

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



**Annual Quality Assessment Report**  
**2010-2011**

## 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 Programmes initiated (UG and PG)**

none

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

Choice Based Credit System has been implemented.

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

School level Ph.D. course on Research Methodology serviced by all the four Departments of the School of Life Sciences.

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

Computerized Tabulation of scores at PG level.

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

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

Faculty is encouraged to attend Orientation and refresher Courses. Besides this University extends financial assistance for attending International/ National Conferences etc.

### **8. Total number of seminars/ workshops conducted:**

Attended – 34, Organized – 26

### **9. Research Projects:**

New – 14, Completed – 15, Ongoing – 19, Awards – 1, Project – 1

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

None

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

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 a member of the working group in Capacity Building in MGNREGA and member, Expert Committee for Formulating Research Methodology in MGNREGA and provided inputs for policy based on development theory, practice and research.

### **Department of Adult and Continuing Education**

The department collaborated with the Social Welfare Department, Govt. of Meghalaya, Women Cell, NEHU, and ASC, NEHU during the year under report. It also collaborated with agencies like Bethel Academy of Bagmara and Impulse NGO Network, Shillong.

### ***Department of Environmental Studies***

Prof. B.K.Tiwari has academic collaborations with 1. University of Liverpool, UK, for research on “GDP of the Poor in North East India”, 2. Indian Institute of Science, Bangalore and KFW, Germany for research on “Climate change vulnerability and adaptation for North-East India”.

Dr. Devesh Walia has academic collaborations with NGRI, Hyderabad, BARC, Mumbai and IIG, Navi Mumbai.

### ***Department of Rural Development and Agricultural Production***

The department continued to have collaboration with (a) NIRD-Regional Centre, Guwahati and NIRD Headquarters, Hyderabad; (b) CAPART and Institute of Applied Manpower Research, New Delhi, (c) State Institute of Rural Development (SIRD), Guwahati, and (d) ICAR Research Complex for Northeast Hill Region Barapani.

### ***Department of Biochemistry***

There are no formal foreign collaborations / partnership but research collaborations at individual level are 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; Justus-Liebig-University, Germany; JNU, New Delhi and BHU, Varanasi.

### ***Department of Biotechnology and Bioinformatics***

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.

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.

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. He also 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 of the department has been collaborating with several national and international institutes. These include:

- Bose Institute, Kolkata
- Tocklai experimental station of Tea Research Association

- ICAR, Barapani
- LEAD International, UK
- Chinese Academy of Sciences ( Shenzhen Botanical Garden)
- University of Ljubljana, Slovenia
- United Nations Development Programme, New Delhi
- ICIMOD, Kathmandu
- Kfw and GIZ, Govt. of Germany

### ***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. B.K. Sharma undertook work on Biodiversity of Zooplankton in floodplain lakes of Assam in collaboration with Zoological Survey of India, Kolkata/Shillong.

Prof. B.B.P. Gupta collaborated with Prof. Dr.R. Spessert, Department of Functional and Clinical Anatomy, University of Medicine, Mainz, Germany to work on photoperiodic regulation of clock genes in mammalian retina.

Prof. N. Saha collaborated with Prof. D. Haussinger, Director, Department of Gastroenterology, Hepatology and Infectious Disease, Heinrich – Heine University of Dusseldorf, Dusseldorf, Germany to work in the field of cell volume and protein metabolism, molecular mechanism of bile acid excretion and hepatic encephalopathy.

Dr. B. Das collaborated with (i) Dr. A. Sharma, International Centre for Genetic Engineering and Biotechnology (ICGEB), New Delhi to work on the effective modulators from medicinal plants of North East region for Phosphoenolpyruvate carboxykinase, the enzyme of glycolysis in cestode parasites and of gluconeogenesis in higher vertebrates; and (ii) Dr. Valerie A. Ferro and Dr. Alexander I. Gray, SIPBS, University of Strathclyde, Glasgow, Scotland, UK in isolating the phytochemicals and their immunomodulatory effects on cell lines.

### ***Department of Chemistry***

Prof. K. Ismail has 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 is in collaboration with Dr. A. Kumar, Faculty of Science and Agriculture, the University of West Indies.

