

ANNUAL QUALITY ASSURANCE REPORT
NORTH-EASTERN HILL UNIVERSITY
SHILLONG – 793022

2008-2009

NAME OF THE INSTITUTION: NORTH-EASTERN HILL UNIVERSITY

YEAR OF REPORT: 2008-2009

PART – A(2007-08)

The plan of action was chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year:

The IQAC has been entrusted for preparation of the Self-Study Report 2008 to be submitted to the NAAC and it has been successful in doing it by the end of the year.

PART – B (2007-08)

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)(2007-08)

B.Sc. (Honours) Microbiology, B.Sc (Environmental Science), M.Sc. (Environmental Science) and M.Sc. (Biotechnology) courses are introduced in the last few years.

3. Innovations in curricular design and transaction: (2007-08)

The University follows the model curricula of national bodies such as UGC, and AICTE as well as other Centres of advanced learning in the country and abroad. The curricula of all the courses are revised on the basis of recent trends in the respective disciplines. Revision of Syllabus is made on the basis of UGC NET syllabus and other guidelines of the UGC. As far as possible, latest development in the subject from job point of view is also taken care of while framing the syllabus. The feedback on curriculum is obtained by the academic bodies of the university. The most notable measure is the introduction of Choice Based Credit System in the University which has several quality sustenance and quality enhancement measures.

4. Inter-disciplinary programmes started: (2007-08)

Management is inter-disciplinary offering 32 courses

5. Examination reforms implemented: (2007-08)

Choice Based Credit System has been introduced.

6. **Candidates qualified: NET/ SLET/ GATE etc.: (2007-08)**

	2007	2008
NET	140	101

7. **Initiative towards faculty development programme: (2007-08)**

The university encourages the teachers to avail faculty development programmes by liberally providing study leave, sabbatical leave as well as by deputing to national/ international conferences/ seminars and by organizing national/ international conferences etc. During the last 5 years as many as 83 teachers have participated in Refresher courses whereas 38 of them have attended Orientation course. Almost all the senior faculty members have served as Resource Persons in Workshops/ Seminars/ Conferences during the last five years. The University has an Academic Staff College which organizes Summer Schools, refresher and orientation courses for college and university teachers.

8. **Total number of seminars/ workshops conducted: 48(2007-08)**

9. **Research projects: (2007-08)**

a) **Newly implemented: 36, b) Completed: 13**

10. **Patents generated, if any: (2007-08)**

Dr. Basu Bual: Indian Patent No. 199990 dated 17th Nov, 2006. *Title: A Process of preparing Diethyl Dichloro(n-2-Pyridyl Methylene-4 Toluedine) Tin IV*

Prof. R.N Sharan: Indian Patent No. IPR/4.18.2/08044

11. **New collaborative research programmes:**

Economics(2007-08)

Academic/ Professional Collaboration : Dr. S. Umdor and Dr. B. Panda prepared a background paper entitled 'Participation of People in Development (2007)' prepared in connection with the State Human Development Report of Meghalaya. The report is being prepared by the Govt. of Meghalaya in collaboration with Planning Commission and UNDP.

Centre for Adult and Continuing Education(2007-08)

Academic/Professional Collaboration:

CACE established a network and collaboration with the regional, state and local bodies at the regional level, CACE has collaborated with the North East Council of Social Science Research, at the state level with State Institute of Rural Development (SIRD), and affiliated colleges in organizing awareness programmes, seminars on career guidance/counseling etc. At the district level it has its network with the District Institute of Educational Training (DIET). At the local level the Centre and its staff have established contacts with Frank Finn Institute, NGOs and other development agencies to share their expertise and other resources.

Geography

Academic/Professional Collaboration:

Collaborative Research with NESAC under MoU for Preparation of Maps/digital data under NRC-LULC-50K

Rural Development and Agricultural Production

Academic/Professional Collaboration:

The department has undertaken professional collaboration with NIRD, Regional centre, Guwahati and NIRD, Hyderabad and CAPART& IAMR, New Delhi, ICAR Research Complex for NEH Region, Barapani for practical exposure and also for getting better seed varieties for RDAP farm. The department has also developed networking with the local level NGOs where the third and fourth semester students are acting as resource persons and interacting directly with the villagers

Centre for Environmental Studies(2007-08)

Academic/Professional Collaborations:

Prof. L. K. Jha was accepted to work as member of the Editorial Board and Reviewer of Two Journals entitled (i) Journal of Environmental Science and Technology and (ii) Journal of Environmental Sciences published by Academic Journals, New York, USA.

Professor Tiwari has a collaborative research programme with the Center for International Forestry Research, Bogor, Indonesia on the topic of Forest Product Marketing, Livelihoods and Linkages with Poverty.

Dr. D. Walia collaborated with BARC, IIG, Navi Mumbai, and NGRI, Hyderabad

Botany

Academic collaboration:

The Department has been collaborating with the following organizations:

Prof S. K. Barik (i) continued Academic collaboration with ICIMOD, Kathmandu through workshops and exchange visits and (ii) worked as Community Forestry and NRM Expert in Indo-German NRM project in Tripura in collaboration with GOPA and kfw, Germany.

