

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



Annual Quality Assessment Report
2009-2010

PART – A

The IQAC successfully compiled the AQARs and uploaded them on the University website.

PART – B

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

The University has been providing education to tribal people of the northeastern India ever since its inception.

2. New Academic Programmes initiated (UG and PG)

M.Sc. in Plant Molecular Biology was introduced.

3. Innovations in curricular design and transaction:

CBCS system was introduced at the PG level.

4. Inter-disciplinary Programmes started:

None

5. Examination reforms implemented:

Continuous evaluation was carried forward and even end semester internal evaluation was introduced except for practical papers.

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

7. Initiative towards faculty development Programmes:

Several Orientation and Refresher courses were organised by the Academic Staff College.

8. Total number of seminars/ workshops conducted:

Attended – 37 , Organized – 26

9. Research Projects:

New Projects – 12 , Completed Projects – 12, Ongoing Projects – 26 ,

10. Patents generated, if any:

Prof. R. N. Sharan has been granted an Indian Patent (PAT/4.18.2/08044) on the technology and clinical phase I study has been completed. Currently, multi-center 'proof of concept' research (clinical phase II study) has been initiated in collaboration with the 'Global Discovery Center' of ILS Bioservices, Gurgaon, an arm of a US-based multinational company.

11. New Collaborative Research Programmes:

Department of Economics

Dr. B. Panda continued to collaborate with: (i) UNDP, India, (ii) Ministry of Rural Development, Government of India, and (iii) NIRD, Hyderabad in terms of workshops, projects, conferences, brainstorming sessions and members of working committees and expert groups with respect to the design, working, evaluation, monitoring and improvement of National Rural Employment Guarantee Scheme (NREGA) of Government of India. He is also collaborating with V. V. Giri National Labour Institute, NOIDA, for participation in exploratory workshops and undertaking of research projects for the North East. He also continued his professional collaboration with IIM, Shillong in enriching their teaching curriculum in environmental economics as a visiting faculty.

Centre for Distance Education

The Centre has collaboration with the Rehabilitation Council of India, New Delhi for conducting B.Ed.-SEDE, PGPD-SEDE, and FC-SEDE Courses.

Centre for Science Education

Prof. D. Bhattacharjee has research collaboration with Dr. P. K. Saikia, Department of Mathematics, NEHU, Shillong.

Dr. P. K. Patra has research collaboration with Prof. S. Kumar, Department of Physics, NEHU, Shillong and Dr. R. K. Thapa, Department of Physics, Mizoram University, Aizawl.

Department of Environmental Studies

Prof. B. K. Tiwari has academic collaboration with following universities and institutes: (i) University of Liverpool, U.K. on 'Studying Linkages Between Ecosystem Services and Poverty Research Project', (ii) Eckerd College, Florida, USA: Fulbright exchange of faculty under the United States India Education Foundation, (iii) Indian Institute of Science, Bangalore: Climate Change Adaptation in North East Region of India, and (iv) Jadavpur University, Kolkata: Climate Change Adaptation in North East Region of India.

Prof. O. P. Singh has research collaboration with the Department of Molecular Biology and Functional Genomics, Stockholm University, Stockholm, Sweden.

Department of Rural Development and Agricultural Production

The Department has undertaken professional collaboration with (i) NIRD-Regional Centre, Guwahati and NIRD Headquarters, Hyderabad, (ii) CAPART and Institute of Applied Manpower Research, New Delhi, (iii) SIRD, Guwahati, and (iv) ICAR Research Complex, Northeast Hill Region, Barapani for practical experience and improvement of techniques relating to rural development and agricultural production. The Department has also developed networking with the local NGOs so as to enable the third and fourth semester postgraduate students to interact directly with the villagers in nearby areas.

Department of Biochemistry

Faculty members have research collaborations at individual level with the following institutes:

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

A collaborative research work in the field of Molecular Genetics (DNA repair) has 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) is in progress 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, Kolhapur with funding from ICAR/NAIP/World Bank.

A collaborative research work in the field of microbiology on characterization of novel metal tolerant gene(s) is in progress between Dr. C. Acharya of BRNS-BARC and Dr. S. R. Joshi.

Department of Botany

The faculty members of the Department have been collaborating with following National and International Institutes: 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, KfW and gtz, Germany, United Nations Development Programme, New Delhi.

Department of Zoology

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

Dr. B. Das is collaborating with 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.

The Department has collaborative work 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.

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 has 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, Université de Neuchâtel, Switzerland. Prof. R. H. Duncan 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. D. P. S. Negi has collaboration with Prof. P. Ramamurthy, National Centre for Ultrafast Processes, Chennai. Dr. T. S. B. Baul has academic collaboration with Università di Palermo, Italy; Virije Universiteit Brussel, Belgium; University of Zurich, Switzerland; Pharmachemie BV, Haarlem, The Netherlands; Università di Camerini, Italy; The University of Texas at San Antonio, USA; University of Malaya, Malaysia; University of the District of

Columbia, USA and Universiti Sains Malaysia, Malaysia. 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. Dr. S. Mitra has research collaboration with D. Kumar, BITS, Pilani and Dr. A. Bhasikuttan, BARC, Mumbai.

Department of Mathematics

The Department has collaboration with University of Gorakhpur and Assam University Silchar.

Department of Physics

Prof. P. N. Pandita has collaboration with (i) Helsinki Institute of Physics, University of Helsinki, Finland, (ii) the Institute of Mathematical Sciences, Chennai, India, and (iii) the Indian Institute of Science, Bangalore. Prof. S. Kumar has collaboration with Dr. P. K. Patra of Centre for Science Education, NEHU in the area of Nanoscience.

Department of Statistics

Prof. S. M. Bendre is collaborating with Central University of Rajasthan, Jaipur, for Curriculum Development, Course Structure & Syllabus for a 2-year M.Sc. Programme in Actuarial Statistics.

Department of Basic Sciences and Social Sciences

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 (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 Centre for 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 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, and Shillong on Ecological studies on Lohit, Bichom, Dibang and Kapoli -river basins in Arunachal Pradesh and Assam...

12. Research grants received from various agencies:

Funding Agency	Total Funding (Rs. In Lacs)
ICSSR, New Delhi	Rs 0.70 lakh
VGNI, NOIDA	Rs. 5, 75,500/-
UGC	Rs. 6, 54,200/-
MHRD, New Delhi	Rs. 1.65 Lakhs
ICSSR – NERC, Shillong	Rs. 0.95 Lakhs
Ministry of Earth Sciences, GOI	Rs. 30.00 Lakhs
UGC (SAP) DRS	Rs. 3.5 Lakhs
International Seminar	Rs. 2.25 Lakhs

UGC-SAP (DRS-II)	Rs. 58.00 Lakhs
DST-FIST-II	Rs. 2.60 Lakhs
DST	Rs. 38.06 Lakhs
BRNS, DAE	Rs. 30.00 Lakhs
ICMR	Rs. 18.00 Lakhs
UGC	Rs. 9.51 Lakhs
DBT	Rs. 11.35 Lakhs
DAE – BRNS, Mumbai	Rs. 10.15 Lakhs
DBT/UGC (M.Sc. Support Programme)	Rs. 19.59 Lakhs
DIT, GoI	Rs. 127.89 Lakhs
ICAR/NAIP/World Bank	Rs. 25.18 Lakhs
CAS grant	Rs. 04.10 Lakhs
DBT	Rs. 142.25 lakhs
UGC	Rs. 12.33 lakhs
MoEF	Rs. 03.72 lakhs
WAPCOS	Rs. 16.03 lakhs
DIT, New Delhi	Rs. 25.00 Lakhs
UGC-DSA	Rs. 5.50 Lakhs
UGC (Special Assistance)	Rs. 30.00 Lakhs
MoEF, New Delhi	Rs. 13.00 Lakhs
DBT, New Delhi	Rs. 48.00 Lakhs
DST, New Delhi	Rs.22.00 Lakhs
DST, New Delhi	Rs. 12.73 Lakhs
DAE/BRNS, Mumbai	Rs. 35.73 Lakhs
UGC-SAP-DSA Phase-III Programme	Rs. 4.20 Lakhs
UGC (Special Assistance)	Rs. 30.00 Lakhs
DAE – NBHM	Rs. 11.00 Lakhs
UGC-SAP-DRS-I	Rs. 18.40 Lakhs
UGC (Special Assistance)	Rs. 20.00 Lakhs
CSIR	Rs.2.92 Lakhs
DAE/BRNS	Rs. 12.40 Lakhs
UGC (SAP)	Rs. 45.15 Lakhs
UGC-SAP-DSA	Rs. 6.10 Lakhs
INSA, New Delhi	Rs. 2.00 Lakhs
ICSSR-NERC, Shillong	Rs. 0.63 Lakhs
UGC (SAP)	Rs. 1.00 Lakh
NERC-ICSSR	Rs. 0.60 Lakh
NEC	Rs. 2.25 Lakhs
ICSSR (NERC)	Rs. 1.25 Lakhs
UGC-SAP-DRS III	Rs. 5.20 Lakhs
DST, Govt. of India, New Delhi	Rs. 13.25 Lakhs
– Non - Plan Plan	Rs. 8.65 Lakhs

The Academic Staff College was sanctioned Rs.55.00 Lakhs for the year 2009-10 from the University Grants Commission, New Delhi, for conducting Refresher Courses and Orientation Programmes in approved subjects and for meeting other expenditures.

