

**North – Eastern Hill University**  
**Addendum of Self Study Report 2016**  
**National Assessment and Accreditation Council**  
**(NAAC)**



पूवोत्तर पर्वतीय विश्वविद्यालय  
पू० प० विवि० परिसर, शिलांग-७९३०२२ (मेघालय)  
**North-Eastern Hill University**  
NEHU Campus, Shillong - 793 022 (Meghalaya)

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## Foreword

North-Eastern Hill University (NEHU), Shillong (Meghalaya) is submitting the addendum to the Self Study Report for the year 2014-2015 and 2015-2016 as required by the NAAC for the third cycle Assessment and Accreditation by the National Assessment and Accreditation Council (NAAC). This addendum report may be viewed with already submitted SSR-2015 to the NAAC, Bengaluru.

This addendum report to the Self Study Report (SSR) has been prepared by the Internal Quality Assurance Cell (IQAC), after collecting and compiling detailed inputs about various criteria, at the departmental and institutional level.

All the stakeholders have sincerely contributed to the preparation of this addendum report within a short time.

This report contains the additional information in connection with Criterion II: Teaching, Learning and Evaluation; Criterion III: Research, Consultancy and Extension and Criterion V: Student Support and Progression.

I deeply appreciate their fruitful contributions.

Prof. S. K. Srivastava  
Vice-Chancellor

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## 2.1 Student Enrolment and Profile

### 2.1.6 Number of students admitted in University departments in 2014 – 2015

2014-2015	Gen	ST	SC	OBC	M/F	Total
	1254	3566	209	260	2498/2791	5289

### 2.1.6 Number of students admitted in University departments in 2015 -2016

2015-2016	Gen	ST	SC	OBC	M/F	Total
	1223	3671	201	176	2456/2815	5271

## 3.1 Promotion of Research

### 3.1.11 Provide details of national and international conferences organized by the University for the year 2014 -2015

#### A. SCHOOL OF ECONOMICS, MANAGEMENT & INFORMATION SCIENCES

Department	International	National
COMMERCE	nil	nil
ECONOMICS	nil	nil
DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE	nil	nil
DEPARTMENT OF MANAGEMENT (Tura Campus)	01 (DEPT OF PLANNING)	03 (ICSSSR, IBDLP, NABARD)
DEPARTMENT OF JOURNALISM & MASS COMMUNICATION	nil	nil
DEPARTMENT OF TOURISM AND HOTEL MANAGEMENT	nil	nil
DEPARTMENT OF AGRIBUSINESS MANAGEMENT AND FOOD TECHNOLOGY (Tura Campus)	nil	nil

#### B. SCHOOL OF EDUCATION

Department	International	National
DEPARTMENT OF ADULT AND CONTINUING EDUCATION	nil	nil
DEPARTMENT OF EDUCATION	nil	02 (ICSSSR, Dept of Education)
DEPARTMENT OF EDUCATION (Tura Campus)	nil	nil
CENTRE FOR DISTANCE EDUCATION	nil	nil

CENTRE FOR SCIENCE EDUCATION	nil	nil
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### C. SCHOOL OF HUMANITIES

Department	International	National
DEPARTMENT OF ENGLISH	nil	nil
DEPARTMENT OF ENGLISH (Tura Campus)	nil	nil
DEPARTMENT OF GARO (Tura Campus)	nil	03 (Dept. of Garo, Archaeological Survey of India)
DEPARTMENT OF HINDI	nil	01 (UGC)
DEPARTMENT OF KHASI	nil	nil
DEPARTMENT OF LINGUISTICS	nil	02 (Language Division)
DEPARTMENT OF PHILOSOPHY		01 (ICPR)

### D. SCHOOL OF HUMAN AND ENVIRONMENTAL SCIENCES

Department	International	National
DEPARTMENT OF ANTHROPOLOGY	nil	02 (Arunachal Institute of Tribal Studies, Rajiv Gandhi University, and Lalit Kala Akademi)
DEPARTMENT OF ENVIRONMENTAL STUDIES	nil	01
DEPARTMENT OF GEOGRAPHY	nil	02 (Indian Society of Geomatics, ICSSR)
DEPARTMENT OF RURAL DEVELOPMENT AND AGRICULTURAL PRODUCTION (Tura Campus)	nil	nil
DEPARTMENT OF HORTICULTURE (Tura Campus)	nil	nil

### E. SCHOOL OF LIFE SCIENCES

Department	International	National
DEPARTMENT OF BIOCHEMISTRY	nil	nil
DEPARTMENT OF BIOTECHNOLOGY & BIOINFORMATICS	nil	01
DEPARTMENT OF BOTANY	nil	02 (DBT)
DEPARTMENT OF ZOOLOGY	nil	nil

**F. SCHOOL OF PHYSICAL SCIENCES**

<b>Department</b>	<b>International</b>	<b>National</b>
DEPARTMENT OF CHEMISTRY	01	01 (Dept. of Chemisry)
DEPARTMENT OF MATHEMATICS	nil	02 (UGC)
DEPARTMENT OF PHYSICS	nil	nil
DEPARTMENT OF STATISTICS	nil	nil

**G. SCHOOL OF SOCIAL SCIENCES**

<b>Department</b>	<b>International</b>	<b>National</b>
DEPARTMENT OF CULTURAL AND CREATIVE STUDIES	nil	02 (MAKAIAS)
DEPARTMENT OF HISTORY	nil	nil
DEPARTMENT OF HISTORY AND ARCHAEOLOGY (Tura Campus)	nil	02 (ICSSR, ICHR)
DEPARTMENT OF LAW	nil	nil
DEPARTMENT OF POLITICAL SCIENCE	01	nil
DEPARTMENT OF SOCIOLOGY	nil	nil

**H. SCHOOL OF TECHNOLOGY**

<b>Department</b>	<b>International</b>	<b>National</b>
DEPARTMENT OF ARCHITECTURE	nil	nil
DEPARTMENT OF BIOMEDICAL ENGINEERING	nil	nil
DEPARTMENT OF BASIC SCIENCES & SOCIAL SCIENCES	nil	01 (Entrepreneurship Development Institute of India)
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING	nil	01 (SAMEER)
DEPARTMENT OF ENERGY ENGINEERING	nil	nil
DEPARTMENT OF INFORMATION TECHNOLOGY	nil	nil
DEPARTMENT OF COMPUTER APPLICATIONS (Tura Campus)	nil	01 (Dept of Computer Application)
DEPARTMENT OF NANOTECHNOLOGY	nil	nil

**3.1.11 Provide details of national and international conferences organized by the University for the year 2015 -2016**

**A. SCHOOL OF ECONOMICS, MANAGEMENT & INFORMATION SCIENCES**

<b>Department</b>	<b>International</b>	<b>National</b>
COMMERCE	nil	nil
ECONOMICS	nil	01(Dept of Economics)
DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE	nil	nil
DEPARTMENT OF MANAGEMENT (Tura Campus)	01(ICSSR,NABAR D)	02(ICSSR,Dept of management)
DEPARTMENT OF JOURNALISM & MASS COMMUNICATION	nil	nil
DEPARTMENT OF TOURISM AND HOTEL MANAGEMENT	01(ATHMCON - 2016)	nil
DEPARTMENT OF AGRIBUSINESS MANAGEMENT AND FOOD TECHNOLOGY (Tura Campus)	nil	nil

**B. SCHOOL OF EDUCATION**

<b>Department</b>	<b>International</b>	<b>National</b>
DEPARTMENT OF ADULT AND CONTINUING EDUCATION	nil	01(AISCCON)
DEPARTMENT OF EDUCATION	nil	01(ICSSR-NERC)
DEPARTMENT OF EDUCATION (Tura Campus)	nil	nil
CENTRE FOR DISTANCE EDUCATION	nil	nil
CENTRE FOR SCIENCE EDUCATION	nil	nil

**C. SCHOOL OF HUMANITIES**

<b>Department</b>	<b>International</b>	<b>National</b>
DEPARTMENT OF ENGLISH	nil	01
DEPARTMENT OF ENGLISH (Tura Campus)	nil	nil
DEPARTMENT OF GARO (Tura Campus)	nil	01(Tribal Literary Forum of India)
DEPARTMENT OF HINDI	nil	02(UGC,Central Hindi Institute)
DEPARTMENT OF KHASI	nil	02(AIPC Meghalaya Chapter,Government of Meghalaya)



DEPARTMENT OF LINGUISTICS	01(CIIL,ICSSR)	01(C-DAC)
DEPARTMENT OF PHILOSOPHY	nil	01(Indian Council of Philosophical Research)

#### **D. SCHOOL OF HUMAN AND ENVIRONMENTAL**

<b>Department</b>	<b>International</b>	<b>National</b>
DEPARTMENT OF ANTHROPOLOGY	nil	nil
DEPARTMENT OF ENVIRONMENTAL STUDIES	nil	nil
DEPARTMENT OF GEOGRAPHY	nil	01
DEPARTMENT OF RURAL DEVELOPMENT AND AGRICULTURAL PRODUCTION (Tura Campus)	nil	01(BIF)
DEPARTMENT OF HORTICULTURE (Tura Campus)	nil	nil

#### **E. SCHOOL OF LIFE SCIENCES**

<b>Department</b>	<b>International</b>	<b>National</b>
DEPARTMENT OF BIOCHEMISTRY	nil	nil
DEPARTMENT OF BIOTECHNOLOGY & BIOINFORMATICS	nil	nil
DEPARTMENT OF BOTANY	nil	01 (Institute of Bioresources and Sustainable Development,)
DEPARTMENT OF ZOOLOGY	01	nil

#### **F. SCHOOL OF PHYSICAL SCIENCES**

<b>Department</b>	<b>International</b>	<b>National</b>
DEPARTMENT OF CHEMISTRY	nil	01(DST, NEHU, UGC-CAS)
DEPARTMENT OF MATHEMATICS	nil	nil
DEPARTMENT OF PHYSICS	nil	nil
DEPARTMENT OF STATISTICS	nil	nil

#### **G. SCHOOL OF SOCIAL SCIENCES**

<b>Department</b>	<b>International</b>	<b>National</b>
DEPARTMENT OF CULTURAL AND CREATIVE STUDIES	nil	02(Indira Gandhi National Centre for the Arts, Central Institute of Indian Languages,)

DEPARTMENT OF HISTORY	nil	nil
DEPARTMENT OF HISTORY AND ARCHAEOLOGY (Tura Campus)	nil	nil
DEPARTMENT OF LAW	nil	nil
DEPARTMENT OF POLITICAL SCIENCE	nil	01
DEPARTMENT OF SOCIOLOGY	nil	01

## H. SCHOOL OF TECHNOLOGY

Department	International	National
DEPARTMENT OF ARCHITECTURE	nil	nil
DEPARTMENT OF BIOMEDICAL ENGINEERING	nil	03(IIT Roorkee)
DEPARTMENT OF BASIC SCIENCES & SOCIAL SCIENCES	nil	nil
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING	nil	nil
DEPARTMENT OF ENERGY ENGINEERING	nil	nil
DEPARTMENT OF INFORMATION TECHNOLOGY	01(I3CS 2015)	nil
DEPARTMENT OF COMPUTER APPLICATIONS (Tura Campus)	nil	01(IIT Kanpur)
DEPARTMENT OF NANOTECHNOLOGY	nil	nil

### 3.2 Resource Mobilization for Research

#### 3.2.3 Provide the following details of ongoing research projects of faculty (2014 - 2015):

##### 1. SCHOOL OF ECONOMICS, MANAGEMENT & INFORMATION SCIENCES

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF MANAGEMENT (Tura Campus)	Comparative study for Micro & small enterprises in Impal West District of Manipur & West Garo Hills district of Meghalaya – The Entrepreneurial Prespective	Dr. K.D. Singh	ICSSR, New Delhi	Rs. 7,00,000/-
	Institutional Credit	Dr. K.D. Singh	NABARD,	Rs.

	for Income & Employment Generation in some select villages in West Garo Hills District, Meghalaya – the Socio Economics Aspects		Mumbai	5,33,000/-
	An evaluative study on the performance and working of Meghalaya rural bank	Prof. J.U. Ahmed	ICSSR, New Delhi	Rs. 8,00,000/-

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF TOURISM AND HOTEL MANAGEMENT	“Impact of Tourism-related Micro and Small Enterprise on Entrepreneur’s Socio- economic Outcomes: A Propensity Score Analysis of Meghalaya”	Dr. Benjamin F. Lyngdoh	Indian Council of Social Science Research, New Delhi	Rs. 400000/- (Rupees four lakh only)
	“Impact of Tourism-related Micro and Small Enterprise on Entrepreneur’s Socio- economic Outcomes: A Propensity Score Analysis of Meghalaya”	Dr. Benjamin F. Lyngdoh	Indian Council of Social Science Research, New Delhi	Rs. 400000/- (Rupees four lakh only)

## 2. SCHOOL OF EDUCATION

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF EDUCATION	Monitoring Institution for SSA for the State of Meghalaya.	Prof. C.Nongbri	(MHRD) New Delhi	Rs.6.30 lakhs
	Monitoring Institution for RMSA for the State of Meghalaya.	Prof. S.M. Sungoh	(MHRD) New Delhi	Rs. 3.60 lakhs
	Development and Problems of Secondary Education in Sikkim.	Dr. Y Bhutia	ICSSR - New Delhi	Rs 6 lakhs

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF EDUCATION (Tura Campus)	Concept Development in Science Subject among Hearing Impaired Children Studying in Integrated and Segregated Educational Settings of Meghalaya.	S.C.Subudhi	ICSSR, New Delhi	Rs. 7,00,000/-
	Studying of Competencies in Organization of Co-Curricular Activities among Elementary School Teachers of West Garo Hills District of Meghalaya'.	S.C.Subudhi	ICSSR-NERC, Shillong	Rs. 1,00,000/-

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
CENTRE FOR SCIENCE EDUCATION	Bamboo Shoot as a Functional Food and Nutraceutical: Extraction of Bioactive Compounds from Juvenile Shoots for Commercial Exploitation and Socio- Economic Development of the Region	Prof. M. S. Bisht (Co- PI)	Department of Biotechnology (DBT)	Rs. 14,38,000/- (NEHU Share)
	Organic Garbage Recycling for the Generation of Livelihood and Zero Waste	Prof. M. S. Bisht (PI)	Department of Science and Technology (DST)	Rs. 13,50,584

### 3. SCHOOL OF HUMANITIES

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF ENGLISH	Major Research Project Gendering Terrorism in	Mala Renganathan	UGC, New Delhi	Rs. 12,00,000

	South Asian Narratives in the post 9/11 Era: A Select Study of Indian-Pakistani-Afghan and Srilankan Writings in English			
	E Content for the e-PG Pathshala Project of UGC and MHRD as part of the National Mission for Education-ICT	Jyotirmoy ProdhaniCoordinator (Performance Studies component)	UGC	
	Module on “Social and Political Philosophy” for UGC e- Pathshala Project of UGC and MHRD as part of the National Mission for Education-ICT	Sukalpa Bhattacharjee Course Content Writer Tagore’sSwadeshi Samaj and the Critique of Nation	UGC	

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF GARO (Tura Campus)	“A Study on Identification of Local Dialects and Possibility of Developing Special Primers for Each Dialect”	Dr. Fameline K. Marak	State Resource Centre, NEHU, Shillong	Rs.50,000/-

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF LINGUISTICS	English to Indian Language Machine Translation(EILMT)-Bodo	Prof. Shailendra Kumar Singh	Ministry of Commu Nications & Infor mation Technology, Indian Government, New Delhi.	Rs.78.11 Lakhs
	Language Documentation of Ruga and Rengma, Tibeto-Burman	Principal Investigator: Dr. Uma Pappuswamy	UGC Major Research Project	Rs.12,49,400

	Languages of North-East India			
	Scheme for Protection and Preservation of Endangered Languages (SPPEL). (Documentation of Atong)	Principal Investigator: Dr. Uma Pappuswamy	Central Institute of Indian Languages, Mysore, Commissioned project, Govt. of India	
	Mother Tongue Survey of India. Phase IV	Coordinators: Dr. Uma Pappuswamy and Mr. Bijoy L. Dhanwar.(completed 3 phases of the project).	Language Division, Kolkata, Commissioned project, Govt. of India	

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF ANTHROPOLOGY	The Art of Pottery Making in Garo Hills, Meghalaya	Q. Marak	Sangeet Natak Akademy, New Delhi	3.00 Lakhs
	A Multi-Disciplinary Survey and Research on Rock Art in North-East India with Special Reference to Garo Basti in Guwahati Region of Assam	Q. Marak (Co-PI)	Lalit Kala Akademi, New Delhi	4.5 Lakhs

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF ENVIRONMENTAL STUDIES	Plant Diversity and Phytosociological Characterisation in Sacred Groves of Meghalaya.	PI: Professor B. K. Tiwari Co PI: Dr K. Upadhaya	Forest and Environment Department, Government of Meghalaya	Rs 20 Lakhs
	Impact of fire and grazing on structure and function of grassland ecosystem of Cherrapunjee,	P.I.: Prof B. K. Tiwari Co PI: U. Shilla	Ministry of Environment and Forests, GOI, New Delhi	Rs 16.36 lakhs)

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF GEOGRAPHY	A Preliminary Study on the Neolithic Culture of Khasi Hills of Meghalaya	Prof. H.J.Syiemlieh (Co-PI)	NEICOD, NEHU	
	'Niangtaser' - a unique biodiversity resource from RiBhoi district of Meghalaya	Prof. H.J.Syiemlieh (Co-PI)	Meghalaya Basin Development Agency, Meghalaya	
	Rainfall-Runoff-Sediment Response near Uranium Mining site, Domiasiat	Prof. H.J.Syiemlieh (PI) Prof. S.Singh (Co-PI) Prof. O.P.Singh (Co-PI)	DAE(BRNS) , Mumbai	20 lakhs
	Desertification Status Mapping of India (Second Cycle) in collaboration with SAC, ISRO, Ahmedabad	Prof. B.S.Mipun	Funded by MoEF, New Delhi,	Rs 17,83,600.00

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF RURAL DEVELOPMENT AND AGRICULTURAL PRODUCTION (Tura Campus)	Prospecting Lactic Cultures from North-Eastern Regions to Develop Functional Fermented Soya Foods with Potential Health Benefits	Pi: Dr. B. K. Mishra Co-Pi: Dr. A.K. Chaurasiya	DBT, Govt of India	Rs. 72.062/-

DEPARTMENT OF HORTICULTURE (Tura Campus)	Bio-prospecting of Lactic Cultures from 'North-Eastern Regions' to Develop Functional Fermented Soy Products with potential health benefits	Dr. A.K. Chaurasiya (Co-PI)	DBT Twinning Project, GOI	72.062 lakh
	Molecular and Morphological diversity analysis of cucurbits of Garo Hills Meghalaya	Mr. A. Barman (PI) Mr. Y.S. Singh (Co-PI)	DBT, Twinning Project, GOI	42, 81, 000

#### 4. SCHOOL OF LIFE SCIENCES

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF BIOCHEMISTRY	Evaluation of the radiosensitizing potential of <i>Ocimum sanctum</i> L. and its constituent on human cancer cell line (2014-2016)	Dr. L. Kma	Science & Engineering Research Board- Department of Science & Technology, New Delhi.	12 Lakhs
	Study of Induction Kinetics of Dicentric(DC), Micronuclei (MN) and Premature Chromatin Condensations (PCC) in the Peripheral Blood Lymphocytes (PBL) of Ethnic Population Groups of the North-East India Following Y- Irradiation Ex Vivo: A Comparative Study	PI: R. N. Sharan	International Atomic Energy Agency (IAEA), Vienna	Approx. 20 Lakhs
	How AMFR Gene Regulates Cell Division and Cancer after Stress Exposure?	PI: A. Mishra; Co-Investigator: R. N. Sharan	BRNS, Department of Atomic Energy	Approx. 23.9 Lakhs
	Study on the potentials of anti-diabetic plants of traditional use for the management of Alzheimer's Disease	Prof. D.Syiem (PI)	Department of Biotechnology, Ministry of Science & Technology, Government of India, Delhi (Twinning programme)	59.64 Lakhs
	Quantitative Coupling of Hydrocarbon Degradation and Bacterial Communities in Petroleum Hydrocarbon	Prof. A. K. Singh	Department of Biotechnology	7.27 Lakhs



	Impacted Sediments Undergoing Bioremediation			
	Strategy development for the mitigation of heavy metals in surface waters around coal mining areas using native cyanobacterial strains	PI: Prof M.B. Syiem (NEHU, Shillong) Co-PI: Prof K. Pakshirajan (IITG, Guwahati)	DBT	34.94 Lakhs
	A detailed study on the potential of locally isolated cyanobacteria in biosorption of heavy metals common in water bodies of Meghalaya.	PI: Prof M. B. Syiem (NEHU, Shillong)	UGC	13.22 Lakhs
	Enhancing functional repertoire of eukaryotic RNA Polymerase II	Dr. T. Tripathi	DBT, INDIA	Approx. 84 Lakhs
	An Investigation into the Role of Solution Variables in Amyloidogenesis	Dr. T. Tripathi	DST, INDIA	Approx. 19 Lakhs
	Biochemical and functional properties of Synechocystis Glutathione S-transferase(s)	Dr. T. Tripathi	DST, India	Approx.50 Lakhs

