (3-17 October, 2011), (ii) nominated Visiting Scholar to the Department of Anthropology, University of Washington, Seattle, USA under the Fulbright-Nehru Senior Research Fellowship Grant awarded by the United States Educational Foundation in India and supported by the Council for International Exchange of Scholars (CIES), Washington DC.

#### ***DEPARTMENT OF ENVIRONMENTAL STUDIES***

Prof. B. K.Tiwari was elected President, Environmental Science Section: 99<sup>th</sup> Session of Indian Science Congress Association- 2012, Bhubaneswar and member of the Council of Indian Science Congress Association for the year 2011-2012.

Prof. L.K. Jha was elected Fellow of the Linnean Society of London (20<sup>th</sup> January, 2011. The Linnean Society of London, founded in 1768, is forum of Natural History.)

#### ***DEPARTMENT OF RURAL DEVELOPMENT AND AGRICULTURAL PRODUCTION***

Dr. B.K. Mishra got the Founder Fellow Award of Indian Society of Hill Agriculture and Bioed Fellowship Award for his "Outstanding Contribution in the field of Animal Science" awarded by Bioed Research Society.

#### ***DEPARTMENT OF ENGLISH***

Dr. M. Renganathan was selected for Associate ship of the UGC Inter-University Centre for Humanities and Social Sciences (IUC), at Indian Institute of Advanced Study, Shimla from 2012 to 2014.

#### ***DEPARTMENT OF KHASI***

Prof. S. Dkhar was awarded the Special AIPC National Award at the 12<sup>th</sup> Mega Convention of the All India Poetess Conference held on 6<sup>th</sup> – 8<sup>th</sup> January at Hubli, Karnataka. She was also awarded the State Literary Award 2009 for the book *Na Thwei Pyrkhath U Longshuwa* ( A Collection of Folk Poems) on 17<sup>th</sup> February, 2012.

### **DEPARTMENT OF LINGUISTICS**

Umarani Pappuswamy is Member of the Publication Committee, *Indian Linguistics Journal* published by the Linguistic Society of India for the term January 2012- December 2014.

### **DEPARTMENT OF PHILOSOPHY**

Prof. Jagat Pal was appointed as Chief Editor of *International Journal of Jurisprudence and Philosophy of Law*, Vol. 4, No, 1 & 2 January – December, 2012. He was a member of Editorial Advisory Board of *Asian Review of Social Sciences* (ARSS), an International peer-reviewed journal of social sciences, Sri. Raam Publication, Coimbatore, Tamil Nadu.

Dr. L. N. L enka was a member of Editorial Board *International Journal of Jurisprudence and Philosophy of Law*, Serials Publication, New Delhi.

### **DEPARTMENT OF BIO-CHEMISTRY**

Prof. R. Sharma was

1. President of the Association of Gerontology (India).
2. Member, Editorial Board of *Biogerontology* from Springer, The Netherlands.
3. Member, Editorial Board of *International Journal of Development Neurosciences*, Elsevier, USA.
4. Member, Editorial Board of *Frontiers in Aging research*, Switzerland.

Prof. R. N. Sharan

1. In a first of its kind, a tripartite agreement between Prof. R. N. Sharan, NEHU and IndSwift Pharmaceutical Ltd. was signed on 24<sup>th</sup> November 2011 at Shillong for further R&D to make the cancer detection kit, a patented novel invention of Prof. Sharan.

Dr. D. Syiem was a

1. Reviewer for *Journal of Medicinal Plants Research*. [www.academicjournals.org/jmpr](http://www.academicjournals.org/jmpr), ISSN 1996-0875; 2010-12.

Dr. M. B. Syiem

1. Member of Advisory committee for women & child health nutrition programme under National Council for Science & Technology communications (NCSTC), Dept. of Science & Technology, Ministry of Science & Technology, GOI, New Delhi; 2010-2013.

Dr. T. Tripathi

1. Editorial Review Board member of *International Journal of Biomedical Science* (IJBS) and *Scientific Journals International* (SJI).
2. DBT Overseas Associateship Award to visit Justus Liebig University, Giessen, Germany for 3 months; January 2012 to April 2012.

### **DEPARTMENT OF BOTANY**

Prof. P. Tandon was conferred with Professor Saligram Sinha Memorial Lecture Award (2011) of National Academy of Sciences, India for his outstanding contributions.

### ***DEPARTMENT OF ZOOLOGY***

Prof. V. Tandon (i) received the “Lifetime Achievement Award” conferred by Anna University and Indian Society for Parasitology, November 19, 2011 at Anna University, Chennai.

Prof. B. K. Sharma received “Prof. G.K. Kulkarni Gold Medal” for the year 2011 by Zoological Society of India.

Dr. B. Das received the DBT Overseas Associateship Award for the year 2012.

### ***DEPARTMENT OF HISTORY***

Prof. F. A. Qadri was nominated by the Government of India to the National Council for Promotion of Urdu Language, New Delhi, as a member for a second term 2011-14. He was also nominated to the Indian Council of Historical Research, New Delhi, as a member for a second term 2011-14 and to the Indian Historical Records Committee, New Delhi, as a member for a six year term 2011-16.