13. Number of Research Scholars Awarded Ph.D. degree

<u>Department</u>	<u>No. of Research Scholars</u>
☞ Department of Commerce	02
☞ Department of Economics	01
☞ Department of Education	03
☞ Department of Education (Tura)	01
☞ Department of Anthropology	01
☞ Department of Environmental Studies	01
☞ Department of Geography	04
☞ Department of English (Shillong)	02
☞ Department of English (Tura)	04
☞ Department of Garo (Tura)	02
☞ Department of Hindi	04
☞ Department of Khasi	01
☞ Department of Biochemistry	03
☞ Department of Botany	02
☞ Department of Zoology	04
☞ Department of Chemistry	12
☞ Department of Cultural & Creative Studies	01
☞ Department of History	03
☞ Department of Political Science	02
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Total	53

14. Citation Index of Faculty Members and Impact Factor:

SI No.	Department	Citations	Impact Factor
1.	Prof. M. B. Jyrwa, Department of Khasi	60	Not Available
2.	Prof. B. War, Department of Khasi	80	-Do-
3.	Prof. S. Dkhar, Department of Khasi	80	-Do-
4.	Prof. A. Kharmalki, Department of Khasi	50	-Do-
5.	Dr. D. R. L. Nonglait, Department of Khasi	45	-Do-
6.	Mr. M. M. Khyndeit, Department of Khasi	4	-Do-

15. Honors / Awards to the Faculty: NA

Department of Commerce

Dr. A. P. Pati was awarded the Best Business Academic of the Year-2009 by All India Commerce Association.

Dr. V. K. Shrotryia was appointed as Guest Editor of Invertis Journal of Management.

Department of Economics

Prof. B. Mishra was appointed member of the Meghalaya Commission on Resource Mobilisation, Government of Meghalaya, Shillong.

Dr. B. Panda was appointed: (i) member of the working committee on 'Capacity Building' in NREGA for the country by the Rural Development Ministry, Government of India, (ii) member of expert committee to formulate research methodology for studies on various aspects of NREGA constituted by Government of India, Ministry of Rural Development under the chairmanship of Shri B. N. Yugandhar, Ex Member, Planning Commission, GOI, and (iii) member, Ombudsman Selection Committee for the State of Meghalaya by Ministry of Rural Development, Government of India.

Department of Management

Silver Medal for the paper "*Financial Inclusion, Women and Inclusive Growth: Empirical Evidence and Future Strategies*" was bestowed to Mr. B. F. Lyngdoh in 62nd All India Commerce Conference organized by MDS University, Ajmer, Rajasthan, 10–12 October 2009.

Department of Adult & Continuing Education

Prof. E. Jyrwa was nominated (i) as UGC Member of the Expert Committee to examine the report of Sub-Committee of National Literacy Mission Authority on Strategies for Adult Education in X Plan and (ii) as Member of the CMC of the Shillong Centre of the Institute of North-East India Studies for the year 2009-2012.

Dr B. P. Sahu was nominated (i) as member of Meghalaya Disaster Management Committee for the year 2009-10 and (ii) as a member of EDUSAT committee for "Developing the contents for capacity building in Disaster Management for NEI" for broadcasting in collaboration with NEC, Shillong and North Eastern Space Application Centre, Umiam, Meghalaya.

Centre for Distance Education

Dr. R. N. Rai has been nominated a Founder Member of Indian School Psychology Association, Delhi from February 2010.

Department of Anthropology

Prof. T. B. Subba was (1) nominated as a member, Editorial Board, *Asian Anthropology*, Chinese University of Hong Kong, (2) awarded the Baden-Wuerttemberg Fellowship at South Asian Institute, Heidelberg University, Germany tenable from 15 October 2010 to 15 January 2011, (3) nominated as a member, Academic Council, Sikkim University, and (4) nominated as a member, Indira Gandhi Rastriya Manav Sangrahalaya Samiti, Bhopal.

Department of Environmental Studies

Prof. B. K. Tiwari was elected as Fellow of National Institute of Ecology, (FNIE), New Delhi.

Prof. O. P. Singh acted as Jury Member for Nominating Films on Environment and Wildlife to be shortlisted and awarded in the CMS Vatavaran Film Festival 2009. He attended the Jury Meeting at Centre for Media Studies (CMS), New Delhi, 28-31 July 2009.

Dr. D. Walia was offered Life Membership, Indian Seismological Research Society, ISR, Gandhi Nagar, and is elected as a member of the Sectional Committee (ESS) for 2010-2011 (98th Indian Science Congress). He also received the best poster presentation award during the National Conference on 'Condensed Matter Physics' held at Department of Physics, NEHU, Shillong, 23-25 March 2010.

Dr. S. S. Chaturvedi was awarded Prof. J. P. Dutta Munshi Gold Medal 2009 by International Society for Ecological Communications, Hazaribag, Jharkhand.

Department of Geography

Mr. Rabi Narayan Behera, Research Scholar, received Young Geographers' Award for his research paper entitled "Commercial Crops and Food security in Rural Meghalaya: Percept and Implications from Social Geographic Perspective" from the Institute of Indian Geographers, in its 31st Annual Conference held at University of Bangalore, 19-21 February, 2010.

Department of Rural Development and Agricultural Production

Dr. B. K. Mishra was conferred Young Scientist Award 2010 for his outstanding contribution to the field of Rural Development and Agricultural Production on the occasion of 12th Indian Agricultural Scientist and Farmers' Congress by BIOVED Research Society, Allahabad.

Department of English (Shillong)

Prof. T. Ao received Governor's Award (Nagaland) for Distinction in the field of Literature, 2009 on 26.1.2010 in Kohima.

Department of Khasi

Prof. S. Dkhar (i) received the Award of Honour for the contributions to Khasi Literature by the All India Poetess Conference at the 4th International Convention held at Beijing, China on the 21st June 2009, (ii) was honoured and felicitated by the Khasi Students Union (NEHU Unit) for the contributions to Khasi Society at its function held on 17th September 2009 at Community Hall NEHU, Permanent Campus, (iii) was awarded the Kasturba Gandhi Samman 2009 by the Sulabh Sahitya Academy Award at the Decade's National Mega Convention of All India Poetess Conference held on 9th - 11th October 2009 at Aiwan-i-Ghalib DDU Marg, ITO, New Delhi, (iv) received the Award of Excellence for the exemplary and outstanding contribution to Poetry given by the Poetry Society (India) sponsored by Assam Rifles on its 175 years celebration held on 15th March 2010, at 16 Assam Rifles Auditorium, Kohima, Nagaland, and (v) was the Winner of the 3rd North East Poetry Competition 2010 for the poem "The Voice of Truth" organized by the Poetry Society (India) in the 3rd North-East Poetry Festival 2010, on the theme *The Voices of Truth*, held from 25th to 27th March 2010 at Shilpgram, Guwahati.

Department of Philosophy

Prof. Vanlalnghak was nominated (i) as a Member of the Council of the Indian Council of Philosophical Research by the Ministry of HRD, Government of India w.e.f. 19 September 2009, and (ii) as a Member of the Governing Body of the Indian Council of Philosophical Research w.e.f. 11 October 2009.

Prof. J. Pal was the Chief Editor of International Journal of Jurisprudence and Philosophy of Law, Vol. 2 (Serial Publication, New Delhi).

Department of Biochemistry

Prof. R. N. Sharan has been granted an Indian Patent (PAT/4.18.2/08044) on the technology and clinical phase I study has been completed. Currently, multi-center 'proof of concept' research (clinical phase II study) has been initiated in collaboration with the 'Global Discovery Center' of ILS Bioservices, Gurgaon, an arm of a US-based multinational company.

Prof. R. Sharma has been (i) elected as Vice-President of the Association of Gerontology, India (2009-10) and (ii) nominated as member of Academic Council, Mizoram University, Aizawl (2009-12).