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF BIOTECHNOLOGY & BIOINFORMATICS	Network Programme for enrichment and update of Plants Chromosome Database for Spermatophytes and Archegoniate	Prof. S.Rama Rao	DBT	26.88 Lakhs
	Characterization of Probiotics of Non-Diary origin from North-East India	Dr. S.R. Joshi	DBT	45.35 Lakhs

DEPARTMENT OF BIOTECHNOLOGY & BIOINFORMATICS	Studies on upgrading of water quality in coal mining areas of Meghalaya an Eastern Coal Mines by Chemisorption and Bioremediation towards mitigation of unscientific coal mining	Dr. S.R. Joshi*	DBT	30.50 Lakhs
	Study of anti-diabetic property and the mechanism of action of the wild edible plants available in North East India	Dr. Suktilang Majaw	SERB, DST	6 .00 lakhs
	Remediation of produced water from NE oil field by Microbial and membrane intervention with modeling of an effluent unit for the recovery of portable water	Dr. Suktilang Majaw *	DBT Twinning programme	32.61 Lakhs
	Study the effect of <i>Potentilla fulgens</i> L. extract on the (AMP-activated protein kinase) AMPK pathway-regulated metabolism in induced-diabetic mice”	Dr. Suktilang Majaw*	DBT BioCAre Programme for Women Scientists	12.70 lakhs
	Characterization of Rhizobia Associated with Native and Wild Legumes of Northeast India with Special Emphasis on Meghalaya	Prof. S.Rama Rao	DBT	7.1 Lakhs
	Whole Genome and Transcriptome Changes as a Consequence of allo and auto polyploidy in <i>Vigna</i> L	Prof. S.Rama Rao	DBT	18.8 Lakhs

DEPARTMENT OF BIOTECHNOLOGY & BIOINFORMATICS	Screening of endophytic fungi having biofuel generation potential from biodiesel plants of Assam	Dr. S. R. Joshi	Oil India Ltd, Assam	9.58 Lakhs
	Genomic and biochemical activity characterization of bacterial community associated with Tungtap - a traditionally fermented fish product of Meghalaya.	Dr. S. R. Joshi	UGC	19.312 Lakhs
	Assessment and Conservation of Microbial Biodiversity in Sacred Groves with Special Reference to plant growth Promoting <i>Bacillus</i> and Related Genera as Influenced by Environmental Degradation	Dr. S. R. Joshi	NEC	10 Lakhs
	Growth kinetics and adaptation behavior characterization of cesium and strontium tolerant bacteria.	Dr. S. R. Joshi	D A E, BRNS	20.86 akhs
	Protein-protein interface targetted drug designing	Dr. Atanu Bhattacharjee	DBT	9.11 Lakhs

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF BOTANY	Chemical ecology	S.K. Barik	DBT	116.26 Lakhs
	Popularization and dissemination of technology of bio-pesticide formulations among the poor and marginal (ST) farmers of weaker sections in North East region.	H. Kayang (PI)	DST New Delhi (Collaborating Project)	116.26

DEPARTMENT OF BOTANY	Survey of endophytic fungi associated with some aromatic plants of North Eastern region and assessment of their effect on chemical profile and biological activity as antimicrobial, aflatoxin inhibitors and antioxidant.	M. S. Dkhar (PI) H. Kayang (Co-PI) Collaborators: Banaras Hindu University	DBT, New Delhi (Twinning Project for NER)	22.01 Lakhs
	Molecular characterization and chemoprofiling of two pharmacologically relevant species of <i>Dendrobium</i> found in Northeast India.	S. Kumaria (PI) M. C. Das (Co-PI) Hiranjit Choudhury (Co-PI) Collaborators: Sunita Shailajan (PI) Herbal Lab., Mumbai	DBT's Twinning programme for the NE.	7.57 Lakhs
	All India coordinated network Research project "Functional genomics approaches in understanding the regulation of synthesis and accumulation of apocarotenoids in saffron crocus ( <i>Crocus sativus</i> L.)"	N. K. Chrungoo, PI and All-India programme Coordinator.	DBT	11.96 lakhs
	Kinetics and mechanism of uptake, translocation and accumulation of natural uranium and fission product <sup>137</sup> Cs in plants	N. K. Chrungoo, PI Collaborator: P.M. Ravi, BARC, PC	DAE-BRNS	Nil
	Preventing Extinction And Improving Conservation Status Of Threatened Plant Species Through Application of Biological Tools, DBT	All India coordinator: S.K. Barik Sub-Project 1: Coordinator: P. Tandon PI: S.K. Barik Co-Pis: N. Venugopal, H. Choudhury, M.C. Das Sub-Project 2: PI: N.K. Chrungoo Co-Pis: S. Kumaria, K. Upadhyaya Sub-Project 15: Coordinator: S.K. Barik Joint Coordinator: N.K. Chrungoo	DBT, New Delhi	33.32 Lakhs

DEPARTMENT OF BOTANY	Conservation of some <i>Paphiopedilum</i> species (orchid) of Northeast India through asymbiotic seed germination and cryopreservation	Meera Chettri Das (PI) S. Kumaria (Co- PI)	UGC, New Delhi	8.118 Lakhs
	All India Coordinated research project on sacred grove ecosystem services of Meghalaya	S. K. Barik (PI) and All India Coordinator and K. Upadhaya (Co-PI)	MoEF	22.57 Lakhs
	Perspective plan for development of Tawang river basin: e-flow assessment, cumulative impact assessment, determination of basin carrying capacity, and landscape level biodiversity management plan.	S.K. Barik, Coordinator	Government of Arunachal Pradesh	49.80 Lakhs
	DBT-Infrastructure	N.K. Chrungoo, PI	DBT	15 Lakhs
	DBT-Empowerment	P. Tandon, PI N.K. Chrungoo, Co-PI	DBT	12.93 Lakhs
	DBT-Biotech Hub	P. Tandon, Coordinator N.K. Chrungoo, Deputy Coordinator	DBT	26.16 Lakhs

Department	Title of the Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF ZOOLOGY	Studies on circadian rhythm of arylalkylamineNacetyltransferase gene expression and its regulation in photoreceptive pineal of the fish, <i>Clarias gariepinus</i>			

DEPARTMENT OF ZOOLOGY	Investigate physiological and metabolic adaptations in migrants <i>Emberiza</i> sp.  No.BT/PR4984/MED/30/752/20  12	Prof. B. B. P. Gupta	Science & Engineering Research Board (SERB), DST, New Delhi	35.29 Lakhs
	Identification of Biomarkers of oropharyngeal cancer prevalent in North-Eastern states of India by whole genome Methylation and Expression profiling	Prof. A. S. Dixit	Department of Biotechnology, Government of India	65.31 Lakhs
	Molecular characterization in the expression of mRNAs for ornithine-urea cycle enzymes and enzyme proteins, multiple glutamine synthetase genes and signalling cascades under hyper-ammonia stress in the air-breathing walking catfish, <i>Clarias batrachus</i>	Dr.Srimoyee Ghosh (PI), Dr.B.Syunnyu (Co-PI), Dr.Arindam Maity (Co-PI), Dr.Sharmila Sen Gupta (Co-PI)	DBT (NER) GOI.	85.20 Lakhs
	Effects of high environmental ammonia on the expression of multiple glutamine synthetase genes, mitogen-activated protein kinases and Hsp70 in the air-breathing mud eel, <i>Monopterus albus</i>	Prof. N. Saha, Co-PI: Dr. M. Santra, NCCS, Pune	Department of Science and Technology, New Delhi	69 Lakhs

DEPARTMENT OF ZOOLOGY	Possible upregulation of ornithine-urea cycle genes and involvement of MAPKs to adapt under hyper-ammonia stress in air-breathing catfish, <i>Clarias batrachus</i>	Prof. N. Saha	University Grants Commission, New Delhi	12.75 Lakhs
	Studies on the Pharmacological Properties of <i>Lysimachia aramosa</i> and its Active Component(s)	Prof. N. Saha	Department of Science and Technology, New Delhi	49.95 Lakhs
	Cyto-toxic Potential of $\alpha$ -viniferin, a Natural Polyphenolic Compound, in Swiss Albino Mice	Prof. B. Roy	UGC-New Delhi	12.78 Lakhs
	Role of kisspeptin and GnIH in regulation of seasonal breeding in the Tree Sparrow. SERB No:SR/SO/AS47/2011, Dated: 23/8/2012	Prof. B. Roy	Department of Science & Technology, New Delhi	49.58 Lakhs
	Identification and development of DNA methylation biomarkers for oral/oropharyngeal cancers prevalent in the North-Eastern states of India	Prof. A. S. Dixit	Department of Science & Technology, New Delhi	49.59 Lakhs
	Identification and development of DNA methylation biomarkers for stomach cancers prevalent in Mizoram, India "	Dr.Srimoyee Ghosh (PI), Dr. B. Shunyu (Co-PI)	DBT, GOI	53.08 Lakhs

DEPARTMENT OF ZOOLOGY	Antibiosis and other Protective Mechanism against Entomopathogens in a Nest Building Eusocial Ant.'	Dr.Srimoyee Ghosh (PI), Dr. B. Shunyu (Co-PI)	DST, GOI	46.54 Lakhs
	'Niangtaser'- an unique insect resource from Ri-Bhoi District'. Meghalaya	Dr. S. R. Hajong	SERC, New Delhi	12 Lakhs
	Epigenetic status of pro/anti apoptotic activity of age-related genes involved in breast cancer (No. BT/253/NE/TBP /2011 dated May 07, 2012)	Dr. S. R. Hajong	Basin Development Authority (MBDA), Shillong	3.51 Lakhs
		Dr. B. Das (PI and Coordinator) and Others	DBT, GoI	123.66 Lakhs (NEH U 36.23 lakhs)

## 5. SCHOOL OF PHYSICAL SCIENCES

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF CHEMISTRY	Phosphorescent Iridium Dendrimers Based on Imidazole Containing Conjugated Dendrons	Dr. M. Velusamy PI	UGC, New Delhi	14,48,600/-
	Synthetic Studies of Selenium dioxide (SeO <sub>2</sub> ), Selenous acid (H <sub>2</sub> SeO <sub>3</sub> ) and Selenic Acid (H <sub>2</sub> SeO <sub>4</sub> ) in Organic Reactions: Synthesis of important Organo- Selenium Intermediates and attempt at Asymmetric Synthesis of substituted Propiophenones and related Reactions.	Prof. B. Myrboh	SERB, DST, New Delhi.	Rs. 49,06,000



DEPARTMENT OF CHEMISTRY	Study of redox potential of novel 1,2,4-trioxane nanoparticles and assessment of their compatibility to radiotherapy	Prof. G. Bez	DAE-BRNS, Mumbai	Rs. 27,44,276
	Mineralization and biotoxicity assessment studies of selected surfactant formulations by some advanced oxidation processes	Dr. M. K. Sahoo.	DAE-BRNS, Mumbai	Rs. 31,18,750
	Development of “lab-on-a- molecule” chemosensor for cation and anion sensing	Dr. S. Khatua,	SERB-DST, New Delhi	Rs.27,60,000 lakhs.
	Synthetic and structural studies projected towards self-assemblies of extended Schiff base and reduced Schiff base amino acetate skeletons incorporating organotin(IV) moieties and evaluation of their cytotoxic potential	Dr. T. S. Basu Baul	CSIR, New Delhi.	RS. 20,90,000
	Synthesis and Characterization of Organotitanium(IV) carboxylates and Evaluation of their Antitumour Properties”	Dr. T. S. Basu Baul	UGC, New Delhi	Rs. 15,30,300
	Rational design, synthetic strategies for developing organometallic anticancer compounds based on organotin and organoiron	Dr. T. S. Basu Baul.	DBT, New Delhi.	Rs. 52,00,000
	Development of AChE-inhibitor for Alzheimer’s disease: screening, designing, synthesis and biological validation using chemical library & traditional North-east Indian plants	Dr. S. Mitra (Co-PI)	DBT, New Delhi.	100.00 Lakh

DEPARTMENT OF CHEMISTRY	Traceless synthesis of coumarin, pyrrole and polyhydroquinoline annulated benzodiazepine, benzazepine and 5, 11-dihydro- benzo-[e]pyrido[3,2-b][1,4] diazepine-6-one derivatives	Dr. A. K. Pal.	SERB-DST, New Delhi	Rs. 26,00,000
	Studies on the Synthetic Utility of Selenium Compounds: Development of New Methodologies for C-C, C-X and C-Se Coupling in Organic Synthesis and Preparation of Novel Organo-selenium Intermediates	Prof. B. Myrboh	CSIR, New Delhi	Rs. 11,25,000
	UV light and transition metal- catalyzed degradation and mineralization studies of some azo dyes by hydrogen peroxide	Dr. M. K. Sahoo	UGC, New Delhi	Rs. 5,00,000

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF PHYSICS	“Continuing EXFOR compilations and participation in the measurement of high energy photon and neutron induced reaction cross-sections of structural materials (e.g Fe,Co,Ni,Cr,Zr etc.) and materials related to medical isotopes (e.g Mo)”	Prof. B. Jyrwa	BRNS	Sanctioned Rs. 24,78,503/-  Received Rs. 10,38,074/-

## 6. SCHOOL OF SOCIAL SCIENCES

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF CULTURAL AND CREATIVE STUDIES	Rice Myths of North East India Area Study	Professor D.L. Kharmawphlang Professor S.K. Nanda Dr. Lapynshai Syiem	UGC – (under UPE Scheme)	Rs. 30 Lakhs

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF HISTORY	UGC-SAP-DSA II	Prof. F.A. Qadri	UGC	8,80,000/-

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF HISTORY AND ARCHAEOLOGY (Tura Campus)	Automatic Recognition of Patterns in Numismatic Data	PI: Dr. Amit Kumar Upadhyay	UGC, New Delhi	11.25 lakhs
	Investigation of Rock Art in North Cachar and in the Surrounding Areas, Assam	PI: Dr. Tilok Thakuria	Lalit Kala Academy, New Delhi	Approved
	Tribal Entrepreneurship: Self employment, Promotion of lively hood of educated unemployed youth with special reference to agency areas of West Godavary and Khammam Districts from Andhra, Telangana regions.	Dr. Doneti Sivaji	ICSSR, New Delhi	5 lakhs

## 7. SCHOOL OF TECHNOLOGY

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF BIOMEDICAL ENGINEERING	To study relief of muscle spasticity in CP kids by employing r-TMS from 2014-16 (Sanctioned on 26.05.14)	Dr. Dinesh Bhatia	SEED Division, Department of Science and Technology (DST), Ministry of Science and Technology, Govt. of India.	Rs. 48.08 lakhs

DEPARTMENT OF BIOMEDICAL ENGINEERING	Design of Artificial hand with artificial fingers from 2014-16 (Sanctioned on 01.09.14)	Mr. Nitin Sahai; Mr. Sudip Paul and Dr. Dinesh Bhatia	Twinning programme, Department of Biotechnology, Govt. of India	Rs. 32.78 lakhs
	Development of an interactive interface for early identification of abnormalities in lower limb muscles of humans (Sanctioned on 20.12.14)	Dr. Dinesh Bhatia (mentor)	National Academy of Sciences (NASI), Allahabad	Rs. 3.25 Lakhs
	Design of Smart FES System for Physically Challenged Person from 2012- 2015 (Sanctioned on 26.02.12)	Dr. Dinesh Bhatia	Department of Science and Technology (DST), Ministry of Science and Technology, Govt. of India	Rs. 42.91 lakhs

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF BASIC SCIENCES & SOCIAL SCIENCES	Phytodiversity and phytosociological characterization of sacred groves in Meghalaya. Sponsored by Department of Environment and Forest, Government of Meghalaya.	PI: B.K. Tiwari CI: K. Upadhaya	Department of Environment and forests, Govt. of Meghalaya. Duration: 2 Yrs (Sept. 2014 to Sept.2016)	Rs.20.00 Lakhs
	Fragmentation of humid subtropical broad-leaved forests and its impact on plant diversity and ecosystem functions in Meghalaya, Northeast India	PI: K. Upadhaya	Ministry of Environment and forests, Govt. of India. Duration: 3Yrs (27.06.2013 to 26.06.2016)	Rs. 35.58 lakhs.

DEPARTMENT OF BASIC SCIENCES & SOCIAL SCIENCES	Molecular characterization and chemoprofiling of two pharmacologically relevant species of <i>Dendrobium</i> found in Northeast India	PIs: S. Kumaria & S. Sailajan Co-PIs: H. Choudhury, S. Pednekar and S. Menon	Department of Biotechnology, Ministry of Science and Technology, Government of India. Duration: 3yrs (27.01.2014 to 26.01.2017)	Rs.26.25 lakhs
	Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools	PI: S. K. Barik et al. Co-PIs: H. Choudhury, N. Venugopal and M. C. Das	Department of Biotechnology, Ministry of Science and Technology, Government of India. Duration: 5yrs (23.02.2012 to 22.02.2017)	Rs. 103.2985 lakhs
	Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools, ,	PI: N. K. Chrungoo Co-PIs: K. Upadhaya and S. Kumaria	Department of Biotechnology, Ministry of Science and Technology, Government of India. Duration: 5yrs (23.02.2012 to 22.02.2017)	Rs. 82.578 lakhs
	Phytochemical profiling, molecular characterization and conservation of <i>Flemingia vestita</i> : Endemic medicinally important plant of Northeast India	PIs:S. Kumaria and S. Shailajan Co-PIs: H. Choudhury, S. Pednekar and S. Menon	Department of Biotechnology, Ministry of Science and Technology, Government of India. Duration:2yrs (2.05.2012 to1.05.2014)	Rs. 30.39 lakhs
	Skill mapping on enhancing employability among final year graduate and post graduate students: (A case study of some selected institutions in Sambalpur and Shillong)	PI: P. Khongji	Funded by the Kusuma foundation, New Delhi in partnership with The Kusuma Trust (UK). Duration: 31.01.2014 to 30.09.2014.	Rs 1.5 Lakh

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING	Development of Prosodically Guided Phonetic Engine for Searching Speech Databases in Indian Languages	Dr. L. J. Singh / Mr. S. K. Dutta	Department of Electronics and Information Technology (Deity), Ministry of Communication and Information Technology, Govt. of India, New Delhi.	29,65,500. The project has received extension upto March 2015, without any additional grants.
	Development and Deployment of Speech based Multi-Level Person Authentication System	Dr. L. J. Singh / Ms. F. Pyrtuh	Department of Electronics and Information Technology (Deity), Ministry of Communication and Information Technology, Govt. of India, New Delhi.	Rs. 15,06,000.00

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF ENERGY ENGINEERING	Mixed Phase Titania / Carbon Nanotube Nanocomposite based Dye Sensitized Solar Cells	Dr S Paul	DST	21,92, 000.00

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF NANOTECHNOLOGY	Study particle size effect and role of sensitizers in the luminescence emission of nanoparticle oxide phosphors	PI	UGC (Aug.2013-July 2016)	6 Lakhs

DEPARTMENT OF NANOTECHNOLOGY	Preparation And Study On Effect/ Role Of Sensitizers On The Photoluminescence Properties Of Lanthanide Doped Gd <sub>2</sub> O <sub>3</sub> And Y <sub>2</sub> O <sub>3</sub> Nanocrystals: Dispersion In Organic Solvents	PI	DST	23 Lakh
	Characterization and investigation of luminescence properties of Zn <sup>2+</sup> and sulphate based nanophosphors doped with lanthanide and metal ions for the feasibility on luminescence dosimetry application	PI	BRNS	25 Lakhs

### 3.2.3 Provide the following details of ongoing research project of faculty (2015 -2016):

#### 1. SCHOOL OF ECONOMICS, MANAGEMENT & INFORMATION SCIENCE

Department	Title of the project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF MANAGEMENT (TURA)	An Evaluation of Micro Finance Scheme in Garo Hills of Meghalaya (A Study on Self help Groups in Three Districts of Garo Hills)	K. C. Biswal	ICSSR, New Delhi	Rs. 15,00,000.00
	A Diagnostic Study On Financial Structure of Tea Estates of Barak Valley of Assam	J. U. Ahmed	ICSSR, New Delhi	Rs.6,00,000/-

	A Comparative Study on Income and Employment Pattern in Patrilineal and Matrilineal Societies of Rural North East India: A Socio-Economic Assessment	D. Bhagat	ICSSR, New Delhi	Rs. 8,00,000/-
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Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF JOURNALISM AND MASS COMMUNICATION	Study of Service Quality, Satisfaction and the Intent to Return among Tourists Visiting the Leading Hotels of Guwahati (Assam) and Shillong (Meghalaya)	Saurabh Kumar Dixit	University Grants Commission, New Delhi	9,69,600/-