### ***DEPARTMENT OF SOCIOLOGY***

Dr. A. K. Nongkynrih was appointed as a member on the Board of the Indigenous Peoples Assistance Facility of the International Fund for Agricultural Development, Rome (2010 – 2013); Planning Committee, Khasi Hills Autonomous District Council, Shillong, (2011); State Advisory Group on Community Action of National Rural Health Mission, Department of Health and Family Welfare, Government of Meghalaya, 2011; State Level Monitoring Committee on Twenty Point Programme, Government of Meghalaya, Programme Implementation and Evaluation Department (2010); Advisory Committee on Codification of Customary Laws, Khasi Hills Autonomous District Council, Shillong, (2010); and Advisor of Regional Cooperation for People’s Empowerment, Guwahati (2010 – 2012).

### ***DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING***

Prof. S. Choudhury has been selected (a) a counselor for National Assessment and Accreditation Council (NAAC) and National Board of Accreditation (NBA), (b) Member of the UGC Expert Committee in the field of Electronics, Electrical and Computers Sc. to evaluate major and minor projects.

#### **16. Internal Resources Generated:**

Not available

#### **17. Details of Departments getting SAP, COSIST (ASSIST), DST, FIST, etc., Assistance/ Recognition:**

Department of Botany- CAS (UGC); Department of Zoology- SAP (UGC); Department of Biochemistry – SAP (UGC); Department of Chemistry- SAP (UGC).

#### **18. Community Services:**

The NSS cell conducts such activities from time to time.

**19. Teachers and Officers Newly Recruited:****Teaching Staff**

Sl. No.	Name of the Post	Total Post		In Position out of Total Filled						
		Sanctioned	Filled	Gen.	OBC	SC	ST	PWD	Total	Vacant
1.	Assistant Professor	204	139	119	3	4	13	Nil	139	65
2.	Associate Professor	146	95	89	Nil	1	5	Nil	95	51
3.	Professor	92	55	53	-	1	1	Nil	55	37
4.	PRO/REA	1	-	-	-	-	-	-	1	1

**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	69	60	60	-	-	-	-	60	9
2.	Group-B	185	137	134	-	1	1	1	137	48
3.	Group-C	614	483	482	-	-	-	1	483	131
4.	Group-D	179	93	93	-	-	-	-	93	86

**20. Teaching – Non – Teaching Staff Ratio:** Academic : Non-academic staff = 1: 1.81 app

**21. Improvements in the Library Services:****(Shillong Campus)**

The NEHU Central Library continues to strengthen its book and journal collection with a keen intent to further improve library services by adopting the latest ICT available for libraries. During the year, apart from its printed book and journals, the Library provided links and organized the access to rich collection of e-resources available through the UGC INFONET Digital Library Consortium, INDEST-AICTE Consortium and DeLCON-Consortium. Statistics indicate that the total number of full-text articles downloaded during the year was 2,03,516 with usage ranking at number 17 compared with other universities. Though the library's main objective is to support the information requirement of its academic community, it also extended its library facilities to other users from outside the university totaling more than 300 during the year. Library extension service as part of improving and modernization of college libraries was also taken. In this direction, a two-day User Awareness Programme on UGC- Infonet Digital Library Consortium and the National Library and Information Services Infrastructure for Scholarly Content (N-LIST) was conducted by the Central Library, NEHU, Shillong in collaboration with INFLIBNET Centre, Ahmedabad on 25<sup>th</sup> – 26<sup>th</sup> August 2011 at the NEHU Guest House Auditorium, NEHU Campus, Shillong. A total of 125 participants registered for the programme, and they included 19 College Principals, 34 College Librarians, 16 Assistant Professors, 2 Technical Officers, 51 Library Staff, 2 Research Scholars, 5 Students and 5 Officers of NEHU Central Library. Further, to fulfill the professional commitment, the library officers and staff provided exposure and training to MLISc students as part of the practical job diary and internship programme.

The library's proposal to implement Radio Frequency Identification (RFID) System materialized with the financial support from Plan Grant for Central Facilities. After following prescribed evaluative procedure the approved RFID system was implemented in the library on a new integrated library management system known as Koha. Data from the old system (LibSys) have been successfully migrated to the new environment. Once tagging and printing of SMART cards is completed, user-services will improve immensely which will benefit both library users and staff.

**(Tura Campus)**

During 2011- 2012 the Campus Library achieved outstanding progress. The Library continued to offer services like reference, circulation, bibliographic 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 details are given below:

Total Allocation	- Rs. 8.07.00 Lakhs
Total Collection	- 2050 books
Total Journals	- 96
Total Members	- 365
Total Number of Xerox Exposures	- 26,668

**22. New Books/Journals subscribed and their cost/value:**

**(Shillong Campus)**

(i) Library Budget	: Rs. 211.97 Lakhs
(ii) Library Collection	: Rs. 2,67,467 Vols.
(iii) Data Bank (Government Publications & Reports)	: 248 Vols
Books added during the Year	: 5214 Vols
(iv) Periodical Subscription (Print)	
(i) Foreign Journals	: 150
(ii) Indian Journals	: 149
<b>Total</b>	<b>: 299</b>
(v) Revenue collected during the year by the Library	: Rs. 1,79,744 Lakhs

**Enrollment, Usage and Other Services**

(i) Enrollment	: 1534
(ii) Daily Average No. of Books issued/return/renewal	: 423
(iii) No. of users who availed consultation services	: 312
(iv) Average internet users	: 491 per day
(v) Photocopying Services	: 1,48,612 copies
(vi) Printing Services	: 4827 copies
(vii) Resources sharing under UGC INFONET Digital Library Consortium Inter Library Loan services using JCCC dispatched to universities.	: 130 articles
(viii) NEHU usage of UGC INFONET Digital Library Consortium e-journals depicted by total articles downloaded during the period.	: 2,03,516 articles

**23. Courses in which student assessment of teachers is introduced and action taken on student feedback:**

All courses offered by the University at its Shillong and Tura campuses. Feedback were analysed by external experts.