Dr. D Syiem has been appointed as reviewer for (i) Science Alert (2009) and (ii) African Journal of Pharmacy and Pharmacology (AJPP) (2009).

Dr. L. Kma has been appointed as a reviewer in Canadian Journal of Pure & Applied Sciences (2009 onwards).

Department of Biotechnology & Bioinformatics

Prof. A. Chatterjee was recipient of International Cancer Fellowship from International Union against Cancer (UICC), Geneva, 2009 and Yamagiwa-Yoshida Memorial International Cancer Study Grant for a project at Swansea University, UK.

Dr. S. R. Joshi was awarded the best speaker for his presentation on "Role of Space Science and Technology in Science Journalism: Science communicators in the new age" at the Science Communicators Meet during 97th Indian Science Congress at University of Kerala, Trivandrum and was awarded the Best Speaker Trophy by ISRO, Bangalore.

Dr. S. R. Joshi was awarded Dr. Ambedkar Fellowship National Award 2009 by Bharatiya Dalit Sahitya Akademi for literary and social services rendered for up-liftment of under privileged by way of writing books for School curriculum in vernacular language.

Patent Application by Prof. A. Chatterjee: PCR based diagnostic markers from rDNA ITS region for species discrimination of zoonotic trematode parasites. IPR/4.22.17/09034.

Department of Botany

Prof. Pramod Tandon was awarded the Aspire Skills Development Award for distinguished services to India by Mr. Kapil Sibal, Honourable Minister for Human Resource Development. He continued as a member of the (i) Scientific Advisory Committee to the Cabinet, Government of India; (ii) Board of Governors, National Institute of Technology, Srinagar, J&K, and (iii) Himalayan Biodiversity Centre for Excellence, Himachal Pradesh University, Simla. He was appointed as a member of (i) Court and Executive Council, University of Hyderabad; (ii) Executive Council, Central University of Orissa; (iii) Executive Council, Central University of Rajasthan; (iv) Executive Council, Nagaland University; (v) Academic Council, Central University of Jharkhand, Ranchi; (vi) Academic Council, Central University of Kerala, Kasargod; and (vii) Empowered Committee of Experts, National Mission on Education through Information and Communication Technology, Ministry of Human Resource Development, Government of India. He was elected the Sectional President of the Plant Sciences the 97th Annual Session Indian Science Congress held at Tiruvananthapuram.

Prof. A. K. Misra was elected Fellow, Society for Environmental Sciences, Vinoba Bhave University, Hazaribagh.

Prof. N. K. Chrungoo was (i) nominated as the Asia Pacific representative to the editorial Board of the Journal *Fagopyrum*; and (ii) appointed as a member of the institutional biosafety committee of ICAR complex for NER.

Prof. S. K. Barik was appointed as (i) National Chief Technical Adviser to Indo-German NRM project in Tripura; (ii) Member, Environmental Biotechnology and Biodiversity Conservation Task Force of Department of Biotechnology, Government of India; (iii) Member, Expert Committee on Conservation of Threatened species constituted by Department of Biotechnology, Government of India; (iv) Technical Adviser to UNDP project on Biodiversity Conservation in Arunachal Pradesh, appointed by Ministry of Environment and Forests, Government of India; (v) Member, Meghalaya State level Expert Appraisal Committee (EIA) constituted by the Ministry of Environment and Forests, Government of India; (vi) Expert Committee Member for constitution of Medicinal Plant Conservation Areas in India; (vii) Member, National Technical Advisory Committee on Biodiversity ENVIS Centres, constituted by Ministry of Environment and Forests, Government of India; (viii) Member, National MAB Committee, constituted by Ministry of Environment and Forests, Government of India; (ix) Member of the Executive Council, International Society for Tropical Ecology; (x) Associate Editor, *Tropical Ecology*; and (xi) Member, Editorial Board, *Journal of Biodiversity*.

Mr. Jeremy Dkhar was awarded best poster presentation entitled 'Molecular evidence for hybrid origin of *Nymphaea alba* var *rubra* based on nrDNA ITS and chloroplast *trnk* intron, *matk* and *rbcl* gene' at 97th ISCA, Thiruvananthapuram 3-7th January, 2010.

Department of Zoology

Prof. B.B.P. Gupta was awarded with the DAAD fellowship for two months (December, 2009 to January, 2010) to work on photoperiodic regulation of clock genes in mammalian retina at the Department of Functional and Clinical Anatomy, University of Medicine, Mainz, Germany in collaboration with Univ. Prof. Dr. R. Spessert.

M. G. Choudhury (Supervisor: Prof. N. Saha): ISCA Young Scientists Award 2010 by the Indian Science Congress Association, Kolkata in "Animal, Veterinary and Fishery Sciences".

Dr. P. K. Prasad (Supervisor: Prof. V. Tandon): Swarna Jayanti Puraskar 2009 for best paper presentation in Biological Sciences during 79th Annual meeting of National Academy of Sciences, December 14-16, 2009, Calcutta University, Kolkata.

L. M. Goswami (Supervisor: Prof. V. Tandon): CSIR Senior Research Fellowship and Prof. M. B. Mirza Gold Medal for the best publications of research work done in India at 21th National Congress of Parasitology, Panjab University, Chandigarh, November 14-16, 2009.

J. A. Shylla (Supervisor: Prof. V. Tandon): Best Oral Presentation Award during 21st National Congress of Parasitology, Panjab University, Chandigarh, November 14-16, 2009.

C. Malsawmtluangi (Supervisor: Prof. V. Tandon): Best Poster Award during 21st National Congress of Parasitology, Panjab University, Chandigarh, November 14-16, 2009.

Dr. G. Rosangkima (supervisor: Prof. S. B. Prasad): UGC Post Doctoral Research Fellowship.

Ms. M. M. Devi (Supervisor: Prof. S. N. Ramanujam): Best Poster Presentation Award at the XXIInd Annual Conference of National Environmental Science Academy (NESA) held at Jamia Hamdard, New Delhi, December 27-29, 2009.

Ms. K. R. R. Mihsil received the Dr. Shankar Dayal Sharma Gold Medal (2008) and also the Late M. K. Khare Memorial Award (2008).

Ms. D. Syngkon received the Late M. K. Khare Memorial Award (2009).

Department of Chemistry

Prof. K. Ismail received the B.N. Ghosh Memorial Award from the Indian Society for Surface Science and Technology.

Mr. Jahar Dey (Supervisor: Prof. K. Ismail) received the J. K. Mittal Best Poster Award for his poster entitled, "Aggregation Adsorption and Counterion Binding Behaviours of AOT in Water + Ethylene Glycol Mixtures" at the 14th National Conference on Surfactants, Emulsions and Biocolloids held at the Deptt. of Chemistry, University of Kashmir, Srinagar during July 28-30, 2009.

Dr. T.S. Basu Baul was awarded a Research Fellowship and Joint Utilization of Advanced Facility jointly by DST (from Indian side) and EPFL (Swiss side) under Indo-Swiss Joint Research Programme (ISJRP). and visited the Institute of Organic Chemistry, University of Zurich, Switzerland to carry out research work for a month (February 24th to March 25th 2010).

Department of Physics

Prof. P. N. Pandita was awarded the Sir J. C. Bose National Fellowship by the Department of Science and Technology, New Delhi.

Department of Cultural & Creative Studies

Students of the Department were awarded Third Prize for the Float that best depicts the theme 'Enchanting Folklores' during the Shillong Float Parade organized by the Meghalaya Tourism Development Forum as part of Autumn Festival, October 2009.

Department of History

Dr. C. Mawlong has been appointed as a member of the State Committee for the implementation of the National Mission for Monuments and Antiquities, Govt. of India.

Department of Information Technology

Mr. S Roy has been selected as a Reviewer and Technical Committee Member of International Arab Journal of e-Technology (IAJeT).

University Science Instrumentation Centre

Prof. P. V. Koparkar has been elected as the member of the Governing Council, Instrumentation Society of India for a period 2008 – 2010.