## 2. SCHOOL OF EDUCATION

Department	Title of project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF EDUCATION	Development and Problems of Secondary Education in the State of Sikkim	Dr. Yodida Bhutia	ICSSR, New Delhi	Rs. 6,00,000/-
	Crimes against Women and Children	Prof S. M. Sungoh	Police Department, Govt of Meghalaya	Rs 15,00,000/-
	Quality of Higher Education in India- a Study of Internal and External Quality Assurance at the Institutional (2015-16)	Dr B. B. Kharbiryumbai	NUEPA, New Delhi	Rs 4,40,000/-



Department	Title of Project	PI/Co-PI	Funding Agency	Amount
CENTRE FOR SCIENCE EDUCATION	Bamboo Shoot as a Functional Food and Nutraceutical: Extraction of Bioactive Compounds from Juvenile Shoots for Commercial Exploitation and Socio- Economic Development of the Region	Prof. M. S. Bisht (Co-PI)	Department of Biotechnology (DBT)	Rs. 14,38,000/- (NEHU Share)

### 3. SCHOOL OF HUMANITIES

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF GARO (TURA)	Text Book Translation from Hindi to Garo Language (3 books) under SRC, NEHU, Shillong Project	Dr. F. K. Marak	SRC, NEHU, Shillong	

Department	Title of Project	Investigator(s)	Funding Agency	Amount (in Rs)
DEPARTMENT OF LINGUISTICS	Language Documentation of Ruga and Rengma, Tibeto-Burman Languages of North-East India	PI: Dr. Uma Pappuswamy	University Grants Commission	12,49,400/-
	Scheme for Protection and Preservation of Endangered Languages. Documentation of Atong)	PI: Dr. Uma Pappuswamy	Central Institute of Indian Languages, Mysore.	-
	Mother Tongue Survey of India. Phase IV Tibeto - Burman and Austro-Asiatic)	Coordinators: Dr. U. Pappuswamy and B. L. Dhanwar.	Language Division, Kolkata (Govt. of India)	-

#### 4. SCHOOL OF HUMAN AND ENVIRONMENTAL SCIENCES

Department	Title of Project	PI/Co-PI	Funding	Amount
DEPARTMENT OF ANTHROPOLOGY	A Dental Morphometric Examination of the Distinctiveness and Affinities of Austro-Asiatic- and Tibeto-Burman-speaking Ethnic Groups of South Asia	Dr B. Langstieh (Co-PI) & Dr. B. E. Hemphill (PI), Dept of Anthropology, Univ. of Alaska, USA.	Fulbright-Nehru Senior Research Fellowship and College of Liberal Arts, Univ. of Alaska, USA.	USD \$5,000 plus
	The Garo House: Traditional Craftsmanship and Cultural	Dr. Q. Marak (PI)	Sangeet Natak Akademi, New Delhi	Rs.75,000
	Physical Growth and Development of Children in Northeast India: A Public Issue	Dr. D. K. Limbu (PI) & Dr. J. W. Dkhar (Co-PI)	Anthropological Survey of India, Kolkata	Rs.6,00,000

Department	Title of Project	PI/Co-PI	Funding Agency	Amount (Lakhs)
DEPARTMENT OF ENVIRONMENTAL STUDIES	Assessment of Carbon Stock and Carbon Sequestration Potential of Major Land Use Sectors in Meghalaya	Dr. S. S. Chaturvedi	Dept of Science and Technology, GOI, New Delhi	34.62
	Plant Diversity and Phytosociological Characterisation in Sacred Groves of Meghalaya, September, 2014-August, 2016	PI: Professor B. K. Tiwari Co PI: Dr K. Upadhyay	Meghalaya Government, Forest Dept	20.00

	Impact of fire and grazing on Structure and Function of Grassland Ecosystem of Cherrapunjee, 2012-2015	PI: Professor B. K. Tiwari	Ministry of Environment and Forests, GOI	16.36
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Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF GEOGRAPHY	Remote Sensing and GIS Road Network Gap Assessment and Alignment for New Roads in Ri Bhoi District, Meghalaya	Prof. B.S. Mipun	ISRO, Dept. of Space, Govt. of India	Rs. 11.72 lakh
	Rainfall-Runoff-Sediment Response near Uranium Mining site, Domiasiat	Prof. H. J. Syiemlieh (PI) Prof. S. Singh (Co-PI) Prof. O. P. Singh (Co-PI)	DAE(BRNS), Mumbai	20.00
	Desertification Status Mapping of India (Second Cycle) in collaboration with SAC, ISRO, Ahmedabad	Prof. B.S. Mipun	Funded by MoEF, New Delhi,	17.836
	A Preliminary Study on the Neolithic Culture of Khasi Hills of Meghalaya	Prof. H. J. Syiemlieh (Co-PI)	NEICOD, NEHU	
	‘Niangtaser’- A unique Biodiversity Resource from Ri Bhoi District of Meghalaya	Prof. H. J. Syiemlieh (Co-PI)	Meghalaya Basin Development Agency, Meghalaya	

Department	Title of the Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF RURAL DEVELOPMENT AND AGRICULTURAL PRODUCTION (TURA)	Prospecting Lactic Cultures from North-Eastern Regions to Develop Functional Fermented Soya Foods with Potential Health Benefits	PI: Dr. B. K. Mishra Co-PI: Dr. A. K. Chaurasiya	DBT, Govt. of India	Rs. 72,062

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF HORTICULTURE (TURA CAMPUS)	Bio-prospecting of Lactic Cultures from 'North-Eastern Regions' to Develop Functional Fermented Soy Products with Potential Health Benefits	A. K. Chaurasiya	DBT Twinning Project, GOI	72.062 lakh
	Molecular and Morphological Diversity Analysis of Cucurbits of Garo Hills Meghalaya	A. Barman and Y.S. Singh	DBT, New Delhi	42.81 lakh
	SDS-PAGE Characterization of Indigenous Germplasms of Cho- Cho and Jackfruit in Garo Hills of Meghalaya	Arindam Barman	UGC, New Delhi	10.718 lakh

## 5. SCHOOL OF LIFE SCIENCES

Department	Title of Project	PI/Co-PI	Funding Agency	Amount (in INR)
DEPARTMENT OF BIOCHEMISTRY	Interactions of mRNA export factors and nuclear pores characterized and quantified by biochemistry, biophysics and high-resolution imaging	Dr. T. Tripathi (PI)	UGC-Israel Science Foundation	2.1 Crore
	Structural and functional study of the unique parasitic CYP450 in liver flukes	Dr. T. Tripathi (PI)	DST-Russian foundation for basic research	25 lakhs
	Study of Induction Kinetics of Dicentrics (DC), Micronuclei (MN) and Premature Chromatin Condensations (PCC) in the Peripheral Blood Lymphocytes (PBL) of Ethnic Population Groups of the North-East India Following $\gamma$ -Irradiation <i>Ex Vivo</i> : A Comparative Study	Dr. R. N. Sharan	International Atomic Energy Agency (IAEA), Vienna (Austria)	Approx. Rs. 6 lakh/year (for 4 years)
	How AMFR gene regulates cell division and cancer after stress exposure?	Dr. A. Mishra (IIT Rajasthan, Jodhpur); Co Investigator: Dr. R. N. Sharan	Board of Research on Nuclear Science DAE, Mumbai	Approx. Rs. 8 lakh/year (for 3 years)
	Mineralization and biotoxicity assessment studies of selected surfactant formulations by some advanced oxidation processes	Dr. M. K. Sahoo (Dept. of Chemistry, NEHU); Co-Investigator: Dr. R. N. Sharan	Board of Research on Nuclear Science DAE, Mumbai	Approx. Rs. 10 lakh/year (for 3 years)

DEPARTMENT OF BIOCHEMISTRY	Study the effect of <i>Potentilla fulgens</i> L extract on the (AMP- activated protein kinase) AMPK pathway – regulated metabolism in induced diabetic mice.	Dr S. Majaw (Dept. of Biotechnology & Bioinformatics , NEHU); Co-Investigator Prof. D Syiem	Department of Biotechnology, New Delhi.	Rs. 13.5 lakhs
	Quantitative Coupling of Hydrocarbon degradation and Bacterial Communities in Petroleum Hydrocarbon Impacted Sediments Undergoing Bioremediation	Prof. A. K. Singh	Department of Biotechnology, New Delhi	Rs. 6.29 lakhs
	Evaluation of the Radio-sensitizing Potential of <i>Ocimum sanctum</i> L. and its Constituent on Human Cancer Cell Line	Dr. L. Kma	SERB, DST, New Delhi.	Rs. 12 Lakhs
	Biochemical and functional properties of <i>Synechocystis</i> glutathione S-transferase(s)	Dr. T. Tripathi	SERB, DST, New Delhi	50 Lakhs

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF BIOTECHNOLOGY & BIOINFORMATICS	Association between the loss of tumor suppressor genes and deregulation of Mad2 expression in raw areca-nut induced cancer samples	Prof. A. Chatterjee	DST, GoI	36.60 lakhs

DEPARTMENT OF BIOCHEMISTRY	“Network Programme for Enrichment and Update of Plant Chromosome Database for Spermatophytes and Archegoniates”.	Prof. S Rama Rao	DBT, GoI	8.40 Lakhs
	Study the effect of <i>Potentilla fulgens</i> L. extract on the AMP-activated protein kinase) AMPK pathway-regulated metabolism in induced-diabetic mice.	Dr. S. Majaw (PI) Prof. D. Syiem (Co-PI)	DBT, GoI	13.5 Lakhs
	“Network Programme for Enrichment and Update of Plant Chromosome Database for Spermatophytes and Archegoniates”.	Prof. S. Rama Rao	DBT, GoI	8.40 lakhs
	Characterization of Probiotics of Non- Dairy origin from North-East India	Dr. S. R. Joshi	DBT, GoI	45.35 lakhs
	Studies on upgrading of water quality in coal mining areas of Meghalaya an Eastern Coal Mines by Chemisorption and Bioremediation towards mitigation of unscientific coal mining	Dr. S. R. Joshi	DBT, GoI	30.50 lakhs

DEPARTMENT OF BIOCHEMISTRY	Impact Assessment of Jhumming on native plants and soil microbiota and restoration of sustainable jhum Agro – Ecosystem in Northeast India.	Dr. S. R. Joshi	DBT, GoI	55.48 lakhs
	Screening of endophytic fungi having biofuel generation potential from biodiesel plants of Assam	Dr. S. R. Joshi	Oil India Limited Duliajan, Assam	9.58 lakhs
	Remediation of produced water from NE oil field by microbial and membrane intervention with modeling of an affluent unit for the recovery of usable water	Dr. Suktilang Majaw	DBT, GoI	1.85 lakhs
	“Molecular basis of toxicity analysis of locally used <i>alphamethrin</i> on cyanobacteria and algae in soil microflora of Meghalaya”	Dr. N. Chaurasia	DST, GoI	25.0 lakhs
	“Development of Ache-inhibitor for Alzheimer’s disease: Screening, Designing, Synthesis and Biological validation using Chemical Library & Traditional North-East Indian Plants”	Prof. K. Aguan	DBT, GoI	89.68 lakhs
	“miRNA Mutation in Epilepsy- an explorative study”	Prof. K. Aguan	DBT, GoI	81.20 lakhs



Department	Title of the project	PI/Co-PI(s)	Funding Agency	Amount received (Rs in lakhs)
DEPARTMENT OF BOTANY	Convergence of Traditional Knowledge Systems for Integration to Sustainable Development in the Indian Himalayan Region with focus on Climate Change Adaptations.	Prof. S.K. Barik (PI) Dr. K Upadhaya (Co-I)	DST, New Delhi	24.26
	Chemical Ecology of the North East Region (NER) of India: A Collaborative Programme Linking NER and Bangalore Researchers.	Prof. S.K. Barik (PI)	DBT, New Delhi	83.43
	Popularization and dissemination of technology of bio-pesticide formulations among the poor and marginal (ST) farmers of weaker sections in North East region.	H. Kayang (PI)	DST, New Delhi (Collaborating Project)	2.50
	Survey of endophytic fungi associated with some aromatic plants of North Eastern region and assessment of their effect on chemical profile and biological activity as antimicrobial, aflatoxin inhibitors and antioxidant.	M. S. Dkhar (PI) H. Kayang (Co-PI) Collaborators: Banaras Hindu University	DBT, New Delhi (Twinning Project for NER),	13.64

DEPARTMENT OF BOTANY	Molecular characterization and chemo-profiling of two pharmacologically relevant species of <i>Dendrobium</i> found in Northeast India.	S. Kumaria (PI) M. C. Das (Co-PI) Hiranjit Choudhury (Co-PI) Collaborators: S. Shailajan (PI) Herbal Lab., Mumbai	DBT's Twinning programme for the NE.	9.07
	All India coordinated network Research project "Functional genomics approaches in understanding the regulation of synthesis and accumulation of apocarotenoids in saffron crocus ( <i>Crocus sativus</i> L.)"	N. K. Chrungoo, PI and All-India programme Coordinator.	DBT, Govt. of India, New Delhi	7.35
	Kinetics and mechanism of uptake, translocation and accumulation of natural uranium and fission product $^{137}\text{Cs}$ in plants	N. K. Chrungoo, PI Collaborator: P.M. Ravi, BARC, PC	DAE-BRNS	Nil
	All India network project on "Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools Sub project 1A"	S.K. Barik (PI)	DBT, Govt. of India, New Delhi	11.67

DEPARTMENT OF BOTANY	All India network project on “Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools Sub project 2A”	N. K. Chrungoo (PI)	DBT, Govt. Of India, New Delhi	4.93
	All India network project on “Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools Sub project 15A”	S.K.Barik (PI)	DBT, Govt. of India, New Delhi	12.78
	Conservation of some <i>Paphiopedilum</i> species (orchid) of Northeast India through asymbiotic seed germination and cryopreservation	Meera Chettri Das (PI) S. Kumaria (Co- PI)	UGC, New Delhi	Nil
	All India Coordinated research project on sacred grove ecosystem services of Meghalaya	S. K. Barik (PI) and All India Coordinator and K. Upadhaya (Co-PI)	MoEF & CC	7.39
	Perspective plan for development of Tawang river basin: e-flow assessment, cumulative impact assessment, determination of basin carrying capacity, and landscape level biodiversity management plan.	S.K. Barik, Coordinator	Government of Arunachal Pradesh	49.80

Department	Title of Project	PI/Co-PI	Funding Agency	Amount (Rs in lakhs)
DEPARTMENT OF ZOOLOGY	Studies on Circadian Rhythm of Arylalkylamine N-Acetyltransferase Gene Expression and its Regulation in Photoreceptive Pineal of the Fish, <i>Clarias gariepinus</i>	Prof. B. B. P. Gupta (PI)	Science and Engineering Research Board (SERB), New Delhi	35.292 lakhs
	Possible upregulation of ornithine- urea cycle genes and involvement of MAPKs to adapt under hyper-ammonia stress in air-breathing catfish, <i>Heteropneustes fossilis</i> ”,	Prof. N. Saha (PI)	Department of Science and Technology, New Delhi (DST-SERB)	49.95 lakhs
	Cyto-toxic Potential of $\alpha$ -Viniferin, a Natural Polyphenolic Compound, in Swiss Albino Mice	Prof. Bishnupada Roy (PI)	Department of Science and Technology, New Delhi	49.58 lakhs
	Studies on the pharmacological properties of <i>Lysimachia ramosa</i> and its active component(s)	Prof. Bishnupada Roy (PI)	University Grants Commission, New Delhi	12.78 lakhs

DEPARTMENT OF ZOOLOGY	Anticipation in genes: Molecular, physiological and behavioral correlates of response of circa-annual clocks to seasons in night-migratory song birds: Investigation of physiological and metabolic adaptations in migrants	Prof. A. S. Dixit (PI)	Department of Biotechnology, New Delhi	69.884 lakhs
	Identification and development of DNA methylation biomarkers for oral/oropharyngeal cancers prevalent in the North-Eastern states of India	Dr. Srimoyee Ghosh (PI), Dr. B. Shunyu (Co-PI)	DBT, GOI	53.08 lakhs
	Identification and development of DNA methylation biomarkers for stomach cancers prevalent in Mizoram, India	Dr. Srimoyee Ghosh (PI), Dr. Saia Chenkual, (Co-PI)	DST, GOI	46.54 lakhs
	Identification of biomarkers of oropharyngeal cancer prevalent in North-Eastern states of India by whole genome methylation and expression profiling	Dr. Srimoyee Ghosh (PI), Dr. B. Syunyu (Co-PI), Dr. Arindam Maitra (Co-PI), Dr. Sharmila Sengupta (Co-PI)	DBT (NER) GOI	85.20 lakhs

DEPARTMENT OF ZOOLOGY	'Niangtaser' an unique insect resource from Ri-Bhoi District.	Dr. S. R. Hajong (PI) Prof. H. J. Syiemlieh (Co- PI)	MBDA, North East Council	03.51 lakhs
	Epigenetic status of pro/anti apoptotic activity of age-related genes involved in breast cancer	Dr B. Das (PI & Coordinator) and Others	DBT, GoI	36.23 lakhs

#### 6. SCHOOL OF PHYSICAL SCIENCES

Department	Title of Project	PI/Co-PI	Funding Agency	Amount (in Rs.)
DEPARTMENT OF CHEMISTRY	Theoretical Investigations of Hydrogen Bond Interactions Involved in the Reactions of Volatile Organic Compounds present in the Atmosphere	Dr. Biplab Sarkar	SERB, DST	25,00,000
	Synthetic Studies of Selenium dioxide (SeO <sub>2</sub> ), Selenous acid (H <sub>2</sub> SeO <sub>3</sub> ) and Selenic Acid (H <sub>2</sub> SeO <sub>4</sub> ) in Organic Reactions: Synthesis of important Organo-Selenium Intermediates and attempt at Asymmetric Synthesis of a-substituted Propiophenones and related Reactions	Prof. B. Myrboh	SERB, DST, New Delhi.	49,06,000
	Study of redox potential of novel 1,2,4-trioxane nanoparticles and assessment of their compatibility to radiotherapy	Prof. G. Bez	DAE-BRNS, Mumbai	27,44,276

DEPARTMENT OF CHEMISTRY	Mineralization and biotoxicity assessment studies of selected surfactant formulations by some advanced oxidation processes	Dr. M. K. Sahoo.	DAE-BRNS, Mumbai	31,18,750
	Development of “lab-on-a-molecule” chemosensor for cation and anion sensing	Dr. S. Khatua	SERB-DST, New Delhi.	27,60,000
	Synthetic and structural studies projected towards self-assemblies of extended Schiff base and reduced Schiff base amino acetate skeletons incorporating organotin(IV) moieties and evaluation of their cytotoxic potential	Dr. T. S. Basu Baul	CSIR, New Delhi.	20,90,000
	Synthesis and Characterization of Organotitanium (IV) carboxylates and Evaluation of their Antitumour Properties	Dr. T. S. Basu Baul	UGC, New Delhi	15,30,300/-
	Rational design, synthetic strategies for developing organometallic anticancer compounds based on organotin and organoiron	Dr. T. S. Basu Baul.	DBT, New Delhi.	52,00,000/-

DEPARTMENT OF CHEMISTRY	Development of AChE-inhibitor for Alzheimer's disease: screening, designing, synthesis and biological validation using chemical library & traditional North-East Indian plants	Dr. S. Mitra (Co-PI)	DBT, New Delhi.	100,00,000
	Phosphorescent Iridium Dendrimers Based on Imidazole Containing Conjugated Dendrons	Dr. M. Velusamy PI	UGC, New Delhi	14,48,600/-

Department	Title of the Project	PI	Funding Agency	Amount in Rs
DEPARTMENT OF PHYSICS	EXFOR Compilations and participation in the measurement of high energy photon and neutron nuclear reaction cross-sections in structural materials (e,g,Fe, Co, Ni, Cr, Zr etc.) and materials related to medical isotopes (e.g.) Mo	Prof. B. Jyrwa	BRNS-DAE	24,00,000/-



## 7. SCHOOL OF SOCIAL SCIENCES

Department	Title of Project	Investigators	Funding Agency	Amount
DEPARTMENT OF CULTURAL AND CREATIVE STUDIES	Rice Myths of North East India Area Study	Prof. D. L. Kharmawphlang; Prof. S. K. Nanda; Dr. Lapyngshai Syiem	UGC – (under UPE Scheme)	Rs. 30 Lakhs

Department	Title of Project	PI/Co-PI	Funding	Amount
DEPARTMENT OF HISTORY	“Religion and Society in Northeast India”	Prof. F. A. Qadri	UGC under UGC-SAP-DSA II	Nil

Department	Title of Project	PI	Funding Agency	Amount
DEPARTMENT OF HISTORY AND ARCHAEOLOGY (TURA CAMPUS)	Automatic recognition of Patterns in Numismatic Data	Dr. A. K. Upadhyay	UGC, New Delhi	11.25 lakhs
	Tribal Entrepreneurship: Self Employment, Promotion of Livelihood of educated unemployed youth with special reference to agency areas of West Godavary and Khammam Districts from Andhra, Telangana regions.	Dr. D. Sivaji	ICSSR, New Delhi	5.00 lakhs

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF POLITICAL SCIENCE	UGC-SAP, DRC Phase II	Programme Coordinator: Prof. H. Srikanth Co-Programme Coordinator : Prof. K. Debbarma	UGC	Rs. 44 lakhs.