Prof. K.M.Rao has academic collaboration with Dr. Therrien Bruno, Institut de Chimie, Universite de Neuchatel, Switzerland and Dr. Yuriy Mozharivskyj, Mc Master University, Ontario, Canada.

Prof. R.H.Duncan Lyngdoh collaborated with Prof. F.Wang of the Centre for Molecular Simulation, Swinburne University of Technology, Melbourne, Australia.

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

Dr. T.S. Basu Baul has academic collaboration with Universita di Palermo, Italy; Virije Universiteit Brussel, Belgium; University of Zurich, Switzerland; Pharmachemie BV, Haarlem, The Netherlands; Universidad 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 is collaborating 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.

#### ***Department of Mathematics***

Prof. M.B. Rege and Dr. A.M. Buhphang collaborated with Prof. Abdullah Harmanci, Hacettepe Universitesi Matematik Bolumu Beytepe, Ankara Turkiye.

Dr. A.K. Das collaborated with Prof. M.R. Pournaki Sharif, University of Technology, Tehran, Iran.

#### ***Department of Physics***

: Prof. P.N. Pandita collaborated with Helsinki Institute of Physics, University of Helsinki, Finland, Indian Institute of Science, Bangalore, and Birla Institute of Science and Technology, Pilani.

Dr. A. Saxena collaborated with Dr. D. Walia, Assoc. Prof., Department of Environmental Studies, NEHU, Shillong, Prof. K.K.Dwivedi, Vice Chancellor, APEEJAY Satya University, Gurgaon, and Prof. Robert Buenker, Bergische Universitat, Wuppertal, Germany.

Prof. B.M.Jyrwa was actively involved with IAEA Nuclear Data Section from Vienna whereby the nuclear data received from IAEA is being evaluated and compiled here.

#### ***Department of Basic Sciences and Social Sciences***

Dr. A.K Das has collaborative research with Prof. Alope Mukherjee of Jadavpur University, Kolkata, on the study of mineral physics of the soil around the uranium mining site at Domiasiat in Meghalaya.

Dr. A.K. Das and Dr. (Mrs.) Jyoti Narayan have collaborative research works with Prof. B. Kharbuli of Department of Zoology, NEHU, Shillong and Dr. S.K. Jha of BARC, Trombay on study of radionuclides and trace elements' concentrations in the environmental matrix around the uranium mining sites at Domiasiat in Meghalaya.

Dr. H. Choudhury has collaboration with 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.

Mr. S.K. Mawlong and Ms. Eva Giri have collaborative projects with (i) Prof. B. Kharbuli of Department of Zoology, NEHU, Shillong (ii) Prof. B.S. Mipun and Prof. D.K Nayak of the Department of Geography, NEHU, (iii) Dr. S.S. Chaturvedi of the Department of Environmental Studies, NEHU, (iv) Mr. A.K. Maji of the Department of Information Technology, NEHU, Shillong and (v) Dr. Mohan Chougaongar of BARC, Trombay on studies on health status and demographic pattern of population around Domiasiat area, West Khasi Hills, Meghalaya.

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

<b>Funding Agency</b>	<b>Total Funding (Rs. In Lacs)</b>
Asian Development Bank	Rs. 1,30,000
Indian Institute of Dalit Studies	Rs. 50,000