**24. Feedback from stakeholders:**

Only students' feedback system is in place.

**25. Unit cost of education:**

**26. Computerization of administration and the process of admissions and examination results, issue of certificates:**

Tabulation of Examination results and issue of certificates etc. are fully computerized.

**27. Increase in the infrastructural facilities:**

(i) Department of Chemistry: A Single Crystal X – Ray Diffractometer was procured from Oxford Diffraction Ltd., (M/S Agilent Technologies, U.K.) costing Rs. 1, 49, 60,268/- (inclusive of transportation and other charges) out of DST-PURSE Programme of the University.

(ii) Department of Basic Sciences and Social Sciences: Established the Nanotechnology Laboratory with facilities for synthesis characterization of nano materials. Also established Mechanical workshop practice laboratory and Basic Electrical Engineering laboratory for the students of ECE and IT Departments.

(iii) Department of Electronics and Communication Engineering: Prof. Sushabhan Choudhury has set up the state of the art centralized research lab in the field of nanotechnology.

**28. Technology up gradation:**

The NEHU Voice and Data Network (NDVN) Facility, commissioned in 2003 as VSAT Facility, continued to provide data (Internet) and Voice (telephony) access in a convergence mode to all academic and administrative departments besides other facilities/buildings on the campus. Data connections 30 numbers of 48-port Layer 2 (L2) switches were provided during the year to most departments having computer lab facilities.

**29. Computer and internet access and training to teachers and students:**

Providing computational facility to faculty members, research scholars and students of the University; developing and maintaining software for the University; and conducting training programmes in computer related subjects.

**30. Financial aid to students:**

UGC scholarships for meritorious students besides other fellowships offered by a number of funding agencies are available and availed by the students.

**31. Support from the Alumni Association and its activities:**

System of regular interaction with Alumni is being strengthened.

### **32. Support from Parents-Teachers Association and its activities:**

No such system is in place.

### **33. Health services:**

#### **(SHILLONG CAMPUS)**

*The following facilities are available at the Health Centre:*

1. **CONSULTATION:** Medical Officers are available for consultation at fixed hours as well as for emergency consultation outside duty hours.
2. **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.
3. **DRESSING ROOM:** Dressings, Injections and Minor surgical procedures are carried out in the dressing room.
4. **LABORATORY:** Bio-Chemical and clinical pathology tests for blood and urine analysis are performed in the Health Centre.
5. **IN-PATIENT TREATMENT:** Patients requiring in-patients treatment are referred to the Hospitals/ Specialist within Shillong thereafter outside Shillong depending upon the necessity.
6. **AMBULANCE:** Ambulance service is provided during emergency for transporting the severely sick patients from residents to Clinic/Hospitals.
7. **EMERGENCY DUTY:** The Resident Medical Officers and Resident Nurse are doing emergency duty outside duty hours whenever needed.
8. **SPORTS:** First Aid Service is provided at sports tournaments organized by the University.

### **34. Performances in sports activities:**

The Sports Department organised the NEHU Games 2012 from 26<sup>th</sup> to 30<sup>th</sup> March 2012. Ms. Ampareen Lyngdoh, Minister of Urban Affairs, Government was the Chief Guest at the opening function and declared the NEHU Games 2012 open. Shri. B. M. Ianong, Deputy Chief Minister, Government of Meghalaya, was the chief guest at the closing ceremony and gave the trophies. The various games organized included basketball, volleyball, table, tennis, badminton, carom and chess.

### **35. Incentives to outstanding sportspersons:**

University provides quota for sportspersons at the time of admission to its courses.

### **36. Students Achievements and Awards**

Degrees Awarded:

