

# **IQAC REPORT**

**For the period from 1<sup>st</sup> April, 2010 to 31<sup>st</sup> March, 2011**

**TEZPUR UNIVERSITY  
P.O. NAPAAM  
TEZPUR  
ASSAM  
784028**

## **1. Activities reflecting the goals and objectives of the institutions**

The University offers Doctor of Philosophy programme in 17 disciplines, Masters Degree programme in 20 disciplines, Post-Graduate Diploma in 3 disciplines, B. Tech. in 5 disciplines, Certificate programme in 1

discipline and integrated programme in 8 disciplines. The academic programmes have a distinct focus on science, technology and humanities, reflecting the objectives of the University.

Consistent with the objectives of the University the following programmes of study have so far been offered by the University:

1. B.Tech. in Computer Science & Engineering
2. B.Tech. in Civil Engineering
3. B.Tech. in Electronics & Communication Engineering
4. B.Tech. in Mechanical Engineering
5. B.Tech. in Food Engineering & Technology
6. Integrated B.Sc.B.Ed. (Physics/ Chemistry / Mathematics major in B.Sc.)
7. Integrated M.Sc. in Chemistry
8. Integrated M.Sc. in Mathematics
9. Integrated M.Sc. in Bioscience and Bioinformatics
10. Integrated M.Sc. in Physics
11. Integrated B.A.B.Ed. (English major in B.A.)
12. Integrated M.A. in English
13. M.A. in English
14. M.A. in Cultural Studies (Modular)
15. M.A. in Mass Communication and Journalism
16. M.A. in Sociology
17. M.A./M.Sc. in Mathematics
18. M.Sc. in Chemical Sciences
19. M.Sc. in Environmental Science
20. M.Sc. in Molecular Biology and Biotechnology
21. M.Sc. in Physics
22. M.Sc. in Nanoscience & Technology
23. M. Tech. in Polymer Science & Technology
24. M. Tech. in Information Technology
25. M. Tech. in Electronics Design & Technology
26. M. Tech. in Bioelectronics
27. M. Tech. in Energy Technology
28. Master of Computer Application (MCA)
29. Master of Business Administration (full-time)
30. Master of Business Administration (part-time)
31. Integrated M. Tech. in Food Engineering & Technology
32. M. Tech. in Food Engineering & Technology (lateral entry)
33. M. Tech. in Computational Seismology
34. P.G. Diploma in Translation (Hindi)
35. P.G. Diploma in Mobile and Multimedia Communication
36. P.G. Diploma in Tourism Management (PGDTM) (Modular)
37. One year Certificate in Chinese
38. **Ph. D. in** English & Foreign Languages, Cultural Studies, Mass Communication and Journalism, Sociology, Hindi, Chemical Sciences, Molecular Biology & Biotechnology, Mathematical Sciences, Environmental Science, Physics, Computer Science & Engineering, Electronics & Communication Engineering, Energy, Mechanical Engineering, Civil Engineering, Food Processing Technology (renamed as Food Engineering and Technology), Business Administration.

The University will start courses utilizing distance education techniques and modern communication technologies to provide access to higher education for a larger segment of the population with effect from the academic session 2011-12.

The Central library of the university regularly purchases a good number of books, subscribes to a large number of print and electronic journals, and other reading materials to cater to the needs of the students, faculty members, research scholars and other staff members of this university. The materials subscribed are made available to the user community through best of the practices like making the bibliographic information available in online digital format and hyper linking the online resources. A website is maintained for this purpose. Library online resources are available 24×7 on a 10mbps Internet speed. The library is open up to 10pm on weekdays.

## 2. New academic programs initiated (UG and PG):

Sl.No.	Name of The Department	Name of the Programme
1	Mass Communication and Journalism	i. Ph D ii. PG Diploma in Mobile & Multimedia Communication (PGDMMC) under UGC innovative scheme.
2	English & Foreign Languages	Integrated MA in English, Integrated B.A., B.Ed. (to start from Autumn Semester 2011)
3	Food Engineering & Technology	i) 4 year B.Tech in Food Engineering and Technology (started from Aug, 2010). ii) 4 year Integrated B.Tech and M.Tech. program for B.Sc. student (from August, 2011)
4	Chemical Sciences	i) Integrated M.Sc. in Chemistry ii) M.Sc. in Chemical Sciences
5	Mechanical Engineering	Ph.D.
6	Civil Engineering	Ph.D.
7	Physics	Integrated B.Sc.- B.Ed Course
8	Hindi	i) Post Graduate Diploma in Translation (Hindi) ii) Ph. D
9	Mathematical Sciences	(a) Integrated BSc - BEd (To be started from Autumn, 2011 Semester.)

## 3. Innovations in curricular design and transaction:

Sl.No.	Name of The Department	Innovations in Curricular Design and Transaction
1	Mass Communication and Journalism	Innovations in curricular design and transaction: PGDMMC syllabus with innovative field-based curriculum has been framed.
2	Civil Engineering	(i) Projects of practical importance to the campus life are given to the students to make them appreciate the applicability of engineering concepts. (ii) Inculcating the practice of solving numerical

		<p>problems based on ground situation</p> <p><b>(iii)</b> Inter-institute interaction to expose the students to the state of the art</p> <p><b>(iv)</b> Topics/problems that are important from competitive exam point of view is discussed additionally</p>
3	Electronics & Communication Engineering	A new course on Power Electronics has been introduced in B.Tech programme .
4	English & Foreign Languages	<p>i. New Course in Communication and Media started with the help of Department of Mass Communication and Journalism;</p> <p>ii. Telescoping of BA and B.Ed. courses.</p>
5	Environmental Science	<p>(i) Designed to encourage enquiry based teaching-learning providing opportunities to students to improve on understanding of content and practices.</p> <p>(ii) Case studies provisions</p> <p>(iii) A balanced blending of fundamental scientific principle and issues. Includes issues regional and global in an attempt to make the curricular responsive to changing world events, as the subject is highly topical.</p>
6	Mechanical Engineering	<p>The following new elective courses have been introduced:</p> <ol style="list-style-type: none"> <li>1. Computer Graphics and Solid modeling (ME421)</li> <li>2. Optimization Method in Engineering (ME422)</li> <li>3. Machine Tools and Machining (ME425)</li> <li>4. Finite Element Methods in Engineering (ME428)</li> <li>5. Gas Turbine and Compressor (ME429)</li> <li>6. Refrigeration and Air Conditioning (ME439)</li> <li>7. Quality Engineering (ME522)</li> <li>8. CAD/CAM (ME527)</li> <li>9. Energy Conversion and Waste Heat Recovery (ME528)</li> <li>10. Advanced Engineering Thermodynamics (ME535)</li> <li>11. Automobile Engineering (ME601)</li> <li>12. Computational Fluid Dynamics and Heat Transfer (ME602)</li> </ol>
7	Physics	<p>The syllabus content for the following courses has been newly designed</p> <p>a) Integrated M.Sc. course.</p> <p>b) B.Sc.-B.Ed. course</p>
8	Business Administration	<p>Different methods are used for transacting:</p> <ul style="list-style-type: none"> <li>• Case analysis by student groups</li> <li>• Designing and creating databases,</li> </ul>

		advertisements, <ul style="list-style-type: none"> <li>• Group and individual assignments on curricula topics</li> <li>• Lectures using audio-visual aids</li> <li>• Presentation by students, both, by using AV Aids as well as without the use of such aids</li> <li>• Role playing</li> </ul>
9	Energy	A new program of M.Tech. (Energy Management) in distance education mode has been proposed under <i>Innovative Program</i> of UGC.
10	Computer Science & Engineering	Two “add on” courses, viz., Java, and “Advanced Software Engineering” designed, to benefit interested students. The second one is designed in collaboration with Industry.
11	Hindi	Curriculum for PG Diploma in Translation (Hindi) & Ph.D course work done.
12	Mathematical Sciences	New elective courses were introduced in M.Sc. and Ph.D. Courses.
13	Sociology	<b>Design</b> <ul style="list-style-type: none"> <li>a. Diploma Course in Governance and Development through distance mode has been proposed</li> </ul> <b>Transaction</b> <ul style="list-style-type: none"> <li>a. Field based learning through project at MA level</li> <li>b. Use of ICT for learning, sharing and distributing course material. Viz course on Social Statistics involves use of statistical package</li> <li>c. Use of film and book reviews as part of learning</li> </ul>
14	MBBT	Course curriculums are designed after consultation with the subject expert from academia and industry.
15	Cultural Studies	New syllabi for PhD, MA has come into effect from Autumn Semester 2010.