Prof A. K. Misra is collaborating with Tea Research Association Tocklai and the energy Research Institute (TERI), Dehradun.

Prof Uma Shankar is collaborating in a DBT funded project on Mapping biodiversity in northeastern region of India with NERIST, Itanagar, Assam University, Silchar, RFRI, Jorhat, IBSD, Imphal, Nagaland University, Tripura University and Mizoram University, Aizawl.

Zoology

Academic/Professional Collaboration:

Prof.V.Tandon is collaborating with Dr. S. Ramachandran, Scientist F, Institute of Genomics and Integrative Biology, Delhi in a DIT-funded research project

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. R.Spessert, Mainz University, Mainz on clock genes in mammalian retina.

Prof. N. Saha is collaborating with Prof.D.Häussinger, Director, Department of Gastroenterology, Hepatology and Infectious Disease, Heinrich-Heine University of Düsseldorf, Düsseldorf, Germany in the field of cell volume and protein metabolism, molecular mechanism of bile acid excretion and hepatic encephalopathy.

Biotechnology and Bioinformatics

Academic/Professional Collaboration:

A collaborative research work in the field of Molecular Genetics (DNA repair) has been carried out under the Educational & Scientific Exchanges between Prof. A. Chatterjee, and Prof. F. Palitti, University of Tuscia, Italy.

A collaborative research work in the field of Molecular Genetics (role of glutathione on cellular radiosensitivity) has been going on between Prof A Chatterjee and Dr. S Chandna of Institute of Medicine and Allied Sciences, Ministry of Defence, New Delhi.

A collaborative research program on biosystematics of vegetable crop species has been initiated with National Bureau of Plant Genetic Resources, New Delhi and Shivaji University, Kollhapur with funding from ICAR/NAIP/World Bank.

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.

Chemistry

Academic/Professional Collaboration:

Prof. K. M. Rao has academic collaboration with Dr. Therrien Bruno, Institut de Chimie, Université de Neuchâtel, Switzerland. Prof. R.H. Duncan Lyngdoh is in collaboration with

Prof. H.F. Schaefer, Director, Centre for Computational Chemistry, University of Georgia, USA. Dr. A.K. Chandra has research collaboration with the Quantum Chemistry Group of the University of Leuven, Belgium. Dr. S. Mitra has research collaboration with Prof. N. Tamai (Kwansei Gakuin University, Japan), Prof. S. Mukherjee, (IACS, Kolkata), Dr. S. Kar (ChemGen Pharma International, Kolkata), Prof. S. Maiti (TIFR, Mumbai) and Dr. H. Pal (BARC, Mumbai). Dr. M. K. Sahoo is collaborating with Dr. D. B. Naik , BARC, and with Prof. B. S. M. Rao, National Centre for Free Radical Research, Pune University. Prof. R.A. Lal has academic collaboration with Dr. Arvind Kumar, Academia Sinica, Institute of Chemistry, Taiwan. Dr. Biplab Sarkar has academic collaboration with Prof. S. Adhikari, IACS, Kolkata. Prof. K. Ismail has research collaboration with Dr. P.A. Hassan and Dr. V. K. Aswal of BARC, Mumbai.

Physics

Academic/Professional Collaboration:

Prof. P. N. Pandita has collaboration with (i) Helsinki Institute of Physics, University of Helsinki, Finland, (ii) Institute of Mathematical Sciences, Chennai, India and (iii) Bergen University of Science and Technology, Norway. Prof. P. Shukla has initiated research collaboration on the modelling of magnetic materials with Prof. P.M. Duxbury and his research group at the Department of Physics and Astronomy, Michigan State University, USA. Prof. P. Shukla is also engaged in research collaboration with Prof. T.J. Sluckin of the School of Mathematics, University of Southampton, U.K., on random field methods in physics and biology (supported by a grant from the Royal Society of London). Prof. S. Kumar has research collaboration with Dr. P.K. Patra of Centre for Science Education, NEHU, Shillong and Dr. L.J. Singh of Dept. of Electronics and Communication Engineering, NEHU, Shillong on the mechanical properties of multiwalled carbon nanotubes. Prof. P. Nongkynrih has collaborative research with Dr. V.D. Puranik, and other Scientists of EAD, BARC, Trombay related to radiological impact assessment at Uranium Mining sites in Meghalaya. Dr. M.C. Mahato has collaborative research with Prof. A.M. Jayannavar, Institute of Physics, Bhubaneswar as the Principal Collaborator in the research project "Study of particle motion in noisy environment". Dr. A. Saxena has collaborative research with (i) B.K. Sahoo, and Dr. Y.S. Mayya, EAD, BARC, (ii) Dr. D. Walia, CES, NEHU, and (iii) Dr. P.K. Wattal, and Dr. A. Acharya, BETDD, BARC, Mumbai.