16. Internal Resources Generated:

Schedule: 9: Academic Receipts

Amount in Rupees

Particulars	2009 – 2010
A. Fees from Students	
a) Academic	
1. Entrance examination fees	
2. Admission fees	278335
3. Enrolment fees	767300
i. Tuition fees	5554106
ii. Library fees	225480

iii.Others	6846034
b) Examination	
1. Annual Examination fees	21413597
2. Semester examination fees	
3. Mark sheet fees	597550
4. Others-Registration Fees	704695
c) Other Department Receipts	
1. Medical fees	338940
2. Convocation fees	1081842
3. Other Miscellaneous Income	651374
d) Hostel fees	1254453
B. Publication Receipts	1573372
C. Sale of Question Papers	
D. Others	209282
TOTAL	41496360

Schedule: 11: Other Receipts

Particulars	2009 – 2010
1. Charges for use of Building	346922
2. Charges for use of Land	176430
3. Charges for use of transport	472502
4. Charges on farm products of Tura Campus	
TOTAL	995854

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

Department of Botany- UGC Centre for Advanced Studies

Department of Biochemistry- UGC SAP, DST FIST

Department of Zoology- UGC SAP

18. Community Services:

Various programmes organized by the NSS cell.

19. Teachers and Officers Newly Recruited:

20. Teaching – Non – Teaching Staff Ratio: Academic : Non-Academic staff = 1.183 app

21. Improvements of Infrastructure in Library:

(SHILLONG)

(i) Procurement of additional furniture/equipments

With funds made available for furniture/equipment to improve library services, the following furniture/equipment were procured during the period under Central Facilities.

(a)	Slotted Angle Racks	:	72 nos.
(b)	Wooden Chair with Padded Seats	:	30 nos.
(c)	Handheld Barcode Scanner	:	3 nos.

(d)	Laser Printers	:	4 nos.
(e)	SMF Batteries of 6KV UPS	:	16 nos.
(f)	Extension of UPS power points	:	25 points
(g)	Repair of 6KVA UPS	:	1 no.
(h)	Summit X150-24t 24 10/100 computers Networking Switch	:	5 nos.
(i)	4 Port KVM Switch	:	2 nos.
(j)	DDR RAM	:	5 nos.
(k)	Patch Cords	:	16 nos.

(ii) ***Improvement of electrical power supply to Library:***

The auto-generator (125KVA) for the Central Library installed during the year ensured un-interrupted lighting and was maintained in the library for the benefit of the readers and also to support the electrical power requirements for housekeeping works.

(iii) ***Improvement of Internet Bandwidth in relation to library services:***

The up gradation of the internet bandwidth from ERNET to 2MBPS along with the availability of another bandwidth of 8MBPS from BSNL enhanced speed access and usage of the e-journals subscribed by the library and those available through the UGC Infonet Digital Library Consortium. This was reflected in the usage statistics provided by INFLIBNET Centre, Ahmedabad for NEHU (total download for 2009 is 1,04,942 full-text article). These included articles downloaded from 22 publishers, 6 bibliographic database and open access journal available through the consortium.

(iv) ***Important activities/steps accomplished toward improvement of library services:***

The following tasks were taken up in this regard:

- Information resources available in CD ROMS (300 Nos.) were catalogue and are Searchable through OPAC.
- Data Entry of Back Volumes in the database of more than 12000 entries was completed.
- Bar coding of new books started.

22. New Books/Journals subscribed and their cost:

(SHILLONG)

Progress during the period:

(i) Library Budget

			Rs. in lakhs	
1.	Books	Non-Plan	19.00	40.50
		Plan	21.50	
2.	Periodical	Sciences	76.00	
		Non-Sciences	20.00	96.00

3.	Other Charges		5.00
4.	Grant under Central Facilities for Infrastructure of new Department	Plan	75.00
5.	Grant Books and Journals	Plan	100.00
Grand Total			316.50

(ii)	Library Collection	-	2,58,128 Vols.
(iii)	Book added during the Year	-	4257 Vols.
(iv)	Periodical Subscription	-	314
	(i) Foreign Journals	-	185
	(ii) Indian Journals	-	129

Reader's including online services

(1) Enrolment

(i)	Under Graduate Students	:	684
(ii)	Post Graduate Students	:	2016
(iii)	Research Scholars	:	1227
(iv)	University Teachers	:	334
(v)	Non-Teaching Staff	:	334
(vi)	Technical Staff	:	89
(vii)	Visiting Lecturer/Professors	:	13
(viii)	Others (Including College Teachers)	:	59
Total No. of Registered Members			4941

(2) Daily Average No. of Books issued/return/renewal (including Law Dept.): 565

(3) Daily Average No. of users who availed consultation services (including Law Dept.) : 380

(4) Daily average internet users : 40

(5) Photocopying services : 1, 04,555 copies

(6) Printing Services : 9706 copies

(7) Resources sharing under UGC INFONET Digital Library Consortium Inter Library Loan Services Using JCCC dispatched to universities : 575 articles

(8) NEHU usage of UGC INFONET Digital Library Consortium e-journals depicted by total Articles downloaded during the period : 1, 04,942 articles

Other information:

Revenue collected during the year

Reprography revenue : Rs.1,20,195.00

Consultation fee	:	Rs. 7960.00
Overdue fines	:	Rs. 7845.00

(TURA)

Library Budget (Non-Plan)

(i) Book Grant	:	Rs. 3.90 lakhs
(ii) Periodical Subscription	:	Rs. 7.35 lakhs
11 th Plan Allocation	:	Rs. 3.00 lakhs

Collection Development

(a) No. of Journals Subscribed	:	113
(i) Indian Journals	:	77
(ii) Foreign Journals	:	36
(b) Books Added	:	897 vols.
(i) Purchased	:	656
(ii) Gifted	:	241
(c) Total Book collection upto 31.03.2010	:	18,578 vols.
(i) Purchased	:	17,948
(ii) Gifted	:	630

Library Membership Statistics

(a) Students of 5 (Five) P.G departments	:	280
(b) Research Scholars	:	20
(c) Faculty Members	:	34
(d) Guest Lectures	:	10
(e) Non-Teaching Staff	:	34

Total 378

Library Circulation Statistics

* (i) Books Issued	:	27941
* (ii) Books Returned	:	26434
* (iii) Consulted	:	64,938

* (This include the statistics of Management Library also)

Reprography Unit of Campus Library

Total Exposures provided	:	40,669
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Technical and Library Automation Unit

(i) Books Classified	:	656 vols.
(ii) Data Base*	:	1026 vols.
(iii) Bar-coded*	:	1026 vols.

*(This includes both new books and retro-conversion)

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

All PG programmes. The feedback forms were processed by the Examination Department.

24. Unit cost of education:

Approximately ₹ 21246.00

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

University initiated the process of introducing University Management System software.

26. Increase in the Infrastructural facilities:

Department of Economics – Computer Lab furnished with 25 computers and internet connectivity.

Department of Management – The Department is equipped with infrastructural facilities like Computer Lab with 30 PCs having Internet Facility and Library with 3300 books and 42 Journals. It has also started establishing Case Study Room and Audio-Video equipment's for facilitating and strengthening learning systems.

Department of Geography – ArcGIS Master Lab Kit 8.4 Software-3 licenses, ERDAS Imagine 8.1 DIP Software-5 licenses, ENVI- 10 licenses, SPSS-5 licenses, A0 Color plotter-1, Leica GPS56+ -1, Magellan HH GPS-1, 5 Mega pixel Digital Camera-1, A0 scanner, GARMIN 12 XL GPS. Soil and Water Testing Equipment.

Department of Rural Development and Agricultural Production – The Department continues to maintain the farm, which contains an instructional dairy unit, fishery pond, areas for plantation and other horticultural crops and areas for field crops. One paddy straw shed was added to the existing facilities of vermin-compost unit, net house, poly house and heifer shed. During 2009-10, the dairy unit of the Department, in addition to its instructional role, produced nearly 37,000 litres of milk, which earned a total revenue of over Rs. 4 lakhs to the University.

Department of Linguistics – NEICOD Language Lab for Phonetics and Linguistic Training and building Lexical Resources.

- Department of Biochemistry* –
1. Protein blotter (Bio-Rad)
 2. Fraction collector (Bio-Rad)
 3. Tabletop cooling centrifuge (Sigma)
 4. Electrophoresis and blotting apparatus (Bio-Rad)
 5. Freezer (-50 °C) (LabTech)
 6. Refrigerated airfuge (Sigma)
 7. Spectrophotometer (Shimadzu)
 8. Mini gel doc system (Bio-Imaging systems)

Department of Zoology – Research laboratories were renovated and a module consisting of four research laboratories and four faculty rooms was constructed.

Department of Chemistry –The following instrument has been acquired and installed:

4. Bench top lifetime spectrophotometer.

Department of Statistics – Four more personal computers were added (total 29) to the statistical computing laboratories.

Department of Cultural & Creative Studies – An acoustically suitable hall for Theatre, performing Arts has been developed with proper theatre lights and music. A working stage with screens was also installed.

Department of History – The PCs in the faculty rooms were upgraded. Laptop computers were acquired for the use of faculty and research scholars. A library –cum-seminar hall has been made ready under the SAP-DSA programme.