#### 4. Inter - disciplinary programs started:

A number of courses, inter-disciplinary in nature, are being offered in the university. They are:

1. B.Tech. in Computer Science & Engineering
2. B.Tech. in Civil Engineering
3. B.Tech. in Electronics & Communication Engineering
4. B.Tech. in Mechanical Engineering
5. B.Tech. in Food Engineering & Technology
6. Integrated B.Sc.B.Ed. (Physics/ Chemistry / Mathematics major in B.Sc.)
7. Integrated M.Sc. in Chemistry

8. Integrated M.Sc. in Mathematics
9. Integrated M.Sc. in Bioscience and Bioinformatics
10. Integrated M.Sc. in Physics
11. Integrated B.A.B.Ed.

**Besides the above some other programs deserve a special mention.**

Sl.No.	Name of The Department	Inter Disciplinary component
1	English & Foreign Languages	3 Credit Media and Communication Course in the M.A.(English) Programme.
2	Chemical Sciences	Supports M.Sc. Nano Science
3	Business Administration	Management Courses are offered in Dept. of Computer Science & Engineering, Dept. of Food Processing Technology. In the MBA and PGDTM program, apart from regular classes, students also learn French/ Chinese and Yoga.
4	Energy	Research programme of the department are done in collaboration with the following departments of the university MBBT- (i) Antioxidant for energy application (ii) Disinfection using photocatalyst (iii) Algal biodiesel production Mechanical Engineering- (i) Biodiesel testing and application Chemical Sciences- (i) Heterogeneous catalyst production & Analysis for biodiesel production (ii) Platform chemicals production using Ionic liquid catalyst
5	Sociology	Offers a Course on Basic Sociology for Integrated MSc Programme.
6	MBBT	The Centre for Petroleum Biotechnology(CPBT) has initiated interdisciplinary project work involving the Departments like Environmental Sciences, Energy and Chemical Sciences of Tezpur University to cater to the research need of sponsoring organization (ONGCL) and the University.
7	Cultural Studies	MA, P.G Diploma and PhD in Cultural Studies

## **5. Examination reforms implemented**

As per the directives of the University Grants Commission vide letter DO no. F.1-2/2008 (XI Plan) dated 31<sup>st</sup> January, 2008, the academic reforms in the arena of the admission policy, examinations reforms including continuous internal assessment were approved vide resolution no. AC.05/2008/1/13 by the 5<sup>th</sup> meeting of the Academic Council held on 9<sup>th</sup> May, 2008. Further, it is to be mentioned here that Tezpur University has implemented continuous internal assessment, choice based credit system, semester system since its inception.

#### 6. Candidates who have qualified NET/SLET/GATE etc.

SN	Department	GATE	NET/SLET/JRF-LS	DBT/ICMR-JRF
1	Mass Communication and Journalism		01	
2	Electronics & Communication Engineering	02	Nil	--
3	English & Foreign Languages		SLET-04 (Manash Pratim Borah, Basabi Gogoi, Pamela Sarmah, Subhajita Bhadra)	
4	Environmental Science	01	3	03
5	Food Engineering & Technology	03	3	
6	Chemical Sciences	12	2	--
7	Mechanical Engineering	03	--	--
8	Physics	05	NET -1 / SLET - 1	--
9	Energy	03	--	--
10	Computer Science & Engineering	11	--	--
11	Mathematical Sciences	10	03	--
12	Sociology		02	
13	MBBT	09	08	04
<b>Total</b>		<b>59</b>	<b>SLET=5, NET=23</b>	<b>07</b>

#### 7. Initiative towards faculty development program:

Sl.No.	Name of The Department	Initiative towards faculty development program
1	Mass Communication and Journalism	1). Four Assistant Professors were deputed to attend Refresher Course organized by the Department in December, 2010. 2) One assistant professor attended a one week course in research methodology organized by academic Staff College of Hyderabad University in July, 2010,
2	Civil Engineering	Faculty sent on short term courses.
3	Chemical Sciences	Faculty members are encouraged to participate in Refresher/ orientation course, to attend seminar, workshop, conferences etc. as part of the development program.
4	Mechanical Engineering	1. The faculty members are sent for short term training/seminar/workshop conducted by different educational institutes like IIT, NIT, NITTTR and industry. Right now two faculty members have been sent for PhD Programme at IIT Guwahati. 2. The feedback given by the students are discussed in the department. Faculty are given scope for improvement in teaching.
5	Physics	Weekly faculty seminar arranged among the faculty

		members of School of Science & Technology.
6	Business Administration	Faculties are encouraged to undergo short-term training programs organized by the IIMs or ASC. Most of the faculty members had actively participated in the MBTI programme recently organized by the Department. Even few of them also participated in the FDP on Research Methodology.
7	Computer Science & Engineering	Department has supported, in principle- <ol style="list-style-type: none"> <li>1. research activity by faculty members and publication of research articles in various forums.</li> <li>2. the efforts of young faculty members to obtain PhD degrees.</li> </ol>
8	MBBT	One faculty member went abroad for post doctoral studies with DBT overseas fellowship and two more have received DBT Crest award for advance training abroad.
9	Cultural Studies	Juri Gogoi Konwar completed a refresher course from Department of Mass Communication and Journalism, Tezpur University in December 2010 Jayanta Vishnu Das, Assistant Professor, completed Orientation Course from Academic Staff College, JNU, New Delhi, in October 2010.

#### 8. Total number of seminars / workshops conducted (DETAILS IN ANNEXURE 1)

Sl. No.	Department / Centre	Seminar / workshop conducted
1	Mass Communication and Journalism	2
2	English & Foreign Languages	2
3	Environmental Science	1
4	Physics	4
5	Business Administration	3
6	Energy	2
7	Computer Science & Engineering	4
8	Hindi	1
9	Mathematical Sciences	1
10	Sociology	5
11	MBBT	2
12	Cultural Studies	3



**9. Number of Research Projects (DETAILS IN ANNEXURE 2 AND 2A)****a) Newly implemented**

Sl. No.	Department	Newly implemented (ongoing)
1	Mass Communication and Journalism	1
2	Electronics & Communication Engineering	5
3	English & Foreign Languages	3
4	Environmental Science	2
5	Food Engineering & Technology	9
6	Chemical Sciences DETAILS	3
7	Mechanical Engineering	1
8	Physics	09
9	Business Administration	07
10	Energy	6
11	Computer Science & Engineering	13
12	Mathematical Sciences	05
13	Sociology	1
14	MBBT	14 individual projects 1 departmental project from DBT and UGC-SAP, 1 from DRS
15	Cultural Studies	1

**b) Completed (DETAILS IN ANNEXURE 3)**

Sl. No.	Department	Completed
1	Electronics & Communication Engineering	03
2	Environmental Science	1
3	Chemical Sciences	06
4	Mechanical Engineering	2
5	Physics	14
6	Business Administration	03
7	Energy	1
8	Computer Science & Engineering	7
9	Mathematical Science	1
10	Sociology	1
11	Cultural Studies	1

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

Sl. No.	Department	Patents generated
1	Food Engineering & Technology	<ul style="list-style-type: none"> <li>Developed Amla chips for which patent. (File No. 101/Del/2010 on 27-04-2010) (P.</li> </ul>

		<p>Mishra)</p> <ul style="list-style-type: none"> <li>• Amla lemon based ready to serve drinks (enriched with polyphenols). (File No. 296/Del/2010 on 11-02-2010) (P. Mishra)</li> <li>• Process for making Sandahguri, a traditional rice product of Assam. (Mahanta, C.L., Baruah, B., and Rahman, N.)</li> <li>• Process for making Bhaja chawl, a traditional rice product of Assam. (Mahanta, C.L., Rahman, N. and Baruah, B.)</li> </ul>
2	Chemical Sciences	<p>i) Prof. S.K. Dolui – 04</p> <p>ii) Dr. R.K. Dutta – 02 (Filed)</p>
3	Physics	02 applied (by Prof. A. Kumar & Dr. P. Deb, one each).
4	Computer Science & Engineering	<p><i>Prof. S.K. Sinha's</i></p> <p>A Solution to ZML Rewriting Attack with Azzeding, Paul. Filed for European Patent (<i>Ref: 2008E00342FR(28 May), 2008P00166EP(22 June), Dock No. S9412EU-ro</i>)</p> <p>Conflict Detection in integration of Security Patterns with Paul and Azzedine field for US patent. (<i>Ref: 2008E00771FR (03 July), 2008P00382US</i>)</p>
5	MBBT	2 patents have been generated