UNDP India for the Project	Rs.6,40,000
North- Eastern Council (NEC)	Rs. 1.25 lakhs
ICSSR-NERC	Rs. 75,000
Raja Ram Mohan Roy Library Foundation(RRRLF)	Rs. 1.00 lakhs
UGC under the scheme of Lifelong Learning and Extension.	Rs. 15 lakhs
MHRD	Rs. 3.30 lakhs
ICSSR	Rs. 1 lakh
NEC	Rs. 60 thousand
University of Liverpool, UK	Rs. 1,23,886
ICSSR, Shillong	Rs. 70,000
DST, New Delhi	Rs. 75,000
NEC, Shillong	Rs. 10.0 lakhs
Mott McDonald	Rs. 1.7 lakhs
UGC	Rs. 8.55 lakhs
DAE	Rs. 9.87 lakhs
UGC (SAP) DRS Programme	Rs. 3.5 lakhs
MAKAIAS	Rs. 6.25 lakhs
Mott MacDonald Private Limited	Rs. 8.41 lakhs
Organizing a Seminar on Creation Myths	Rs. 35,000
UGC-SAP (DRS-II)	Rs. 6 lakhs
DST-FIST (Infrastructure)	Rs. 20 lakhs
DST	Rs. 21 lakhs
UGC	Rs. 10 lakhs
BRNS (DAE)	Rs. 30 lakhs
DST	Rs. 20 lakhs
BRNS (DAE)	Rs. 30 lakhs
DBT	Rs. 73 lakhs
Department of Biotechnology (Project)	Rs. 205.14 lakhs
DAE-BNRS, Mumbai (Project)	Rs. 9.84 lakhs
Department of Biotechnology- Govt. of India	Rs. 19.80 lakhs
Dept. of I.Technology, Govt. of India	Rs. 60.50 lakhs
ICAR/NAIP/World Bank (Project)	Rs. 23.84 lakhs
DST- Ministry of Science & Tech. (Project)	Rs. 44.00 lakhs
DST- Ministry of Science & Tech. (FIST)	Rs. 51.00 lakhs
UGC, Govt. of India (Project)	Rs. 7.01 lakhs
DBT	Rs. 1.50 lakhs
CSIR	Rs. 1.00 lakhs
NEC	Rs. 1.50 lakhs
DST	Rs. 0.75 lakhs
CAS	Rs. 1.00 lakhs
DBT	Rs. 7.50 lakhs
DIT, New Delhi	Rs. 25.00 lakhs
DSA Programme of UGC	Rs. 7.00 lakhs
Ministry of Env. & Forests, New Delhi	Rs. 9.90 lakhs
DBT, New Delhi	Rs. 217.00 lakhs

DST, New Delhi	Rs. 38.50 lakhs
BRNS-BARC	Rs. 40.65 lakhs
UGC, New Delhi	Rs. 9.57 lakhs
DST/DRDO/DAE/BRNS/UGC	Rs. 12.7 lakhs
UGC-SAP-DSA Phase-III Programme	Rs. 4.20 lakhs
DST-FIST	Rs. 111.5 lakhs
OMCOS-2011	Rs. 3.30 lakhs
FCS Workshop	Rs. 7.76 lakhs
UGC (SAP-DRS-I)	Rs. 18.4 lakhs
UGC (BSR)	Rs. 20.0 lakhs
Organizing Committee of International Congress of Mathematics	Rs. 5.0 lakhs
Prof. P.N.Pandita received and J.C. Bose Fellowship	Rs. 13.60 lakhs
Indira Gandhi National Centre for the Arts, New Delhi	Rs. 4,00,000.00
Indian Council for Cultural Relations, New Delhi	Rs. 2,50,000.00
Maulana Abdul Kalam Azad Institute of Asian Studies	Rs. 2,35,000.00
Indian Council of Social Science Research, New Delhi	Rs. 1,50,000.00
Indian Council of Social Science Research, NER	Rs. 75,000.00
NEHU, Shillong	Rs. 50,000.00
UGC-SAP-DSA	Rs. 6,10,000
ICHR, New Delhi	Rs. 1.17 lakhs
ICSSR-NERC	Rs. 45,000
ICSSR (New Delhi)	Rs. 67,500
SAP UGC	Rs. 1,00,000
ICSSR-NERC, Shillong	Rs. 50,000
UGC-SAP-DRS III	Rs. 4,00,000
UGC-SAP-DRS III	Rs. 5,00,000
UGC-SAP-DRS III	Rs. 20,000
Recurring & Non-Recurring	Rs. 9,20,000
The Academic Staff College was sanctioned	Rs. 95.00 lakhs
DST, Govt. of India, New Delhi : Non Plan: Rs. 690,000.00 Plan: Rs. 19,20,855.00	

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

<u>Departments</u>	<u>No. of Research Scholars</u>
Department of Commerce	3
Department of Economics	4
Department of Library and Information Science	1
Department of Education	4
Department of Anthropology	5
Department of Geography	7
Department of English	3
Department of Hindi	1
Department of Khasi	1
Department of Linguistics	1

Department of Philosophy	3
Department of Biochemistry	3
Department of Botany	6
Department of Zoology	4
Department of Chemistry	9
Department of Mathematics	1
Department of Statistics	1
Department of History	2
Department of Political Science	4
<hr/> Total	<hr/> 63

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

Research Publications of Faculty have received substantial citations in national and international journals. Papers were published in journals with impact factors ranging between 1 to 4.