Department of Electronics & Communication Engineering – A National MEMS Design Centre (Coordination: Dr. L. J. Singh) has been established as a common facility for the users from the region.

Department of Information Technology – 120 high end computers and 60 thin clients connected to SUN Fire server with solaris operating system.

Department of Basic Sciences and Social Sciences – Laboratories of Chemistry, Physics, Basic Electrical Engineering, Engineering Graphics and Mechanical Engineering courses have been upgraded. A Computer Laboratory with 8 Workstations supported by 10KVA UPS has also been established.

Department of Sophisticated Analytical Cell – The following fully functional sophisticated analytical instruments are available:

- I. Scanning Electron Microscope (JEOL JSM 6360)
- II. Transmission Electron Microscope (JEOL JSM 100CX)
- III. FT-NMR 400 MHz (BRUKER AVANCE II-400)
- IV. LC-MS Spectrometer (Waters ZQ-4000)
- V. Atomic Absorption Spectrometer (Perkin Elmer PE 3110)
- VI. Graphite Furnace (Analytik Jena AG Vario 6)
- VII. CHN-OS Analyser (Perkin Elmer PE 2400)
- VIII. Liquid Nitrogen Plant (Philips PLN 106)
- IX. Microscope with Image Analyser (LEICA DMRX)

The process for procuring a new Transmission Electron Microscope (200 KV) fitted with a 7 Mega pixel CCD Camera (JEOL, Japan) was initiated.

Department of Academic Staff College – The following equipments were procured: Laptop computers (1 No.), PC (9 Nos.), DLP Projectors (2 Nos.), LaserJet Printer (6 Nos.), Digital SLR Camera and Flash (1 No.), Amplifier (1 No.), Wired microphone (2 Nos.), Cordless microphone (2 Nos.), Lapel Microphones (1 No.), Speakers (1 pair), Insta-lock Projection Screen (2 Nos.), Spiral Biding Machine (1 No.), Lamination Machine (1 No.) and Coffee Vending Machine (1 No.). The UGC-ASC also has established a Guest House with 50 beds capacity for accommodating out-station participants of Refresher Courses and Orientation Programmes.

27. Technology up gradation:

The NEHU Voice and Data Network (NDVN) Facility, commissioned in 2003 as VSAT Facility continues to give data (Internet) and voice (telephony) access in a convergence mode to

all academic and Administrative Departments, and to other establishments/buildings on the campus.

New Implementations:

- (i) A new Campus Antivirus, Trend Micro Office Scan, is implemented for all clients in the network for a period of three years.
- (ii) A new Firewall with Unified Threat Management, Cyberoam 1000i, providing gateway protection of Antivirus, Antispyware and AntiSpam is implemented with three years subscription period for updates.
- (iii) Data and Voice Network extended to the Department of Environmental Studies, New Guest House and extended buildings of School of Technology.

Existing Components providing continual services:

Internet Access

- (i) 2 Mbps Internet Leased Line: This connection, sponsored by the UGC-INFLIBNET for exclusive access to over 2500 scholarly periodicals available under INFONET scheme. It also supports general Internet browsing.
- (ii) 8 Mbps Internet Leased line from BSNL: This additional connection from BSNL, costing Rs.23 lakhs per annum, provides access to Internet to all users of NDVN.

Data Network (LAN)

All server and applications, which include DNS, DHCP Web Servers, Mail Servers, Proxy Servers, Gateway filtering for Viruses and Spams, Antivirus Distribution Server, Network Monitoring software and DHCP run on HP Blade Chassis C7000 with 9 active Blade Servers. Beside these, there are other Tower servers (IBM, Compaq & Wipro) which are being utilized as proxy for residence, voice applications and backup.

The Extreme Summit Black Diamond 8806 core switch provides connectivity, routing, VLANs access to and from all layer 2 switches in all Departments.

All Departments are connected to the core switch with the Extreme Summit X150-24t & Extreme Summit X150-48t L2 switches with gigabit uplinks.

All Departments are connected over a Fibre Optics cable (FOC) backbone. Structured cabling for voice and data has been extended to all completed buildings.

Internet accesses as well as IP authenticated e-journals from UGC-infonet E-journal consortium, Library's OPAC software and 'sharing of resources' are the applications currently running on the network.

Voice Network

The Avaya S8730 server with G650 gateway located in NDVN, Administrative Building and Political Science Department along with G450 located in the School of Technology and Guest House provide TDM backbone and IP enable switch architecture for voice/telephony. All these port networks are connected to the server-over –IP-Back-Bone.

28. Computer and internet access and training to Teachers, Non- Teaching Staff and Students:

Thrust Area of the Centre: (i) Providing computation facility to faculty members, research scholars and students of the University. (ii) Developing and maintaining software for the University. (iii) Conducting training programmes in computer related subjects.

Brief Statement of Activities: Research scholars and teachers/non-teaching staff of the University utilized the facilities of the Centre for computational work, documentation and internet browsing. Several short-term courses were conducted. The Centre assisted Finance section, Examination section, Administration and College Development Council of NEHU in computerization of the work. The Centre conducted CIC, BCA and MCA courses of IGNOU during the weekends and some holidays throughout the year.

29. Financial aid to students:

During 2009-2010, 73 NEHU Post-Graduate Merit Scholarship (including ST/SC students) were awarded. For the Students' Aid, 25 students were recommended to the Deans Committee for approval.

30. Support from the Alumni Association and its activities:

Alumni Association was activated.

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

To be introduced.

32. Health services:

In addition to Medical Officers, the Centre has two Pharmacists, three Nurses, one Laboratory Technician, one Laboratory Assistant and one Female Medical Attendant.

Facilities:

Consultation: Medical officers are available for consultation at fixed hours as well as for emergency consultation outside duty hours.

Pharmacy: The required medicines are purchased from wholesale suppliers and stocked at the Centre. These medicines are issued to the patients based on the prescription by the doctors.

Dressing Room: Dressing, injections and minor surgical procedures are carried out in the Dressing Room.

Ambulance: Ambulance service is provided during emergency for transporting the severely ill patients from residence to Clinic/Hospital.

Laboratory: Bio-Chemical and Clinical pathology tests for blood and urine analysis are performed in the Health Centre.

In-Patient Treatment: Patients requiring in-patient treatment are referred to the Hospitals within/outside Shillong depending upon the necessity.

Credit Billing Facility: This facility is available to patients admitted in Nazareth and K. J. P. Hospitals in Shillong and C.M.C. Hospital at Vellore.

The Centre always extends First Aid service at sports tournaments.

33. Performances in sports activities:

Sports Activities: The following sports activities were conducted during the year 2009-2010:

(i) P. C. Lalmuanphui Inter-Hostel Basketball Tournament organized by Sensiar Hall of Residence, and (ii) Romengo Murry Memorial Inter-Hostel Table Tennis Tournament organized by Saramati Hall of Residence.

The DSW office supported the conduct of the following additional student' activities:

In order to coincide the term of the NEHUSU and of the Academic Calendar, the election to the Students Union Executive Committee were held in 27th November 2009 and the new office-bearers took charge soon thereafter. DSW office supported the annual event of NEHUSU to showcase academic, sport and cultural talents of the students of the University. The Varsity Week was held from 19th March 2009 to 24th April 2009 and the same concluded with a week of celebrations from 19th April 2009 onwards. Most of the final competition took place during this week. Other events organized by the NEHUSU were Parting Social, Fresher Social and Advance Christmas.

(Sports Department)

The Sports Department worked in close association with the North Eastern Hill University Students' Union (NEHUSU), the wardens of various hostels and the Campus Welfare Committee of residents in the campus. The Indoor Stadium and Community Hall have been made available to students and campus residents. Gym stations and equipments were also made available to the residents.

The Department has been involved in assisting in the various events conducted by NEHUSU especially the Varsity Fest 2009 which was held from 19th March to 24th April 2009. His Excellency, the Governor of Meghalaya and Chief Rector of the University, Shri. R. S. Mooshahary was the Chief Guest in the closing ceremony of this Fest.

A trekking-cum-camping event was organized in collaboration with NEHUSU at Sa-i-Mika Park, Sohra on 23-24 October 2009.

The events brought friendship, memorable moments, joy and sense of responsibility among our PG and UG students.

34. Incentives to outstanding sportspersons:

University awards special index points for sportspersons at the time of admission to various courses of the University and reservation quota for such persons is applied.