## 11. New collaborative research programmes

Department	Program
English & Foreign Languages	SAP-DRS Project---collaboration amongst the faculty members in the Department and persons with knowledge/expertise in the thrust areas.
Chemical Sciences	<p>Collaboration with other departments of the University; MBBT, Mathematical Sciences, Physics as evident from some published papers. There are also on going research collaboration with NEIST, Jorhat; University of Hyderabad; CDRI, Lucknow; IIT, Madras; IICB, Kolkata; CDFD, Hyderabad; IIT, KGP; Tohoku University, Japan; Konkuk University, South Korea; IPF, Germany, etc.</p> <p>(i) No. of publications through inter-departmental collaboration= 15</p> <p>(ii) No. of publications through inter-institutional collaboration = 17</p>
Physics	<p>(i) The Department has academic and research collaboration with IUCAA, Pune, India.</p> <p>(ii) The Department also has a collaborative project on climate change modeling with C-MMACS, Bangalore.</p>
Energy	(i) Memorandum of Understanding with University of Nottingham, UK in the area of Energy Research has been

	signed. Formulation of research programme completed. (ii) A collaborative research project on Green Chemistry with Academy of Finland is awarded by DST, New Delhi on “Synthesis of platform biofuels from renewable sources using acid modified supported ionic liquid catalysts(Indo-Finnish project), P.I- Dr. D. Deka, Duration : 2011-14, Fund : 42.00(approx)*Fin. Sanction yet to be received
Computer Science & Engineering	Application of Data mining techniques in improving the classification accuracy of high resolution satellite data; Collaboration with NESAC, Shillong; Status: Ongoing (As Co-PI): Funded by : ISRO
MBBT	See ANNEXURE 2A

## 12. Research grants received from various agencies

Department	Grant Agencies	
Mass Communication and Journalism	Indian Institute of Public Administration, New Delhi on behalf of Ministry of Consumer Affairs, Government of India, New Delhi, Rs 2,31.600/- for one year,	
Electronics & Communication Engineering	AICTE, UGC, DST	
English & Foreign Languages	UGC & SEPHIS	
Environmental Science	(i) Department of Science & Technology (Govt. of India) (ii) Ministry of Environment & Forest (Govt. of India)	
Food Engineering & Technology	<b>Grant Agencies</b>	<b>Grants</b>
	UGC, DBT, DRDO, MoFPI	Rs. 122 lakhs (ongoing)
	DST, MoFPI, UGC	Rs. 61 Lakhs (defended)
	MoFPI	Rs. 40 lakhs (Sanctioned)
	MoFPI	Rs. 223 lakhs (Food Testing Laboratory (commercial))
Chemical Sciences	CSIR,DST,BRNS,UGC,DRDO,AICTE etc.	
Physics	1. IUAC, New Delhi, 2. DAE, New Delhi, 3. DST, New Delhi, 4. ISRO, Bangalore 5. UGC, New Delhi, 6. DBT, New Delhi.	
Business Administration	<b>Sl.NO</b>	<b>Funding Agencies</b>
	1	UGC, New Delhi
	2	ICSSR, New Delhi
	3	NECRD, IGNOU, New Delhi
	4	Ministry of Tribal affairs, New Delhi
	5	Centre for Microfinance, IFMR, Chennai
	6	NEDFI
	7	AICTE
	8	Sarva Siksha Abhijan Mission
Energy	DST, AICTE, UGC	
Computer Science &	AICTE, DIT, FIST, UGC, ISRO, DRDO, DST	

Engineering	
Mathematical Sciences	NBHM Book Grant: Rs. 2, 99,593.00 NBHM Conference/Workshop Grant: Rs. 2, 80,000.00 DST Conference/Workshop Grant: Rs. 50,000.00
Sociology	Rs 50,000/- ICSSR North Eastern Regional Council for Sociological study of electoral politics in North East India
MBBT	DBT, DST, UGC, ICMR and ONGC
Cultural Studies	ICSSR, New Delhi

### 13. Details of research scholars

Sl. No.	Department	Continuing	Awarded (01 April 2010 31 March 2011)
1	Mass Communication and Journalism	06	Does not arise (Programme launched only in July, 2010)
2	Civil Engineering	01	Nil
3	Electronics & Communication Engineering	15	Nil
4	English & Foreign Languages	27	01
5	Environmental Science	22	Nil
6	Food Engineering & Technology	15	Nil
7	Chemical Sciences	50	01
9	Physics	17	01
10	Business Administration	21	03
11	Energy	18	Nil
12	Computer Science & Engineering	45	02
13	Hindi	04	Nil
14	Mathematical Sciences	20	01
15	Sociology	03	Nil
16	MBBT	28	01
17	Cultural Studies	20	Nil

### 14. Citation index of faculty members and impact factor

Sl. No.	Department	Name of the Faculty	Impact factor of Journal
1	Civil Engineering	Dr. Atanu Kumar Dutta	Journal of Structural Control : 0.98
		Dr. Kamal Uddin Ahamad	Desalination: 2.034 Int. J. Environ. Res.: 0.787
		Dr. Tapas Karmaker	Journal of Hydrology: 2.433 Hydrological Processes: 2.002 Sadhana Academy Proceedings in Engineering Sciences:0.276

		Dr Briti Sundar Sil	Journal of Hydrology: 2.433
2	Electronics & Communication Engineering		Impact factor-1.2, citation index-5
3	Environmental Science	Baruah K. K.	Agronomy, Agron.Sustain.Dev. 30(2010) 733-742© INRA, EDP Sciences, 2010 DOI : 10.1051/agro/2010021 IF: 1.8
		Baruah K. K.	Physiol.Mol.Biol. Plants, 16(1)-January, 2010 (Sprinzer) IF:0.6
		Baruah K. K.	Agriculture, Ecosystem and Environment.(Elsevier) 124 :105-113, 2008 IF:2.308
		Baruah K. K.	Acta Physiologiae Plantarum (Springer) 30: 569-578,2008 IF:0.95
		Baruah K. K.	Agron. Sustain.Dev. (EDP) 28:181-186, 2008 IF:1.0
		Baruah K. K.	Science (USA) 316:204-205, 2007 IF:26.37
		Baruah K. K.	Journal of Plant Nutrition. (Taylor & Francis) 30:1871-1883, 2008 IF:0.593
		Baruah K. K.	Physiologia Plantarum (Blackwell) 134: 303-312, 2008 IF:2.192
		Baruah K. K.	Chemosphere (Elsevier) 59:1677-1684, 2005 IF:3.054
		Baruah K. K.	Applied Ecology and Environmental Research (Hungary) 6: 99-122, 2008 IF 0.6
		Baruah K. K.	Chemosphere (Elsevier) 74: 590 – 598, 2009 IF:3.054
		Baruah K. K.	J. Agronomy & Crop Sci. 192:228-232 (2006) IF: 2.0
		Sarma, K.. P.	Indian J. Physics, 82: 189-193, IF:0.265
		Haque, R.R.	J. Hazardous Materials, 154:1013-1018, 2008, IF:2.975
		Haque, R.R.	Science of Total Environment, 392: 30-40, 2008, IF:2.579
		Haque, R.R.	Environmental Monitoring and Assessment 110: 217-225, 2005, IF:1.03
		Haque, R.R.	Environmental Monitoring and Assessment,105: 411-417, 2005, IF:1.03
		Haque, R.R.	Curr. Sci. 93: 1221-1223, 2007, IF:0.8
		Devi, K. A.	Biodiversity and Conservation 15: 2439-2456, 2006, IF:1.42
		Devi, K. A.	Current Science 9 : 871-873, 2006, IF:0.8
4	Food	Prof. SC Deka	Average Citations per item: 1.40; h-index: 2.