(a) M.Com – 12

(b) M.A. –  $38+41+25+42+6+16+44+27+33+31+37+38 = 378$

(c) M.Sc. –  $20+21+28+24+21+21+29+11 = 175$

(d) M.A/M.Sc. –  $26+28 = 54$

(e) M.Phil. –  $10+2+8+1+6 = 27$

- (f) MBA – 27
- (g) M.L.I.Sc. – 17
- (h) B.Tech – 41+ 50 = 91
- (i) P.G. Diploma –3
- (j) P.G. Dip (Music) & (Painting)-12+10= 22
- (k) Ph. D – 1+2+4+4+4+4+1+4+1+1+1+1+4+2+6+6+9+1+3+3+4+4 = 70  
Ph.D.
- i. Mr. Benjamin Franklin Lyngdoh on the topic ‘Impact of Micro-Finance on Women Empowerment: A Study of Meghalaya’, (March 2012), under the supervision of Dr. A. P. Pati.
  - ii. Ms. Joyeeta Deb, “Post-Reform Bank Efficiency in North- East India: A Branch Level Analysis”, Supervisor: Prof. P. Nayak; Jt. Supervisor: Dr. A. P. Pati.
  - iii. Ms. Deigracia Nongkynrih, “Women Workforce Participation in India: A Study of Trends and Determinants,” Supervisor: Prof. Eugene D. Thomas.
  - iv. Ms. Rubynia Lamare “A Study of Academic Achievement in Relation to some Psycho-Social Variables of Secondary School Students in East Khasi Hills District, Meghalaya.”
  - v. Ms. Isabella Kyrasian “A Study of Secondary Education in the Ri-Bhoi District of Meghalaya.”
  - vi. Ms. Hiramon Diengdoh “Effect of Intelligence Social Maturity and Emotional Competence on the Academic Achievement of Higher Secondary School Students in East Khasi Hills District of Meghalaya.”
  - vii. Ms. Daffodils Era Lamare “Secondary Education in Jaintia Hills District of Meghalaya: An Analytical Study.”
  - viii. Mr. Immanuel Zarzosang Varte, “Impact of Development on the Hmars of Tipaimukh in Churachandpur District, Manipur”. Supervisor: Dr. L. Zehol.
  - ix. Ms. Sarnali Saikia, “Dental Anthropology of the Khasis of Shillong”. Supervisor: Dr. D.K. Limbu.
  - x. Ms. R.V. Khanchuila, “Gendre relations among the Tangkhuls of Manipur: An Anthropological study”. Supervisor: Dr. L.Zehol.
  - xi. Ms. Jennifer Baiamonlang Khyriem, “A Study on Health Status of the Khasis in Domiasait Area of West Khasi Hills District, Meghalaya.” Supervisor: Prof. R. Khongsdier.
  - xii. Mr. Sanabam Sujen Singh, “Geophysical studies in the North Eastern Indian region using the magneto telluric techniques.” Supervisor: Dr. Devesh Walia.
  - xiii. Ms. Donnycia Tariang “Assessment of the water quality of Umkhrah River: Physico-chemical and Biological Investigation.” Supervisor: Prof. B.K.Tiwari.
  - xiv. Ms. Van Jennifer Joan Wallang “Geoenvironment and Metabolism of Shillong City Ecosystem.” Supervisor: Prof.B.K.Tiwari.
  - xv. Ms. Phalguni Kayenpaibam “Ecological and socioeconomic analysis of traditional and modern forest management practices of Tangkhul Naga community.” Supervisor: Prof. B.K.Tiwari.
  - xvi. Pranjit K. Sarma: Habitat Suitability for Rhino and Utilization Pattern in Rajiv Gandhi Orang National Park of Assam. Supervisor- Professor B.S. Mipun.
  - xvii. K.C. Lalmalsawmzauva: Reproductive Health in Mizoram with special reference to Champhai District. Supervisor- Professor. D. K. Nayak.



- xviii.** B. C. Nath: Assessment of Irrigation Requirement and Potential for Crop Diversification in Lower Kameng Basin. Supervisor-Professor Z.H.Qureshi.
- xix.** C.Ramhnehzauva: Distribution and Types of Water Sources in Aizawl City. Supervisor- Professor Z.H.Qureshi.
- xx.** Lakhimai Mili, Arundhati Roy as a Writer-activist: A Study. Supervisor: Dr. S. Bhattacharjee.
- xxi.** S. Khaiminthang, The Tribal World of Chinua Achebe's Novels: A Post-Colonial Perspective. Supervisor: Dr. S. Bhattacharjee.
- xxii.** Jenniefer Dkhar, Re-Inventing History: A Study of Amitav Ghosh's Novels. Supervisor: Dr. M. Renganathan.
- xxiii.** Baljuda War Nongbri, Re-examining the American Dream: A Study of Joyce Carol Oates's Later Fiction. Supervisor: Prof. E. Syiem.
- xxiv.** Filmecca Marbaniang, "Hindi Tatha Khasi Lökkathaon ka Tulnatmak Adhyayan." Supervisor: Dr. D. K. Choubey.
- xxv.** Mr. Rolling Stone Wankhar, "Elements of Folklore in Pre-Independence Khasi Poetry (1888-1947): A Critical Study." Supervisor: Prof. B. War.
- xxvi.** Goigongpou Gonmei, "Typological Characteristic of Ronmei" Supervisor: Prof. Juanita War.
- xxvii.** Mr. Bendangrenla, "An Evaluation of Grice's Intentionalistic Theory of Meaning." Supervisor: Dr. L. N. Lenka.
- xxviii.** Mr. Asongpou, "Meaning of Life: Aristotle and Zeliangrong." Supervisor: Prof. Vanlalnghak.
- xxix.** Mr. Saheni Loli, "God, Man and Nature: A Philosophical Study of Mao Naga Traditional Religion." Supervisor: Prof. Vanlalnghak
- xxx.** Ms. Imchanaro, "Construction of a Logic of Discourse: An Exploration in Speech Acts". Supervisor: Dr. L. N. Lenka
- xxxi.** Mr. S. Adhikari, "Studies on thallium toxicity to cyanobacterial strains isolated from a variety of natural habitats: implication for environmental biotechnology." Supervisor: Dr. A. K. Singh.
- xxxii.** Ms. S. Majaw, "Effects of plant extracts on polyol pathway under hyperglycemic condition." Supervisor: Dr. D. Syiem.
- xxxiii.** Mr. John Zothanzama Sailo "Studies on the wood rotting fungi of Meghalaya" Supervisor: Prof. M. S. Dkhar, Jt. Supervisor: Dr. H. Kayang.
- xxxiv.** Mr. Panna Das "Studies on the arbuscular mycorrhizal fungi associated with *Michelia champaca* Linn. and their potential on its growth." Supervisor: Dr. H. Kayang
- xxxv.** Ms. Nabanita Devadasan "Isolation and functional characterization of the waxy locus in common buckwheat (*Fagopyrum esculentum* Moench)" Supervisor: N. K. Chrungoo.
- xxxvi.** Mr. David Lalsama Biate "Molecular typing of some native cyanobacteria and *Rhizobium* strains". Supervisor: Prof. A. K. Misra
- xxxvii.** Mr. Jeremy Dkhar "Analysis of genetic diversity and Phylogentic relationship in the genus *Nymphaea* using DNA profiling". Supervisor: Prof. P. Tandon, Jt. Supervisor: Dr. S. Kumaria.
- xxxviii.** Ms. Haribashai Swer "Studies on soil microbial populations and their activities as affected by crop rotation and organic treatments under experimental conditions". Supervisor: Prof. M. S. Dkhar.