Basic Science and Social Sciences

Academic/Professional Collaboration:

Dr. (Mrs.) Jyoti Narayan visited Nanomaterial and Nanocomposites Laboratory in School of Physical Sciences, JNU from 14.01.2009 to 13.02.2009 as a visiting Faculty Fellow under DST - FIST (NER) and she worked in collaboration with Prof. H. B. Bohidar on a short term research project entitled “Biocompatible preparation and characterization of silver nanoparticles.

Dr. A.K. Das and Dr. 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.

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

Dr. K. Upadhaya has collaborative studies with Prof. S.K. Barik of Department of Botany, NEHU, Shillong on Ecological studies on Mawhu, Dibin, Kameng and Tawang river catchments in Meghalaya and Arunachal Pradesh.

Sophisticated Analytical Instrument Facility(2007-08)

Academic/Professional Collaborations:

Dr. S. Dey has research collaboration with Central Muga & Eri Research & Training Center, Jorhat, Assam, and Northeast Institute of Science & Technology (CSIR), Jorhat.

12. Research grants received from various agencies:

Funding Agency	Total Funding (Rs. In Lacs)
Ministry of Tribal Affairs Govt.of India: Project	2,50,000
ICSSR	1,66,250
ICSR, NERC	50,000
MHRD,	1.65
CAS grant	64.88
MoEF	01.00
NEC	1,00,000
Indian Council of Agricultural Research/NAIP/ World Bank	34.58

Funding Agency	Total Funding (Rs. In Laacs)
DEC, IGNOU, New Delhi	8.75
WAPCOS	18.07
NMPB	9.70
CSIR, New Delhi	07.05
CSIR	6,94,667
INSA	2.00
Sahitya Academi	68,000.00
ICPR	2,80,000
National Environment Research Council, United Kingdom	16.00
FIST Programme, DST, New Delhi	37
DIT, New Delhi	135.00
Ministry of Environment & Forests, New Delhi	22.50
ASI	40,000
UGC	6.3
UGC, New Delhi	11.61
UGC (SAP) Special Infrastructure Grant	20
Special assistance for infrastructure from UGC	60.00
Under the DSA Programme of UGC	6.54
UGC (SAP) DRS Programme	3.5
UGC - SAP	18.49
DST	20
DST	3.80
DST	2,00,000
DST, New Delhi	37.10
DST-FIST	22.20
DST, New Delhi: Non Plan	2,32,50,000.00
DST, New Delhi : Plan	15,00,000.00
DST, New Delhi: Project	28,87,000.00
Department of Atomic Energy- BRNS, Mumbai	25.13
Department of Atomic Energy, New. Delhi	27.57
DAE/BRNS, Mumbai	27.00
DAE -NBHM	Rs. 8.00
DAE/BRNS	5,78,900
SAP-DRS programme, UGC, New Delhi	3.77
DBT, New Delhi	20.00
Dept of Biotechnology	5.60
Dept of Biotechnology/ UGC-Govt. of India	20.60
MSc Support Programme, Department of Information technology, Govt. of India	138.20
DBT 1	196.29
Department of Biotechnology, Govt.of India	17.07
University Grant Commission, New Delhi	5.17

Funding Agency	Total Funding (Rs. In Laacs)
UGC-SAP-DSA Phase-III Programme	04.20
National Institute of Rural Development, Hyderabad	7.35
CDAC	50000
Department of Information Technology, Ministry of Communications and Information Technology, Govt. of India	82.21
DRDO	19.72
The Academic Staff College was sanctioned Rs.50.00 Lakhs for the year 2008-09 from the University Grants Commission, New Delhi, for conducting Refresher Course and Orientation Programmes in approved subjects and for meeting other expenditures	

13. Details of research scholars(Ph.D):

Commerce:	0
Economics:	6
Library and Information Science:	1
Management:	3
Education:	6
Education (Tura):	6
English:	9
Garo:	0
Hindi:	3
Khasi:	6
Linguistics:	5
Philosophy:	7
Adult and Continuing Education:	4
Anthropology:	14
Geography:	23
Rural Development and Agricultural Production:	4
Environmental Studies:	3
Bio-Chemistry:	5
Botany:	18
Zoology:	0
Chemistry:	20
Mathematics:	4
Physics:	0
History:	12
Political Science:	20
Sociology:	0
Cultural and Creative Studies:	4
TOTAL	183

14. **Citation index of faculty members and impact factor:**

Sl. No.	Department	Citation Index	Impact Factor
1.	Sociology	Nil	Nil
2.	Zoology	3	21.88
3.	English	Nil	Nil
4.	Economics	Nil	Nil

15. **Honors/ Awards to the faculty:**

Commerce

Honours/Awards/Recognition: Dr. V.K. Shrotryia – Member of International Strategic Alliance Management Team (ISAMT) of Indian Commerce Association.