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

##### *Department of Economics*

Dr. S. Umdor was appointed as a Member of Social Audit Bill Drafting Committee, Government of Meghalaya.

##### *Department of Anthropology*

Prof. T.B.Subba was renominated as Member, Editorial Advisory Board, *Contributions to Indian Sociology*, Institute of Economic Growth, Delhi University, Delhi, for three years from 2010.

##### *Department of Environmental Studies*

Professor B.K.Tiwari was elected as Sectional President of Environmental Science, 99<sup>th</sup> Session of Indian Science Congress Association 2011-2012. He continued to be Chairman, State level Expert Appraisal Committee appointed by Government of India, under EPA Act of 1986. Member of Meghalaya Catchment Area Development Board, Meghalaya, Member of Joint Action Committee on Uranium Mining in Meghalaya, Member of State Level Committee for Preparation State Action Plan for Climate Change Meghalaya

Prof. O.P. Singh has been nominated as a member of the Environmental Advisory Group (EAG) of North Eastern Electric Power Corporation (NEEPCO), Shillong for the period 2010-2012.

Dr. Devesh Walia has been elected as Life Fellow, Indian Geophysical Union, NGRI, Hyderabad.

##### *Department of English(Shillong)*

Dr. Mala Renganathan was awarded the OUCIP (Osmania University Centre for International Programmes) Post-Doctoral Fellowship for 2010-11, Dr. Kynpham Sing Nongkynrih's drama, *Ki Miet ka Jingtriem* (Nights of Terror), is being serialised by DDK, Shillong.



### ***Department of Hindi***

Dr. B.P.Tripathi was awarded PhD by the Department of Hindi, JNU, New Delhi on the topic “Samkaleen Hindi Kavita main Abhivyakt Samaj aur Sanskriti” January 2011.

### ***Department of Khasi***

Prof. Streamlet Dkhar was nominated as a member of the UGC National Consultative Committee for Women Managers in Higher Education.

### ***Department of Biochemistry***

Prof. R. Sharma was elected as President of the Association of Gerontology (India). He is also a member of the editorial board of *Biogerontology* from Springer, The Netherlands and *International Journal of Developmental Neurosciences*, Elsevier, USA.

Prof. R.N.Sharan has been appointed as Associate Editor (Receiving Editor for Asia and Asia-Pacific region) of an open access online and print version journal, *Journal of Carcinogenesis* [ BioMed Central, USA]; 2011-2013.

Prof. A. Alam has been appointed as a member of UGC expert committee for evaluation of SAP/ DRS programme in December 2010.

Dr. D. Syiem is the reviewer of *Science Alert*, *African Journal of Pharmacy and Pharmacology*, *Journal of Agricultural and Biotechnology*, & *Sustainable Development and Journal of Medicinal Plants Research*.

Dr. M.B.Syiem has been appointed as a Member of Advisory Committee for Women & Childhealth Nutrition Programme under National Council for Science & Technology Communications (NCSTC), Department of Science & Technology, Ministry of Science & Technology, GOI, New Delhi, September 2010.

Dr. T. Tripathi received Ph. D. Degree from Jawaharlal Nehru University, New Delhi in June 2010. He was a reviewer of the peer-reviewed international journals, *Analytical Biochemistry*, *International Journal of Biomedical Science* and a member of the editorial board of *Advances in Applied Research*.

### ***Department of Botany***

Prof. Pramod Tandon was appointed as the member of the National Advisory Council in June 2010.

Prof. N.K.Chrungoo was nominated as the Asia Pacific representative to the editorial Board of the Journal *Fagopyrum*. He was also appointed as a member of the institutional biosafety committee of ICAR complex for NER.

Prof. S.K.Barik was awarded the Brandis Prize, 2009, for +Best Research Paper in Silviculture from *The Indian Forester*.

The Bioinformatics Centre was upgraded from Sub-DIC to DIC by Department of Biotechnology, Ministry of Science and Technology, Government of India based on its excellent performance and Prof. Pramod Tandon was appointed its Coordinator.