- xxxix.** Ms. C. Malsawmtluangi, "The helminth faunal spectrum of rodent hosts from bamboo growing areas in Mizoram, Northeast India". Supervisor: Prof. V. Tandon.
- xl.** Mr. Lalit Kumar Goswami, "Studies on the status and molecular discrimination of crustacea-borne zoonoses of trematode origin, with special reference to paragonimiasis in suspected foci of Northeast India," Supervisor: Prof. V. Tandon.
- xli.** Mr. Biplab Kumar Saha, "Studies on breeding biology of an endangered frog, *Rana leptoglossa* (Cope, 1868)" Supervisor: Prof. B. B. P. Gupta.
- xlii.** Ms. K. M. Mary Martha, "Studies on biochemical and structural changes in mitochondria in relation to combination treatment with dietary ascorbic acid and cisplatin in tumor-bearing mice," Supervisor: Prof. S. B. Prasad.
- xliii.** Mr. H. T. Lalremsanga, "Studies on the ecology, breeding behavior and development of ranid and microhylid anurans prevalent in Mizoram, Northeast India," Supervisor: Prof. R.N.K. Hooroo.
- xliv.** Ms. Lucy Mary Jyrwa, "Effect of osmotic, hyper-ammonia and desiccation stresses on gluconeogenesis in the air-breathing catfish, *Clarias batrachus*," Supervisor: Prof. N. Saha.
- xlv.** Mr. Aziz Ahmed, "Spectral, Electrochemical and Structural Studies of Some Copper and Molybdenum Complexes of Malonoyl-, Succinoyl-and Adipoyl-Dihydrazones". Supervisor: Prof. R. A. Lal.
- xlvi.** Mr. Donborlang Kharbhih, "Redox Tuning of some Metalloporphyrins in Micellar Medium". Supervisor: Dr. A. Lemtur.
- xlvii.** Mr. Madhusudhan Saha, "Green Synthetic Approach to Octahydroquinazolines and Study of their Biological Activities". Supervisor: Dr. R. L. Nongkhlaw, Joint Supervisor: Dr. J. N. Vishwakarma.
- xlviii.** Mr. Shaemningwar Moyon, "Solvatochromism and Photophysical Properties of Alloxazine Derivatives in Homogeneous Solvents and Supramolecular Assemblies". Supervisor: Dr. Sivaprasad Mitra.
- xlix.** Mr. Jahar Dey, "Studies on the Micellization Behaviour of Surfactants in Selected Sovent Media." Supervisor: Prof. K. Ismail.
- I.** Mr. Gunajyoti Das, "Theoretical Investigation on Codon-Anticodon Interactions and their Significance for the Genetic Code", Supervisor: Prof. R. H. Duncan Lyngdoh.
- ii.** Mr. Tavishe Phucho, "Synthesis of Substituted pyrimidine derivatives and related hterocycles," Supervisor: Dr. R. L. Nongkhlaw.
- iii.** Ms. Kh. Jogeshwari Devi, "Theoretical Studies on the Kinetics, Thermochemistry and Reactivity fo Some Selected Radicals Addition and Hydrogen Abstraction Reactions of Atmospheric Importance" Supervisor: Dr. A. K. Chandra.
- liii.** Mr. A. Munaf Kharbuli, "Quantum Chemical Studies on the Oxidation of Alkene and Carbonyl Substrates by Ozone, Peracids and Peroxides," Supervisor: Prof. R. H. Duncan Lyngdoh.
- liv.** Mr. Jibitesh Dutta, "Acceleration and Gravitational Thermodynamics in Brane Gravity based Phantom Cosmology", Supervisor: Dr. M. Ansari.
- lv.** Mr. Regenel Son Kharwanlang, Hysteresis in Ferromagnetic Random Field Ising, XY, and Heisenberg Models, Supervisor: Prof. P. Shukla.
- lvi.** Mr. Lobisor Kurbah, Hysteresis in Anti-Ferromagnetic Random Field Ising Model, Supervisor: Prof. P. Shukla.