	Engineering & Technology		
		Prof. CL Mahanta	Average Citations per item: 0.33; h-index: 1.
		Dr. RK Duary	Average Citations per item: 1; h-index: 2.
		<b>Article</b>	<b>Impact Factor</b> <b>Citations</b>
		Sharma, K.K.; Dubey, J.K.; Deka, S.C.; Chandrasekaran, S; Kalpana; Pratigya Gupta; Anoop Kumar; Vandana; M Jaya Devi; B Singh; A A L H Baruah, J S Kennedy, I D Sharma; S K Patyal and A Nath. (2007). Dissipation kinetics of spiromesifen on tea ( <i>Camellia sinensis</i> ) under tropical conditions. <i>Chemosphere</i> , <b>68(4)</b> : 790-796.	<b>3.253</b> 2
		Kaushik, J. K., Kumar, A., Duary, R. K., Mohanty, A. K., Grover, S. and Batish, V. K. (2009). Functional and probiotic attributes of an indigenous isolate of <i>Lactobacillus plantarum</i> . <i>PLoS ONE</i> <b>4(12)</b> : e8099. doi:10.1371/journal.pone.0008099	<b>4.351</b> 2
		Konwarh, R., Kalita, D., Mahanta, C.L., Mandal, M and N. Karak. (2010) Magnetically recyclable, antimicrobial, and catalytically enhanced polymer-assisted “green” nanosystem- immobilized <i>Aspergillus niger</i> amyloglucosidase. <i>Appl Microbiol Biotechnol</i> , DOI 10.1007/s00253-010-2658-4.	<b>2.896</b> 0
		Duary, R. K., Batish, V. K. and Grover, S. (2010). Expression of atpD gene in putative indigenous probiotic <i>L. plantarum</i> strains under <i>in vitro</i> acidic conditions by RT-qPCR. <i>Research in Microbiology</i> , doi:10.1016/j.resmic.2010.03.012.	<b>2.154</b> 0
5	Chemical Sciences	Kotoki D and Deka S. C. (2010). Baking loss of bread with special emphasis on increasing the water holding capacity. <i>J. Food Sci. Technol.</i> , <b>47 (1)</b> : 128-131.	<b>0.318</b> 0
		Mahanta, C.L. and Bhattacharya, K.R. (2010). Relationship of starch changes to puffing expansion of parboiled rice. <i>J. Food Sci. Technol</i> , <b>47(2)</b> : 182-187.	<b>0.318</b> 0
		<b>N.S. Islam</b>	1. Inorganic Chemistry, American Chemical Society, Accepted for publication (June, 2011). Impact Factor: 4.325(2010) 2. Pharmacological Research, Elsevier, In Press (April, 2011), Impact Factor: 3.929
		<b>S.K. Dolui</b>	1. Journal of Luminescence 130, 2242-2246, (2010). Impact Factor - 1.847 2. J. Appl. Polym. Sci. 116, 1138–1145, (2010). Impact Factor - 1.203 3. Materials Chemistry and Physics 124, 738–743, (2010). Impact Factor - 2.015 4. J. Polym. Mater. , 27, 113-123, (2010). Impact Factor - 0.3

			<p>5. Materials and Manufacturing Processes, 25, 700-704, (2010). Impact Factor - 0.968</p> <p>6. Mat. Chem. Phys. MAC-142581-6 (2010). Impact Factor - 2.015</p> <p>7. J. Coating Tech. Res. DOI 10.1007/S 11998-010-9265-2. Impact Factor - 0.838</p> <p>8. Materials and Manufacturing processes 2010 (Article in Press). Impact Factor - 0.968</p> <p>9. J. Electron. Mater. 2010 (Accepted). Impact Factor - 1.428</p> <p>10. Thin Solid Films 2010 (Article In press). Impact Factor - 1.727</p> <p>11. J. Appl. Polym. Sci. 2010 (Accepted). Impact Factor - 1.203</p> <p>12. Journal of Experimental Nanoscience, 2010, (Article in Press). Impact Factor - 0.614</p> <p>13. Journal of Applied Polymer Science, 2010, (Article in Press). Impact Factor - 1.203</p> <p>14. Journal of Supercritical Fluids, 2010, doi:10.1016/j.supflu.2010.09.027 (Article in Press). Impact Factor - 2.639</p> <p>15. Journal of Composite Materials, 2010, (Accepted). Impact Factor - 0.806</p> <p>Polymer International, (Accepted). Impact Factor - 2.137</p>
		<b>T.K. Maji</b>	<p>1. Polymer Bulletin- 2011 Impact Factor- 1.014</p> <p>2. Composites Part A: Applied Science and Manufacturing- 2011, Impact Factor- 2.410</p> <p>3. Wood Science &amp; Technology, Impact Factor- 1.737</p> <p>4. Journal of Applied Polymer Science, Impact Factor- 1.203</p> <p>5. Composite Science &amp; Technology, Impact Factor- 2.901</p> <p>Polymer Bulletin, Impact Factor- 1.014</p>
		<b>N. Karak</b>	<p>1. Carbon, Elsevier, 2010, Impact factor: 4.504</p> <p>2. Journal of applied polymer science, Wiley online library, 2010, Impact factor: 1.18</p> <p>3. Material Chemistry and Physics, Elsevier, 2010, Impact factor: 2.015</p> <p>4. Progress in Organic Coatings, Elsevier, 2010, Impact factor: 1.669,</p> <p>5. Journal of Applied Polymer Science, Wiley Online Library), 2010, Impact factor : 1.18</p> <p>6. Polymer degradation and stability, Elsevier), 2010, Impact factor: 2.154</p> <p>7. Carbohydrate polymer, Elsevier), 2010, Impact factor : 3.16</p> <p>8. Chinese Journal of Polymer Science, Springer, 2010, Impact factor : 0.526</p> <p>9. Colloids and Surfaces B: Biointerfaces, Elsevier, 2010 Impact factor 2.600</p>

			<p>10. Applied microbiology and biotechnology, Springer,2010, Impact factor :3.264</p> <p>11. Journal of Polymer Science Part A:P Polymer Chemistry, Wiley online library),2010, Impact factor 3.971</p> <p>12. ChineseJournal of Polymer Science, Springer:2010, Impact factor :0.526</p> <p>13. Journal of applied polymer science, Wiley online library,2010, Impact factor :1.18</p> <p>14. Colloids and Surfaces B:Biointerfaces, Elsevier,2011 Impact factor :2.600</p> <p>15. Polymer Journal, Nature,2011, Impact factor :1.386</p> <p>16. Progress in organic coating, Elsevier,2010, Impact factor: 1.669</p> <p>17. Journal of polymer environ. Springer,2010, Impact factor: 1.571</p> <p>18. Macromol. Mater.Engin, Wiley online libray, 2010, Impact factor: 1.742</p> <p>19. Polymer advanced technology, Wiley online library, 2010, Impact factor: 1.532</p> <p>20. International journal of polymeric materials, Wiley online library,2011, Impact factor: N/A</p>
		<b>R.C. Deka</b>	<p>1. Chem. Phys. Lett. 500(2010)65 (Elsevier):2.291</p> <p>2. Catalysis Letters 140 (2010)205 (Springer):2.021</p> <p>3. J. Mol. Struc: THEOCHEM 955(2010)53 (Elsevier):1.216</p> <p>4. Chem.Phys. Lett. 490(2010)184 (Elsevier):2.291</p> <p>5. J. Comput. Chem. 31(2010)2476(Wiley):3.769</p> <p>6. J. Mol. Modelling 16(2010)411 (Springer):2.336</p> <p>7. J. Nanoscience &amp; Nanotechnology 10(2010)2495 (American Scientific Publishers ):1.44</p> <p>8. J. Nanoscience &amp; Nanotechnology 10(2010)2434 (American Scientific Publishers):1.44</p> <p>9. J. Soc. Inf. Display 18(2010)211 (Society for Information Display):1.033</p> <p>10. Medicinal Chem. Research 19(2010)1 (Springer):1.037</p> <p>11. J. Phys. Chem. C (ACS) (Accepted):4.224</p> <p>12. Chem. Phys. Lett. (Elsevier) (Accepted): 2.291</p> <p>13. Physica B: Condensed matter (Elsevier) (in press): 1.056</p> <p>Comput. Theo. Chem. 964 (2011)257 (Elsevier):1.216</p>
		<b>R. Borah</b>	<p>1. Synthetic Communications (Taylor And Francis) Impact Factor -0.961</p> <p>2. Bulletin of the Korean Chemical Society (Korean Chemical Society) Impact Factor - 0.936</p> <p>3. Green Chemistry Letters and Reviews (Taylor and Francis)</p> <p>4. Bulletin of the Catalysis Society of India (Catalysis Society of India)</p>