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF SOCIOLOGY	The Father's Mother in a Matrilineal Society	Prof. A. K. Nongkynrih	UGC-DSA-SAP- Phase I, New Delhi	71,000/-
	Forest Produce Rural Livelihood among the Khasi women: A case study of Lawbyrwa village	Dr. Rekha M. Shangpliang	UGC-DSA-SAP- Phase I, New Delhi	54,000/-

## 8. SCHOOL OF TECHNOLOGY

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF BIOMEDICAL ENGINEERING	Design of Neural Network based Pacemaker	Dr. Dinesh Bhatia, PI Mr. Nitin Sahai, Co-PI Dr. Sudip Paul, Co-PI	DBT, Delhi	Rs. 52,00,000/- (approx.) Under sanctioning
	To study relief of muscle spasticity in CP kids by employing r-TMS (in collaboration with NGO UDAAN)	Dr. Dinesh Bhatia, PI	DST, GOI, Delhi	Major (56.84 Lakhs)
	Design of Artificial hand with artificial fingers	Mr. N. Sahai, PI Dr. D. Bhatia, Co-PI Dr. S. Paul, Co-PI	Twinning DBT, GOI, Delhi	Major (32.78 Lakhs)
	Design of pulsed electrical knee stimulator for osteoarthritis (OA) patients	Dr. D. Bhatia, PI Dr. S. Paul, Co-PI	DST, GOI, Delhi	Major (39.07 Lakhs)
	Analyzing Brain Activity in Understanding Cultural Interaction with Substance use and Stress	Dr. D. Bhatia, PI	UGC Kothari Fellowship, GOI	Major (15.27 Lakhs)

Sl. No.	Title of Project	PI/Co-PI	Funding Agency	Amount (Rs)
DEPARTMENT OF BASIC SCIENCES & SOCIAL SCIENCES	Orchid Bioresources of the North-East India Conservation, Database Development and Information Networking	PI: Dr H. Choudhury CI: Dr K. Upadhaya and Dr A. Bhattacharjee	Department of Biotechnology, GoI, New Delhi.	29,38,000/-
	Fragmentation of Humid Subtropical Broad-Leaved Forest and its Impact on Plant Diversity and Ecosystem Function in Meghalaya, Northeast India.	PI: Dr. K. Upadhaya	Ministry of Environment, Forest and Climate Change, Govt of India, New Delhi	35,57,500/-
	Phytodiversity and Phytosociological Characterization of Sacred Groves in Meghalaya.	PI: Prof. B.K. Tiwari Co-PI: Dr. K. Upadhaya	Department of Environment and Forests, Govt of Meghalaya.	20,00,000/-
	Molecular Characterization and Chemoprofiling of Two Pharmacologically Relevant Species of <i>Dendrobium</i> Found in Northeast India	PIs: Prof. S. Kumaria & Dr. S. Sailajan Co-PIs: Dr. H. Choudhury, Dr. S. Pednekar and Dr. S. Menon	Department of Biotechnology, Ministry of Science and Technology, Gov of India.	26,25,000/-
	Preventing Extinction and Improving Conservation Status of Threatened Plants Through Application of Biotechnological Tools	PI: Prof. S. K. Barik <i>et al.</i> Co-PIs: Dr. H. Choudhury, Prof. N. Venugopal and Dr. M. C. Das	Department of Biotechnology, Ministry of Science and Technology, Govt of India.	1,03,29,850/-

	Preventing Extinction and Improving Conservation Status of Threatened Plants Through Application of Biotechnological Tools	PI: Prof. N. K. Chrungoo Co-PIs: Dr. K. Upadhaya and Prof. S. Kumaria	Department of Biotechnology, Ministry of Science and Technology, Govt of India.	82,57,800/-
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Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF ENERGY ENGINEERING	Titanium Dioxide/ Carbon nanotube nano composite dyed sensitized solar cells	Dr. Samrat Paul	DST-SERB	Rs 21,92,000

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF INFORMATION TECHNOLOGY	QoS Provisioning in Internet of Things (IoT)	Md. I. Hussain H. K. Kalita (Co-PI)	Department of Electronics & Information Technology, Govt of India	Rs. 82.4 Lakhs
	QoS Provisioning in WiFi based Long Distance Wireless Networks for Hilly Terrain Rural Areas	Md. I. Hussain	Department of Electronics & Information Technology, Govt of India	Rs. 67.08 Lakhs

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF COMPUTER APPLICATIONS (TURA CAMPUS)	Automatic Recognition of Patterns in Numismatic Data	Anindya Halder	UGC	Rs 11,50,000/-

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF NANOTECHNOLOGY	Characterization and investigation of luminescence properties of Zn <sup>2+</sup> and sulphate based nanophosphors doped with lanthanide and metal ions for the feasibility on luminescence dosimetry application	L. R. Singh	BRNS	23.00 lakhs
	Preparation and study on effect/role of sensitizers on the photoluminescence properties of lanthanide doped Gd <sub>2</sub> O <sub>3</sub> and Y <sub>2</sub> O <sub>3</sub> nanocrystals: dispersion in organic solvents.	L. R. Singh	DST	22.00 lakhs

### 3.2.6 List details of:

(a) **Research projects completed and grants received during 2014 – 2015 (funded by National / International agencies):**

#### 1. SCHOOL OF ECONOMICS, MANAGEMENT & INFORMATION SCIENCES

Department	Title of the Project	PI	Funding Agency	Amount
DEPARTMENT OF ECONOMICS	Levels of Living and Poverty among Socio-religious Groups in India: Analysis of the Correlates and Determinants at the Regional Level	PI: V. Pala Co-Pi: Ms. A. M. W. K. Shadap, St. Edmund's College, Shillong	Indian Council of Social Science research, New Delhi	RS. 18,50,000/-
	Land as a private property: Changing patterns of land relations in tribal societies of North East India	Dr. D. Nongkynrih . Coordinator of the Meghalaya Chapter.	ICSSR, New Delhi.	NA

## 1. SCHOOL OF EDUCATION

Department	Title of the Project	PI	Funding Agency	Amount
DEPARTMENT OF EDUCATION (Tura Campus)	A Study on Learners' Attitude and its impact on Sakshaar Bharat Programme West Garo Hills, Meghalaya. Submitted on October, 2015.	N.S.C. Momin	State Resource Centre North Eastern Hill University, Shillong, Meghalaya	Rs 60,000/-

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
CENTRE FOR SCIENCE EDUCATION	Development of Processing Techniques for Preserving Juvenile Shoots of Nutritionally Rich Bamboos of Sub-Himalayan and North-Eastern Region of India	Prof. M. S. Bisht (Co- PI)	Ministry of Food Processing Industry, New Delhi	Rs. 13,30,000/-

## 2. SCHOOL OF HUMANITIES

Department	Title of the Project	PI	Funding Agency	Amount
DEPARTMENT OF ENGLISH	Module on for UGC e- Pathshala Project of UGC and MHRD as part of the National Mission for Education-ICT	Mala Renganathan Content writer Women's Theatre in India		
	IGNOU Certificate & Diploma Courses on Folk Performances of North East India	Mala Renganathan Content Editor North East Folk Performance Genres		

### 3. SCHOOL OF LIFE SCIENCES

Department	Title of the Project	PI	Funding Agency	Amount
DEPARTMENT OF BIOCHEMISTRY	Biodosimetry Studies using Cytogenetic and Gene Expression Profiles in Human Peripheral Blood Lymphocytes Exposed to Gamma Radiation <i>Ex Vivo</i>	PI: R. N. Sharan; Co-PI: L. Kma	BRNS, Department of Atomic Energy	Approx. 30 Lakhs
	Identification, molecular characterization and structure determination of glutaredoxin system proteins from infectious flukespi	Dr. T. Tripathi	DBT, INDIA	Approx. 43 Lakhs
	Molecular Proteomic Studies of the Glutathione S-transferase Protein System of the Giant Intestinal Fluke- <i>Fasciolopsis buski</i>	Dr. T. Tripathi	ICMR, INDIA	10 Lakhs

Department	Title of the Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF BIOTECHNOLOGY & BIOINFORMATICS	Studies on antitumor and radioprotective potential of <i>Potentilla fulgens</i> Wall ex Hook. and characterization of its active compounds	Prof. A. Chatterjee	DBT	37.80
	Allelic loss of mitotic checkpoint genes and their expression level in oral and esophageal cancer samples of raw betel -nut chewers in Meghalaya”-	Prof. A. Chatterjee	DST	44.50

DEPARTMENT OF BIOTECHNOLOGY & BIOINFORMATICS	Biosystematics of the Genera <i>Vigna</i> , <i>Cucumis</i> and <i>Abelmoschus</i>	Prof. S.R.Rao	ICAR	60.10
	Exploration and germplasm collection of Citrus from the North Eastern India and Characterization of Genetic Variability using Cellular and Molecular Approaches	Prof. S.R.Rao	UGC	NIL
	Development of a bacterial Consortium for Bioremediation of Lead from Solution	Dr. S.R. Joshi	DBT	5.00
	Development of web based microbial database (bacteria, actinomycetes and fungi) of North-East India.	Dr. S.R. Joshi	DEIT	270.30
	Isolation, characterization and anti- cancer property of endophytic fungal	Dr. S.R. Joshi	DBT	43.57

Department	Title of the Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF BOTANY	Flora and fauna of Kylleng Pynden Sohiong Mawthabah uranium rich areas of West Khasi Hills, Meghalaya (Principal Investigator)	H. Kayang (PI)	Board of Research in Nuclear Sciences (BRNS), Mumbai	29.73 Lakhs



DEPARTMENT OF BOTANY	Phytochemical profiling, molecular characterization and conservation of <i>Flemingia vestita</i> : Endemic medicinally important plant of Northeast India.	S. Kumaria (PI) H. Choudhury (Co-PI) Collaborators: Sunita Shailajan (PI) Herbal Lab., Mumbai	DBT's Twinning programme for the NE.	30.39 Lakhs
	All India Coordinated Research Project On Reproductive Biology Of Four Rare, Endangered And Threatened (RET) Tree Species Namely: <i>Aquilaria malaccensis</i> (Thymeleaceae), <i>Gymnocladus assamicus</i> (Caesalpinaceae), <i>Ilex khasiana</i> (Aquifoliaceae) And <i>Illicium griffithii</i> (Illiciaceae) Of North East India Particularly In Arunachal Pradesh And Meghalaya.	Prof. N.Venugopal	MoEF	41.28 Lakhs

Department	Title of the Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF ZOOLOGY	Insect hormones and insulin signaling in silkworm, <i>Bombyxmori</i> under fed and starved conditions: a study at molecular level	Dr.BelaKeshan (PI)	Department of Biotechnology, government of India	55.57 Lakhs

DEPARTMENT OF ZOOLOGY	Comparative Proteomic and Transcriptomic Analyses of PEPCK under the influence of <i>Flemingiavestita</i> -derived Phytoestrogen (Genistein) (No. BT/PR12828/Med/30/221/2009 dated March 22, 2010)	Dr. B. Das (PI) Prof. V. Tandon (Co-PI) Dr. Amit Sharma (Co-PI)	DBT, GoI	130.93 Lakhs
	Analysis of molecular signalling proteins and epigenetic factors responsible for regulation of PEPCK expression (No. BT/103/NE/TBP/2010 dated March 16, 2011)	Dr. B. Das (PI and Coordinator) Prof. V. Tandon (Co-PI) Prof. K. Satyam oorthy (Co-PI)	DBT, GoI	58.20 Lakhs

#### 4. SCHOOL OF PHYSICAL SCIENCES

Department	Title of the Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF CHEMISTRY	Studies on the synthetic utility of selenium dioxide: development of new methodologies for carbon- carbon coupling in organic synthesis and related work	Prof. B. Myrboh	UGC, New Delhi	11,16,800/=
	New synthetic aspects and catalytic study of late transition metal complexes bearing homo and hetero scorpionates and n-heterocyclic carbenes as ligands	Prof. K. M. Rao.	UGC, New Delhi.	6,60,300/=

DEPARTMENT OF CHEMISTRY	Synthesis, reactivity and structural studies of platinum group metal complexes containing $n^5$ and $n^6$ -cyclichydrocarbons and multidentate nitrogen bases	Prof. K. M. Rao.	CSIR New Delhi	7,50,000/=
	Theoretical studies on the kinetics, thermochemistry and reactivity of some selected radical reactions of atmospheric importance	Prof. A. K. Chandra	CSIR, New Delhi.	2,50,000/=
	Spectrophotometric investigation on model nitrogen containing heterocyclic drugs and their interaction with DNA nucleotides	Dr. S. Mitra.	Sponsored by CSIR, New Delhi	13,50,000/=
	Identification, molecular characterization and structure determination of glutaredoxin system protein from infectious flukes	Dr. A. K. Pal (Co-PI)	DBT, New Delhi.	72,45,000/-=

## 5. SCHOOL OF SOCIAL SCIENCES

Department	Title of the Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF HISTORY AND ARCHAEOLOGY (Tura Campus)	Archaeological Investigation on Hollowed Monoliths of North Cachar, Assam	PI: Dr. Tilok Thakuria	Archaeological Survey of India, Guwahati Circle	Rs. 200000
	Indian Beads: History and technology	Co-PI Dr. Tilok Thakuria	Infinity Foundation, USA	\$ 4000

## 6. SCHOOL OF TECHNOLOGY

Department	Title of the Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF BASIC SCIENCES & SOCIAL SCIENCES	Phytochemical profiling, molecular characterization and conservation of <i>Flemingia vestita</i> : Endemic medicinally important plant of Northeast India	PIs: S. Kumaria and S. Shailajan Co-PIs: H. Choudhury, S. Pednekar and S. Menon	Department of Biotechnology, Ministry of Science and Technology, Government of India. Duration: 2yrs (2.05.2012 to 1.05.2014)	Rs. 30.39 lakhs
	Skill mapping on enhancing employability among final year graduate and post graduate students: (A case study of some selected institutions in Sambalpur and Shillong)	PI: P. Khongji	Funded by the Kusuma foundation, New Delhi in partnership with The Kusuma Trust (UK). Duration: 31.01.2014 to 30.09.2014.	Rs 1.5 Lakh

Department	Title of the Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING	NPMASS programme to establish NPMASS MEMS Design Centre (National Centre)*	Dr. L. J. Singh (Co-ordinator)	Funded by Aeronautical Development Agency (ADA) through IISc., Bangalore in the form of licenced software to design and simulate MEMS, and then successful/	Under this project, the Coordinator received software tools for analysing and designing MEMS funded by Aeronautical Development Agency, GoI through IISc.

			realizable systems to fabricate at other laboratories which have facilities to realize the design into the physical systems.	
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Department	Title of the Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF INFORMATION TECHNOLOGY	QoS provisioning in wifi based Long Distance Wireless networks for Hilly Terrain Areas	Md. Hussain/ I. S.K Dutta	DeitY	67.08 Lakhs

### 3.2.6 List details of:

#### (a) Research projects complete and grants received during the year 2015-2016 (Funded by National/International agencies):

##### 1. SCHOOL OF ECONOMICS, MANAGEMENT & INFORMATION SCIENCES

Department	Title of Project	PI/Co-PI	Funding Agency	Amount (Rs.)
DEPARTMENT OF ECONOMICS	Brahmaputra and the Socio-Economic Life of People of Assam	P. Nayak and B. Panda	M/s Tetra Tech ES India Pvt. Limited	5,00,500/-

Department	Title of the Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF MANAGEMENT (TURA)	Comparative study for Micro & Small Enterprises in Impal West District of Manipur & West Garo Hills District of Meghalaya – The Entrepreneurial Prespective	K.D. Singh	ICSSR, New Delhi	Rs. 7,00,000/-

	Institutional Credit for Income & Employment Generation in Some Select Villages in West Garo Hills District, Meghalaya – The Socio Economics Aspects	K.D. Singh	NABAR, Mumbai	Rs. 5,33,000/-
	An Evaluative Study on the Performance and Working of Meghalaya Rural Bank	J.U. Ahmed	ICSSR, New Delhi	Rs. 8,00,000/-

Department	Title of Project	PI/Co-PI	Funding Agency	Amount (in Rs.)
DEPARTMENT OF JOURNALISM AND MASS COMMUNICATION	Impact of tourism-related micro and small enterprise on entrepreneur's socio-economic outcomes: a propensity score analysis of Meghalaya	Benjamin F. Lyngdoh	ICSSR, New Delhi	4,00,000/-

## 2. SCHOOL OF EDUCATION

Department	Title of the Project	PI	Funding Agency	Amount
DEPARTMENT OF EDUCATION (TURA)	'Concept Development in Science Subject among Hearing Impaired Children Studying in Integrated and Segregated Educational Settings of Meghalaya'.	S. C. Subudhi	ICSSR, New Delhi.	Rs 7,00,000/-
	Study of Competencies in Organization of Co-Curricular Activities among Elementary School Teachers of West Garo Hills District of Meghalaya'	S. C. Subudhi	ICSSR-NERC, Shillong.	Rs 1,00,000/-

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
CENTRE FOR SCIENCE EDUCATION	Organic Garbage Recycling for the Generation of Livelihood and Zero Waste	Prof. M. S. Bisht (PI)	Department of Science and Technology	Rs. 13,50,584
	Novel Plant Genotypes for Predicted Climate Change	Prof. M. S. Bisht	UGC	Rs. 4,57,409

### 3. SCHOOL OF HUMANITIES

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF GARO (TURA)	A Study on Identification of Local Dialects and Possibility of Developing Special Primers for Each Dialect with Special Reference to Selsella Block of West Garo Hills	Dr. F. K. Marak	SRC, NEHU, Shillong.	Rs. 50,000/-

Department	Title of Project	PI/Co-PI	Funding Agency	Amount (in Rs)
DEPARTMENT OF KHASI	Translating Indian Folktales into Khasi & Translating Critical texts into Khasi	Streamlet Dkhar	Department of Arts and Culture, Govt. Of Meghalaya	3,00,000/-
	Documentary Film on Khasi Megalithic culture with reference to Monoliths at Nongksehrim	Streamlet Dkhar	Department of Arts and Culture, Govt. of Meghalaya	4,00,000/-

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF PHILOSOPHY	Tribal Worldview(s) of Northeast India (completed 2015)	Dr. Prasenjit Biswas	Indian Council of Philosophical Research, New Delhi.	Rs 4,00,000/-

#### 4. SCHOOL OF HUMAN AND ENVIRONMENTAL SCIENCES

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF ANTHROPOLOGY	Nepal on the Move : Nepalese Migrants in the Coal Mines of Jaintia Hills : Risk, Remittance and Return to Nepal	Dr. G. Ranjan (PI)	DANIDA Fellowship Centre, Denmark	Rs. 40 lakh approx.
	Red Blood Cell Antigen typing among the indigenous populations of Meghalaya and native population of Mumbai	Dr B. Langstieh (Co-PI) in collaboration with Dr. L. N. Lyngdoh (NEI GHRIMS) and Dr K. Vasantha and Dr A. C. Gorakshakar (NIIH, Mumbai)	DBT Twinning Project 2012-2015	Rs. 8.7 lakh
	Art, Artisans, and Culture: A Study on Garo Traditional Craftsmanship	Dr. Q. Marak (PI)	Sangeet Natak Akademi	Rs. 1 lakh

#### 5. SCHOOL OF LIFE SCIENCES

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF BIOCHEMISTRY	A detailed study on the potential of locally isolated cyanobacteria in biosorption of heavy metals common in water bodies of Meghalaya.	PI: Prof M. B. Syiem (NEHU, Shillong)	UGC, New Delhi	Rs. 13.22 lakhs
	Enhancing functional repertoire of eukaryotic RNA Polymerase II	Dr. T. Tripathi (PI)	DBT, New Delhi	85 lakhs



	An investigation into the role of solution variables in amyloidogenesis	Dr. T. Tripathi (PI)	SERB, DST, New Delhi	19 Lakhs
	Identification, molecular characterization and structure determination of glutaredoxin system proteins from infectious flukes	Dr. T. Tripathi (PI)	DBT, New Delhi	44 Lakhs

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF BIOTECHNOLOGY & BIOINFORMATICS	“Whole Genome and Transcriptome Changes as a Consequence of Allo and Auto Polyploidy in <i>Vigna L</i> ”.	Prof. S. Rama Rao	DBT, GoI	10.60 lakhs
	Collection and Molecular Characterization of Mushrooms from Sacred Groves of Meghalaya.	Dr. S. R. Joshi	DST. GoI	25.381 Lakhs
	Assessment and conservation of microbial biodiversity in Sacred Groves with special reference to plant growth promoting <i>Bacillus</i> and related genera as influenced by environmental degradation.	Dr. S. R. Joshi	North Eastern Council (NEC), Government of India	39.00 Lakhs
	Genomic and biochemical activity characterization of bacterial community associated with Tungtap - a traditionally fermented fish product of Meghalaya.	Dr. S. R. Joshi	UGC	19.312 Lakhs