35. Students Achievements and Awards:

Degrees Awarded:

(a) M.Com – 25

(b) M.A. – 42+42+27+41+58+20+22+49+35+24+43+38+43=484

(c) M.Sc. – 18+18+15+18+26+18+9+18+7=147

(d) M.A/M.Sc. – 26+28=54

(e) M.Phil. – 3+1=4

(f) M.L.I.Sc. – 21

(g) MBA – 23

- (h) *M.Ed.* – 19
 (i) *B.Ed – SEDE* – 31
 (j) *Certificate Course in Floriculture* – 5
 (k) *General Course in Floriculture* – 1
 (l) *FC-SEDE* – 59
 (m) *P.G. Diploma in Adult and Continuing Education* – 14
 (n) *P.G. Diploma (Music)* –10
 (o) *P.G. Diploma(Painting)* – 4
 (p) *P.G. Diploma(Folkloristics)* – 8
 (q) *Ph. D* – 2+1+3+1+ 1+1+4+2+4+2+4+1+3+2+4+12+1+3+2 = 53

Ph.D.

1. Mr. A.N. Shankar, “Social Responsibility Reporting in Indian Corporate Sector: An Empirical Study.” Supervisor: Prof. N.M. Panda.
2. Mr. Sabindra Rajbongshi, “Impact of Micro Credit Programme on the Growth and Development of Micro Enterprises: A Study on Meghalaya.” Supervisor: Dr. A.P. Pati.
3. Mr. Santanu Ray, “Dynamic Links between Economy and Human Development: A Study of Indian States.” Supervisor: Prof. P. Nayak
4. Mr. P. Lyngdoh: Professional Education at the Degree Level: An Analytical Study. Supervisor: Dr. C. Nongbri
5. Ms. A. B. T. Nongbri: A Study of Special Education Programmes in Meghalaya. Supervisor: Prof. A. Henia
6. Ms. B. Baruah: A Study of the Problems of Higher Education in Arunachal Pradesh. Supervisor: Prof. A. Henia
7. Mr. P. Sonowal. A Study of the Sense of Accountability in relation to Job satisfaction, Socioeconomic status, qualification and Experience of Secondary School Teachers in Sivasagar District, Assam. Supervisor: Dr. B. C. Das.
8. Ms. Dolly Gogoi, “Population Genetics of the Mishmis of Arunachal Pradesh.” Supervisor: Dr. D. K. Limbu.
9. Mr. Hero Tynsong “Plant Diversity and NTFP Management in Community Forests of War Area Meghalaya.” Supervisor: Prof. B.K. Tiwari.
10. Mr. U. Kumar: “Ecology, Conflict and Adaptation of the Jarawa in Nadaman Islands” Supervisor: Prof. Z. H. Qureshi.
11. Mr. A. C. Bora: “Introduction of Small Scale Tea Cultivation and its Impact on Landuse and Socio-economic Conditions of the People of Sivasagar District, Assam.” Supervisor: Prof. B. S. Mipun.
12. Mr. N. Ambikapathy: “Urban Growth and Managing the Solid Waste: A Study in Environmental Sanitation of Shillong Urban Agglomeration” Supervisor: Prof. A. C. Mohapatra.
13. Ms. M. Satpati: “Demographic Consequences of Ethnic Conflict on Santhal Women in Bodo Areas of Assam: A Study of Kokrajhar District.” Supervisor: Prof. D. K. Nayak.
14. A. Datta, Writing Differences: A Feminist Reading of Women in Love, Tess of the D’Urbervilles and The French Lieutenant’s Woman. Supervisor: Dr. Utpala Sewa
15. J. S. Wahlang, Momaday and the Land Ethic: A Study of his Writings with special reference to House Made of Dawn. Supervisor: Prof. T. Ao
16. B. S. Sangma, A’chick (Garo) Theatre: A case for Indian Folk Theatre. Supervisor: Dr. J. Prodhani.

17. L. Marak, Mynth and Archetype in Garo Folk Narrative: A Select Study. Supervisor: Dr. J. Prodhani.
18. P. Barman, The 'Initiated Loss' of Art, Culture and Identity in the Writing of Orhan Pamuk: A Study. Supervisor: Prof. S. Gurudev.
19. G. Ch. Barman, Emerging Dalit Identity & Literature: A Solicit Study of Five Autotrophies. Supervisor: Dr. J. Prodhani
20. K. K. Malakar, "Aacharya Ramchandra Sukla ke Nibandhon ka Vivechnatamak Adhayayan", Supervisor: Dr. S. K. Sharma
21. N. Das, "Nagarajun ke Upniyason mein Nari Vimarsh", Supervisor: Dr. S. K. Sharma
22. A. Kumar, "Aadhunik Hindi Sahitya ke 'Chittrakut' Sangyak Kavyon ka Tulnatmak Adhyayan", Supervisor: Dr. D. K. Choubey
23. B. Thapa, "Vishnudas aur Goswami Tulsidas ki Vichardharon ka Tulnatmak Adhayayan", Supervisor: Dr. D. K. Choubey.
24. Ms. Y. Choudhary: "Study of molecular changes in tumor suppressor genes during Iarcinogenesis". Supervisor Prof. R. N. Sharan.
25. Mr. R. O. Lakadong: "Elucidation of correlation between poly-ADP-ribosylation of cellular protein and human cancers". Supervisor Prof. R. N. Sharan.
26. Mr. N. Pauzakhup: "Screening of medicinal plants for their anti-hyperglycemic property". Supervisor Dr. D. Syiem.
27. Ms. Buromlang Gashnga, Study of soil microflora in two sacred groves of Meghalaya. Supervisor: Dr. H. Kayang
28. Mr. Sudipta Shekhar Das Bhowmik, Micropropagation and conservation of critically endangered *Mantisia spathulata* Schult. and *Mantisia wengeri* Fischer (Zingiberaceae) of northeast India. Supervisor: Prof. P. Tandon, Jt. Supervisor: S. Kumaria.
29. P. K. Prasad - "Studies on the status and molecular characterization of paragonimiasis and other Crustacean-borne trematode zoonoses in North East India". Supervisors: Prof. V. Tandon and Prof. A. Chatterjee.
30. P. S. Yongwai - "Study on the seasonal variations of trace elements in *Garra lamta* (Hamilton) from selected rivers of West Khasi Hills, Meghalaya". Supervisor: Prof. B. Kharbuli.
31. B. Koch - "Antitumor and cytotoxic potentialities of novel series of diakyltin IV dichloride compounds of nitrogen donor ligands on mammalian cells". Supervisor: Prof. A. Chatterjee.
32. G. Pujari - "Study on the role of endogenous glutathione in cellular damage induced by radiation of different qualities". Supervisor: Prof. A. Chatterjee.
33. Ms. Debajani Basumatary, "Synthesis and Structure of Manganese and Ruthenium Complexes Derived From Some Adipoyl Dihydrazones", Supervisor: Prof. R. A. Lal.
34. Mr. Deswyn Gordon, "Radiology and trace elemental studies in some environmental and biological samples from area in and around Domiasiat, West Khasi Hills, Meghalaya", Supervisor: Prof. R.K. Poddar, Joint Supervisor:, Prof. P. Nongkynrih.
35. Mr. Surajit Chakrabarty, "Synthesis, characterization and structural assessment of some transition metal complexes with some Schiff base and N-donor multidentate ligands", Supervisor: Prof. R.K. Poddar.