			5. Journal of Chemical Sciences (SpringerLink) (accepted) Impact Factor - 0.993 Monatshefte für chemie (SpringerLink)(accepted) Impact Factor - 1.312
		<b>Dr. Ashwini K. Phukan</b>	1. Dalton Trans – 2010, Impact Factor- 4.1 2. Dalton Trans – 2010, Impact Factor- 4.1 3. Inorg. Chim. Acta – 2010, Impact Factor – 2.3 4. Inorg. Chem – 2010, Impact Factor – 4.3 5. J. Organomet. Chem – 2010, Impact Factor – 2.3 6. Inorg. Chem – 2010, Impact Factor – 4.3
		<b>Dr. A.J. Thakur</b>	1. European Journal of Organic Chemistry 2011, 2301-2308, Impact Factor - 3.096 2. Int. Biodeter. Biodegr. 2011, doi:10.1016/j.ibiod.2011.04.001 (in press), Impact Factor - 2.252  3. Green Chem. Lett. & Rev. 2011, 4, 131-135.  4. Synthetic Communication 2011, 41, 1071-1076. Impact Factor - 1.00  Taludar, D. J. ; Saikia, L. ; Thakur, A. J. Synlett, 2011, (accepted), Impact Factor - 2.69
		<b>Dr. P. Puzari</b>	Chem.phys.lett. 496 (2010) 341-346. Impact factor – 2.291
6	Mechanical Engineering	<b>Hazarika, S. M.</b>	(To Appear in 2010): Qualitative Spatio-Temporal Representation and Reasoning - Trends and Future Directions. ISBN: 97-8161-692-8681. IGI Global, USA.
		<b>Hazarika, S. M.</b> (2010)	Qualitative Pre-processing for Semantic Search of Unstructured Knowledge. In: Ubiquitous Developments in Knowledge Management- Integrations and Trends: Advances in Knowledge Management series. Ed. Murray Jennex, pp. 252-263, IGI Global.
		<b>Hazarika, S. M.</b> (2010)	Carving Rule-Based Filters within Spatio-Temporal Logic. National Workshop on Network Security. Tezpur, India, June 2010.
		Bhowmick, A. and <b>Hazarika, S. M.</b> (2010)	iLearn Inducing Univariate Decision Trees from Symbolic Datasets. National Workshop on Design and Analysis of Algorithms, Tezpur.
		<b>Dutta P. P.</b> , B.C. Jain	Modification and Performance Testing of a Slow Speed Diesel Engine Purely Producer Gas Power Operation, National Seminar on Renewable Energy Technologies: Issues and Prospects (RETIP-2010)", on 24-25 September, 2010 at NERIST. India.
		<b>R. Das</b>	Estimation of radius ratio in a fin using inverse CFD model, <b>CFD Letters</b> , Vol. 03(1), (in press), <b>2011</b> . Journal Impact Factor =0.233, Citation Index= 0
		<b>R. Das</b>	S.C. Mishra, T.B. Pavan Kumar and R. Uppaluri, An inverse analysis for parameter estimation applied to a non-Fourier conduction – radiation problem, <b>Heat</b>

			<b>Transfer Engineering</b> , Vol. 32(6), pp.455-466, <b>2011</b> . Journal Impact Factor =0.841, Citation Index= 0
	M. Ajith, <b>R. Das</b> , R. Uppaluri and S.C. Mishra		Estimation of boundary surface heat fluxes in a square enclosure with an embedded design element, <b>Journal of Thermophysics and Heat Transfer</b> , Vol. 24(4), pp. 845-849, <b>2010</b> . Journal Impact Factor =0.832, Citation Index= 0
	B.K. Debnath and <b>R. Das</b>		Prediction of performance coefficients of a three bucket Savonius rotor using artificial neural network, <b>Journal of Renewable and Sustainable Energy</b> , Vol. 02(4), pp. 043107-1-10, <b>2010</b> . Journal Impact Factor = new AIP journal (not found), Citation Index= 0
	<b>R. Das</b> , S.C. Mishra, and R. Uppaluri		Inverse analysis applied to retrieval of parameters and reconstruction of temperature field in a transient conduction-radiation heat transfer problem involving mixed boundary conditions, <b>International Communications in Heat and Mass Transfer</b> , Vol. 37(1), pp. 52-57, <b>2010</b> . Journal Impact Factor =1.383 Citation Index= 2
	<b>T.K.Gogoi</b> and D.C. Baruah		"A Cycle Simulation Model for Predicting Performance of a Diesel Engine Fuelled by Diesel and Bio-diesel Blends", <i>Energy</i> 35 (2010) 1317–1323 Journal Impact Factor 2.952, Citation Index= 4
	<b>T. K. Gogoi</b> and D. C. Baruah		"The Use of Koroch Seed Oil Methyl Ester Blends as Fuel in a Diesel Engine" , <i>Applied Energy</i> 88 (2011) pp. 2713-2725, Journal Impact Factor 2.209, Citation Index= Nil
	<b>T. K. Gogoi</b> , Shovana Talukdar and D. C. Baruah		"Comparative Analysis of Performance and Combustion of Koroch Seed oil and Jatropa Methyl Ester Blends in a Diesel Engine" in the proceedings of World Renewable Energy Congress (WREC), 2011 held in Linkoping, Sweden from May 8-13, 2011, Int'l Conf. paper
	<b>T. K. Gogoi</b> and D. C. Baruah		"Energetic Performance Analysis of a Diesel engine Fuelled with Koroch Seed Oil Methyl Ester and its Diesel Blends" in the proceedings of Int'l Conference on thermal energy and environment(INCOTEE),2011 held in Kalasalingam University, Madurai from 24-26th March, 2011, Int'l Conf. paper
	<b>S K Singh</b> , and R. Tiwari		Identification of a Multi-Crack in a Shaft System using Transverse Frequency Response Functions, Mechanism and Machine Theory, (in press), 2010.
	<b>S. K. Singh</b> , R. Tiwari and S. Talukdar		Multi-crack Identification using Forced Responses from a Rotor System, Proc. of the Third International Conference on Vibration Engineering and Technology of Machinery, VETOMAC-VI, Dec. 13-15, 2010, IIT Delhi, India.
	<b>S. K. Singh</b> , R. Tiwari		, A Novel Normalization Procedure of Quadratic

		and S. Talukdar	Coefficients in a Multi-Crack Identification Algorithm for a Shaft System, Proceedings of IFToMM 8th International Conference on Rotordynamics, September 12-15, 2010, KIST, Seoul, South Korea
		<b>Sanjib Banerjee</b> , P.S. Robi and A. Srinivasan	Constitutive Modeling for High Temperature Flow Behavior of Al-6.2%Cu-0.6%Mg Alloys with Trace Additions of Sn, Metallurgical and Materials Transactions A , (communicated), 2010.
		<b>Sanjib Banerjee</b> , P.S. Robi and A. Srinivasan	Calorimetric Study of Precipitation Kinetics of Al-Cu-Mg and Al-Cu-Mg-0.06 wt.% Sn Alloys , Metals and Materials International, Accepted (DOI. 10.1007/s12540-010-0802-4),2010.
		<b>Sanjib Banerjee</b> , P.S. Robi, A. Srinivasan and Praveen Lakavath	Effect of Trace Additions of Sn on Microstructure and Mechanical Properties of Al-Cu-Mg Alloys, Materials and Design, pp. 4007-4015, Volume 31, 2010.
		<b>Sanjib Banerjee</b> , P.S. Robi, A. Srinivasan and Praveen Lakavath	High Temperature Deformation Behavior of Al-Cu-Mg Alloys Micro Alloyed with Sn, Material Science and Engineering A, pp. 2498-2503, Volume 527, 2010.
		<b>Sanjib Banerjee</b> , P.S. Robi, A. Srinivasan and Praveen Lakavath	High Temperature Flow Behavior of Al-Cu-Mg Alloys Microalloyed with Sn, 3rd International & 24th All India Manufacturing Technology Design and Research Conference, December 13-15, 2010, Page 983-988, Andhra University, Andhra Pradesh
7	Physics	Prof. A. Kumar	Citation index: ~ 120, Paper published: (i) In Journals of Impact factor < 1 : 15 (ii) In journals of Impact factor between 1 to 2 : 15 (iii) In journals of Impact factor between 2 to 3 : 14 In journals of Impact factor > 3 : 07
		Dr. P. Deb	(i)Research Papers in Journals (published + submitted).....06 (ii) Invited Lectures in Seminars, Symposia and Conference.....02 (iii) Presentations in Seminars, Symposia and Conference.....03 (iv)Total number of citations..... 03
8	Business Administration	Dr. Mrinmoy K. Sarma	Tourism Management (Elsevier) IF: 1.882
9	Energy	Gogoi, T. K. and Baruah D.C.	Applied Energy, 2011 IF: 2.209
		Hatibaruah D. and D. C. Baruah	Journal of food Processing and Preservation, 2010 IF: 0.421
		Nair R G, Tripathi A.M. and Samdarshi S.K.	Environmental Progress & Sustainable Energy, 2011 IF: 1.054
		Nair R G, Paul S.. and Samdarshi S.K.	Solar Energy Materials and Solar Cells(Elsevier) 2011 IF:3.858
		Deka, D., Sadai, P. and	Energy Sources, Part A: Recovery, Utilization and