	Protein protein interface targeted drug designing	Dr. Atanu Bhattacharjee	DBT, GoI	6.86 Lakhs
	“Development of Antiepileptic Drugs: based on molecular physiology of epilepsy causing gene EFHC1 and Ayurvedic remediation.	Prof. K. Aguan	DBT, GoI	103.68 lakhs

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF ZOOLOGY	Molecular characterization in the expression of mRNAs for ornithine- urea cycle enzymes and enzyme proteins, multiple glutamine synthetase genes and signaling cascades under hyper-ammonia stress in the air-breathing walking catfish, <i>Clarias batrachus</i>	Prof. N. Saha (PI) Dr. M. Santra, NCCS, Pune (CO-PI)	Department of Biotechnology, New Delhi	105.5 lakhs
	Effects of high environmental ammonia on the expression of multiple glutamine synthetase genes, mitogen-activated protein kinases and Hsp70 in the air-breathing mud eel, <i>Monopterus albus</i>	Prof. N. Saha (PI)	University Grants Commission, New Delhi	12.76 lakhs
	Role of kisspeptin and GnIH in regulation of seasonal breeding in the tree sparrow	Prof. A. S. Dixit	Dept of Science and Technology, New Delhi	48.91 lakhs

	Antibiosis and other protective mechanisms against entomo- pathogens in a nest building eusocial ant.	Dr. S. R. Hajong (PI)	SERB,DS T, New Delhi	12.00 lakhs
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#### 6. SCHOOL OF PHYSICAL SCIENCES

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF CHEMISTRY	Studies on the Synthetic Utility of Selenium Compounds: Development of New Methodologies for C-C, C-X and C-Se Coupling in Organic Synthesis and Preparation of Novel Organo-selenium Intermediates”.	Prof. B. Myrboh	CSIR, New Delhi.	11,25,000/-
	UV light and transition metal-catalyzed degradation and mineralization studies of some azo dyes by hydrogen peroxide	Dr. M. K. Sahoo	UGC, New Delhi	5,00,000/-
	Traceless synthesis of coumarin, pyrrole and polyhydroquinoline annulated benzodiazepine, benzazepine and 5, 11-dihydro-benzo-[e]pyrido[3,2-b][1,4] diazepine-6-one derivatives	Dr. A. K. Pal.	SERB-DST, New Delhi	26,00,000/-

Department	Title of the Project	PI	Funding Agency	Amount in Rs
DEPARTMENT OF PHYSICS	EXFOR Compilation of Nuclear Data	Prof. B. Jyrwa	BRNS-DAE	8,16,150/-

## 7. SCHOOL OF SOCIAL SCIENCES

Department	Title of Project	PI/Co-PI	Funding Agency	Amount
DEPARTMENT OF POLITICAL SCIENCE	Collaborated Project on : Tribal Women's Rights in Northeast India: Access to Representation and Justice (Meghalaya Part)	Prof. K Debbarma	Centre Development and Peace Studies, Guwahati.	Rs 50,000/=

Department	Title of Project	Investigator	Funding Agency	Amount(Rs)
DEPARTMENT OF SOCIOLOGY	The Naga Political Movement from a People's Perspective	Prof. C. L. Imchen	SAP-DSA-I	64,000/-
	The Yahoï Religious Cult as Anti Thesis to ongoing Christian Practice	Prof. I. L. Aier	SAP-DSA-I	70,000/-
	Negotiating the Other: The context of Mizos in Bengaluru	Prof D. V. Kumar	SAP DSA I	89,000/-
	Socio-Economic Importance of Village Markets: An Empirical Exploration	Dr. B. Panda	SAP DSA I	84,000/-
	Migrants and Self-employment in Imphal	Md. Yusuf Khan	SAP DSA I	88,000/-

## 8. SCHOOL OF TECHNOLOGY

Department	Title	PI/Co-PI	Funding Agency	Amount (Rs.)
DEPARTMENT OF BIOMEDICAL ENGINEERING	Design of Smart FES for Physically challenged	Dr. D. Bhatia, PI	DST, Delhi	Major (42.91 Lakhs)
	Development of an interactive interface for early identification of abnormalities in lower limb muscles of humans	Dr. D. Bhatia, Mentor PI	NASI, DST, Delhi, GOI	Minor (3.25 Lakhs)

Department	Title of Project	PI/Co-PI	Funding Agency	Amount (in Rs)
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING	Development of Prosaically Guided Phonetic Engine for Searching Speech Databases in Indian Languages	Dr. L. J. Singh/ Mr. S. K. Dutta	Dept of Electronics & Information Technology (DeitY), Ministry of Communication & Infor-mation Technology, GoI	30,01,500/=
	Development and Deployment of Speech based Multi-Level Person Authentication System	Dr. L. J. Singh/ Ms. F. Pyrtuh	DeitY, Ministry of Communication & Information Technology, GoI	57,03,000/=

### 3.4 Research Publications and Awards

#### 3.4.2 Give details of publications by the faculty (2014 -2015):

##### \* Number of papers in Peer Reviewed Journals (National/International)

##### (i) DEPARTMENT OF ADULT AND CONTINUING EDUCATION

- (1) Sahu, B.P., P.Nongtdu (2014).Coal Mining in Jaintia Hills District of Meghalaya: Work Management and Impact of Mining .*Man and Society, ICSSR, NERC,Shillong*, XI: 96-116
- (2) Sahu,B.P., S.Kumar (2014).Problem and Prospects in Implementation Of SJSY In Haryana. *BSSS Journal of Social Work*, 6 (I), 72-85

## Books:

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

## (ii) CENTRE FOR SCIENCE EDUCATION

- (1) Chongtham, N., Bisht, M. S. and Sharma, V. (2014). Bioactive compounds in bamboo shoots: health benefits and prospects of developing nutraceuticals. In G. J. Sharma and R. N. Saran (Eds) *Current Topics in Redox Biology*, New Delhi, McGraw Hill Education (India) Pvt. Ltd., 82-100.
- (2) Bhattacharjee, D. 2014. On some characterization of arithmetical functions. International Congress of Mathematicians, Seoul 2014, Abstract (Short Communications). 78-79.
- (3) Chongtham, N., Bisht, M. S., Laishram, M. (2013). Bioactive compounds in bamboo shoots: health benefits and prospects for developing functional foods. *International Journal of Food Science and Technology* 49: 1425-1431

## (iii) DEPARTMENT OF EDUCATION

- (1) Gupta, P.K; Rai, Dona. (2014), Attitude of Class X Students towards Mathematics : A Study of Sikkim State. Education: North East – *Journal of the North East India Education Society*, 18(1), June 2014, 1-18.
- (2) Gupta P.K., Dkhar, M. (2014), Intelligence, Adjustment Patterns and Study Habits of High, Average and Low Achievers of Class X Students in Ri-Bhoi District of Meghalaya. *Education: North-East – Referred Journal of the North-East India Education Society*, 18(1), June 2014, 19-32.
- (3) Sungoh, S.M. (2014). General Intelligence (G Factor) of College Students of Shillong, Meghalaya. *Education : North East, Referred Journal of the North-East India Education Society*, 18 (2) Dec. 2014, 59-64
- (4) Thabor, R., and Nongbri, C.,(2014) School Dropout at the Elementary Level in Meghalaya: An Analysis. *Education: North East- Referred journal of the North East India Education Society (NEIES)*, 18(1) June 2014, 68-77.
- (5) Wallang, C., Nongbri, C. (2014): Empowerment through Education: A Status of Khasi Women in the Matrilineal Society of Meghalaya. *Education: North East - Referred Journal of the North East India Education Society (NEIES)*, 18(2) December 2014, 82-92.
- (6) Nongbri, C. (2013-14): A Book Review of Primary Education: The Journey Towards Universalisation. *Education: North East-Referred journal of the North East India Education Society (NEIES)*, 18,(2) December 2014, 103-106
- (7) Syiem I., Nongrum, L. (2014) Social Competence of Secondary School Students in Shillong Town. in an international *Journal of Interdisciplinary and Multidisciplinary Studies-A peer reviewed journal*, 2014, ISSN No.2348-0443,1(6), 268-271.
- (8) Kharbiryumbai , B.B. (2014) Educating Rural women for Entrepreneurship. *International Journal of Education and Humanities: A peer reviewed journal*, June 2014, ISSN No.2320-1762 3(1), 76-79.
- (9) Kharbiryumbai, B.B. (2015). Variation of social customs in the tribes of Meghalaya in a journal titled- *International Journal of Educational Research and Administration (IJERA)*. A peer reviewed Journal. ISSN No: 2229-7162 13(4), 1-5.

- (10) Kharbirymbai, B.B. (2014) Yoga Education in Education and Development (A peer reviewed journal): *An International Journal of Education and Humanities* APH Publishing Corporation.3(1), ISSN 2320-3684 Jan- Dec -2014, 371-374.
- (11) Kharbirymbai, B.B. (2014) Communication Skill for personality Development for Library Profession in Education and Development (A peer reviewed journal): *An International Journal of Education and Humanities* APH Publishing Corporation 3(1) ISSN 2320-3684 Jan- Dec -2014, 375-381.
- (12) Kharbirymbai, B.B. (2014) Communication Skills for Personality Development in Education –North East (*Referred Journal of North East India Education Society*) 18(2) December-2014, ISSN-0973-4902,7-14.
- (13) Kharbirymbai, B.B. (2014) An Evaluative study on the implementation of SSA in Bhawanipur Education Block of Barpeta District of Assam, India in online *Interdisciplinary Research journal*.ISSN-2249-9598, 4(6) ,Nov-Dec 2014, 1-5.
- (14) Bhutia, Y. (2014). Attitude towards Sex Education. *EDUTRACKS*, 13 (11): 43-46.
- (15) Bhutia, Y. (2014). *Are Class X students of Sikkim having Academic Anxiety. Education Today*, V (1): 44-49.
- (16) Bhutia, Y. (2014). Time Management Skill of Post Graduate Students. *International Journal of Research and Development*, 2(2): 50-53
- (17) Rymbai, R. (2014). Twenty First Century Skill in Teaching: The Need of the Present Day Teachers. *Education: North East-Referred Journal of the North East India Education Society*, 18(2), 40-46.
- (18) Amareswaran Naraginti & Nongbri C, (2015) Need of Examination and Evaluation Reforms in Teacher Education at Secondary Level. In the Proceedings of 21<sup>st</sup> Annual Conference-cum-Seminar of the North East India Education Society (NEIES) on the Theme Current Trends and Issues in Education and Research.

#### **Books/Book Chapters/Proceedings**

- (1) Gupta, P.K. (2014). Transforming Teacher Education in India. In S.M. Sungoh & I.Syiem (Eds): *Transforming Teacher Education in the North Eastern Region of India..* Guwahati : Chandra Prakash Publication..ISBN-978-93-244-0389-6, VI-XIV.
- (2) Sungoh, S.M., Syiem, I. (2014). *Transforming Teacher Education in the North Eastern Region of India.*( Eds) , Guwahati: Chandra Prakash Publication , ISBN No. 978-93-244-03896.
- (3) Sungoh, S.M. (2015). *Women's Education in India*. In E. Kharkongor & I.S. Warjri, (Eds.). *Women's Wide Canvas – Issues and Challenges*. Guwahati : EBH Publishers
- (4) Nongbri, C., (2015) Autonomy of B. Ed Colleges in Meghalaya: An Analysis. In S.M. Sungoh & I. Syiem(Eds). *.Transforming Teacher Education in the North Eastern Region of India*. Guwahati: Chandra Prakash Publication , ISBN No. 978-93-244-03896 ,47-57.
- (5) Nongbri, C.(2014) Higher and Technical Education in Meghalaya: An Overview In Dulomoni Goswami (Eds). *Education in North East India*. ISBN No. 978-81-286307-85-4, 101-119.
- (6) Kharbirymbai, B.B. (2014) Development and Quality Requirements in Teacher Education System, In S.M. Sungoh & I. Syiem (Eds). *Transforming Teacher education in North Eastern Region of India.*). Guwahati : Chandra Prakash Publication..ISBN-978-93-244-0389-6, 52-58.
- (7) Kharbirymbai, B.B. (2015) Women Empowerment-Indian Perspective, In E. Kharkhongor & I.S.Warjri (Eds).*Women's Wide Canvas- Issues and Challenges* EBH Publishers(India) Panbazar, Guwahati-781001, 51 ISBN-978-93-83252-45-9 ,42-51.

- (8) Kharbirymbai, B.B (2015) Students Perception Regarding Curriculum of Colleges with Special Reference to Upper Assam. In R.Gohain & R. Phukon(Eds). *Higher Education in India-Post Independence Era*. EBH Publishers (India) Panbazar, Guwahati-781001 ISBN-978-93-83252-43-5,171-178.
- (9) Kharbirymbai,B.B. (2014) Communication Skill for Personality Development for Library Profession. In S.Babu (Ed). *Education in the New Millennium*. APH Publishing Corporation,Darya Ganj, New Delhi- 110002..ISBN-978-93-313-2557-0, 21-30
- (10) Kharbirymbai,B.B. (2015) Pathways for women empowerment in India. In M.K.Shrivastava (Ed). *Context of Women Empowerment in North East India:An Interdisciplinary Standpoint* Lakshi Publishers,New Delhi- 110002. ISBN-978-93-82120-68-1,190-195
- (11) Bhutia, Y. (2014). *Status of Education in Sikkim: bird's eye view*. In Goswami, D. (Ed). *Education in North East India*. Guwahati: DVS Publishers. 162-169.
- (12) Rymbai, R. (2014). Continuing Transformation for Quality Teacher Education. In S.M. Sungoh& I. Syiem. (Eds.) *.Transforming Teacher Education in the North Eastern Region of India*. Guwahati : Chandra Prakash Publication..ISBN-978-93-244-0389-6. 59-76.
- (13) Ashok Kumar Erigala (2014). *Constructivism in Teacher Education-Towards Enhancing the Quality*. In S.M. Sungoh & I. Syiem (Eds.) *.Transforming Teacher Education in the North Eastern Region of India*. Guwahati : Chandra Prakash Publication..ISBN-978-93-244-0389-6, 209-217.
- (14) Vandana, Kushwaha, M. (2014).Education of Muslim girls: Problems and Perspectives. In A. Chaturvedi& R. Kumari (Eds.). *Emerging Dimensions of Higher Education Through Open and Distance Learning (ISBN 978-9382462163)*. Lucknow: Rapid Book Service, 58-64.
- (15) Vandana (2014). Development and Challenges in Teacher Education of Meghalaya. In S.M. Sungoh & I. Syiem (Eds.) *Transforming Teacher Education in the North Eastern Region of India..* Guwahati; Chandra Prakash, ISBN: 978-93-244-0389-6, 176-182.
- (16) Myrthong, E.B. (2014). A Study on Emotional Maturity of Student Teachers. In S.M. Sungoh & I. Syiem (Eds). *Transforming Teacher Education in North Eastern Region of India..* ISBN: 978-93-244-0389-6, 303-315.
- (17) Amareswaran, N. (2014). Need of Physical Education in Schools- A Philosophical Perspective. In A .Sukumar, N .Pradhan,,and F.G. Dkhar (Eds) *New Perspective of Health and Physical Education in School*. NERIE, 93-102.
- (18) Amareswaran, N. (2014). Need of IASEs in North-East India for Quality Teacher Education. In S.M. Sungoh& I. Syiem (Eds).*Transforming Teacher Education in the North Eastern Region of India*. Guwahati: Chandra Prakash Publication, 226-235.

**(iv) DEPARTMENT OF EDUCATION (Tura Campus)**

- (1) Momin, N.S.C. and Marak, C.R (2014). Developing Amongst Primary School Children, the Entrepreneurial Qualities towards Vocationalization. *Education: NorthEast. A Refereed Journal of North EastIndia EducationSociety (NEIES)*. 18 (2), 47-58.
- (2) Subudhi. S. C. (2014). Educating HIV and AIDS Today: A Beautiful Civilization Tomorrow. *Anweshan Journal of Education*, Sonapat, Haryana, 3 (2) &4, (1). 24-31.



- (3) Madhusudan, J.V (2014). Children's Pre-School Participation according to Age, Gender and Place of Residence in India's North-East. *Golden Research Thoughts*, Vol.IV. Issue.VI, 1-7.
- (4) Madhusudan, J.V (2014). 'Some Predictors of Children's Pre-School Participation: Evidences from the States of NE India', *Research Dimension 2*. . (8), 1-7
- (5) Subudhi S. C. (2014). Class Room Development Ability among Elementary School Teachers Teaching at Multigrade Settings in Meghalaya. *International Journal of Applied Management Research*, Vol.2 (1) , 65-72.

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- (1) Momin, N.S.C (2015). Field Experiences of Teachers' Perspective on Continuous Comprehensive Evaluation. In *Transforming Teacher Education in the North Eastern Region of India*. Syiem, I (Ed) Chandra Prakash Publishers Guwahati, 143-153.
- (2) Momin, N.S.C. (2015). Literacy and Entrepreneurship Skill Development in West Garo Hills District of Meghalaya. In *Entrepreneurship: A Drive towards Socio-Economic Development*. D. Singh (Ed). Manas Publishers and Distributors. Jaipur, 31-39

#### **(v) DEPARTMENT OF COMMERCE**

- (1) Shrotryia, V.K. (2014). Attaining Organizational Happiness through Value-Based Management – a conceptual framework. *Advances in Management*, 7(6): 7-11.
- (2) Shrotryia, V.K. (2014). Blue Ocean Entrepreneurship: an idea worth pursuing. *SME World*. 7(9): 122-123.
- (3) Shrotryia, V.K. (2014). General Budget 2014-15 and MSME Sector. *SME World*. 7(8): 24-25.
- (4) Shrotryia, V.K. (2014). Gender Based Budgeting for Holistic Development. *SME World*, 7(7): 22-23.
- (5) Shrotryia, V.K. (2014). Five Challenges the New Regime Faces for the Growth of MSMEs in India. *SME World*. 7(6): 14-15.
- (6) Shrotryia, V.K. (2014). Challenges for Entrepreneurship in Rural India. *SME World*. 7(5): 38-39.
- (7) Shrotryia, V.K. (2014). Successful Unrelated Diversification Strategy: story of a *Chai vala* (tea vendor) in Agartala. *SME World*. 7(4): 48-49.
- (8) Pati, A. P. (2014). Indian MFIs: The Funding Structure and Its Determinants. *The IUP Journal of Bank Management*. XIII (4): 63-83.
- (9) Bhattacharjee, J., Kabra, K.C. (2014). University Funding – A World View. *International Journal of Business & Administration Research Review*. 1(7): 88-98.
- (10) Maji, S.G., Laskar, N. (2014). Corporate Sustainability Performance and Financial Performance: Empirical Evidence from India. *Journal of banking, Information Technology and Management*, 11(2): 62-71.
- (11) Ghosh, S.K., Maji, S.G. (2014). The Impact of Intellectual Capital on Bank Risk: Evidence from Indian Banking Sector. *The IUP Journal of Financial Risk Management*, XI (3): 18-38.
- (12) Das, U., Maji, S.G. (2014). Turning Cost Cutting into Cost Competitiveness: Empirical Evidence from Some Selected Companies. *The Management Accountant*, 49(5): 38-45.
- (13) Maji, S.G., Nandi, S. (2014). Family Control, Executive Compensation and Corporate Disclosure: An Empirical Analysis. *Business Insight: Journal of the Department of Commerce, B.U.*, 1, 89-100

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- (1) Shrotryia, V.K. (2015). Bhutan's Experiments with Gross National Happiness – Leading towards Sustainable Development. In *Proceedings of International Forum on Sustainable Happiness and Sustainable Development* held on 20<sup>th</sup> March 2015 at Rangsit University (Economic & Business Research Center for Reforms, Faculty of Economics), Thailand.
- (2) Maji, S.G., Hazarika, P. (2014). Competition and Bank Risk: Evidence from Indian Banking Sector. In *Global Performance Challenges: Building and Sustaining Competitiveness*. Banerjee, P.; Madhukar, V. & Kumar, A. (Eds.). Excel India Publishers, New Delhi, 28-39.
- (3) Hussein, S., Maji, S.G., Panda, N.M. (2014). Impact of Demographic Factors on Job Satisfaction: A Study on North Refineries Company of Iraq. In *Global Performance Challenges: Building and Sustaining Competitiveness*. Banerjee, P.; Madhukar, V. & Kumar, A. (Eds.). Excel India Publishers, New Delhi, 347-357.
- (4) Hussein, S., Maji, S.G., Panda, N.M., (2014). Budget Efficiency and Firm Performance: Evidence from Iraqi Oil Refineries. In *Changing Finance and Economic Perspective*. Adigal, V.S. & Mehta, M.C. (Eds.). Bharati Publications, New Delhi, 248-255.
- (5) Maji, S.G., Hazarika, P. (2014). Competition in the Indian Banking Sector: A Panel Data Analysis. In *Changing Finance and Economic Perspective*. Adigal, V.S. & Mehta, M.C. (Eds.). Bharati Publications, New Delhi, 287-296.
- (6) Saikia, K., Shrotryia, V.K. (2014). Role of Corporate Social Responsibility in Community Development: A case study of Numaligarh Refinery Limited, Assam, Chapter 23 in *CSR in Community Development* (editor S Rajalakshmi), Shanlax Publications, Madurai, India, 162-172 (ISBN 978-93-80657-23-3)
- (7) Saikia, K., Shrotryia, V.K. (2014). Role of Corporate Social Responsibility in Societal Development in Assam: A study of CSR Activities in Petroleum Sector, Chapter 8 in *New Approach in Strategic and Operation Management* (eds RS Rawat, Manju & R Dwivedi), Bharti Publications, New Delhi, India, 48-55 (978-93-81212-81-3).