Prof. S.K.Barik was appointed as a member of the Expert Committee of DBT's Species Recovery Programme. He was also appointed as a member of the Technical Advisory Expert Committee on Biodiversity of MoEF and the SEAC under EPA Act, 1986 appointed by MoEF.

#### ***Department of Zoology***

Prof. V.Tandon received (i) the 2<sup>nd</sup> Professor Archana Sharma Memorial Lecture Award, 2010 from the National Academy of Sciences India (NASI), Allahabad.

Prof. S.B.Prasad was elected as a member of the National Executive Committee of Indian Association for Cancer Research (ICAR), 2010-2011.

#### ***Department of Physics***

Prof. P.N. Pandita was invited as a Distinguished Visitor by the Scottish Universities Physics Alliance to University of Glasgow, United Kingdom. He delivered three lectures at the graduate school during this visit in January – February, 2011. He was appointed as an Honorary Senior Research Fellow by the University of Glasgow, United Kingdom during the year 2010 – 2011.

#### ***Department of History***

Dr. Cecile Mawlong has been appointed State Project Coordinator (Meghalaya) for National Mission for Monuments and Antiquities (NMMA), archaeological Survey of India, New Delhi.

#### ***Department of Political Science***

Dr. H. Srikanth completed second spell of Associateship at the Indian Institute of Advanced Studies, Shimla in July 2010.

#### ***Department of Sociology***

Dr. A.K. Nongkynrih was International Board Member of the Indigenous Peoples Assistance Facility of the International Fund for Agricultural Development, Rome (2010 – 2013). Was a member of State Advisory Group on Community Action of National Rural Health Mission, Department of Health and Family Welfare, Government of Meghalaya, 2011, Social Audit Bill Drafting Committee, Government of Meghalaya, Shillong, (2010 – 2011), State Level Monitoring Committee on Twenty Point Programme, Government of Meghalaya, Programme Implementation and Evaluation Department, and a Non- Official Member of the Advisory Committee on Codification of Customary Laws, Khasi Hills Autonomous District Council, Shillong.

#### ***Department of Basic Sciences and Social Sciences***

Shri P. Khongji was awarded the degree of Doctor of Philosophy by NEHU for his work entitled “Studies on Some Preliminary Test Estimators in Double Sampling” under the supervision of Prof. (Mrs.) G. Das, Department of Statistics, NEHU, Shillong.

#### ***Department of Electronics and Communication Engineering***

Prof. S. Choudhury was appointed as NAAC member and Dr. L. J. Singh was elected as a Sectional President of the Section ‘Information and Communication Science and Technology (including Computer Sciences)’ for the 99<sup>th</sup> Session of Indian Science Congress.

**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:****According to the SC/ST Cell:****(A) Teaching Staff**

Sl.No	Name of the Post	Total Post		In Position out of Total						
		Sanctioned	Filled	Gen.	OBC	SC	ST	PWD	Total	Vacant
1.	Lecturer	186	145	125	3	4	13	Nil	145	41.
2.	Reader	133	96	90	-	1	5	-	96	37.
3.	Professor	87	60	58	-	1	1	-	60	27.

**(B) Non- Teaching Staff**

Sl.No	Name of the Post	Total Post		In Position out of Total						
		Sanctioned	Filled	Gen.	OBC	SC	ST	PWD	Total	Vacant
1.	Group-A	68	59	59	-	--	-	--	59	9
2.	Group-B	183	150	57	-	1	92	-	150	33
3.	Group-C	456	359	109	-	2	248	-	359	97
4.	Group-D	318	241	79	-	-	162	-	241	77

**20. Teaching – Non – Teaching Staff Ratio:** Academic : Non-academic = 1:1.82 app**21. Improvements of Infrastructure in Library:**

**Digital Library:** NEHU Digital Library was established under the UGC funded project 'University with Potential for Excellence' and under the leadership of Prof. A.S. Chandel. Its main objective is to provide global access to the intellectual contributions of NEHU faculty members. In view of this, it developed institutional repository in its first phase by converting scholarly contributions of NEHU faculty members into digital format with full text providing all possible access points for searching. Digitization of NEHU administrative documents, PhD and MPhil theses, collection on North East, rare collection and other material of academic interest are in progress. E-resources including all issues of *The NEHU Journals* are available in the Digital Library at: <http://Dspace.nehu.ac.in>