		Chutia R.	Envoronmental Effects, IF: 1.094
		Hazarika, B. and Deka D.	Modern use of biomass fuels in domestic energy sector: A household level case study in Chirang district of Assam IF:1.094
		Hiloidhari M, Baruah DC	Renewable and Sustainable Energy Reviews, 2011 IF: 4.842
		Singh M. K., Mahapatra S., Atreya S. K. and Givoni B	Energy and buildings (Elsevier) 2010 IF:1.593
		Saikia J.P , Paul S. , Konwar B K and Samdarshi S K	Colloids and Surfaces B: Biointerfaces(Elsevier) 2010 IF:2.6
		Lahkar P. J. and Samdarshi S. K	Renewable and Sustainable Energy Reviews (Elsevier) 2010 IF:4.842
		Gogoi T. K. and Baruah D. C.	Energy, 2010, IF: 2.952, Citation :5
		Singh M. K., Mahapatra S., and Atreya S. K.	Building and Environment (Elsevier) 2010 IF: 1.797 Citation: 5
		Kusre B.C. Baruah D.C. Bordoloi P.K. and Patra S.C.	Applied Energy, 2010 IF: 2.209, Citation: 4
		Saikia J.P , Paul S. , Konwar B K and Samdarshi S K	Colloids and Surfaces B: Biointerfaces(Elsevier) 2010 IF: 2.6
		Tripathi A. M., Nair R. G. and Samdarshi S. K.	Solar Energy Meterials and Solar Cells(Elsevier) 2010 IF:3.858 Citation 1
		Phukan, M.M., Chutia, R.S., Konwar, B.K. and Kataki, R.	Applied Energy, 2010, IF 2.209, Citation: 1
10	Mathematical Sciences		(b) Prof. N. Deka Baruah (Scopus h-index: 4, Overall IF in 2010: 0.65) (d) Dr. Munmun Hazarika (The overall impact factor for 2010: 0.27) (f) Dr. Rupam Barman (Overall IF in 2010: 0.43) (g) Dr. Bhupen Deka (Scopus h-index: 2, Overall IF in 2010: 0.85) (j) Mr. Shuvam Sen (Scopus h-index 1, Overall IF in 2010: 1.35)
11	MBBT		Average impact factor 2.5

## 15. Honors/ Awards to the faculty

Department	Honors / Awards
Civil Engineering	Dr. Atanu Kumar Dutta selected under Mentoring of Engineering teachers by INAE fellows for the year 2011.
Environmental Science	Dr. Manish Kumar, appointed as an Editor of the International Journal of Geosciences (IJG) from 16th February 2011
Food Engineering & Technology	Dr. R. K. Duary- Awarded FIRST best paper published in the “Technical Aspects Area” in the Indian Dairyman Paper entitled “Probiotic-A magic bullet” and a cash of Rs. 5000/-
Chemical Sciences	Prof. N. S. Islam, Chemical Research Society of India (CRSI) ‘Bronze Medal’ for the year 2010.
Physics	Dr. P. Deb, Associate Professor received Max Planck Fellowship, Max Planck Society, Germany (2009-2012).
Energy	1. Prof D C Baruah is offered Indian Distinguished Visiting Fellowship (IDVF 2010) by the University of Nottingham, UK during April, 11 to July, 10, 2010
MBBT	Dr. S. K. Ray has received DBT Overseas Associate ship for North Eastern state Researchers 2010 Prof. B. Konwar and Prof A.K. Mukherjee has received DBT Crest Award Prof. A. K. Mukherjee is appointed as Senior Associate Editor, Journal of Venom Research (an International journal published from U.K.), (ii) Prof. A. K. Mukherjee has received the Dr. J. N. Baruah Memorial Award from Assam Science Society.
Cultural Studies	<b>a.</b> Consultancy to UNESCO project of Intangible Cultural Heritage has been awarded to Prof Pradip Jyoti Mahanta of the Department. <b>b.</b> Consultancy to Arna Jharna: Desert Museum of Rajasthan by Dr. Parasmoni Dutta.

## 16. Internal resources generated

Department	Resource generated
English & Foreign Languages	The Department runs three(3) month certificate courses in Basic and Advanced French on a purely self funding basis.
Food Engineering & Technology	Department carries out testing of various food samples for different industries on payment basis.
Mechanical Engineering	<ol style="list-style-type: none"> <li>1. Development of a test set up to find Darcy's Friction Factor</li> <li>2. Design and fabrication of passive suspension in an ambulance stretcher</li> <li>3. Design and development of a fluidized bed tea dryer (on going)</li> <li>4. Design, development and performance Testing of low cost high performance solar air Heater (Jointly with department of Energy</li> </ol>

	5. Design and fabrication of a hybrid electric vehicle (Jointly with Department of ECE, (ongoing))
Physics	Analytical Instrument use charges for SEM, XRD & Photo-Luminescence.
Business Administration	1. Revenue Generated from the MDP and FDP 2. TUMBA Development Fund 3. Revenue generated from MBA (PT) course
Computer Science & Engineering	Self-finance DOEACC 'O' and 'A' level programme. Consultancy works for state government and Defence personal

Finance Section of the university estimates an amount of Rs. 372.33 Lacs as the internal generation for the period 2010-2011.

#### 17. Details of departments getting SAP, COSIST (ASSIST) / DST.FIST, etc. assistance/ recognition

Department	Details			
Mass Communication and Journalism	UGC Innovative Project Scheme			
Electronics & Communication Engineering	1) DST-FIST of fund Rs. 140 lacs has been received for setting of Micro fabrication facility laboratory.			
English & Foreign Languages	SAP-DRS Project (2009-2014) Total allocation for the period: Rs. 32,00000/- (thirty two lakh) <b>Thrust Areas:</b> 1. Life Writing in Assam 2. Travel and migration narratives 3. The shaping of modern Assamese: indigenous and southeast Asian influences.			
Food Engineering & Technology	Assistance for B. Tech Programme from MoFPI (Defended)			
Chemical Sciences	SAP, DST(FIST) Continuing			
Physics	1) DST-FIST assistance in 2005 by order no. SR/FST/PSI/080/2004 dated 25 <sup>th</sup> April, 2005. Total sanction amount Rs. 29.00 lakhs. 2) DRS-SAP assistance from UGC in 2010 by letter ref. no. F.530/7/DRS/2010 (SAP-I) dated Nov. 2010. Total sanction amount Rs.71.50 lakhs.			
Energy	DST-FIST in 2006			
Computer Science & Engineering	1. UGC SAP DRS Phase I grant of Rs 71 Lakhs for 2009-2014. 2. DST FIST Level I grant of Rs 25 Lakhs during 2005-2009			
Mathematical Sciences	SAP (DRS-I) Approved for the period 2011-16 ( Rs. 20.50 lakh+1 Project Fellow)			
MBBT	Name of the Sheme	Time period	Funding agency	Rupees in Lakh
	DRS-1, UGC-SAP	2009- 2014 (5 –year)	UGC	42 + 2 project fellows
	DST-FIST	2008 – 13	DST	43.39

		(5 years)		
	DBT Strengthening of teaching and research in North east	2009 -15 (5 years)	DBT	298.0

## 18. Community services

Department	Details
Mass Communication and Journalism	<b>Street plays on various social issues</b> : This was conducted in several places including one in a rural area about 100 kilometre away from TU campus Coordinated by Course Instructor concerned Ms Joya Chakrabarty, Asstt. Prof.,
English & Foreign Languages	Teachers of the Department have been associated with programmes directed towards improvement of teaching in schools in and around the area. They have also participated in training and awareness building programmes for the university employees and in the neighbouring areas.
Environmental Science	An awareness programme on the theme “Life with less plastic” workshop & campaign done at school of Tezpur : (i) Tezpur Academy- 2005 (ii) Panchmile HS School- 2006 (iii) Napam ME School- 2007 Have been organizing waste management campaign programme in the Campus
Food Engineering & Technology	1. Department has established one Regional Food Testing Laboratory as commercial venture which will cater the needs of the whole North East. 2. Department is offering Science Societal Activities through a funded DBT projects (2009-2012). 3. Faculty members have been invited as speakers for conferences organized by agencies such as ICC, MNRE, NERAMAC, local NGOs etc.
Physics	Popular lectures & sky observation programme.
Business Administration	All members of this department are contributing to the corporate life of the university through their involvement in the university week, convocation, university school management committee, vigilance cell, sexual harassment cell, TUEE etc. Faculty members are also involved in delivering lectures in various entrepreneurship development programmes conducted by different government.
Energy	1. Installed Solar lights in the Tezpur University campus. 2. Solar water heaters and solar PV power plants are being installed in the campus.
Computer Science & Engineering	Development of computerization software for the University Running the CEC EDUSAT centre in the University. For Unemployed youth the Department offers DOEACC ‘O’ and ‘A’ level programme. Every year

	about 80-100 unemployed youths get trained through these programmes. Besides these, from time to time the department conduct short term specialized training programme for Defence officers in this region.
Sociology	Students participate in community services in association with the NSS
MBBT	Training of rural population in diagnosis of malaria using RDTs and malaria microscopy and as field drug dispensers. Also conducted programs ( Street plays and puppet shows) for health awareness. Drinking water quality of university campus and neighboring area is assed by the department

The University is in the process of adopting a school in the neighborhood.