- lvii.** Mr. Samrat Dey, A study of Microscopic Superfluidity by Quantum Dynamics of Dopants in <sup>4</sup> He Nanodroplets and Related Aspects, Supervisor. Prof. Satish Kumar, Jt. Supervisor: Prof. Y. S. Jain (retd.).
- lviii.** Mr. Anjan Saikia, “Ryot Sabha in Assam: A Study of Peasant Nationalism, 1900 – 1947”. Supervisor: Prof. M. Sharma.
- lix.** Mr. Hayder Hussain, “Immigrants in Assam (1826 – 1905): A Historical Study.” Supervisor: Prof. F. A. Qadri.
- lx.** Mr. Malsawmliana hmar, “Megalithic Monuments of Mizoram: an Ethno Archaeological Study.” Dr. C. A. Mawlong.
- lxi.** Mr. Lalrinuanga Hmar, “Migration and Social Formation of the Mizo”. Supervisor: Dr. V. R. Rengsi.
- lxii.** Tinneikim Haokip, “Electoral Politics in the Hill Areas of Manipur: A Study of the 2002 Assembly Elections”. Supervisor: Dr. P. Malngiang.
- lxiii.** Haans J. Freddy, “Human Rights Abuses in Tamil Areas of Sri Lanka.” Dr. K. Debbarma.
- lxiv.** S. Thianmuanlal Ngaihte, “Role of the Paite Elites in the Consturction of Paite and Zomi Identities in Manipur.” Supervisor: Dr. H. Srikanth.
- lxv.** Thongkhohal Haokip, “India’s Look East Policy and North-East India”. Supervisor: Dr. B. K. Mohapatra.

#### **M.Phil**

- i.** Amanda Khyriem, “From a Slave to a Man: A Critical Study of Federick Douglass and his Autobiographies.” Supervisor: Prof. T. Ao.
- ii.** Philakyntiew Nongkhlaw, “The Theme of the “Phenomenal Woman” in Maya Angelou’s Poetry. Supervisor: Prof. E. Syiem.
- iii.** Ruulhoukhono Nakhro, “Poetry of Protest: A Study of the Poems of Anna Akhmatova.” Supervisor; Dr. U. Sewa.
- iv.** Mutum Roshni Devi, “Women Characters in Chinua Achebe’s Novels: A Critical Study.” Supervisor: Dr. S. Bhattacharjee.
- v.** Lalnunsanga Ralte, “Asimov as a Social Critic: A Select Study of His Science Fiction.” Supervisor: Dr. K. S. Nongkynrih.
- vi.** Jayanta Kumar Swain, “The Use of Myth in Jayanta Mahapatra’s Poetry: A Select Study”. Supervisor: Dr. M. M. Mazumdar.
- vii.** Daiarisa Rumnong, “Transgressing Boundaries” in Gabriel Garcia Marquez’s One Hundred Years of Solitude, The Autumn of the Patriarch and Collected Stories”. Supervisor: Prof. E. Syiem.
- viii.** Malcolm M. Lyngdoh, “Contemporary Poetry from North-East India: A Select Study”. Supervisor: Dr. U. Sewa.
- ix.** Biswanath Liensang, “The Search for Identity and Freedom in the Poetry of Margaret Walker”. Supervisor: Dr. U. Sewa.
- x.** Nasazono Lothu, “Existentialism and the Poetry of Wislawa Szymborska: A Select Study”. Supervisor: Dr. K. S. Nongkynrih.
- xi.** Akil C. Kalita, “Samkalin Kavi Naresh Saxena ki Kavya Samvedana”. Supervisor: Dr. M. P. Pandey.
- xii.** Uma Devi, “Samkalin Dalit Kahanikaron ki Samvedana”. Supervisor: Dr. M. P. Pandey.

- xiii.** Ms. Ritolin Khardewsaw, “Ka Jingiakhing kaba Mih naka Lalot Spah ha ki Sawangka: Ka Shangkhawiah Ki Rang U Peace Roy Pariat, Yn Map? U L. H. Pde Bad Ka Jingialum Ki Pukni Bhur U Alvan Noel Kharkongor”. Supervisor: Prof. S. Dkhar.
- xiv.** Mr. Wanpli Kharwanlang, “ Ka Jinglong ba Markhongpong Bad ki jingiakhing hapdeng ki Tyngshop – Puron ha ka Khana Mutdur U Thomas Hardy, U Basan Ka Kastarbrij, ( Na Ka Translation): Ka Bishar Bniah”. Supervisor: Prof. A. Kharmalki.
- xv.** Mr. Pynwandurlang Shabong, “Ka Jingieit bad ka Jingthrew ka Doh: Ka jingbishar bniah halor Ka Parom U Klew bad Ka Sngi”. Supervisor: Dr. D. R. L. Nonglait.
- xvi.** Mr. Ronald Peel Kharshiing, “ Ka Shongkha Khleh kumba ka Paw ha ki Lai Tylli ki Nobel: Ka Bishar Bniah. Ka Jingkwah U Kpa (1978) – W. Tiewsoh, Ki Palong Ka Jingbiej (1989) – S. Synrem, U Mooiong (1987) – L. H. Pde”. Supervisor: Dr. D. R. L. Nonglait.
- xvii.** Ms. Baiahunlang Lyngdoh, “ Ki Tyngshop – Puron kiba bat iaka tynrai bad kito kiba kner Sha ka rukom im thymmai: Ka Bishar bniah halor ka jingiakhing Hapdeng jong ki kumba ka paw Ha ki Sawangka U Mondon Bareh, U Mihsngi bad U L. H. Pde, Yn Map?”. Supervisor: Prof. B. War.
- xviii.** Mr. Erol Myllem Umlong, “Ki Kynthei ha ka Rukom Pyrkhat U Khasi kumba ka paw ha ki Khana Parom bad ha ka Sawangka Ka Nam (2007) jong ka Esther Syiem”. Supervisor: Prof. A. Kharmalki.
- xix.** Ms. Lidadora Rieng, “Ka Mynnor Ka Mynta bad Ka Lawei Kumba ka Paw ha ki Thup Poitri U B. R. Kharlukhi: Na la Rympei Na ki Dewlang Ka Ri Kynjah”. Supervisor: Prof. M. B. Jyrwa.
- xx.** Ms. Meralinda Wanniang, “U Thlen katkum ka Jingiohi jong ki Nongthoh: Ka Bishar Bniah halor ka Parom mutdur U D. T. Laloo, Ka Lasubon I – IV, Bad ka jong U Paul Lyngdoh, “U Thlen” ha ka kot Shithiar ki Khana Lyngkot”. Supervisor: Prof. B. War.
- xxi.** Miss Mertan Sumer, “Scalar Field Models of Dark Energy”. Supervisor: Dr. M. Ansari.
- xxii.** Airpeace Well Rani, “Municipal Administration in Meghalaya with special reference to the Shillong Municipal Board”. Supervisor: Prof. L. S. Gassah.
- xxiii.** Mary Magdalyne Kurbah, “Electoral Politics in Meghalaya: A Study of the 2008 Assembly Elections in Mawlai Constituency”. Supervisor: Dr. R. K. Satpathy.
- xxiv.** E. Phieladdalin Nongsiej, “Violence against Women in Meghalaya with reference to East Khasi Hills”. Supervisor: Dr. K. Debbarma.
- xxv.** Bijaya Konwar, “Election Manifestoes of Asom Gana Parishad: An Analysis”. Supervisor: Dr. V. Bijukumar.
- xxvi.** Chalsung Sungte, “Role of Hmar National Union in Hmar Politics”. Supervisor: Dr. T. T. Haokip.
- xxvii.** Baiadalynti Christine Lanong, “Khun Hynniewtrep National Awakening Movement: A Study”. Supervisor: Dr. P. Malngiang.