## 22. New Books/Journals subscribed and their cost:

### Library Budget (Shillong)

(Rs. In Lakhs)

1.	Books	Non - Plan	-	21.50
		Plan	21.50	
2.	Periodical	Sciences	53.49	64.75
		Non - Sciences	11.26	
3.	Other Charges			2.82
4.	Grant under XI Plan for 9 new departments	Plan		61.50
5.	Grant in Aid for School of Technology	Plan		125.00
<b>Grand Total</b>				<b>275.57</b>

Library Collections	2,62,253 Vols
Data Bank (Government Publications & Reports)	14075 Vols
Books added during the Year	4125 Vols

### Periodical Subscription

Foreign Journal	144
Indian Journal	158
Total	302

**Subscription to e-journals, e-books and databases:** - Through annual funds allocated to respective departments along with support from grant-in aid for the School of Technology, the library subscribed to the following e-resources and database which could be accessed by users from all academic departments of the university.

- (a) Biological Abstracts
- (b) Indian Statistical database (IndiaStat.com)
- (c) IEL Online (241 titles, 5 users) through INDEST-AICTE Consortium.
- (d) ACM Digital Library through INDEST-AICTE Consortium
- (e) Elsevier Engineering Backfiles (174 titles)
- (f) Elsevier Engineering & Computer Science e-journals Current (273 titles)
- (g) Springer's Lecture Notes in Computer Science (LNCS) e-Book Series

For the convenience of the users hyperlinks leading to the above respective home pages are being provided on the Library's website (<http://www.nehu.ac.in/library>).

### Revenue collected during the year

- Reprography services	: Rs. 1,13,673.00
- Consultation fees	: Rs. 3690.00
- Overdue fines (including Law Library)	: Rs. 22,746.00
<b>Total</b>	<b>: Rs. 1,40,109.00</b>

**Achievements:** Dr. Lalhmachhuana, Documentation Officer, was awarded the “Silver Jubilee Medallion for Excellence” by the Department of Library & Information Science, NEHU, Shillong on 21<sup>st</sup> October 2010 for securing the highest marks in MLISc. during the last 25 years

**Library (Tura)**

No. of Journals Subscribed	67
Indian Journals	47
Foreign Journals	20
Books Added during the year	368
Purchased	359
Gifted	09
Library Membership Statistics: 356 in all	
Library Circulation Statistics:	
Books Issued	18645
Books Returned	17510
Consulted	63327
Statistics of Reprographic Unit of Campus Library:	
Total No. of Xerox Exposures	48,970
Statistics of Technical and Library Autonomous Units:	
Books Classified	359
Data Base	1026 Vols
Bar-coded	1026 Vols

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

All courses conducted by the University at its two campuses. Analysis is done by the office of the Controller of Examinations.

**24. Unit cost of education:**

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

Installation of University Management System has been initiated.

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

*Computer & Communication facility:-*

Leased Line Internet Connectivity (4 Mbps plus 2 Mbps through DeLCON w.e.f. December 2010). Implementation of LAN on a Structured CAT 5 UTP Cabling Network using Switches and Hubs.

**27. Technology up gradation:**

University has started the process of installing University Management System. Once installed, it shall be used for all routine administrative matters.

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

University has Data and Voice Network which is managed by well qualified engineers. Internet access through this system is provided to all Faculty and students through OFC connectivity.

**29. Financial aid to students:**

Scholarships/Aid Fund – During 2010-11, 50 NEHU Postgraduate Scholarships were awarded @ Rs. 3000/- per student.

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

Alumni Association has been activated and is being strengthened.

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

Such a system does not exist.

**32. Health services:**

University provides Health services to all its employees and students through an on campus Health Centre which is manned by four qualified Doctors. A biochemistry lab at the Centre provides routine blood and urine test facilities.