#### **(vi) DEPARTMENT OF ECONOMICS**

- (1) Nayak, P., Mahanta, B. (2014). Women Empowerment in Assam. *PCC Journal of Economics and Commerce*. 6(6): 61-74.
- (2) Nayak, P., Mahanta, B. (2014). Human Development in North Eastern Region of India: Issues and challenges. In *Poverty and Human Development: Issues and Challenges*. B. Mahanta and A. Konwar (eds.) Doomsdooma College, Assam, 1-28.
- (3) Nayak, P., Mishra, S.K. (2014). A State Level Analysis of the Status of Social Sector in India. In the proceedings of the International Conference on *Social sector development: Issues, challenges and policy*. Institute of Public Enterprise, Hyderabad
- (4) Panda, B. (2014). Impact of Budget on North East: A Critical Analysis. *Eastern Panorama*, 22: 42-46.
- (5) Thangkhiew, D.W., Suresh, P.S. (2014). Determinants of Fixed Investment Behavior in Iron and Steel Industry in India: An Econometric Analysis. *Asia Pacific Journal of Applied Finance*. III(8), 7-30.
- (6) George, Saji., Suresh, P.S. (2015). Noise Trading: An Analysis of Retail Trading in the Indian Equity Market. 2(1), January-March, 28-38.
- (7) Umdor, S. (2014). Social Audits of MGNREGA in Meghalaya, *India International Research Journal of Social Sciences*, 3(4), 12-16

- (8) Nongkynrih, D., Chakrabarty, Minakshi. (2014). Female Child Labour in India: An Econometric Analysis, *Child Hope*, Newsletter on Child Labour, V. V. Giri National Labour Institute, Noida, 3(12-15), 6-11.
- (9) Nongkynrih, D. (2014). Land Relations in the Tribal Societies of Meghalaya: Changing Patterns of Land Use and Ownership, *Social Change and Development*, XI(2), 2014, 1-20.
- (10) Tariang, W. (2015). "Socio-Economic Status of Men and Women in A Matrilineal Society", *EPRA International Journal of Economic and Business Review*, Vol(3), Issue-4, 52-57.
- (11) Pala, V. (2014). Combating Child Labour: The Need for a Holistic Approach, *The NEHU Journal*, 12(2), July-December, 27-40.
- (12) Thangkhiew, D.W., Suresh, P.S. (2014). Determinants of Fixed Investment Behaviour in Iron and Steel Industry in India: An Econometric Analysis, *Asia Pacific Journal of applied Finance* III. Issue-8.
- (13) Xie, J.C., Mishra, S.K., Kar, T., Xie, R.H. (2014). "Generalized Interatomic Pair-Potential Function", *Chemical Physics Letters*. 605-606 (June 17, 2014): 137-146.
- (14) Nayak, P., Ray, Santanu. (2014). Inter District Disparities in Meghalaya: A Human Development Approach, in the proceedings of the *International Conference on Sustainable Development and Ethnic Minority Poverty Reduction in Mountainous Regions*. Thai Nguyen University, Thai Nguyen, Viet Nam.
- (15) De, U. K. (2015). "The Need for Climatic Analysis and Weather Forecasting", *Journal of Climatology & Weather Forecasting*, 3(1): 1-2.
- (16) De, U. K., Chauhan, K. (2015). "Degradation of Forest and Biodiversity in Sariska National Park, India and the Responsible Factors", *International Journal of Environment and Sustainable Development*, 14(2) (ISSN: 1478-7466 (Online), 1474-6778 (Print)).
- (17) De, U.K., Pal, M., Bodosa, K. (2015). "Global Warming and the Pattern of Overall Climate Changes in Sub-Himalayan Assam Region of North-East India", communicated to *International Journal of Ecological Economics and Statistics*, 36(3) (ISSN: 0973-7537 (Online), 0973-1385 (Print)).
- (18) Maji, S. G., De, U. K. (2015). "Regulatory Capital and Risk of Indian Banks: A Simultaneous Equation Approach", *Journal of Financial Economic Policy*, 7(2), 140-156 (ISSN: 1757-6385).
- (19) De, U.K., Chauhan, K. (2014). "Impact of Degradation of Forest on the Livelihood of Inhabitants in Sariska Tiger Reserve, India", *Biodiversity Watch*, 3: 103-124 (ISSN No: 2438-4497).
- (20) De, U. K., Bodosa, K. (2014). "Crop Diversification in Assam and Use of Modern Inputs under Changing Climatic Condition", *Journal of Climatology & Weather Forecasting*, 2(2): 1-14; <http://dx.doi.org/10.4172/2332-2594.1000120> (ISSN: 2332-2594).
- (21) De, U. K. (2014). "Ethnic Conflict in India's North-East: Complexities of Causes and Consequences", *Indian Journal of Social Development*, 14(2): 147-160 (ISSN: 0972-3692).
- (22) Thangkhiew, D.W. (2015). Determinants of Inventory Investment Behaviour in Iron and Steel Industry in India. An Econometric Analysis, *International Journals of Advance Research in Computer Science and Management Studies*, Vol.No.03, Issue No. 1, January 2015, ISSN No. : 2321 – 7782 (online), ISSN No. : 2347 - 1778 (print)

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- (1) De, U.K. (2014). "Empowerment of Rural People through MGNREGA with Special Emphasis to Women in Morigaon, Assam", in A. Mandal and S. S. Laha (Eds.) *Dynamics of Development and Discontent*, Bookwell: Delhi, 101-136 (ISBN: 978-93-80574-65-3).
- (2) De, U.K. (2014). How Successful is India's Look East Policy under Globalisation?, In S. K. Datta and A. Sengupta (Eds.) *Development, Environment and Sustainable Livelihood*, Cambridge Scholars Publishing, 148-172, (ISBN (10): 1-4438-6305-X, ISBN (13): 978-1-4438-6305-6).
- (3) Bharati, P., De, U.K., Pal, M. (2015). "A Modified Diversity Index and its Application to Crop Diversity in Assam, India", Proceedings of The 2nd ISM International Statistical Conference 2014 with Applications in Sciences and Engineering (ISM-II), held in Pahang, Malaysia during 12<sup>th</sup> -14<sup>th</sup> August 2014, 19-29, (ISBN: 978-0-7354-1281-1) (doi: 10.1063/1.4907421).
- (4) Ghosh, B.N., De, U.K. (2015). "Involvement of Women in Natural Resource Collection: An Experience from Rural Jharkhand in India", Proceedings of The 2nd ISM International Statistical Conference 2014 with Applications in Sciences and Engineering (ISM-II), held in Pahang, Malaysia during 12<sup>th</sup> -14<sup>th</sup> August 2014, 476-486, (ISBN: 978-0-7354-1281-1) (doi: 10.1063/1.4907483).
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- (15) Kharbiryumbai, B. B. (2015) Integration of New ICT Trends in teaching Learning Environment, *Indian Journal of Experimentation and Innovative Education* 4(4): ISSN-2278-1730
- (16) Kharbiryumbai B. B. (2015) Impact of Climate Change on the Developing Countries, *Indian Journal of Educational Research and Innovation* 5(6): 1-6. ISSN-2231-0495
- (17) Bhutia, Y. & Subba, N. (2015) Semester System of Evaluation in the Colleges of Sikkim. *Higher Education for the future*. 2(1): 19-31. Sage Publications.
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- (2) Nongbri, C., (2015). Financing Infrastructural Facilities in Science Education at The Secondary Level in Meghalaya. Book Chapter In: *Reasserting Basic Sciences*. M.N. Bhattacharjee, E.N. Dkhar, D.L. Buam, I.S. Warjri, (Eds.)
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- (2) Momin, N.S.C., Das, K. (2015). Understanding the Higher Secondary Students' Guidance Needs, Stress and Academic Achievement for Transition to Higher Education: A Study of Garo Hills of Meghalaya, India. *International Journal of Informative and Futuristic Research* 3: 921-926. ISSN 2347-1697.
- (3) Momin, N.S.C., Marak, C.R. & Das, K (2015). Identifying Hindrances in Effective Implementation of Sakshaar Bharat Programme in Meghalaya. *International Journal of Informative and Futuristic Research* 3: 1230-1237. ISSN 2347-1697.
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- (1) Subudhi S.C. (2015). *Teacher Education for Special Schools*; Lakshi Publisher & Distributer, New Delhi, ISBN: 978-93-82120-67-4.
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- (2) Roy, P., Pati, A. P. (2015). Exploring Mission Drift Dimensions in Indian Micro Finance Institutions. Pranjan- *Journal of Social and Management Science*. XLIV (2): 139-163.
- (3) Sharma, P., Pati, A. P. (2015). Subsidized Microfinance and Sustainability of Self-Help Groups (SHGs): Observations from North East India. *Indian Journal of Finance*. 9 (5):7-19.
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- (2) Nayak, P. (2015). Methodological Developments in Human Development Literature. *International Journal of Applied Management Research*. 2(2): 1-22.
- (3) Mahanta, B. and Nayak, P. (2015). Gender Inequality in North East India. *PCC Journal of Economics and Commerce*. 7: 1-13.
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- (5) Lhoungu, V., and Mishra, B. (2016). Government Expenditure and Its Impact on Economic Growth: A Case Study of Nagaland State. *EPARA International Journal of Economic and Business Review*, 4(3): 17-29.
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  - (2) R. K. Bania, J. Kalita (2015). A comprehensive review study on Big Data. *International Journal of Computer Engineering and Applications* 9(12): 83-91

**3.4.3. Give details of faculty serving on the editorial boards of national and international journals (2014 - 2015).**

**Editorial Boards:**

- |                                     |  |
|-------------------------------------|--|
| <b>Prof. Debashis Bhattacharjee</b> | : ‘Mathematics and Statistics’ Horizon Research Publishing, USA  |
| <b>Asst. Prof. Rimi Nath</b>        | : Member Editorial Board: The Age of Asian Migration: Continuity, Diversity and Susceptibility (Volume 1). Cambridge Scholars Publishing, U.K. (2014).   |
| <b>Prof. Mala Renganathan</b>       | : Member, Editorial Board, IJELLS, Tirunelveli.  |
| <b>Prof. R. Khongsdier</b>          | : Member of the Editorial Board of the Journal of Life Sciences and The Anthropologist   |
| <b>Asst. Prof. Sudipta Ghosh</b>    | : Wyno Academic Journal of Biological Sciences.  |
| <b>Asst. Prof. L. Kma</b>           | : Editorial Board Member-Journal of Radioprotection Research, New York, USA.   |
| <b>Prof. N.K. Chrungoo</b>          | : Member, Editorial Board, <i>Fagopyrum</i> , International Buckwheat Research Association   |
| <b>Prof. S.K. Barik</b>             | : Member, Editorial Board, <i>Journal of Biodiversity</i> .  |
| <b>Prof. B.B.P. Gupta</b>           | : Proceedings of Indian National Science Academy (Pinsa: Biological Sciences), INSA, New Delhi   |
| <b>Prof. A. K. Yadav</b>            | : Member Editorial Board of Journal of Parasitic Diseases (Springer).<br>Served as (i) the Editorial Board Member of journal of parasitic diseases (Springer: (ii) the adhoc reviewer panel of Journal of Ethnopharmacology (Elsevier, Ireland).                                     |
| <b>Assoc. Prof. Dinesh Bhatia</b>   | : Editorial Board Member & Reviewer of the Journal of Advances in Biomedical Engineering and Technology (JABET) since May, 2014.<br><br>- Invited Reviewer/ Editorial Board member for the American Association for Science and Technology (AASCIT) ISSN: 2375-3803, Newcastle, USA. |



### 3.4.3. Give details of faculty serving on the editorial boards of national and international journals (2015 - 2016).

#### Editorial Boards

<b>Asst Prof. Dokatchi Ch. Marak</b>	: Member, Editorial Board, <i>Nokdangni Ripeng</i> , Tura, Meghalaya. 2015-16
<b>Prof. D. K. Choubey</b>	: Member of Editorial committee for <i>Bharatavani Project for Hindi Language</i> w.e.f. 3rd March, 2016 by Govt. of India MHRD, Department of Higher Education, CIIL, Mysore
<b>Prof. Streamlet Dkhar</b>	: Nominated as a Member of the editorial Board of <i>Journal of Humanities &amp; Social Sciences</i> (JHSS) ISSN 094-8806, Dodhpur, Aligarh, UP
<b>Prof. R. Sharma</b>	: Editorial board member: of (a) <i>Biogerontology</i> , Springer, The Netherlands; (b) <i>International Journal of Developmental Neurosciences</i> , Elsevier, USA; and (c) <i>Frontiers in Genetics of Aging</i> , Science Park, Switzerland.
<b>Prof. D. Syiem</b>	: Editorial Board, Bodoland University, an open online science journal entitled "Bio-Science Letters" (bi-annual), 2015 onwards
<b>Prof. H. Kayang</b>	: Member of Editorial Board of Science Vision, an official publication of the Mizo Academy of Sciences for the term 2014 -2016.
<b>Dr. Sudip Paul</b>	: Editorial Board Member of <i>International Journal of Biomedical Engineering and Science</i> .

### 3.7 Collaboration (2014 - 2015)

#### 3.7.1 How has the University's collaboration with other agencies impacted the visibility, identity and diversity of activities on campus? To what extent has the University benefitted academically and financially because of collaborations?

1. Prof. U.K. De of Department Economics was a Visiting Scientist of Indian Statistical Institute, Kolkata for the period 22/12/2014 to 10/02/2015.
2. The Department of Adult and Continuing Education collaborated with: (i) Nehru Yuva Kendra Sangathan: Shillong, (ii) Nehru Yuva Kendra Sangathan: Nongstoin, (iii) UGC-ASC: NEHU, Shillong, (iv) Nongstoin College, (v) Eastern Jaintia College, (vi) Women's College, (vii) Tezpur University, (viii) ICSSE (NERC), (ix) Bethany Society, (x) Revenue Department (Disaster Management) under Government of Meghalaya, (xi) Social Welfare Department, Govt. of Meghalaya, (xii) RGNIYD, NSS Regional Centre Guwahati, (xiii) NSS Cell: NEHU, (xiv) Women Cell: NEHU, (xv) Women College, (xvi) Lady Keane College, (xvii) World Vision, (xviii) Seng Kynthei Mawkyrwat.
3. Orientation Programme on Planning and Management of Higher Education Institutions for College Principals of North Eastern Region from 16th\_20th June 2014 was organised by National University of Educational Planning and

- Administration (NUEPA) New Delhi in Collaboration with Department of Education, North-Eastern Hill University (NEHU), Shillong held in the Conference Hall, New Guest House, NEHU, Shillong.
4. Workshop organised by Department of Education, North-Eastern Hill University (NEHU), Shillong in Collaboration with Assessment Survey Evaluation Research (ASER) Delhi on 29th & 30th October, 2014.
  5. Workshop organized by Department of Education, North-Eastern Hill University (NEHU), Shillong on Science, Technology, Engineering, Mathematics (STEM) from 10th November to 11th November 2014 in Collaboration with Learning Links Foundation, New Delhi.
  6. The Centre for Distance Education is conducting the following courses on Special Education Programme in collaboration with the Rehabilitation Council of India, New Delhi.
    - (i) B.Ed.-SEDE
    - (ii) Post Graduate Professional Diploma in Special Education (PGPD-SEDE)
    - (iii) Foundation Course on Education of Children with Disabilities (FC-SEDE)
  7. Prof. M. S. Bisht collaborated with Prof. C. Nirmala, Department of Botany, Panjab University, Chandigarh for a Research Project entitled, “Bamboo Shoot as a Food and Nutraceutical: Extraction of Bioactive Compounds from Juvenile Bamboo Shoots for Commercial Exploitation and Socio-Economic Development of the Region” funded by North - Eastern Region-Biotechnology Programme Management Cell (NER-BPMC), Department of Biotechnology (DBT), Government of India, New Delhi.
  8. Prof. M. S. Bisht collaborated with Dr. Kananbala Sarangthem, Department of Life Sciences, Manipur University, Canchipur for a Research Project entitled, “Bamboo Shoot as a Food and Nutraceutical: Extraction of Bioactive Compounds from Juvenile Bamboo Shoots for Commercial Exploitation and Socio-Economic Development of the Region” funded by North- Eastern Region-Biotechnology Programme Management Cell (NER-BPMC), Department of Biotechnology (DBT), Government of India, New Delhi.
  9. Ms. Rimi Nath of Department of English was the Member Editorial Board: The Age of Asian Migration: Continuity, Diversity and Susceptibility (Volume 1).Cambridge Scholars Publishing, U.K. (2014).
  10. Prof. S.K.Singh of Department of Linguistic collaborated with Room To Read, Educational NGO. Delhi.
  11. Dr. B.T. Langstieh corroborated with: (i) Dr. Brian E. Hemphill, Department of Anthropology, University of Alaska, Fairbanks, USA, for the project entitled “A Dental Morphometric Examination of the Distinctiveness and Affinities of Austro-Asiatic and Tibeto-Burman-speaking Ethnic Groups of South Asia.”
  12. Dr. G. Ranjan corroborated with Dr. J. Seberg, Department of Anthropology, Aarhus University, Denmark, for the project titled “Nepal on the Move: Conflict, Migration and Stability.”
  13. A Memorandum of Understanding has been signed between NEHU and Department of Geoinformatics, Hydrology and Modelling at the Friedrich-Schiller University of Jena, Germany. Professor B. K. Tiwari of Department of Environmental Studies is one of the collaborators in this MoU.
  14. Indo – Polish Collaboration of Department of Geography on ‘Impact of Extreme Rainfall on Soil Properties and Water resources in NE India’

15. Indo – Japan Collaboration of Department of Geography on ‘Climate Change in South Asia’
16. The Department of Rural Development and Agricultural Production (Tura Campus) has undertaken professional collaboration with NIRD, Hyderabad and CAPART New Delhi, ICAR Research complex for NEH Region, Barapani for practical exposure and also for getting better seed varieties for RDAP farm. The department has also developed networking with the local level NGOs where the third and fourth semester students are acting as resource persons and interacting directly with the villagers.
17. Dr. Arindam Barman of Department of Horticulture is collaborating with Uttar Banga Krishi Viswavidyalaya, Coochbehar, West Bengal, India in the DBT project entitled ‘Molecular and Morphological diversity analysis of Cucurbits of Garo Hills Meghalaya’
18. The Department of Biochemistry has collaborative projects of Prof. R.N. Sharan (BRNS funded project with Dr. A. Mishra at Indian Institute of Technology Rajasthan, Jodhpur) and Prof. D. Syiem (Department of Biochemistry, VRR Diagnostic Services and Research Centre (Affiliated to University of Madras) are continuing under the project funded by DBT as mentioned above. There are also research collaborations at individual level with the following institutes: Semmelweis University, Budapest, Hungary; Justus Liebig University, Germany; University of Calcutta, Kolkata; IIT Guwahati, Guwahati; IIT Delhi, New Delhi; ICGEB, New Delhi and CDRI, Lucknow.
19. The Department of Biotechnology and Bioinformatics, in collaboration with University of Calcutta, Kolkata; Amity University, NOIDA and Lucknow; Shivaji University, Kolhapur; University of Jammu, Jammu and Vikram University, Ujjain, has initiated a national network program to develop and update Plant Chromosome Database for Spermatophytes and Archegoniate
20. Research collaboration of the Department of Biotechnology and Bioinformatics with Molecular Biology Division, Bhabha Atomic Research Centre, Mumbai.
21. Research collaboration of the Department of Biotechnology and Bioinformatics with National Institute of Technology, Durgapur, West Bengal.
22. The department of Botany collaborated with 36 Universities/Institutions all over the country under the DBT programme, “Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools” (Being coordinated by the Department) and also with 16 Universities/Institutions all over the country under the All India Coordinated research project on “Quantification of Sacred Grove Ecosystem Services”, sponsored by Ministry of Environment and Forests (Being coordinated by the Department).
23. Prof. B. K. Sharma of Department of Zoology collaborated with Prof. S. K. Chakraborty, Department of Zoology, Vidyasagar University, Midnapore, West Bengal.
24. Prof. N. Saha of Department of Zoology collaborated with Dr. Manas Santra, NCCS, Pune.
25. Prof. R.N.K. Hooroo of Department of Zoology collaborated with Prof.S.K.Dutta, Nature Environment and Wildlife Society (NEWS), Nature House, Salabani, GaudaSahi, Odisha.
26. Prof. A. S. Dixit of Department of Zoology collaborated with (i)Prof. V. Kumar, Department of Zoology, Delhi University, (ii) Prof.Sangeeta Rani, Department of Zoology, Lucknow University, (iii) Prof. Sanjay K Bhardwaj, Department of