Management

Honours/Awards/Recognition: Dr. K. Mishra was awarded travel grant to visit Manila, Philippines and attend 17th AMIC International Conference by Asian Media, Information and Communication Society July 14-17, 2008.

Garó(2007-08)

Honours/Awards/Recognition: Ms. Mirabella G. Sangma a student of 4th Semester 2008 was awarded Grant of Outstanding student on 25.3.08 approved by the Vice-Chancellor, NEHU, Permanent Campus, Shillong.

Dr. F.K. Marak has been awarded the Degree of Doctor of Philosophy (Ph.D) on the 16th April 2008.

Philosophy

Honours/Awards/Recognition: Dr. Basil Pohlong was awarded ICSSR- NRCT fellowship for conducting research on ‘A Comparative Study in Khasi MonKhmer Relationship’ for a period of one month (w.e.f.10.8.09 to 11.9.2008).

The Book entitled Ethnic Life-World in Northsat India by Prasenjit Biswas and Chandan Suklabaidya published by SAGE, Thousand Oaks, California and New Delhi, 2008, received favourable reviews in the following: (1) Reviewed by Udayon Misra in The Book Review, Vol. XXXII, Number 12, December 2008, pp. 22-3.(2) Reviewed by Namrata Goswami in Strategic Analysis, Vol.33, No.2, March, 2009, pp. 308-10.

Centre for Distance Education

Honours/ Awards/ Recognition: Dr.R.N.Rai: Nominated as Council Member of Indian Academy of Applied Psychology from March 2008. Nominated as a Member of the North Eastern Zonal Coordination Committee (NEZCC) of the Rehabilitation Council of India, New Delhi.

Prof. Debjani Roy Nominated as Member, Governing Body, State Resource Centre, Ministry of HRD, Govt. of India from 2008.

Prof. Debjani Roy, Nominated as Member, Advisory Committee for North Eastern Regional Institute of Education (NERIE), NCERT, New Delhi from 2008.

Geography(2007-08)

Honours/Awards/Recognition: Prof. D. K. Nayak appointed as member, Joint National Committee of International Union of Geology & Geodesy and International Geographical Union for a period of four years w.e.f. January, 2008.

Prof. D. K. Nayak appointed National Correspondent, International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI) for a period of four years w.e.f. January, 2008.

Centre for Environmental Studies

Honours/Awards/Recognition: Professor B.K. Tiwari has been nominated as a member of International Consortium established by the National Environment Research Council, UK to work on the project “Strengthening Capacity to Alleviate Poverty through Ecosystem Services (SCAPES).

Professor O. P. Singh has been nominated as a member of the “Environmental Advisory Group” of North Eastern Electric Power Corporation (NEEPCO), Shillong.

Biochemistry

Honours/Awards/Recognition: Prof. R. Sharma was elected as Fellow of the National Academy of Sciences (FNASc), India (2008); Elected as Vice-President of the Association of Gerontology, India (2009-10); Nominated member of Academic Council,

Mizoram University, Aizawl (2009-12); Sectional Secretary for Medical Sciences (including Physiology) during 96th Indian Science Congress at NEHU, Shillong; Expert Committee member for Young Scientist selection under Medical Sciences (including Physiology) for Indian Science Congress Association, Kolkata (October 17, 2008).

Prof. R.N. Sharan acquired an Indian patent under PAT/4.18.2/08044 on Poly-ADP-ribosylation (PAR) of cellular proteins based tool for early cancer detection and for mass screening of human population; concept recognition was earlier granted by UGC-UNDP-APCTT-SPI as ‘emerging technologies and potentials of research from Indian Universities’ under Life Sciences/Pharmaceuticals and Healthcare section (KCRC01/002) in 2002 (URL: <http://www.ugc.ac.in/more/detail.php?id=64>).

Ms. Y. Choudhury, (Supervisor: Prof. R.N. Sharan) bagged (i) the ‘Best Oral Presentation Award/Young Scientist Award’ for the presentation “Genomic instability increases risk of cancer in mice exposed transgenerationally to aqueous extract of betel nut” at the International Conference in Radiation Biology (ICRB), University of Rajasthan, Jaipur, November 12-16, 2008; (ii) the ‘Best Poster Presentation Award’ for the presentation “Intrinsic Involvement of p53, BRCA1 and BRCA2 genes in betel nut induced carcinogenesis in mice” at the 96th Indian Science Congress, NEHU, Shillong, January 3-7, 2009.

Dr. L. Kma was selected for the BOYSCAST Fellowship of DST, Govt. of India, 2008-09 to undertake research in Florida International University, Miami, USA.

Mr. T. Tripathi was awarded Dr. S.C. Bose Award in the “National Symposium on Cellular and Molecular Biophysics”, held at CCMB, Hyderabad, Jan. 22-24, 2009.

Botany

Honours/Awards/Recognition: Prof. P. Tandon was awarded Padma Shree by the President of India for the year 2009.

Prof. P. Tandon was awarded (i) Millennium Plaques of Honour during the 96th Indian Science Congress held at NEHU during January 3 -7, 2009, and (ii) Professor R.N. Tandon Memorial Lecture Award (2008) of National Academy of Sciences, India.