### **37. Activities of the Guidance and Counseling Cell:**

Various employers such as Indian Air Force and a number of private companies were approached for placement of students.

### **38. Placement service provided to students :**

The Cell carried out the following activities during the year under report:

1. Organized a workshop on “Development of Industrial Oriented Skills” in the School of Technology, NEHU, Shillong from 11<sup>th</sup> to 14<sup>th</sup> April, 2011.
2. Tech Mahindra conducted a campus interview for the 8<sup>th</sup> Semester students of ECE & IT on 27<sup>th</sup> June, 2011 in the School of Technology NEHU, Shillong.
3. Skill enhancement lectures on “Perfect Graphs and one of Its Real Life Application Abstract” were delivered by Prof. Rajpat Kumar Pal, Dean, School of Technology, Assam University, Silchar on 10<sup>th</sup> October, 2011 in the School of Technology, where students of the School participated.
4. A Two Day Hands-On Workshop on Enhancement of life Skills for students of M.A. Education, M.Ed & Research Scholars was held on October 18-19, 2011 in the Community Hall. A total of 134 students participated in the workshop.
5. Recruitment drive by the Indian Army for 3<sup>rd</sup> Year Students of IT & ECE students was held on the 10<sup>th</sup> December, 2011 in the School of Technology.
6. Fujitsu Selection conducted a one-day recruitment drive on 24<sup>th</sup> Feb, 2012 for the students who passed out and final year students of School of Technology where a total number of 73 students appeared for the drive.
7. Infosys Bangalore conducted a recruitment drive for the 4<sup>th</sup> Semester students of Education, English & Linguistics Departments on 4<sup>th</sup> April, 2012 in Education Department, NEHU, Shillong.

**39. Development Programs for Non-teaching Staff:**

In house Training of non-teaching staff is conducted by the University.

**40. Best Practices of the Institution:**

Enhanced transparency in decision making processes.

**41. Linkage developed with National / International, Academic / Research Bodies:**

<b>Department</b>	<b>Collaborating Agencies</b>
<i>Department of Economics</i>	Ministry of Rural Development, GOI, MGNREGA District Award 2012.
<i>Centre for Science Education</i>	Plant cytogenetical and molecular biology. Nutritional analysis of edible bamboo shoots.
<i>Department of Environmental Studies</i>	INNO-Asia Brahma, Friedrich-Schiller University, Jena (FSU-Jena), Lobdergraben 32; D-07743 Jena; Germany. Indian Institute of Science, Bangalore on Climate Change adaptation in North East Region of India. EOS-NTU, Singapore; IIG, Navi Mumbai; BARC-BRNS, Mumbai, Department of Physics, NEHU
<i>Department of Geography</i>	Indo-Japan, Disaster Prevention Research Institute, Kyoto University (Japan),
<i>Department of Rural Development and</i>	NIRD, Hyderabad, Wildlife Trust of India,