#### 19. Teachers and officers newly recruited

Department	Teachers / Officers	Position
Mass Communication and Journalism	1. Ratul Chandra Nath	Technical Officer
Civil Engineering	1. Dr. Atanu Kumar Dutta 2. Dr. Briti Sundar Sil 3. Mr. Tapas Karmaker	Associate Professor Assistant Professor Assistant Professor
Electronics & Communication Engineering	Dr. Santanu Sarma (on promotion) Mr. Jibon Das Mr. Rupak Sarma	Associate Professor Technical Assistant Laboratory Assistant
Environmental Science	Dr. S.S. Bhattacharjee Ms. Sumi Handique Mr. Manish Kumar Jayanta Borah Pranjal Goswami	Assistant Professor   Senior Technical Assistant Technical Assistant
Food Engineering & Technology	Mr. D. Seth Dr. R. K. Duary Mr. D. Kalita Mr. D.K. Deka	Assistant professor Assistant professor Technical Officer Sr. Technical Assistant
Chemical Sciences	Dr. Galla V. Karunakar Mr. Biraj Jyoti Borah Mr. Arup Chakrabartty	Assistant Professor Senior Technical Assistant Technical Assistant
Mechanical Engineering	Prof. S. M. Hazarika Dr. Ranjan Das Mr. Probin Haloi Mr. Sachin Kr. Singh Mr. Sanjib Banerjee	Professor Assistant Professor Assistant Professor Assistant Professor Assistant Professor
Physics	Mr. R. Biswas Dr. P. Nath Dr. A. Pathak	Assistant Professor Assistant Professor Assistant Professor



Business Administration	Mridul Dutta	Assistant Professor
	Tarun Jyoti Borah	Technical Assistant
Energy	Dr. D. K. Bora	Associate Professor
Computer Science & Engineering	Mr. Debojit Boro Mr. Bidyut Kumar Patra.	Associate Professor Associate Professor
	Mr. Raghvendra Choudhary	Lab. Assistant
Sociology	Sarmistha Das	Assistant Professor
MBBT	Mr. Surya Prakash G Ponnamm)	Assistant professor:
	Dr. Naba K. Bordoloi	Senior laboratory assistant:
Cultural Studies	Mandakini Baruah	Assistant Professor
	Kailash Dutta	Assistant Professor

## 20. Teaching- Non- teaching staff ratio

Department	2010 - 11
Mass Communication and Journalism	11 : 3
Civil Engineering	5 : 2
Electronics & Communication Engineering	14 : 9
English & Foreign Languages	11: 3
Environmental Science	9 : 4
Food Engineering & Technology	8 : 5
Chemical Sciences	1.3 : 1
Mechanical Engineering	10:11
Physics	7 : 3
Business Administration	13 : 3
Energy	6:4
Computer Science & Engineering	20:6
Hindi	3 : 1
Mathematical Sciences	3 : 1
Sociology	7:2
MBBT	11:05
Cultural Studies	10:3
Centre for Disaster Management	1:1

## 21. Improvements in the library services

In order to accommodate more users, the library has working hours from 9am to 10pm on weekdays; while it is 10am to 5pm on Saturdays and Sundays. The library has also drafted a policy to provide access to external users, which is in the pipeline. The library has also introduced the following new services to the users:

- (i) CAS (Current Awareness Services) on books and journals.

(ii) E-delivery of information on literature against specific request.

As a regular endeavor, Orientation programmes are organized in the library inviting new batch of students, Research Scholars, newly recruited faculty and staff member department wise. However, instructions on different techniques of accessing, browsing retrieving electronic resources is a regular activity in the library which is offered to the users when asked for as well as when the need is observed.

The library has provided a suggestion box at the entrance lobby. An online feedback facility has also been provided at the library page of T.U. website.

## 22. New books / journals subscribed and their cost

Department	Head	2010	2011
Mass Communication and Journalism	Central Library	----	07
Civil Engineering	Books	Rs. 9,99,533.00	Nil
Electronics & Communication Engineering	Journals  Books	1) IEL packages, 2) Computer and electrical Engg Journal, elsevier (apart form previous subscription)  Nil (As per record of the department)	1)IEL packages, 2 )Computer and electrical Engg Journal, elsevier (apart form previous subscription)  Till date Nil (As per record of the department)
Environmental Science		Centrally Done	
Food Engineering & Technology	Books 436	Worth Rs. 9,14,983.00	
Mechanical Engineering	Books:  Journals:Elsevier	1. 63 different types of 462 copies books (Date 13-04-2010) 2. 34 different types of 293 copies books (Date 14-12-2010)	1.CIRP-Annals (Online) 2.Computers & Fluids (Online) 3.International J. of Applied Thermal Engg. (Online) 4.International J. of Heat and Fluid Flow (Online) 5.International J. of Thermal Science (Online)

			6.Mechatronics (Online)
Mathematical Sciences	Books	No. 204 Cost. Rs. 544936.00	No. 785 Cost. Rs. 633359.00
	Journals	No. 20, Cost. Rs. 1121984.00	No. 25, Cost. Rs. 1116380.00
Sociology	Books	131 @ Rs. 146044/-	
	Journals	13 @ Rs. 132830/-	
MBBT	New Books:	52 (fifty two numbers) Value:Rs. 115144.00	
	Journal subscribed:	23 (Twenty-three) Value: Rs.1183341.00	

Department	Indian Journal	International Journal
Food Engineering & Technology	04	10
Mechanical Engineering	--	06
Physics	04	04
Business Administration	02	02
Mathematical Sciences	17	10 (Apart from the journals available through UGC-INFIBNET.)

The library has purchased 3222 numbers of books in the year 2010-11 and their value is Rs. 1913595.00. The number of current journals subscribed in the same period is 1011(print+online) and the total value is Rs. 10681412.00

**Additionally** the Department of Food Engineering and Technology has received the following. MoFPI has granted Rs 52,181.00 (Ref. File No F-17/2002/HRD/94 dated 11/06/2010, under Departmental HRD Scheme. Against B.Tech Programme, Books and journals worth Rs 5.00.000.00 has been proposed to MoFPI

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

All programs seek feedback from the students on different courses on a regular basis. This is done every semester end and the common university 'feedback form' is used. The feedback is analysed by the concerned faculty along with the HoD/ Deans and any serious discrepancy is brought to the notice of the Vice-chancellor. Any lacunae, in the teacher, is brought to the notice of the teacher so that she/he can improve herself/himself. A positive feedback encourages the faculty to continue to innovate and adapt.

### **24. Unit cost of education of the University**

Recurring	:	Rs. 1,78,256/-
Non – recurring	:	Rs. 3,06,176/-

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

### **Process of Admissions and Examination Results, Issue Of Certificates :**

- Admission notification and prospectus with application forms are made available through designated branches of some selected banks all over India and on the website of the University facilitating the desired candidates to download the application forms from the website.
- The results of the entrance examinations conducted by the TUEE are provided online.
- Students can pay their fees in the specified a/c of the University from anywhere in India through online.
- Results of examinations of various programmes of studies conducted by the University are processed by using a software designed for the purpose.
- The results of the semester end examinations and grade awarded to the students are displayed online for the convenience of the students.

### **Computerization in Tezpur University:**

All the following systems are developed in-house and maintained in-house in Tezpur University.

**Financial Accounting system:** The present version (version 3) of this package having facility with multi-user and multi role based accessibility. The package gives financial statements such as – *Payment Receipt Statement, Income & Expenditure Statement, Cash Book, Ledger, Personal Ledger* and *Balance Sheet* as required for a period.

**Integrated Payroll and Income Tax management system:** Payroll system was developed in-house and commissioned in June, 1999. Later in 2006, web-based interface was developed and commissioned, through which employee can view their pay related information using internet/intranet like pay slips, old pay-slips, arrear payment, DA arrear payments and history of payments. This system is fully password protected, where the password used is the same password the employee use for Tezpur University official email password, no separate password is needed for the system. All payment and deduction statements including communication to Income Tax department, Bank, LIC etc can be generated from the system. In 2009 IT management system was developed in-house and integrated with Payroll system. Through this, at any point of time an employee may view his probable Form-16 for that year and, based on that, I.T saving policies can be planned. Employees can enter their personal savings details, PAN, change of PAN and other declarations online using a web-browser based interface and finally in the month of May, they can take final printout of their Form-16. Some modules of the system uses Ms-Excel and MS-Visual Foxpro based interface and main database is kept in Oracle10g server. Web-based interfaces were developed using PHP and kept in Tezpur University intranet web-server.