36. Mr. Sanjesh Choudhury, "Synthetic and Structural Investigation of Copper, Molybdenum and Nickel Complexes Derived from Polyfunctional Disalicylaldehyde Oxaloydihydrazone", Supervisor: Prof. R.A. Lal.
37. Mr. Mithun Chakrabarty, "Synthetic and Structural Investigation of Molybdenum, Nickel and Zinc Complexes Derived from Bis(2-hydroxy-1-naphthaldehyde) succinoyldihydrazone" Supervisor: Prof. R.A. Lal.
38. Ms. Snigdha Chanda, "A Study of Interfacial Properties of Micellar and Microemulsion Systems", Supervisor: Prof. K. Ismail.
39. Mr. Pushpak Mizar, "Development of novel methods for the Synthesis of N-substituted 3,4-dihydro-2H-benzo[1,4]oxazine [benzomorpholine], substituted 7-Methyl-6-7-dihydro-5H-pyrrolo[2,3-d]pyrimidin-2-ol, pyridazines and related Heterocyclic molecules", Supervisor: Prof. B. Myrboh.
40. Ms. Archana Mizar, "Synthesis, Structural investigations and biological evaluation of organotin(IV) complexes of 5-[(E)-2-(aryl)-1-diazenyl]quinolin-8-ol", Supervisor: Dr. T.S. Basu Baul.
41. Mr. Rudolf Manton Manih, "New methods for the synthesis of substituted diazepines and other N-heterocycles", Prof. B. Myrboh.
42. Ms. Dipannita Das, "A study on the self-organizing behavior of surfactants in mixed solvent media", Supervisor: Prof. K. Ismail.
43. Ms. Juthika Das, "Physicochemical studies of Non-aqueous micelles and microemulsions", Supervisor: Prof. K. Ismail.
44. Mr. Siamkhanthang Neihzial, "Quantum chemical studies on hydrogen-bonded base pair and backbone components of novel information-bearing macromolecular duplexes", Supervisor: Prof. R.H. Duncan Lyngdoh.
45. Mr. M. B. Mitri, "Archaeological Investigation in the Khasi and Jaintia Hills: A Study on the Distribution Patterns of Neolithic Sites: (an Ethno-Archaeological Approach)". Supervisor: Dr. C. A. Mawlong.
46. Ms. D. Rynjah, "Pre-Colonial Economy of the Khasi-Jaintia". Supervisor: Prof. F.A. Qadri.
47. Ms. M. Bhattacharjee, "Gender in Silk Industry: A Study of Women Silk Weavers in Sualkuchi, Assam". Supervisor: Prof. M. Sharma.
48. Ms. A. Laldinpuii, Traditional and Modern Democratic Political Values and Process of Governance in Mizoram. Supervisor: Prof. A. K. Baruah.
49. Ms. K. Nakhro, Socio-Political Institutions of the Angamis: A Study of Continuity and Change. Supervisor: Dr. T. T. Haokip.

M.Phil.

- (i) Ms. Bidisha Mahanta, "Women Empowerment in Assam: A Human Development Approach." Supervisor: Prof. P. Nayak
- (ii) Ms. Rupa Bakor Kharshiing, "Public Expenditure and Human Development in Meghalaya." Supervisor: Prof. B. Mishra
- (iii) Mr. Trailokya Dekka, "India's Look East Policy and the North East: Problems and Prospects of Regional Integration." Supervisor: Dr. B. Panda.
- (iv) Mr. Sainkumar Mn Mawiong, "Some Problems and Applications of Computational Algebraic Topology – A Survey", Supervisor: Prof. H.K. Mukerjee.

Awards.

- ☞ Dr. S. K. Sharma was awarded Dr. Maharaj Krishna Jain Smriti Samman by Purvottar Hindi Academy, Shillong in its 53 conference held at Shillong on 23rd May 2009.
- ☞ Dr. S. K. Sharma was awarded Rastra Gaurav Samman by Akhil Bhartiya Rastra Bhasha Vikas Sangathan, Gazibad in its 17th conference held at Gazibad on 25th October 2009.
- ☞ Dr. S.K. Sharma was awarded Vidya Sagar Upadhi by Vikram Shila Hindi Vidyapith, Bhagalpur in its 14th conference held at Bhagalpur on 26th December 2009.
- ☞ Dr. M. P. Pandey was awarded 'Karmayogi Sammari' for contribution in the Development of Bhojpuri Bhasha by Indian Diaspora Centre and 4th Worlds Bhojpuri Sammelan Mauritius on 29th & 30th August, 2009 at Indira Gandhi Centre of Indian Culture, Phonix, Mauritius.
- ☞ Shri. B. P. Tripathi was awarded Ambika Prasad Divya Rajat Alankaran - 2008 for the 'Desi Pahad Pardesi Log' on 20th September 2009 at Bhopal (M.P.)

36. Activities of the Guidance and Counseling Cell:

Highlights of the activities carried out by the CPC during the year:

- (i) AT &T, a multinational telecom company, organized a counseling session for all the students of NEHU on 3rd June 2009 where twenty five students participated.
- (ii) An interactive career counseling session was conducted by IIM, Kolkata at NEHU campus on 5th October 2009 on Doctoral Fellowship Programme of IIM. Forty three students from different streams attended the session.
- (iii) A two-day 'Job Fest' was conducted by Wipro BPO on 18th – 19th November 2009 for all the students in NEHU campus. The initiative taken by this firm is to provide enhanced employment opportunity. Thirty seven students attended the job fest out of which seven were offered initial appointment letters. The selected ones will have to go for an eighteen-week training programme.
- (iv) Indian Air Force organized a "Fast Track Recruitment Drive" on the NEHU campus on 13th March 2010 for engineering graduate (B. Tech. students of DIT & DECE). Fifteen students, who fulfilled the eligibility criteria, participated in the selection process (written test + interview) out of which eleven were selected for further, stage II, examination to be held at IAF Headquarters.

37. Placement service provided to students:

Department of Commerce – Though there is no formal placement programme conducted by the Department, the teachers on a continuous basis provide counseling to the students so as to

enable them compete in the job market. Past statistics suggest that, on average, within a period of 18 months, the graduating students are able to get suitable placement.

Department of Library and Information Science – Alma Mary Rynksai, Rokester Kharbihkhiew, Angie C. Marbianang as Assistant Librarians, State Central Library, Shillong; Bariline Laitman as Reference Librarian (2009), State Central Library, Shillong; Balaker Nongbri as Librarian, Laitumkhrah Presbyterian Higher Secondary School, Shillong; Cliff Dkhar as Senior Library Assistant, RGIIM; Hanya Shylla as Deputy Librarian, Kiang Nongbah College, Jowai; Mangkhollen Singson as Assistant Professor, Pondicherry University, Pondicherry; Larisa Snabi as Senior Library Assistant, Central Agriculture University, Barapani, Meghalaya; Badarishisha Rynthiang as Assistant Librarian, Martin Luther Christian University, Shillong; Mr. F. R. Sumer as Deputy Librarian, NEHU Central Library, Shillong; and Lawaka Kynjing as Assistant Librarian, Gauhati High Court, Shillong Branch.

Department of Management –The Department has a fully networked industry institute interface cell looking after the winter training and final placements of the students. The conscious efforts put in by the cell resulted in some of the biggest corporate recruiters like Price Waterhouse Coopers, WIPRO, ITC, HDFC, AMUL, RGVN, PRADAN, ICICI, etc., showing interest in our Institution and students.

Department of Adult & Continuing Education – The students are placed in NGOs, Schools, Hospitals (as Counselors), UNDP and other organizations.

Centre for Distance Education – The students who had done General and Certificate Courses in Floriculture are engaged in horticulture nursery and flower business of their own and also employed in industries. The students with B.Ed.-SEDE / FC-SEDE qualification have been recognized as a Government of India registered professional and giving their valuable services for the empowerment of Disabled.

Department of Geography – The students of the Department in this year joined various teaching and administrative positions available within the region.

Department of Rural Development and Agricultural Production – The Council for Advancement of People's Action and Rural Technology (CAPART), New Delhi, through its Guwahati Regional Centre has been regularly recruiting the students of the Department for jobs of Young Professionals since the first batch. On average, four students are recruited by the organization every year. In the academic session 2009-10, 5 out of 11 students were recruited by CAPART. Apart from this, some of the students of this batch were absorbed by different non-governmental organizations (NGOs), rural development societies, schools and colleges.

Department of English (Tura) – Students are appointed as (i) Lecturers in Ampati College, Ampati, Garobadha College, Garobadha, Selsela College, Selsela; (ii) Teachers in Higher Secondary School at Bajengdoba, Garobadha, High School at Tura, Bajengdoba, Garobadha, ME School at Tura, Private School at Tura; (iii) News Paper reporter in Tura, (iv) office assistant in Govt. Medical Dep., Sarba Siksha Abhijan; and (v) as field worker and coordinator in NGOs.

Department of Khasi – One in St. Edmund's College, Shillong, one in Khasi Department, NEHU, Shillong, one in St. Mary's College, Shillong, one Synod Higher Secondary School, Shillong and one in the State Government.

Department of Linguistics – T. Temsunungsang (2001 Batch) was recently appointed as Asst. Professor at TEFLU, Shillong Campus.

Department of Biochemistry – 1. Dr. Y. Choudhary, Asstt. Prof., Assam University, Silchar.

2. Mr. D. Bareh, STA, SAIF, NEHU.
3. Mr. S. Chettri, P.O., Meghalaya Rural Bank, Jowai.
4. Mr. D. Marbaniang, SBI, Shillong.
5. Mr. E. Passah, Ranger, Forest Dep., Meghalaya.

Department of Biotechnology & Bioinformatics – Mr. V. V. Borah and D. Susangi joined Aurorobe, Ghaziabad. Ms. A. Das joined Reliance Life Science, Mumbai and M. H. Pyngrope joined Bharat Petroleum, Guwahati.