Prof. P. Tandon was appointed as (i) Member, Scientific Advisory Committee to the Cabinet, Government of India, (ii) Member, Board of Governors, National Institute of Technology, Srinagar, J&K, (iii) Member, Himalayan Biodiversity Centre for Excellence, Himachal Pradesh University, Simla, (iv) Chairman, Research Advisory Committee, National Research Centre for Orchids, Pakyong, Sikkim, (v) Member, Research Council, North East Institute of Science and Technology, Jorhat, (vi) Member, Working Group XI Five-Year Plan North Eastern Council, Shillong, (vii) Member, Vision NER – 2020 of the North Eastern Council, Shillong, (viii) Member, Governing Council of the North Eastern Space Application Centre (NESAC), Barapani, (ix) Member, National Academic Planning Committee of the 30th Indian Social Science Congress, (x) Member, Working Group of Eleventh Five-Year Plan of the Indian Space Research Organisation, Bangalore, (xi) Member, Task Force, Bioinformatics, Department of Biotechnology, Ministry of Science and Technology, Government of India, (xii) Member, Scientific Advisory Committee of Institute of Bioresources and Sustainable Development, Ministry of Science and Technology, Government of India, Imphal, (xiii) Member, Expert Group for the scheme on `Assistance to Botanical Gardens and Centres of Ex-situ Conservation, Ministry of Environment and Forests, Government of India, (xiv) Member of Academic Bodies of several Universities, and (xv) Visitor's Nominee, Academic Council, Assam University, Silchar.

Prof A. K. Misra was nominated as Editorial Board Member, The Open Biomarkers Journal, Bentham Sci. Publ.,USA.

Prof. S. K. Barik was appointed (i) as a Member of the Expert Committee of DBT's Species Recovery Programme, (ii) as a Member of the Technical Advisory Expert Committee on Biodiversity of MoEF, and (iii) continued as a Member of the SEAC under EPA Act, 1986 appointed by MoEF.

Panna Das (Supervisor: H. Kayang) was awarded the Best Poster presentation entitled "First report of brown spot disease of *Citrus* spp. caused by *Alternaria* spp. at 96th Indian Science Congress, held at NEHU, Shillong during January 3-7, 2009.

Zoology

Honours/Awards/Recognition: Prof. B. K. Sharma was conferred the Fellow of National Environmental Science Academy (FNESA).

P. K. Prasad, Research Scholar (Supervisor: Prof. V. Tandon) was nominated as one of the “Genomic Pioneers for contribution to the field of Genomics” during HUGO’s International Human Genome Meeting, Hyderabad, 27-30 September, 2008.

L. M. Goswami, Research Scholar (Supervisor: Prof. V. Tandon) received the Best oral presentation award during the “20th National Congress of Parasitology” at North-Eastern Hill University, Shillong, 3-5 November, 2008.

C. Malsawmtluangi, Research Scholar (Supervisor: Prof. V. Tandon) received the Best poster award during the “20th National Congress of Parasitology” at North-Eastern Hill University, Shillong, 3-5 November, 2008.

History

Honours/Awards/Recognition: Prof. F.A. Qadri has been nominated by the MHRD, Government of India as Member of the Indian Council of Historical Research, New Delhi for a period of three years.

16. Internal resources generated: (2007-08)

Data not available.

17. Details of departments getting SAP, COSIST (ASSIST), DST, FIST, etc., assistance/recognition: (2007-08)

Seven departments are supported by the UGC’s Special Assistance Programme (Botany, Biochemistry, Chemistry, History, Sociology, Geography and Zoology). The department of Botany has been upgraded to the level of Centre of Advanced Studies. Three departments (Botany, Zoology and Chemistry) are funded under Committee on Strengthening of Infrastructure for Science and Technology (COSIST). Six departments continue to receive funds for research from the DST under Fund for Improvement for Science and Technology Infrastructure (Biochemistry, Botany, Zoology, Chemistry, Physics and Geography).

18. Community services: (2007-08)

Data not available.

19. Teachers and officers newly recruited: (2007-08)

Teachers recruited during 2007-08:

1. Dr. BelaKeshan, Reader, Department of Botany.
2. Dr. Moon MoonMazumdar, Reader, Department of Pol.Sc.
3. Ms. N Chaturvedi, Lecturer, Department of English, Retired.
4. Dr. M.J Warsi, Reader, Department of Linguistics, Terminated.
5. Dr. S Goel, Reader, Department of Botany, Retired.

Non-Teaching Officers recruited during 2007-08:

1. Dr. T. D. Ch. Momin, Medical Officer, Tura.
2. Dr. C.A.R Diengdoh, College Development Council.
3. Shri. D.K Biswal, Information Officer, Department of Biotechnology and Bioinformatics.
4. Prof. D.R Syiemlieh, Controller of Examinations.
5. Dr. S.K Prasad, Scientific Officer, RSIC/ SAIF.
6. Shri. J.M Sohtun, Scientific Officer, RSIC/ SAIF.