**33. Performances in sports activities:**

**Sports Activities:-** The Romengo Murry Memorial Inter – Hostel Tournament was conducted during the year 2010-2011

**The DSW office supported the conduct of the following additional students' activities:** - The elections to the executive committee of the Students' Union were held on 10<sup>th</sup> December 2010. The DSW office supported the annual events of NEHUSU to showcase talents of students of the University. During 2010-11 the Varsity Week was held from 19<sup>th</sup> March to 23<sup>rd</sup> April 2010 and the same concluded with a week of celebrations from 19<sup>th</sup> April 2010.

**34. Incentives to outstanding sportspersons:**

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

**35. Students Achievements and Awards:**

1. Grant to Outstanding Students - 31 postgraduate toppers from all departments including Tura Campus were awarded cash amount of Rs. 4,500/- per student.

2. Fellowships to MPhil/PhD Students – During 2010-11, 238 Research Scholars were selected for the award of the UGC Non- NET fellowship. Each PhD scholar was awarded Rs. 5000/- per month while Rs. 3000/- per month was awarded to MPhil scholars.

**36. Activities of the Guidance and Counseling Cell:**

**Brief Statement of Activities of Counseling & Placement Cell:-** The Cell carried out the following activities during the year under report:

1. Campus Placement Camp was conducted by Reliance Industries Ltd for the students of Economics, Commerce, Statistics, Mathematics, Physics and Chemistry on 1<sup>st</sup> and 4<sup>th</sup> June 2010 in Science Lecture Hall, NEHU, Shillong. A total of 32 students took the written test out of which 20 students were shortlisted for the interview.

2. Bohniman System Ltd., a company based in Guwahati, conducted a campus interview for the students of School of Technology, NEHU, Shillong on 24<sup>th</sup> July 2010. A total of 47 students appeared for the interview.
3. A seminar for all the students of NEHU was organized by AIESEC (Association International des Etudiants en Sciences Economiques et Commerciales) on 12<sup>th</sup> November, 2010 in the School of Technology, NEHU, Shillong. The AIESEC is a youth run independent education foundation that has its associations with various organizations in a number of countries. A total of 23 students attended the seminar.
4. Accenture, Guwahati held a pool campus for the students of School of Technology in Guwahati on 19<sup>th</sup> and 20<sup>th</sup> of December 2010. A total of 66 students appeared out of which 6 students were selected as Asstt. Software Engineers.
5. Zaloni, an IT firm from Guwahati, conducted a campus interview for the final year students of School of Technology on 20<sup>th</sup> and 21<sup>st</sup> of April 2011 in NEHU campus. A total of 75 students appeared for the interview out of which 2 students got selected for the training.
6. Aspiring Minds, a vendor company that conducts the selection tests for HCL, Erickson and other companies, conducted AMCAT (Aspiring Minds Computer Adaptive Test) for the students of School of Technology on the 2<sup>nd</sup> of March, 2011 charging a nominal fee of Rs 400/- per student.
7. A three-day workshop on “Development of Industry Oriented Skills” was organized on 11, 12 and 14<sup>th</sup> of April 2011. During this workshop eminent speakers from NetTech, Infosys, ISI Kolkata enriched our students with knowledge about industry oriented skills.

**37. Placement service provided to students by Counseling & Placement Cell:** The Counseling & Placement Cell was established on 1<sup>st</sup> April 2008. The Cell endeavors to provide the very best opportunities to NEHU graduates in terms of counseling & guidance, campus placements, etc. From time to time the cell publicizes matters relating to students’ career / job opportunity if any such information from any quarter is forwarded to the Cell.

**38. Development Programmes for Non-teaching Staff:**

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

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

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

Department	Collaborating Agencies
Economics	GOI in the capacity of a member, in Capacity Building in MGNREGA, Expert Committee for Formulating Research Methodology in MGNREGA
Adult and Continuing Education	Social Welfare Department, Govt. of Meghalaya, Women Cell, NEHU, and ASC, NEHU, It also collaborated with agencies like Bethel Academy of Bagmara and Impulse NGO Network, Shillong.