- Zoology, C.C.S. University, Meerut, (iv) Dr. Monika Sadananda, Department of Biotechnology, St. Aloysius College Manglore and (v) Dr. Praful S. Singru, School of Biological sciences, NISER, Bhubaneswar.
27. Dr. S. Ghosh of Department of Zoology collaborated with (i) Dr. Arindam Maitra, National Institute of Biomedical Genomics (NIBMG), Kalyani, W. Bengal, (ii) Dr. Neizekhotuo Brian Shunyu of (NEIGRIHMS), (iii) Dr. Saia Chenkual, Civil Hospital, Aizwal, Mizoram.
  28. Dr. B. Das of Department of Zoology collaborated with (i) Dr. Amit Sharma, Group leader, International Centre for Genetic Engineering and Biotechnology, New Delhi; (ii) Prof. K. Satyamoorthy, Director, MLSC, Manipal University, Manipal; (iii) Prof. S. Mishra, Scientist-E, ILS, Bhubaneswar, Odisha; (iv) Dr. A. Kataki, Director, BBCT, Guwahati, Assam.
  29. Prof. B.B.P. Gupta of Department of Zoology collaborated with Prof. R. Spessert, Department of Functional and Clinical Anatomy, University Medical Center of the Johannes Gutenberg University Mainz, Mainz, Germany on clock genes in retina.
  30. Prof. R.N.K. Hooroo of Department of Zoology collaborated with Prof. Indraneil Das, Institute of Biodiversity and Environmental Conservation, University of Malaysia, Sarawak.
  31. Prof. A.S. Dixit of Department of Zoology collaborated with Prof. K. Tsu Tsui, Laboratory of Integrative Brain Sciences, Department of Biology and Center for Medical Life Science, Waseda University, Tokyo, Japan.
  32. Prof. A.K. Yadav of Department of Zoology collaborated with Prof. Andreas-Schmidt Rhaesa, University of Hamburg, Germany and jointly published one research paper.
  33. Dr. B. Das of Department of Zoology collaborated with (i) Dr. V. Ferro, Group leader, SIPBS, Strathclyde University, Scotland, UK; (ii) Dr. Todd Holyoak, Associate Professor, Department of Biology, University of Waterloo, (200 University Avenue West Waterloo, ON N2L 3G1, Canada).
  34. Prof. K. Ismail of Department of Chemistry has academic collaborations with (i) Dr. V. K. Aswal, Solid State Physics Division, Bhabha Atomic Research Center, Mumbai (ii) Dr. P. A. Hassan, Chemistry Division, Bhabha Atomic Research Center, Mumbai (iii) Dr. S. Mahiuddin, Materials Science Division, CSIR-North East Institute of Science and Technology, Jorhat (iv) Dr. R. Biswas, Chemical, Biological and Macromolecular Sciences, S. N. Bose National Centre for Basic Sciences, Salt Lake, Kolkata.
  35. Prof. R. A. Lal of Department of Chemistry has academic collaborations with Dr. Arvind Kumar, Department of Chemistry, Faculty of Science and Agriculture, the University of West Indies, St. Augustine, Trinidad and Tobago.
  36. Prof. K. M. Rao of Department of Chemistry has academic collaborations with (i) Prof. Yuriy Mozharivskyj, Department of Chemistry and Chemical Biology, McMaster University, Canada (ii) Prof. Roger M Phillips, Department of Cancer Pharmacology, Institute of Cancer Therapeutics, University of Bradford, Bradford, UK (iii) Prof. Dr. Habil Werner Kaminsky, Department of Chemistry, University of Washington, Seattle, WA 98195, USA.
  37. Prof. A. K. Chandra of Department of Chemistry has academic collaboration with Quantum Chemistry Group, University of Leuven, Belgium.
  38. Dr. T. S. Basu Baul of Department of Chemistry has academic collaborations with Prof. A. Linden, University of Zurich, Switzerland; Prof. H. K. Fun, University of Malaya, Malaysia; Prof. G. Eng, University of the District of

- Columbia, USA; Prof. E. R. T. Tiekink, Universiti Sains Malaysia, Malaysia, Prof. U. Englert, Institut für Anorganische Chemie, RWTH Aachen University, Germany, Prof. M. Fátima C. Guedes da Silva, University of Lisbon, Portugal, Prof. A. Duthie, School of Life & Environmental Science, Deakin University, Australia, Prof. P. Singh, Guru Nanak Dev University, Amritsar, Dr. S. K. Manna, Centre for DNA Fingerprinting and Diagnostics, Hyderabad.
39. Dr. M. K. Sahoo of Department of Chemistry has academic collaborations with Prof. R.N. Sharan, Dept. of Biochemistry, NEHU, Shillong; Dr. D.B. Naik, Radiation and Photochemistry Division, BARC, Trombay, Mumbai; Dr. C. Srinivas, Process Development Division, BARC, Trombay, Mumbai.
  40. Dr. S. Mitra of Department of Chemistry has academic collaborations with Prof. K. Aguan, Department of Biotechnology & Bioinformatics, NEHU, Shillong; Prof. D. Kumar, BITS, Pilani; Dr. A. Bhasikuttan, BARC, Mumbai.
  41. Dr. A. K. Pal of Department of Chemistry has academic collaborations with Dr. T. Tripathi, Department of Bio-Chemistry; Dr. A. Bhattacharya, Department of Biotechnology & Bioinformatics; Dr. S. Mitra, Department of Chemistry; Prof K. Ismail, Department of Chemistry; Prof K. Aguan, Department of Biotechnology & Bioinformatics, NEHU, Shillong.
  42. The Department of Mathematics has academic Collaborations with Centre International de Mathématiques Pures et Appliquées (CIMPA)
  43. Prof. Prabodh Shukla of Department of Physics is engaged in an ongoing collaboration with Dr. Matteo Marsili of ICTP, Triesie, Italy.
  44. Prof. B. Jyrwa of Department of Physics is having collaboration work with RCD BARC, Mumbai, as well as VECC, Kolkata on experimental work regarding various nuclear reactions related to nuclear data. There is also interaction with IAEA Vienna on compilation and digitization of nuclear data.
  45. Prof. A. Saxena of Department of Physics is engaged in close collaboration with various groups including GSI, Darmstadt, Germany and with Prof. K.K. Dwivedi, Vice-Chancellor Apeejay Stya Univesity, for SSNTD related work (irradiation facility): Prof. Robert J. Buenker and H.P. Liebermann (Bergische Universitaet – Gesamthochschule Wuppertal Fachbereich C- Theoretische Chemie, Gaussstr. 20-42097, Wuppertal, Germany) for theoretical Atomic and Molecular physics; Prof. Devesh Walia, Department of Environmental Studies for radon studies and geophysics.
  46. Dr. T. K. Chakrabarty of Department of Statistics visited Indian Statistical Institute, North East Centre, Tezpur, during March 25th – April 17th, 2015, to participate in the academic programme of the centre and for teaching the course on Time Series Analysis to the students of Post Graduate Diploma in Statistical Methods with Analytics, 2014-15.
  47. Department of History and Archaeology (Tura Campus) collaborated with Archaeological Survey of India, New Delhi; Numismatic Society of India, Varanasi and A”chik Literature Society, Tura for academic works.
  48. The Department of Biomedical Engineering has Academic Collaborations with the following Universities:
    - a) University of Glasgow, Glasgow, Scotland, UK
    - b) All India Institute of Medical Sciences (AIIMS), New Delhi
    - c) DRK Test Solutions Ltd., Pune (Industry)
    - d) Indian Institute of Technology (IIT), Delhi
    - e) North Eastern Indira Gandhi Institute of Regional Health Medical Sciences (NEIGRHMS), Shillong.

- f) Indian Institute of Technology (IIT), Guwahati
  - g) Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Haryana
  - h) Maharshi Dayanand University, Rohtak, Haryana
  - i) Bundelkhand University, Jhansi
  - j) Rajasthan Technical University, Kota
49. Dr. M. M. Singh of Department of Basic Sciences and Social Sciences has collaborative research with Dr. B. Bhuyan, Department of Information Technology, NEHU, Shillong.
  50. Dr. H. Choudhury of Department of Basic Sciences and Social Sciences has collaborative research with (i) Prof. S.K. Barik, Prof. N. Venugopal and Dr. M. C. Das of Department of Botany, NEHU, Shillong, and Dr. A. Chettri, Sikkim University, Gangtok, Sikkim and Dr. K. K. Singh, GBPIHED (Sikkim Unit) Sikkim on Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools and (ii) Dr. S. Kumaria of Department of Botany, NEHU, Shillong and Dr. S. Shailajan, Dr. S. Pednekar and Dr. S. Menon of Herbal Research Lab., Ramnarain Ruia College, Mumbai, Maharashtra on- (a) Phytochemical profiling, molecular characterization and conservation of *Flemingia vestita*: Endemic medicinally important plant of Northeast India, and (b) Molecular characterization and chemo profiling of two pharmacologically relevant species of *Dendrobium* found in Northeast India.
  51. Dr. K. Upadhaya of Department of Basic Sciences and Social Sciences has collaborative research with Prof. S.K. Barik, Prof. N. K. Chrungoo and Dr. S. Kumaria of Department of Botany, NEHU, Shillong, and Dr. P. Kumari of BSI, Howrah, West Bengal on Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools. Has also collaborative research with Prof. B. K. Tiwari of Department of Environmental Studies, NEHU, Shillong on Phytodiversity and phytosociological characterization of sacred groves in Meghalaya.
  52. Dr. Anindya Halder of Department of Computer Application did collaborative research work as Visiting Scientist (at Machine Intelligence Unit,) with Indian Statistical Institute, Kolkata, India during January- February, 2015.
  53. Dr. L. R. Singh of Department of Nanotechnology has collaborative research with BARC, Mumbai and Manipur University.
  54. Prof. Veena Tandon and Dr. Devendra Kumar Biswal of Bioinformatics Centre have collaborative research with Bioresource Information centers of Institute of Himalayan Bio-resource Technology, Palampur, Himachal Pradesh, Foundation for Revitalizing Local health Traditions, Bangalore, National Botanical Research Institute, Lucknow and Ashoka Trust for Research in Ecology & the Environment, Bangalore under the program Establishment of Portal for Indian Bioresource Information Network (IBIN) - (2011-2014-15-16).
  55. Prof. Pramod Tandon and Dr. Devendra K. Biswal of Bioinformatics centre have collaborative research with Dr. S. Sundar (PI), IIT, Delhi in the DBT-sponsored NER Twinning project on Next Generation Sequencing (NGS)-based *de novo* assembly of expressed transcripts and genome information of Orchids in North-East India.

### 3.7 Collaboration (2015 - 2016)

#### 3.7.1 How has the University's collaboration with other agencies impacted the visibility, identity and diversity of activities on campus? To what extent has the University benefitted academically and financially because of collaborations?

1. Prof. U. K. De, of Department of Economics was the Visiting Scientist of Indian Statistical Institute, Kolkata, 3<sup>rd</sup> January to 2<sup>nd</sup> February, 2016.
2. Prof. B. Panda, of Department of Economics collaborated with Prof. K. B. Saxena, of Council for Social Development, New Delhi on the book 'Contemporary Practices of Mahatma Gandhi National Rural Employment Guarantee Scheme: Insights from Districts' published by Sage, New Delhi. Prof. Panda along with others have contributed six district reports on effective initiatives on MGNREGA which have formed a part of this book.
3. Department of Journalism and Mass Communication had a one-day exhibition of comic posters was held at the department in collaboration with the Department of Journalism & Mass Communication, EFLU, Shillong Campus, as part of a three-day workshop on Grassroots Comics under a campaign titled "No Stereotypes Please" on 6th April, 2016.
4. The Department of Adult and Continuing Education has collaborated programmes with the Social Welfare Department, Govt. of Meghalaya, Women Cell, NEHU, with Jetwings Institute of Air Hostess Training on Vocational Career Oriented Courses, with Don Bosco Technical School and Steel Fabrication work, Shillong on Human Resource Management with Nehru Yuva Kendra Sangathan: Shillong, Nehru Yuva Kendra Sangathan:, Nongstoin College, Nongstoin; Eastern Jaintia College, Women's College, Tezpur University, ICSSE (NERC), Revenue Department (Disaster Management) under Government of Meghalaya, Social Welfare Department, Govt. of Meghalaya, RGNIYD, NSS Regional Centre Guwahati, NSS Cell: NE HU, Women Cell: NE HU, NCW, Women's College, Lady Keane College, Shillong, ASC, NEHU, UGC (HRDC), and All India Senior Citizens Confederation (AISC CON), Mumbai. DACE also collaborates with formal agencies like, Bethel Academy, Baghmara, Impulse NGO Network, Bethany Society and Women Organisation on Skills Training programme, World Vision and Seng Kynthei Mawkyrwat, in order to carry out its extension programmes and activities.
5. Department of Education have a Academic collaboration with MHRD, NCERT, NUEPA, IGNOU, Regional Center, MBOSE Shillong have been a regular feature. The Department of Education being the Monitoring SSA Project and have signed the MOU in September with the Ministry of human Resource Development (MHRD), New Delhi for the whole state of Meghalaya since 2003 till date and very recently the Department of Education also undertakes monitoring Rashtriya Madhyamik Shiksha Abhiyan (RMSA) in the State of Meghalaya.
6. The Centre for Distance Education is conducting the B.Ed.-SEDE and FC-SEDE courses in collaboration with the Rehabilitation Council of India, New Delhi.
7. The Center for Science and Education Collaboration with Prof. C. Nirmala, Department of Botany, Panjab University, Chandigarh.
8. The Center for Science and Education Collaboration with DR. K. Sarangthem, Department of life science, Manipur University, Canchipur, Manipur.

9. The Department of Antropology Collaborated with Dr. Brian E. Hemphill, Department of Anthropology, College of Liberal Arts, University of Alaska, USA, on project "A Dental Morphometric Examination of the Distinctiveness and Affinities of Austro-Asiatic- and Tibeto- Burman-speaking Ethnic Groups of South Asia."
10. Collaborated with Prof. Gregory Livshits, Department of Anatomy and Anthropology, Sackler faculty of medicine, Tel-Aviv University, Israel, on "Body Composition Analyses."
11. Prof. B. K. Tiwari, Department of Environmental Studies collaborated with the Centre for Policy Research, Indian Institute of Forest Management, Bhopal on "Review and Revision of National Forest Policy."
12. The Department of Geography is collaborate with the Indo-Polish on "Impact of Extreme Rainfall on Soil Properties and Water resources in NE India."
13. The Department of Geography is collaborate with the Indo-Japan on "Climate Change in South Asia." MoU signed with Kagawa University.
14. The Department of rural Development and Agriculture Production (Tura) has collaborated with NIRD, Hyderabad and CAPART, New Delhi, ICAR Research complex for NEH Region, Barapani for practical exposure as well as for getting better seed varieties for RDAP farm. The Department has also developed networking with local NGOs where the 3rd and 4th semester students are acting as resource persons and interacting directly with the villagers.
15. Dr. Arindam Barman, Department of Horticulture collaborated with Uttar Banga Krishi Viswavidyalaya, Coochbehar, West Bengal on the DBT project entitled "Molecular and Morphological Diversity Analysis of Cucurbits of Garo Hills Meghalaya." Prof. R. Sharma, Department of Biochemistrty was a Visiting Researcher, Toho University, Chiba, Japan (Jan. 01-March 31, 2016).
16. Prof. R. N. Sharan, Department of Biochemistrty visited THS Aachen, Juelich Campus, Germany on invitation to discuss the future research collaboration (22-24 September 2015).
17. Prof. D. Syiem, Department of Biochemistrty has Research collaboration with Bioresource Development Centre, Govt. of Meghalaya, Shillong.
18. Prof. M.B. Syiem, Department of Biochemistrty has research collaboration with Indian Institute of Technology, Guwahati, Guwahati, Assam.
19. Dr. P.K. Ambasht, Department of Biochemistrty has research collaboration with Department of Chemistry, NEHU, Shillong and School of Biotechnology, Banaras Hindu University, Varanasi.
20. Dr. Timir Tripathi, Department of Biochemistrty has research collaboration with Prof. Y. Shav-Tal, Bar-Ilan University, Israel. (Indo-Israel Research Project, UGC- ISF) and with Dr. V. Mordvinov, Institute of Cytology and Genetics, Russia (Indo- Russian Research Project DST- RFBR).
21. Department of Biotechnology & Bioinformatics Collaborate With (a) NIPER Chandigarh; (b) Bose Institute, Kolkata; (c) National Bureau of Plant Genetic Resources, New Delhi; (d) JNV University of Jodhpur; (e) Department of Horticulture, NEHU, Tura Campus; (f) National Institute of Technology, Durgapur; (g) Molecular Biology Division, Bhabha Atomic Research Centre, Mumbai; (h) IIT, Kharagpur, W.B. Department of Botany collaborate with Jawaharlal Nehru University, New Delhi; (b) Herbal Research Lab., Ramnarain Ruia College, Mumbai; (c) Banaras Hindu University, Varanasi; (d) Indian Institute of Horticultural Research (IIHR), Bengaluru; (e) National Institute of



- Plant Genome Research, New Delhi; (f) University of Jammu, Jammu; (g) University of Kashmir, Srinagar; (h) 36 Universities/ Institutions all over the country under the DBT programme, “Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools” (Being coordinated by the Department); (i) 16 Universities/ Institutions all over the country under the All India Coordinated research project on “Quantification of Sacred Grove Ecosystem Services”, sponsored by Ministry of Environment and Forests (Being coordinated by the Department); (j) National Centre for Biological Sciences, Bengaluru; (k) Indian Institute of Science, Bengaluru.
22. Department of Botany Freiburg University, Freiburg, Germany; (b) University of Ljubljana, Slovenia.
  23. Prof. R. N. K. Hooroo, Department of Zoology collaborated with S. K. Dutta, Chairman, Nature Environment and Wildlife Society, Odisha.
  24. Prof. N. Saha, Department of Zoology collaborated with Dr. Manas Santra, Scientist F, National centre for Cell Science, Pune
  25. Prof. A. S. Dixit, Department of Zoology collaborated with (i) Prof. Vinod Kumar, Department of Zoology, Delhi University, New Delhi (ii) Prof. Sangeeta Rani, Department of Zoology, Lucknow University, Lucknow (iii) Dr. Praful Singru, NISER, Bhubaneswar (iv) Dr. Monika Sadanada, Mangalore University, Mangalore (v) Sanjay Bhardwaj, Ch. Charan Singh University, Meerut.
  26. Dr. S. Ghosh, Department of Zoology collaborated with (i) Dr. Arindam Maitra, National Institute of Biomedical Genomics (NIBMG), Kalyani, W. Bengal, (ii) Dr. Neizekhotuo Brian Shunyu of (NEIGRIHMS), (iii) Dr. Saia Chenkual, Civil Hospital, Aizawl, Mizoram. Dr. S. R. Hajong, Department of Zoology collaborated with Prof. H.J. Syiemlieh, Department of Geography, NEHU, Shillong.
  27. Dr. B. Das, Department of Zoology collaborated with (i) Dr. Amit Sharma, Group leader, International Centre for Genetic Engineering and Biotechnology, New Delhi (ii) Prof. K. Satyamoorthy, Director, MLSC, Manipal University, Manipal (iii) Prof. S. Mishra, Scientist-E, ILS, Bhubaneswar, Odisha (iv) Dr. A. Katak, Director, BBCI, Guwahati, Assam Abroad
  28. Prof. R. N. K. Hooroo, Department of Zoology collaborated with (i) Indraneil Das, Institute of Biodiversity and Environmental Conservation, Universiti Malaysia Sarawak. Malaysia
  29. Prof. A.K. Yadav, Department of Zoology collaborated with Prof. Andreas-Schmidt Rhaesa, University of Hamburg, Germany on Biodiversity studies on gordiid worms in Northeast India.
  30. Prof. A. S. Dixit, Department of Zoology collaborated with Prof. Kazuyoshi Tsutsui, Laboratory of Brain Science, Faculty of Integrated Arts and Sciences, Hiroshima University Higashi- Hiroshima, Japan.
  31. Dr. S. R. Hajong, Department of Zoology collaborated with (i) Dr Xingue Liu, Department of Entomology, China Agricultural University, Beijing, China, (ii) Dr. J. Gévar, Dr. A. Lenoir & Dr E. Darrouzet, IRBI UMR CNRS 7261, Université François Rabelais, Faculté des Sciences, France.
  32. Dr. B. Das, Department of Zoology collaborated with (i) Dr V. Ferro, Group leader, SIPBS, Strathclyde University, Scotland, UK (ii) Dr Todd Holyoak, Associate Professor, Department of Biology, University of Waterloo, 200 University Avenue West Waterloo, ON N2L 3G1, Canada.
  33. Prof. K. Ismail, Department of Chemistry has academic collaborations with (i)