20. Teaching – Non-teaching staff ratio:

1 : 2.855

21. Improvements of Infrastructure in Library : The Library was equipped with adequate furniture and computers including 120 study tables and reading chairs, provision of subject guides and location plates. In addition the long awaited computer chairs and three digital heavy copier machines were also procured. The installation of auto-generator during the year ensured uninterrupted power supply.

22. New books/ journals subscribed and their cost

(Library Shillong)

Achievements during the year.

Books, Journals and other resources:

Books : A total number of 10,292 Volumes were added bringing the Library collection to 2, 53871 Volumes.

Journals: The Library subscribed to 276 Foreign Journals

E-Sources: Five e-sources were subscribed as follows:

- (i) Biological Abstract
- (ii) Academic Search Premier (EBSCO)
- (iii) IEL – On – line
- (iv) Indiastat
- (v) Credo References/Database

(Library Tura)

1. Library Budget (Non- Plan)

(a) Book Grant	–	Rs. 3.95 Lakhs	
(b) Periodical Subscription	–	Rs. 7.35 Lakhs	
(c) Plan Allocation	–	Rs. 9.50 Lakhs	

2. Collection Development

(a) No. of Journals Subscribed

Indian Journals	–	108	
Foreign Journals	–	53	161

(b) Number of Books Added in 2008-2009-1982

(i) Purchased	–	1921 volumes	
(ii) Gift	–	61 volumes	1982

(c) Circulation Statistics

(a) Books Issued	–	27,900	
(b) Books Returned	–	25,700	
(c) Books/ Jls. Consulted	–	42,000	

(These Statistics includes Management Library also)

3. Reprography Unit of campus Library

Total Exposed provided : 41,793

4. Technical and Library Automation Unit

(a) Data Base prepared	–	1500 Volumes	
(b) Barcoding	–	1200 Volumes	

23. Courses in which student assessment of teachers is introduced and action taken on student feedback: (2007-08)

The university has recently introduced evaluation of teachers by the students. The University is currently formalizing the system of analysis of the feedback and using the same for the improvement of teaching and learning

24. Unit cost of education:

Unit Cost of Education of the University - **Rs. 4,67377.**
(Rupees: Four Lakhs Sixty Seven Thousand Three Hundred and Seventy Seven)

25. Computerization of administration and the process of admissions and examination results, issue of certificates: (2007-08)

Data not available.

26. Increase in the infrastructural facilities: (2007-08)

A large number of buildings have been constructed during past five years. These include: Girls Hostels 2 Nos., Boys Hostels 4 Nos., Gymnasium, Community Hall, 42 Residences for Non Teaching Staff, and 3 residences for Teachers, School of Technology, Department of Law, Academic Staff College, Central Library, Department of Economics, Department of Education, Department of Commerce, Department of Library and Information science, Department of Linguistics, Department of Geography, Department of Anthropology, Centre for Environmental Studies, Department of Khasi, Department of Hindi, Department of Biotechnology Buildings.

27. Technology upgradation: (2007-08)

Data not available.

28. Computer and internet access and training to teachers and students: (2007-08)

The University has a computer Centre where a number of computers are installed for use of all university fraternity. The Central Library has a computer room accessible to all the students and faculty. Almost all the Departments have a common computer room. All the faculty members have been provided computer and internet access at their work desk. Thus any body can access computer and internet any time in the university campus. Almost all faculty members have computer desk top or lap top. The faculty staying at campus have also been provided with internet and telephone connectivity through NEHU VSAT-NDVN. The University has a Central Computing Facility which is open during working hours to all the students and faculty. The university does not charge any fee for this.

29. Financial aid to students: (2007-08)

Yes. The university provides financial assistance to deserving students under NEHU Postgraduate Scholarships. Further, the Students' Aid Fund is also made available to poor and deserving students for meeting their expenses towards tuition fees, examination fee, purchase of books and stationeries, hostel charges, etc. All eligible students are supported every year. During 2007-08, a sum of about Rs.100 lacs was distributed by a committee constituted for the purpose to the needy and deserving students as stipends/scholarships.

30. Support from the Alumni Association and its activities: (2007-08)

Yes, the university has an Alumni Association, which has been established recently, the students are yet to get its benefit and activities listed are yet to take shape.

31. Support from Parents-Teachers Association and its activities: (2007-08)

Parent-Teacher Association is yet to be established.

32. Health services: (2007-08)

The University Health Centre has five Medical Officers, several qualified nurses, technicians and other supporting staff. The University has three ambulances in Shillong and one in Tura Campus. The pathological laboratory is equipped with all equipments.

33. Performance in sports activities: (2007-08)

University students regularly participate in games organized by AIU in different universities as a national event. Our students participate mostly in basketball and football. Though their performances are highly appreciated but during last five years they have not won any medals.