Department of Botany – Mr. Panna Das joined the Department of Botany, Tripura University, Tripura as Assistant Professor. Mr. Ratul Baishya joined the Department of Botany, Delhi University, Delhi as Assistant Professor. Dr. Jenpuru Kamei joined Dadai Christian College, Manipur as a Lecturer. Dr Nicolee Lyngdoh joined College of Forestry, Central Agricultural University, Pasighat, Arunachal Pradesh as an Assistant Professor. Dr Sudipta Shekhar Das Bhowmik joined IIT, Guwahati as a Research Associate. Dr Shiny Ch. Sangma, joined Bose Institute, Kolkata as a Post Doctorate Fellow. Dr Anusuya Rout joined National Plant Genome Research Centre, New Delhi as a Research Associate.

Department of Zoology – (i) Dr. K. Biswas as an Assistant Professor in Academic Staff College, N.E.H.U., Shillong, (ii) Mr. J. L. Khongsngi as a Senior Technical Assistant in the Department of Zoology, N.E.H.U., Shillong, (iii) Mr. D. A. Rabha as a Lecturer in Zoology, St. Edmunds College, Shillong, (iv) Ms. K. Mihsel as a lecturer in Zoology, St. Anthony's College, Shillong, (v) Dr. A. J. Iangrai as a lecturer in Zoology, Synod College, Shillong.

Department of Chemistry – Dr. Archana Mizar, joined a Post Doctoral Fellowship in the University of Lisbon, Portugal. Dr. Snigdha Chanda joined Donbosco College, Tura, Meghalaya as Lecturer in Chemistry. Dr. Juthika Das joined S.B.M.J. College, Bangalore as Lecturer in Chemistry. Dr. Siamkhanthang Neihshial joined as Post-Doctoral Fellow (Research Associate) at Jawaharlal Centre for Advanced Scientific Research, Bangalore. Dr. R.M. Manih joined UCC, Barapani as Lecturer in Chemistry. Dr. Pushpak Mizar qualified for the IAS 2009 Batch, West Bengal Cadre. Many M.Sc. students passing out from this Department have joined this Department and other Institutes as Research Scholars.

Department of Mathematics – 5 students got teaching jobs in different colleges in Shillong.

Department of Cultural & Creative Studies –

Folkloristic: One student placed in A.I.R., Shillong, two as Research Assistants in Don Bosco Centre for Indigenous Culture, Shillong.

Painting: One in Animation in Mumbai, one self-employed in Art Studio, one as teacher in K.V. NEHU.

Music: Six students are teaching in the Department of Music, Martin Luther Christian University, Shillong, one is teaching in Higher Secondary, two students are teaching (part-time) in the Department of Music, St. Anthony's College, Shillong, one is working in A.I.R., Shillong and another in Sur Bathiang Studio, Shillong.

Department of Electronics & Communication Engineering – Mr. Johnson Teye was selected in Tata Tele services Ltd. in the campus interview/placement held on 19th March 2010. While Mr. Abhijit Bora, Mr. Banajit Boro, Mr. Basab Das, Mr. Santosh Kumar, Mr. Sarfraz Hussain, and Ms. Surabhi Prasad got through the Fast Track Screening Test of Indian Air Force for SBB Examination.

Department of Information Technology – Several organizations/companies like Indian Airforce, Tata Telecom Services Limited (TTSL), Bahniman group of companies visited the School of Technology campus for recruitment and already several students have got selected and many students are in the various stages of selection process.

38. Development Programmes for Non-teaching Staff:

In-house training of staff is conducted from time to time.

39. Best Practices of the Institution:

Transparency in decision making process

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

Department	Collaborating Agencies
Economics	(i) UNDP, India, (ii) Ministry of Rural Development, Government of India, and (iii) NIRD, National Rural Employment Guarantee Scheme (NREGA) of Government of India. National Labour Institute, NOIDA, IIM, Shillong.
Centre for Distance Education	The Centre has collaboration with the Rehabilitation Council of India, New Delhi
Centre for Science Education	Department of Mathematics, NEHU, Shillong. Department of Physics, NEHU, Shillong Department of Physics, Mizoram University, Aizawl.
Department of Environmental Studies	(i) University of Liverpool. U.K. on ‘Studying Linkages Between Ecosystem Services and Poverty Research Project’, (ii) Eckerd College, Florida, USA: Fulbright exchange of faculty under the United States India Education Foundation, (iii) Indian Institute of Science, Bangalore: Climate Change Adaptation in North East Region of India, and (iv) Jadavpur University, Kolkata: Climate Change Adaptation in North East Region of India. Department of Molecular Biology and Functional Genomics, Stockholm University, Stockholm, Sweden.
Department of Rural Development and	(i) NIRD-Regional Centre, Guwahati and

<p>Agricultural Production</p>	<p>NIRD Headquarters, Hyderabad, (ii) CAPART and Institute of Applied Manpower Research, New Delhi, (iii) SIRD, Guwahati, and (iv) ICAR Research Complex, Northeast Hill Region, Barapani.</p>
<p>Department of Biochemistry</p>	<p>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.</p>
<p>Department of Biotechnology and Bioinformatics</p>	<p>Molecular Genetics (DNA repair) has carried out under the Educational & Scientific Exchanges between University of Tuscia, Italy.</p> <p>Molecular Genetics (role of glutathione on cellular radiosensitivity) Institute of Medicine and Allied Sciences, Ministry of Defence, New Delhi.</p> <p>National Bureau of Plant Genetic Resources, New Delhi and Shivaji University, Kolhapur with funding from ICAR/NAIP/World Bank.</p>
<p>Department of Botany</p>	<p>National and International Institutes: Bose Institute, Kolkata, Tocklai Tea Research Association, ICAR, Barapani, LEAD International, UK, Chinese Academy of Sciences (Shenzhen Botanical Garden), University of Ljubljana, Slovenia, KfW and gtz, Germany, United Nations Development Programme, New Delhi.</p>
<p>Department of Zoology</p>	<p>Assam, Zoological Survey of India, Kolkata/Shillong.</p> <p>Department of Functional and Clinical Anatomy, University of Medicine, Mainz, Germany</p> <p>Director, Department of Gastroenterology, Hepatology and Infectious Disease, Heinrich-Heine University of Düsseldorf, Düsseldorf, Germany</p> <p>International Centre for Genetic Engineering and Biotechnology (ICGEB), New Delhi North East Region.</p> <p>Aravind Eye Hospital, Madurai.</p>

Department of Chemistry	Bhabha Atomic Research Centre, Mumbai North-East Institute of Science and Technology, Jorhat, Assam. The University of West Indies. Institut de Chimie, Université de Neuchâtel, Switzerland. Centre for Molecular Simulation, Swinburne University of Technology, Melbourne, Australia. University of Leuven, Belgium. National Centre for Ultrafast Processes, Chennai Universita di Palermo, Italy; Virije Universiteit Brussel, Belgium; University of Zurich, Switzerland; Pharmachemie BV, Haarlem, The Netherlands; Unviersita di Camerini, Italy; The University of Texas at San Antonio, USA; University of Malaya, Malaysia; University of the District of Columbia, USA and Universiti Sains Malaysia, Malaysia. National Centre for Free Radical Research, Pune University. BARC, Mumbai.
Department of Mathematics	University of Gorakhpur and Assam University Silchar.
Department of Physics	(i) Helsinki Institute of Physics, University of Helsinki, Finland, (ii) the Institute of Mathematical Sciences, Chennai, India, and (iii) the Indian Institute of Science, Bangalore. Centre for Science Education, NEHU in the area of Nano Science.
Department of Statistics	Central University of Rajasthan, Jaipur.
Department of Basic Sciences and Social Sciences	Department of Zoology, NEHU, Shillong. BARC, Trombay Department of Zoology, NEHU, Shillong, Department of Geography, NEHU, Centre for Environmental Studies, NEHU, Department of Information Technology, NEHU, Shillong BARC, Trombay Department of Botany, NEHU, and Shillong on Ecological studies on Lohit, Bichom, Dibang and Kapoli -river basins in Arunachal Pradesh and Assam.

41. Any other relevant information:

PART-C

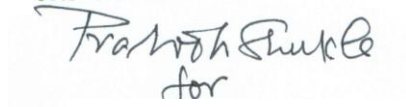
Detail plans of the Institution for the Next Year:

The University shall implement the UGC Regulation 2009 on Ph.D. programme. Necessary steps have been initiated for its implementation.



Prof. S.K. Mishra
Director

Internal Quality Assurance Cell



Prof. A.N. Rai
Chairperson

Internal Quality Assurance Cell