<i>Agricultural Production</i>	New Delhi and ICAR Research Complex for NE Region, Barapani.
<i>Department of Bio-Chemistry</i>	DBT-funded, University of Konstanz, FRG; University of Dundee, UK; Uppsala University, Sweden; University of California, USA; Institute of Enzyme Research, Japan; Toho University, Japan; Research Centre, Juelich, FRG; Osaka University, Japan; University of Cambridge, UK; Newcastle University, UK; Medical College of Wisconsin, Milwaukee, USA; JNU, New Delhi and BHU, Varanasi.
<i>Department of Biotechnology and Bioinformatics</i>	<ol style="list-style-type: none"> <li>1. A collaborative research work in the field of microbiology on characterization of novel metal tolerant gene(s)</li> <li>2. A collaborative research work in the field of microbiology-endophytes on characterization of novel endophytes and their anti-cancer.</li> <li>3. A collaborative research work with All India Institute Medical Sciences (Neurology Dept.)</li> <li>4. A collaborative research work in the field of bioinformatics, Centre for advanced studies in Crystallography and Biophysics, Chennai.</li> <li>5. Purification and characterization of bioactive natural antioxidant, immunomodulator and anticancer products from <i>Dioscorea alata</i> L., of North Eastern region of India of Bose Institute and of Univ. of North Bengal.</li> <li>6. A collaborative research on Studies on antitumor and radioprotective potential of <i>Potentilla fulgens</i> Wall ex Hook and characterization of its active compounds with Prof. U. Banerjee of NIPER, Chandigarh.</li> </ol>
<i>Department of Botany</i>	<p><b>International:</b> Concordia University, Montreal, Canada; International Centre for Integrated Mountain Development, Kathmandu (ICIMOD); Kfw and Gtz, Humberg, Germany; National Institute of Agrobiological Sciences, Tsukuba, Japan; UNDP; University of Ljubljana, Slovenia under the Indo-EU S &amp; T Cooperation.</p> <p><b>National:</b> Andhra University, Andhra Pradesh; Assam University, Silchar; Bose Institute, Kolkata; CPRI, BSI, NBPGR, Shillong; ICAR Complex for NER, Umiam;</p>

	<p>JNU, New Delhi; Mizoram University, Aizawl; Nagaland University, Kohima; NBRI, Lucknow; NERIST, Itanagar; RFRI, Jorhat; State Council of Science and Technology, Sikkim; TERI, New Delhi; Tocklai experimental station of Tea Research Association, Tocklai; Tripura University, Tripura; University of Agricultural Science, Bangalore; University of Bangalore, Bangalore; University of Delhi, Delhi; University of Kashmir, Kashmir.</p>
<i>Department of Zoology</i>	<p>Aravind Eye Hospital, Madurai, New Delhi, NER under the DBT's NER Twinning Programme.</p> <p>Heinrich-Heine University of Dusseldorf, Dusseldorf, Germany, National Centre for Cell Science, Pune on DBT's.</p> <p>University of Hamburg, Hamburg, Germany</p> <p>Keele University;</p> <p>ICGEB, New Delhi, Manipal Life Science Centre, Manipal University, Manipal, Karnataka, ILS, Bhubaneshwar, Odisha.</p>
<i>Department of Chemistry</i>	<p>Bhabha Atomic Research Centre, Mumbai, North-East Institute of Science and Technology, Jorhat, Assam.</p> <p>Faculty of Science and Agriculture, The University of West Indies.</p> <p>Institut de Chimie, Universite de Neuchatel, Switzerland, and Dr. Yuriy Mozharivkyj, McMaster University, Ontario, Canada.</p> <p>Group of the University of Leuven, Belgium.</p> <p>Universita di Palermo, Italy; Virije Universiteit Brussel, Belgium; University of Zurich, Switzerland; Pharmachemie BV, Haarlem, The Netherlands; Universita di Camerini, Italy; The University of Texas at San Antonio, USA; University of Malaya, Malaysia; University of the District of Columbia, USA; Universiti Sains Malaysia, Malaysia.</p> <p>BARC, National Centre for Free Radical Research, Pune University.</p> <p>BITS, Pilani, BARC, Mumbai; College of Chemistry Engineering, Hunan Normal University, Changsha, Hunan 410081, China.</p>
<i>Department of Mathematics</i>	<p>Department of Mathematical Sciences, Sharif University of Technology, Tehran, Iran, and</p>

	School of Mathematics, Institute for Research in Fundamental Sciences (IPM), Tehran, Iran.
<i>Department of Physics</i>	Bergische University, Wuppertal, Germany, Department of Environmental Science NEHU, Shillong. Centre for Science Education NEHU, Shillong. BARC, Trombay, Mumbai.
<i>Department of Basic Sciences and Social Science</i>	Department of Botany, NEHU, Shillong; Sikkim University, Gantok, Sikkim, GBPIHED (Sikkim Unit) Herbal Research Lab., Ramnarain Ruia College, Mumbai; BSI, Howrah, West Bengal

**42. Any other relevant information:**

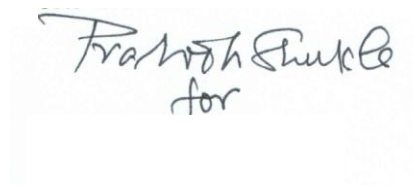
**PART-C**

**Detail plans of the Institution for the Next Year:**

Necessary amendments to statutes, ordinances and regulations shall be carried out for implementation of 6<sup>th</sup> pay commission recommendations. The University has initiated steps for implementation of semester system at the undergraduate level. Academic Council has constituted a Committee to work out the modalities. University is also gearing up for implementation of XII plan proposals. Students' feedback, scrutiny of self assessment reports etc. shall be carried forward during the year.



**Prof. S.K. Mishra**  
**Director**  
**Internal Quality Assurance Cell**



**Prof. A. N. Rai**  
**Chairperson**  
**Internal Quality Assurance Cell**