34. Incentives to outstanding sportspersons: (2007-08)

The students who are proficient in sports i.e. participated in national levels events are given weightage for admission. They are financially assisted for participation in Inter University competitions held in different parts of the country. The university also provides them necessary support to practice and participate in such events through competent coaches.

35. Student achievements and awards:

1. **Grant of Outstanding Student to –**
 - (i) Ms. Mirabella Sangma
2. **Outstanding Students Awards to –**
 - (i) Miss Wilchi A Sangma.
 - (ii) Mr Tenzing Ch Marak
 - (iii) Ms. Esther Laldinsang
3. **UGC NET Scholarship- 2**
4. Academic Achievements : M.A. Result 100%
5. **Achievements:**
 - (i) **NET – 10+1**
 - (ii) **GATE - 5**
 - (iii) **DBT-JRD – 4**
6. M Sc – 20
7. Ph D – 2
8. **Placements:**
 - (i) Ph.D- IIT (Madras) – 2
 - (ii) IMTECH – 1
 - (iii) Lecturer – 4

- (iv) Nagaland Agriculture Service – 1
- (v) Publications – **8 (Eight)** in Indian Journals and **6 (Six)** in Foreign Journals.
- (vi) Research Scientist Tea Research Centre, Kurseong, West Bengal – 1
- (vii) Best Posters Presentation to Panna Das at Indian Science Congress, 96th Session, NEHU, Shillong, January 3-7, 2009
- (viii) Best Oral Presentation to Ms Shiny Ch Sangma for consultation price at National Symposium on Frontier in Biocomplexity and Biodiversity of Plant held during 14-15 March, 2008.
- (ix) Gold Medalist in 2008 in 2009 Convocation to Ms. R. Jashmi Devi.

9. **Fellowship:**

(i) **NEHU PG Merit Scholarship – 3+5+2+2+3+1**

(ii) **NEHU UGC Non-NET Fellowship – 2+7+3+20+2**

10. **Non-NET Fellowship – 2**

- 11. Miss Pampee Das student of 4th Semester ECE, NEHU, Shillong has been awarded a special cash award of Rs 20,000 under: “ Dr Ambedkar National Merit Award Scheme” for meritorious Girl students of Science (with Biology) stream, passing the Senior Secondary School (XII) Examination – 2008 of Meghalaya Board of School Education by the Ministry of Social Justice and Empowerment, Government of India, New Delhi.
- 12. Jacob Leslie Shylla received Rajiv Gandhi National Fellowship for SC/ST.
- 13. Yashmin Choudhury was awarded YOUNG SCIENTIST AWARD in International Conference on Radiational and Biology in November 2008.
- 14. **Rajiv Gandhi Fellowship (SRF) – 1**
- 15. Genomic Pioneers Awards to Pramod Kumar during HUGO’s International Human Genome Meeting, Hyderabad, September 27-30, 2008.
- 16. Best Oral Presentation award to Lalit Mohan Goswami during the “20th National Congress of Parasitology”, NEHU, Shillong, November 3-5, 2008.
- 17. Best Poster award to C. Malsawmtluangi during the “20th National Congress of Parasitology”, NEHU, Shillong, November 3-5, 2008.
- 18. 2nd and 3rd position to Mr. Colnat .B.Marak and Chanang . G.Momin respectively in the State Level Poetry competition organized by the Khasi Department, NEHU, Shillong.

36. Activities of the Guidance and Counseling cell: (2007-08)

Data not available.

37. Placement services provided to students: (2007-08)

A Placement Cell has been established recently and a counselor has been appointed, besides this the need is largely fulfilled by their teachers who suggest what their students should do, where they should apply, and how they should prepare. Most students of this university are employed in teaching and related jobs. Some are also self-employed after completing their masters and research. The university gives a course on Entrepreneurship through distance mode in order to fill this gap. The students are placed as teachers, extension educators and field level workers in NGO's and also as State Project Officer under United Nation Development Programme (UNDP).

38. Development programmes for non-teaching staff:

The data is not available its NIL

39. Best practices of the institution: (2007-08)

University develops new programmes through a participative interaction in various Boards of Studies and Academic Council. University has recently upgraded its classrooms by providing better furniture and computer aided lecture facilities. Ready accessibility of Faculty encourages students in learning process.