- Dr. V. K. Aswal, Solid State Physics Division, Bhabha Atomic Research Center, Mumbai; (ii) Dr. P. A. Hassan, Chemistry Division, Bhabha Atomic Research Center, Mumbai; (iii) Dr. S. Mahiuddin, Materials Science Division, CSIR-North East Institute of Science and Technology, Jorhat; (iv) Dr. R. Biswas, Chemical, Biological and Macromolecular Sciences, S. N. Bose National Centre for Basic Sciences, Salt Lake, Kolkata.
34. Prof. R. A. Lal, Department of Chemistry has academic collaborations with Dr. Arvind Kumar, Department of Chemistry, Faculty of Science and Agriculture, the University of West Indies, St. Augustine, Trinidad and Tobago. Prof. K. M. Rao, Department of Chemistry has academic collaborations with (i) Prof. Yuriy Mozharivskyj, Department of Chemistry and Chemical Biology, McMaster University, Canada; (ii) Prof. Roger M Phillips, Department of Cancer Pharmacology, Institute of Cancer Therapeutics, University of Bradford, Bradford, UK; (iii) Prof. Dr. Habil Werner Kaminsky, Department of Chemistry, University of Washington, Seattle, WA98195, USA.
  35. Prof. A. K. Chandra, Department of Chemistry has academic collaboration with Quantum Chemistry Group, University of Leuven, Belgium.
  36. Dr. T. S. Basu Baul, Department of Chemistry has academic collaborations with (i) Prof. A. Linden, University of Zurich, Switzerland; Prof. H. K. Fun, University of Malaya, Malaysia; Prof. G. Eng, University of the District of Columbia, USA; Prof. E. R. T. Tiekink, Universiti Sains Malaysia, Malaysia, Prof. U. Englert, Institut für Anorganische Chemie, RWTH Aachen University, Germany, Prof. M. Fátima C. Guedes da Silva, University of Lisbon, Portugal, Prof. A. Duthie, School of Life & Environmental Science, Deakin University, Australia, Prof. P. Singh, Guru Nanak Dev University, Amritsar, Dr. S. K. Manna, Centre for DNA Fingerprinting and Diagnostics, Hyderabad.
  37. Dr. M. K. Sahoo, Department of Chemistry has academic collaborations with Prof. R.N. Sharan, Dept. of Biochemistry, NEHU, Shillong; Dr. D. B. Naik, Radiation and Photochemistry Division, BARC, Trombay, Mumbai; Dr. C. Srinivas, Process Development Division, BARC, Trombay, Mumbai.
  38. Dr. S. Mitra, Department of Chemistry has academic collaborations with Prof. K. Aguan, Department of Biotechnology & Bioinformatics, NEHU, Shillong; Prof. D. Kumar, BITS, Pilani; Dr. A. Bhasikuttan, BARC, Mumbai.
  39. Dr. A. K. Pal, Department of Chemistry has academic collaborations with Dr. T. Tripathi, Department of Bio- Chemistry; Dr. A. Bhattacharya, Department of Biotechnology & Bioinformatics; Dr. S. Mitra, Department of Chemistry; Prof K. Ismail, Department of Chemistry; Prof K. Aguan, Department of Biotechnology & Bioinformatics, NEHU, Shillong.
  40. Department of Mathematics is collaborate With the International Centre for Pure and Applied Mathematics (CIMPA)
  41. Prof. B. Jyrwa, Department of Physics C o l l a b o r a t i o n b e t w e e n N u c l e a r P h y s i c s Division) and RCD (Radio Chemistry Division) of BARC (Trombay. Mumbai) regarding experimental studies of nuclear reactions involving photon and neutron cross-sections from structural materials and the theoretical interpretation of the data obtain hereby. Department of Physics Collaboration with IAEA (Vienna) regarding compilation of Nuclear Data and their evaluation by calculating the covariance matrices and studying the error propagation of experimental results
  42. Prof. P. Nongkynrih, Department of Physics Collaboration with Atomic Mineral Division, North-Eastern Region, Shillong and BARC, Trombay, Mumbai.

43. Dr. Susmita Sen Gupta, Department of Political Science has collaboration with Global Science and Technology Forum, Singapore, and also a member of the Programme Committee of the International Conference on Political Science, Sociology and International Relations organized by GSTF in 2015.
- Dr. Dinesh Bhatia, Department of Biomedical Engineering has collaborations with (a) University of Glasgow, Glasgow, UK; (b) All India Institute of Medical Sciences, New Delhi; (c) Indian Institute of Technology, Delhi; (d) North Eastern Indira Gandhi Institute of Regional Health Medical Sciences, Shillong.; (e) Indian Institute of Technology, Guwahati; (f) Maharshi Dayanand University, Rohtak, Haryana; (g) Bundelkhand University, Jhansi; (h) Rajasthan Technical University, Kota; (i) Guru Jambheshwar University of Science & Technology, Hisar, Haryana.
44. Dr. Sudip Paul, Department of Biomedical Engineering has collaboration with North Eastern Indira Gandhi Institute of Regional Health Medical Sciences, Shillong.
45. Dr. Manashjit Gogoi, Department of Biomedical Engineering has collaboration with IIT-Guwahati and NEIGRIHMS, Shillong.
46. Mr. G. K. Mourya, Department of Biomedical Engineering has collaboration with NEIGRIHMS, Shillong.
47. Dr. M. M. Singh, Department of Basic Sciences & Social Sciences has collaborative research with Dr. B. Bhuyan, Department of Information Technology, NEHU, Shillong.
48. Dr. H. Choudhury, Department of Basic Sciences & Social Sciences has collaborative research with (1) Dr. Sunil S. Thorat, Regional Centre of Institute of Bioresources and Sustainable Development, Gangtok, Sikkim; Dr. Chittaranjan Deb, Department of Botany, Nagaland University; Dr. Rajiv Kumar Singh, Rajiv Gandhi University, Itanagar, Arunachal Pradesh; Mr. Bharat G. Somkuwar, Institute of Bioresources and Sustainable Development, Imphal, Manipur; Dr. Swapan Kumar Sinha, TERI-North-Eastern Regional Centre, Guwahati, Assam; Prof. B. K. Datta, Tripura University, Tripura, Dr. Kalidas Upadhyaya, Mizoram University; and Dr. Dhanaraj Singh Thokchom, Centre for Orchid Gene Conservation of Eastern Himalayan Region, Krishi Vigyan Kendra, Sylhet, Manipur, on Orchid Bioresources of the North-east India – Conservation, database development and information networking, (2) Prof. S.K. Barik, Prof. N. Venugopal and Dr. M. C. Das, Department of Botany, NEHU, Shillong, and Dr. A. Chettri, Sikkim University, Gangtok, Sikkim and Dr. K. K. Singh, GBPIHED (Sikkim Unit) Sikkim, on Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools, and (3) Dr. S. Kumaria of Department of Botany, NEHU, Shillong and Dr. S. Shailajan, Dr. S. Pednekar and Dr. S. Menon of Herbal Research Lab., Ramnarain Ruia College, Mumbai, on Molecular characterization and chemoprofiling of two pharmacologically relevant species of *Dendrobium* found in Northeast India.
49. Dr. K. Upadhaya, Department of Basic Sciences & Social Sciences has collaborative research with (i) Prof. S.K. Barik, Prof. N. K. Chrungoo and Dr. S. Kumaria of Department of Botany, NEHU, Shillong, and Dr. P. Kumari of BSI, Howrah, West Bengal on Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools, and (ii) Prof. B. K. Tiwari of Department of Environmental Studies, NEHU, Shillong on Phytodiversity and phytosociological characterization of sacred groves in Meghalaya.

50. Department of Electronics and Communication Engineering has academic collaboration with the Centre for Linguistic Science and Technology, IIT, Guwahati.
51. Dr. Swarup Roy, Department of Information Technology Had collaborative research with the following Universities and Institutions (a) University of Cantanzaro, Italy; (b) University of Trieste and ICAR-CNR, Trieste, Italy; (c) University of Colorado at Colorado Spring, USA; (d) Indian Institute of Technology, Guwahati.
52. Department of Computer Applications (Tura Campus) Conducted workshop in collaboration with E-Cell IIT, Kanpur, and Networks Bull. Collaboration with Department of History and Archaeology to bag a Major Research Project from UGC, New Delhi.
53. Dr. L. R. Singh, Department of Nanotechnology has collaborative research with BARC, Mumbai and Manipur University.

## 5.1 Student Mentoring and Support

### 5.1.14 Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus during the year 2014-2015).

SI .No	Name of the company	Name of students who got selected	Date of interview	Department / Branch	University/ College
1	Infosys Pvt. Ltd, Bangalore	1. Biswaiit Kalita.	13.06.14	B. Tech ECE	School of Technology, NEHU, Shillong
		2. Adruta Chirantani Guru		B. Tech ECE	
2	IBM Colla bora Bangalore	1. Archana Tiwari	23.6.14	B. Tech ECE	School of Technology, NEHU, Shillong
		2. Lucky Sonowal		B. Tech ECE	
		3. Anarnika Salkia		B. Tech ECE	
		4. Riddhi Kurnari		B. Tech CSE	Assam Don Bosco, Guwahati
		5. Devika Paul		B. Tech IT	School of Technology, NEHU, Shillong
		6. Abhishek Malakar		B. Tech ECE	
		Waiting List		Waiting List	
		1. Ponalin D Sagma		MBA	NEHU, Tura, Campus
		2. Veronica Kurbah		M.Com	
		3. Sneha Barman		B. Tech IT	School of Technology, NEHU, Shillong
		4. Gautam Sarma		B. Tech IT	
		5. Imayanrnosha Wahlang		B. Tech IT	

		6. Mustafiz Ur Rahman H		B. Tech ECE		
		7. Sasanka Narah		B. Tech IT		
		8. Mazidul Islam		B. Tech IT		
		9. Rajiv Biswas		B. Tech ECE		
		<b>These are a few more that are borderline cases and can be evaluated after some more training.</b>				
		1. Nabarun Saikia		B. Tech IT	School of Technology, NEHU, Shillong	
		2. Rojlina Yasmin Siddiki		B. Tech IT		
		3. Bidisha Sonowal		B. Tech IT		
		4. Narji Saiki a		B. Tech IT		
		5. Ruparn Barman		B. Tech ECE		
		6. Anirban Deb		M.Com	NEHU, Tura, Campus	
		7. Dipankar Borah		MBA		
		8. Sambha Phawa		M.Com	(SCMIS) NEHU, Shillong	
		9. Hirnasmita Das		B. Tech IT	School of Technology, NEHU, Shillong	
		10. Mohd Abdul Khader SK		B. Tech ECE		
3	Tele performance, Manesar, Gurgaon, Haryana	I. Rojlina Yasrnin Siddiki	24.9.14	B. Tech IT	School of Technology, NEHU, Shillong	
		2. Mustafiz Rahman Hazarika		B. Tech ECE		
		3. Bidisha Sonowal		B. Tech IT		
		4. Ruhana Ahmed		B. Tech ECE		
		5. Nabarun Saikia		B. Tech IT		
		6. Bidyut Karnakar		B. Tech IT		
		7. Raj Kamal Nayak		B. Tech ECE		
		8. Partha Kinkor Goswami		B. Tech IT		
		9. Sailen Kalita		B. Tech IT		
		10. Gautam Sanna		B. Tech IT		
		11. Ruparn Barman		B. Tech ECE		
		12. Mazidul Islam		B. Tech IT		
		13. Phungkha Narzary		B. Tech IT		

		14. Gwmsart Basurnatarv		B. Tech ECE	
		15. Avishek Kumar		B. Tech IT	
		16. Sasanka Narah		B. Tech IT	
		17. Sneha Barman		B. Tech IT	
		18. Amit Kumar		B. Tech ECE	
		19. Puspanjal i Basurnatari		B. Tech ECE	
		20. Kolin Chanda		B. Tech IT	
		21. Ponjit Borgohain		B. Tech IT	
		22. Sheba Diamond Thabah		B. Tech ECE	
4.	Tech Mahindra	1.Tridip Sarma	24. 9. 14	B. Tech ECE	School of Technology, NEHU, Shillong
		2. Nirnish Agarwal		B. Tech ECE	
5.	IBM, Bangalore	1. Anisha Chakravorty	21.10.14	B. Tech IT	School of Technology, NEHU, Shillong
		2. Dolly Basumatary		B. Tech IT	
		3. Bishruta Phukan		B. Tech ECE	
		4. Ajay Roy		B. Tech ECE	
		5. Toshlima Ashraf		B. Tech ECE	
6.	Indian Army, Shillong	1.Siddhartha Bhuyan	29. 11.14	B. Tech IT	School of Technology, NEHU, Shillong
		2. Divyajyoti Pathak		B. Tech IT	
		3. RasidulAlam		B. Tech IT	
		4. Mahamudul Hassan		B. Tech IT	
		5. RakeshHazarika		B. Tech IT	
		6. Sangam Prasad		B. Tech ECE	
		7. Santosh Kalita		B. Tech ECE	
		8. Palash Jyoti Borah		B. Tech ECE	
		9. Raushan Kumar		B. Tech ECE	

**5.1.14 Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus during the year 2015-2016).**

Sl. No:	Name of the company	Name of students who got selected	Date of interview	Department / Branch	University/ College
1.	Wipro Technologies	1. Ms. Neetushree Konwar	14.09.15	ECE	School of Technology, NEHU, Shillong
		2. Ms. Jagriti Rajkhowa	& 15.09.15	IT	
		3.Ms. Bidisha Barman		ECE	

		4. Mr. Manoj Chettri		ECE	
		5. Mr. Paulal John		ECE	
		6. Ms. Raymond Star Jyrwa		M.Tech IT	
2.	Ericsson India Pvt. Ltd	1. Ms. Arpana Medhi	16. 09.15	ECE (passed out 2015)	School of Technology, NEHU, Shillong
3.	TNS World (Co Cubes)	1 .Dhrubajyoti Das	13.10.15	ECE (passed out 2015)	School of Technology, NEHU, Shillong
		2. Rupam Choudhary		ECE (passed out 2015)	
		3. Gunin Basumatary		ECE (passed out 2015)	
		4. Deepjyoti Das		ECE (passed out 2015)	
		5. Ankuj Pegu		ECE (passed out 2015)	
		6. Pranjal Das		IT (passed out 2015)	
		7. Nabajit Sonowal		ECE (passed out 2015)	
4.	HDFC Bank *	1. Anju Hajong	03-04.11.15	MBA Final Year	School of Economics, Management & Information Sciences, NEHU, Tura.
		2. Arnesh Frield K. Marak		MBA Final Year	
		3. Kasangchi K Sangma		MBA Final Year	
5.	Airtel (I) Pvt. Ltd *	1. Stopper Bang	17-18.11.15	MBA Final Year	School of Economics, Management & Information Sciences, NEHU, Tura.
		2. Kwesaploing Heloiying		MBA Final Year	
		3. Sheela Roy		MBA Final Year	
6.	Gandhi Fellowship, Piramal Foundation	1. Mr. Dipankar Doley	21.03.16	ECE Final Year	School of Technology, NEHU, Shillong.
		2. Mr. Siddharth Bhuyan		IT Final Year	
		3. Ms. Jagriti Rajkhowa		IT Final Year	

## 5.2 Student Progression

### 5.2.1 What is the student strength of the university for the current academic year? Analyse the programme-wise data and provide the trends for the year 2015-2016.

**Enrolment of Students in the University Teaching Departments and affiliated colleges**

Academic Year	2015-16
UG	1344
PG	2555
M Phil	100
Ph D	813

**Table 2.39: Student enrolled information**

**University Teaching Departments: Enrolled Students # 5289 during 2014-15**

#### **ENROLMENT OF STUDENTS FOR THE ACADEMIC YEAR 2014-15: UTD**

Courses	GEN	GEN	S. T.	S. T.	S. C.	S. C.	OBC	OB C	TOTAL	TOTAL
	M	F	M	F	M	F	M	F	M	F
UG	303	170	378	346	85	32	75	43	841	591
PG	114	147	730	1371	18	11	7	14	869	1543
M Phil	9	9	18	32	1	1	3	1	31	43
Ph D	151	123	184	226	23	10	15	11	373	370
Others	164	64	139	142	19	9	62	29	384	244
GRAND TOTAL	741	513	1449	2117	146	63	162	98	2498	2791

**University Teaching Departments: Enrolled Students # 5271 during 2015-16**

#### **ENROLMENT OF STUDENTS FOR THE ACADEMIC YEAR 2015-16: UTD**

Courses	GEN	GEN	S. T.	S. T.	S. C.	S. C.	OBC	OBC	TOTAL	TOTAL
	M	F	M	F	M	F	M	F	M	F
UG	314	140	412	301	77	26	43	31	846	498
PG	122	165	792	1417	17	16	11	15	942	1613
M Phil	20	13	15	39	5	4	2	2	42	58
Ph D	133	142	197	284	19	18	11	9	360	453
Others	118	56	91	123	13	6	44	8	266	193
GRAND TOTAL	707	516	1507	2164	131	70	111	65	2456	2815



**Affiliated Colleges: Enrolled Students # 46900 during 2014-15**

**ENROLMENT OF STUDENTS FOR THE ACADEMIC YEAR 2014-15:  
AFFILIATED COLLEGES**

Courses	GEN	GEN	S. T.	S. T.	S. C.	S. C.	OBC	OB C	TOTA L	TOTA L
	M	F	M	F	M	F	M	F	M	F
UG	2691	2326	1793 2	2243 7	278	262	383	340	21284	25365
PG	45	72	33	58	4	3	5	6	87	139
PGDCA	1	1	12	11	0	0	0	0	13	12
GRAN D TOTAL	2737	2399	1797 7	2250 6	282	265	388	346	21384	25516

**Affiliated Colleges: Enrolled Students # 57139 during 2015-16**

**ENROLMENT OF STUDENTS FOR THE ACADEMIC YEAR 2015-16:  
AFFILIATED COLLEGES**

Courses	GEN	GEN	S. T.	S. T.	S. C.	S. C.	OBC	OBC	TOTAL	TOTAL
	M	F	M	F	M	F	M	F	M	F
UG	2843	2444	22835	27358	298	265	405	446	26381	30513
PG	39	57	43	63	4	4	7	5	93	129
PGDCA	1	1	9	12	0	0	0	0	10	13
GRAND TOTAL	2883	2502	22887	27433	302	269	412	451	26484	30655

**Table 2.40: Enrolment of students in the University during 2014-16**

**5.2.2 Pass percentage course-wise from 2014 to 2015 is given in the table below**

**Table 2.41: Programme-wise completion rate of students during 2014-2015**

Years	2014			2015		
	Appeared	Passed	Pass %	Appeared	Passed	Pass %
B A (Pass)	5134	3736	73	5943	3954	67
B A (Hons)	2748	2473	90	3135	2777	89
B Sc (Pass)	47	44	94	47	44	94
B Sc (Hons)	802	745	93	895	867	97
B.Sc.Home (Hons)	20	17	85	21	16	76
B Com (Pass)	472	320	68	411	270	66
B Com (Hons)	961	808	84	873	748	86
B B A (Hons)	176	167	95	120	113	94
B C A (Hons)	72	59	82	71	69	97
B S W	79	71	90	78	73	94
B Sc (Nursing)	57	57	100	44	44	100

<b>L L B</b>	162	40	25	90	4	4
<b>M Ed</b>	21	19	90	21	21	100
<b>B Ed</b>	413	373	90	361	316	88
<b>BA LLB (Hons)</b>	50	30	60	61	28	46
<b>B Ed SEDE</b>	143	83	58	151	58	38
<b>M B B S</b>				49	43	88
<b>B Tech</b>	111	83	75	119	71	60
<b>BTech(ECE)AC</b>	53	43	81	50	32	64
<b>B Tech (IT) AC</b>	4	4	100			
<b>B Tech (CE) AC</b>	58	41	71	62	44	71
<b>B Tech (ME) AC</b>	53	38	72	63	37	59
<b>B Tech (EEE) AC</b>	27	22	82	52	29	56
<b>B Tech (CSE) AC</b>	35	26	74	45	21	47
<b>M A</b>	655	606		654	617	94
<b>M Sc</b>	252	242		306	268	88
<b>M Com</b>	44	27	61	40	30	75
<b>M Lib Info Sc</b>	24	22	92	25	21	84
<b>M B A</b>	42	39		72	70	97
<b>MCA</b>	24	20	83	21	14	67
<b>M S W</b>	28	28	100	25	25	100
<b>PGDCA</b>	19	18	95	17	12	71
<b>PG Diploma</b>	19	18	95	86	83	97
<b>M D</b>	8	8	100	8	8	100
<b>M S</b>	2	2	100	2	2	100
<b>M Tech</b>				32	32	100
<b>M Phil</b>		13			18	
<b>Ph D</b>		111			123	

**5.2.4. Provide Category-wise details regarding the number of Ph.D / D.Litt. / D.Sc. theses submitted / accepted / resubmitted / rejected in the last two years.**

<b>Year</b>	<b>M Phil</b>	<b>Ph D</b>
<b>2015</b>	18	123

**Table 2.43: Theses submission / accepted during 2015**

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