Environmental Studies	University of Liverpool, UK, for research on “GDP of the Poor in North East India”,.Indian Institute of Science, Bangalore and KFW, Germany, Academic collaborations with NGRI, Hyderabad, BARC, Mumbai and IIG, Navi Mumbai.
Rural Development and Agricultural Production	NIRD-Regional Centre, Guwahati and NIRD Headquarters, Hyderabad; CAPART and Institute of Applied Manpower Research, New Delhi, State Institute of Rural Development (SIRD), Guwahati, and ICAR Research Complex for Northeast Hill Region Barapani.
Biochemistry	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; Justus-Liebig-University, Germany; JNU, New Delhi and BHU, Varanasi.
Biotechnology and Bioinformatics	BRNS-BARC, work in the field of microbiology-endophytes on characterization of novel endophytes and their anti-cancer, research on Purification and characterization of bioactive natural antioxidant, immunomodulator and anticancer products from <i>Dioscorea alata</i> L., of North Eastern region of India ,and radioprotective potential of <i>Potentilla fulgens</i> Wall ex Hook.
Botany	Bose Institute, Kolkata Tocklai experimental station of Tea Research Association ICAR, Barapani LEAD International, UK Chinese Academy of Sciences ( Shenzhen Botanical Garden) University of Ljubljana, Slovenia United Nations Development Programme, New Delhi ICIMOD, Kathmandu Kfw and GIZ, Govt. of Germany
Zoology	Work on Biodiversity of Zooplankton in floodplain lakes of Assam in collaboration



	<p>with Zoological Survey of India, Kolkata/Shillong.</p> <p>Department of Functional and Clinical Anatomy, University of Medicine, Mainz, Director, Department of Gastroenterology, Hepatology and Infectious Disease, Heinrich – Heine University of Dusseldorf, Dusseldorf, Germany , SIPBS, University of Strathclyde, Glasgow, Scotland, UK in isolating the phytochemicals and their immunomodulatory effects on cell lines.</p>
Chemistry	<p>Bhabha Atomic Research Centre, Mumbai North- East Institute of Science and Technology, Jorhat ,Assam.Faculty of Science and Agriculture, the University of West Indies.Institut de Chimie, Universite de Neuchatel, Switzerland and Dr. Yuriy Mozharivskyj, Mc Master University, Ontario, Canada.Centre for Molecular Simulation, Swinburne University of Technology, Melbourne, Australia.Quantum Chemistry Group of the University of Leuven, Belgium.Universita di Palermo, Italy; Virije Universiteit Brussel, Belgium; University of Zurich, Switzerland; Pharmachemie BV, Haarlem, The Netherlands; Universidad 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.BARC, and the National Centre for Free Radical Research, Pune University.BITS, Pilani and BARC, Mumbai.</p>
Mathematics	<p>Hacettepe Universitesi Matematik Bolumu Beytepe, Ankara Turkiye.University of Technology, Tehran, Iran.</p>
Physics	<p>Helsinki Institute of Physics, University of Helsinki, Finland, Indian Institute of Science, Bangalore, and Birla Institute of Science and Technology, Pilani.</p> <p>Department of Environmental Studies, NEHU, Shillong, Vice Chancellor, APEEJAY Satya University, Gurgaon, Bergische Universitat, Wuppertal, Germany. IAEA Nuclear Data Section from Vienna and IAEA is being evaluated and compiled here.</p>

Basic Sciences and Social Sciences	Jadavpur University, Kolkata, on the study of mineral physics of the soil around the uranium mining site at Domiasiat in Meghalaya. Department of Zoology, NEHU, Shillong, BARC, Trombay on study of radionuclides and trace elements' concentrations in the environmental matrix around the uranium mining sites at Domiasiat in Meghalaya. Department of Botany, NEHU, Shillong on micropropagation of <i>Nardostachys grandiflora</i> and <i>Malaxis wallichii</i> , two threatened medicinal plants of Northeast India. Department of Zoology, NEHU, Shillong Department of Geography, NEHU, Department of Environmental Studies, NEHU, Department of Information Technology, NEHU, Shillong and BARC, Trombay on studies on health status and demographic pattern of population around Domiasiat area, West Khasi Hills, Meghalaya.
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**41. Any other relevant information:**

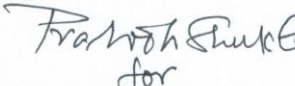
**PART-C**

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

University is engaged in preparing its XII plan proposals for timely submission to UGC. Consultations at various levels for preparation of the plan document shall be done. 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**