40. Linkages developed with National/ International, academic/ research bodies:

Department	Collaborating Agencies
Economics(2007-08)	Govt. of Meghalaya, Planning Commission and UNDP in connection with preparation of State Human Development Report of Meghalaya.
Centre for Adult and Continuing Education(2007-08)	North East India Council of Social Science Research (NEICSSR) Shillong; State Institute of Rural Development (SIRD); District Institute of Educational Training (DIET); Frank Finn Institute, NGOs and other development agencies to share their expertise and other resources.
Geography	Collaborative Research with NESAC under MoU for Preparation of Maps/digital data under NRC-LULC-50K
Rural Development and Agricultural Production	National Institute of Rural Development (NIRD), Regional Centre, Guwahati and NIRD, Headquarters, Hyderabad; CAPART & IAMR, New Delhi, ICAR Research Complex for NEH Region, Barapani for practical exposure and also for getting better seed varieties for RDAP farm The Department has also developed networking with the local level NGOs.
Centre for Environmental Studies(2007-08)	Centre for International Forestry Research, Bogor, Indonesia; BARC, IIG, Navi Mumbai; NGRI, Hyderabad; Department Statistics and Programme Implementation, Government of India, New Delhi

Department	Collaborating Agencies
Biochemistry	University of Konstanz, FRG; University of Dundee, UK; Uppsala University, Sweden; University of California; Institute of Enzyme Research, Japan; Toho University, Japan; Research Center Juelich, FRG; Osaka University, Japan; University of Cambridge, UK; JNU, New Delhi; BHU, Varanasi
Botany	ICIMOD Kathmandu, NRM, Expert in Indo-German NRM project in Tripura, GOPA and kfw, Germany, Tea Reseach Association Tocklai and energy Research Instiutute (TERI), DBT funded project, NERIST, RFRI, IBSD,
Zoology	Institute of genomics and Integrative Biology, Delhi in a DIT – funded research project, Zoological Survey of India, Kolkata/Shillong;, Mainz University, Mainz on clock genes in mammalian retina, Department of Gastroenterology, Hepatology and Infectious Disease, Heinrich-Heine University of Düsseldorf, Düsseldorf, Germany.
Biotechnology and Bioinformatics	University of Tuscia, Italy; Institute of Medicine and Allied Sciences, Ministry of Defence, New Delhi. National Bureau of Plant Genetic Resources, New Delhi and Shivaji University, Kollhapur with funding from ICAR/NAIP/World Bank, Microbiology on characterization of novel metal tolerant gene(s) has been going on BRNS-BARC
Chemistry	Institut de Chimie, Université de Neuchâtel, Switzerland; Centre for Computational Chemistry, University of Georgia, USA; Quantum Chemistry Group of the University of Leuven, Belgium, Kwansai Gakuin University, Japan; IACS, Kolkata; ChemGen Pharma International, Kolkata; TIFR Mumbai, BARC, Mumbai, BARC, National Centre for Free Radical Research, Pune University, Academia Simca, Institute of Chemistry, Taiwan. IACS, Kolkata, BARC, Mumbai
Physics	Helsinki Institute of Physics, University of Helsinki, Finland, Institute of Mathematical Sciences, Chennai, India ,Bergen University of Science and Technology, Norway, Michigan State University, USA. University of Southampton, U.K, EAD, BARC, Trombay Institute of Physics, Bhubaneswar EAD, BARC, CES, NEHU, BETDD, BARC, Mumbai.
Basic Science and Social Sciences	Visited Nanomaterial and Nanocomposites Laboratory in School of Physical Sciences, JNU DST - FIST (NER). Department of Zoology, NEHU, Shillong BARC, Trombay on study of Radionuclides and Trace Elements' Environmental Matrix around the

	<p>Uranium mining sites at Domiasiat in Meghalaya.</p> <p>Department of Zoology, NEHU, Shillong Department of Geography, NEHU, Centre for Environmental Studies, NEHU and Mr. A. K. Maji of the Department of Information Technology, NEHU, Shillong BARC, Trombay on health status and demographic pattern of population around Domiasiat area, West Khasi Hills, Meghalaya.</p> <p>Department of Botany, NEHU, Shillong on Ecological studies on Mawhu, Dibin, Kameng and Tawang river catchments in Meghalaya and Arunachal Pradesh.</p>
Sophisticated Analytical Instrument Facility(2007-08)	Central Muga & Eri Research & Training Centre, Jorhat, Assam; Northeast Institute of Science & Technology (CSIR), Jorhat.

41. Any other relevant information: (2007-08)

PART – C

Detail plans of the institution for the next year:

There is no specific plan of the University for the particular year 2008-09. However, the University has made Planning for the entire XIth Plan Period starting from 2007 to 2012.

Initially, the University has submitted a Plan Proposal for the XIth Plan (Phase-I) amounting to Rs. 51,722.00 lacs i.e. (1) General Development Grant Rs. 48,816.00 lacs (2) Merged Schemes Rs. 2906.00 lacs. As against the Plan Proposals submitted, UGC approved Rs. 12,380.00 lacs for General Development Grant, Rs. 517.50 lacs for Merged Schemes and Rs. 800.00 lacs towards Fellowship for doing M.Phil./ Ph.D. Hence, the total allocation comes to Rs. 13,69.50 lacs.

During the XIth Plan period the University has also proposed to upgrade the three Centres of Studies viz. Centre for Adult & Continuing Education, Centre for Cultural and Creative Studies and Centre for Environmental Studies to Academic Departments without any financial implications.

Prof. B.K Tiwari
Coordinator
Internal Quality Assurance Cell

Prof. P Tandon
Chairperson
Internal Quality Assurance Cell