**Employees provident fund Interest Processing (GPF, NCPF, CPF) System:** This calculates provident fund interest and gives employee wise up-to-date provident fund balance statement.

**Medicine Inventory Software for Tezpur University Health Centre:** The package consists of medicine issue/receipt entry/update. It gives medicine stock statement, Purchase statement and Issue Statement as and when required.

**Examination System:** The system provides student course registration, student admission, examination result preparation, result declaration through web (students *grade card*). The system generates *merit register*, *result sheet*, *provisional certificates*, *provisional transcripts*, *final transcripts* and related other ad-hoc and regular reports.

**e-Grievance System :** The system allow all the Tezpur University employee and student to register their grievances online. The system works on pre defined work flow mechanism. Once they submit a grievance, the system automatically detects the type of grievance and generate alert as well as a mail to the officials concerned.

**Online Leave Application System:-** This project(OLLAS) deals with Leave Application of all the employees of Tezpur university .In this application , employees can submit their leave applications .This system manage the complete work flow for a particular leave application submitted by a employee .This system maintain the leave rules defined by central government.

**Tezpur University Employee Information System-**This system maintain all the personal, academic and professional of all individual employee of Tezpur University

## 26. Increase in the infrastructural facilities

Department	Details
Mass Communication and Journalism	A spacious two-story (ground + two floors) building allotted exclusively for MCJ Deptt. from August, 2010.
Civil Engineering	In the process of setting up.
Electronics & Communication Engineering	1) the following minor lab equipments were purchased a) Microprocessor 8085, 8086 b) Digital Multimeters
English & Foreign Languages	Consequent upon the award of the SAP-DRS project by the UGC, the department has been able to consolidate its existing facilities.
	Laboratory Facilities      Language Laboratory
	Library Facilities      Purchase of books from SAP grant.(1 lakh)
	Allied Facilities      Purchase of copier cum printer machine (SAP Grant) (1.5 lakh)
Food Engineering & Technology	(i) Proposed Pilot Plant for Processing of Fruits and Vegetable.
Chemical Sciences	<b>Laboratory:</b> General laboratory: 04 (plus 02 in the other departments) <b>Research laboratory:</b> 08 <b>Sophisticated instrument laboratory :</b> 03 <b>Workshop:</b> 01 <b>Store room:</b> 02 <b>Class room:</b> 05 <b>Seminar room:</b> 02

Mechanical Engineering	Sl No	Equipment	Source	Year of purchase	Cost (in INR)	Whether in operation
	1.	Sound Level Meter and Sound Calibrator	AIMIL Ltd	2010	39,375.00	Yes
	2.	1. FM6X Turbine Service Unit (For FM 60,61,62 and 64) 2. IFD7-A Interface Unit 3. FM62 Pelton Turbine Unit FM63-A 4. FM63-A Propeller Turbine Demonstration Unit 5. IFD7-A Interface Unit	Edutech India Pvt. Ltd.	2010	3005042.00	Yes
	3.	Metrology Lab Equipments: Vernier Caliper (Dial), Outside Micrometer (Digimatic), Tubular Inside Micrometer, Indicating Micrometer, Digital Depth Gauge, Depth Micrometer, Universal Bevel Protractor, Dial Indicator (Plunger type), Magnetic Standard Mounting Dial Indicator, Surface Roughness tester, slip gauge, Filler gauge, Pitch gauge, Radius gauge, Sine Bar, Straight Edge, V Block with clamp, C Clamp	Universal Agencies	2010	682332.00	Yes
Business Administration	The Department of Business Administration has moved to the permanent site on 1 <sup>st</sup> November 2010. The state of art new building has a total floor space of 3,522 square meters inclusive of the ground and of first floor. The building has provision for vertical expansion. The tentative capital expenditure on account of this					

	dedicated facility is Rs 6.25 Cr. There are six classrooms, one seminar hall and a separate hall for research scholars. Each faculty is provided with a room at the 1 <sup>st</sup> floor. There are two meeting/interview rooms also.																																																						
Energy	Facilities of Energy conservation laboratory, Department of Energy has been increased by introducing newly installed petroleum testing equipments.																																																						
CSE	Department shifted to new larger building in August 2009. In the new building five new laboratories and a full fledged Seminar Hall were set up in 2010.																																																						
Sociology	Overhead Projector and Screen 1; Scanner 1.																																																						
MBBT	Animal cell culture and experiment facility have been developed. Other than this the following equipments have been purchased during last one year																																																						
	<table><tr><th>Sl no</th><th>Name of Equipment</th><th>Cost</th></tr><tr><td>1</td><td>Lyophilizer</td><td>4,50,000.00</td></tr><tr><td>2</td><td>Automated DNA Sequencer</td><td>77,50,000.00</td></tr><tr><td>3</td><td>Spectrofluorimeter</td><td>10,04,976.00</td></tr><tr><td>4</td><td>FTIR</td><td>10,000,00.00</td></tr><tr><td>5</td><td>Image Analyzer</td><td>12 L</td></tr><tr><td>6</td><td>Biological Oxygen Monitor</td><td>2.98 L</td></tr><tr><td>7</td><td>Orbital Shaking Incubator</td><td>1,82,088.00</td></tr><tr><td>8</td><td>Orbital Shaking Incubator</td><td>1,82,088.00</td></tr><tr><td>9</td><td>Milli Q Water Purification system</td><td>4,88,535.00</td></tr><tr><td>10</td><td>Ultrasonicator</td><td>2,87,558.00</td></tr><tr><td>11</td><td>Stereomicroscope</td><td>2,98,200.00</td></tr><tr><td>12</td><td>Biosafety cabinet</td><td>3L</td></tr><tr><td>13</td><td>Biosafety cabinet</td><td>3L</td></tr><tr><td>14</td><td>Microscope with digital camera</td><td>8L</td></tr><tr><td>15</td><td>PCR</td><td>5L</td></tr><tr><td>16</td><td>Fume Hood</td><td>1,99,500.00</td></tr><tr><td>17</td><td>UV-VIS Spectrophotometer</td><td>3,90,000.00</td></tr></table>	Sl no	Name of Equipment	Cost	1	Lyophilizer	4,50,000.00	2	Automated DNA Sequencer	77,50,000.00	3	Spectrofluorimeter	10,04,976.00	4	FTIR	10,000,00.00	5	Image Analyzer	12 L	6	Biological Oxygen Monitor	2.98 L	7	Orbital Shaking Incubator	1,82,088.00	8	Orbital Shaking Incubator	1,82,088.00	9	Milli Q Water Purification system	4,88,535.00	10	Ultrasonicator	2,87,558.00	11	Stereomicroscope	2,98,200.00	12	Biosafety cabinet	3L	13	Biosafety cabinet	3L	14	Microscope with digital camera	8L	15	PCR	5L	16	Fume Hood	1,99,500.00	17	UV-VIS Spectrophotometer	3,90,000.00
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### **Increase in the infrastructural facilities in terms of IT (Computer Centre)**

The newly constructed academic buildings as well as the older buildings have been covered with standard structured cabling networking items thereby providing ease of network manageability. All the Optical Fiber Cable (OFC) networks are operated at 1G speed and can easily be extendable to 10G schemes without any major changes.

All the buildings have been directly connected to the Computer Centre which is the central hub of the university LAN. Presently, almost 800 official and 1000 non-official machines are hooked to the university LAN for various network based services.

The Internet bandwidth has been enhanced from 3 Mbps to 12.5 Mbps in September 2010 through combined commercial and INFLIBNET links. In March 2011, the university has been hooked to the 1-Gbps NKN backbone through NMEICT link and commissioning for further augmentation in the Internet bandwidth up to 100Mbps is under process.

### **Engineering Branch:**

Sl. No.	Name of Work	Work Value ( In Rs.)	Building Area (Sq.M)
01.	Construction of RCC 3-storied Academic Building No.7 for the Department of mass Communication & Journalism.	3,13,89,530.00	1758.75
02.	Construction of RCC Academic Building No.8 for School of Management Sciences.	6,49,10,724.00	3630.00
03.	Construction of RCC 3-storied Academic Building for the Department of Food Processing Technology	7,48,88,265.00	5471.63
04.	Construction of Central Sophisticated Instrumentation Centre	7,04,59,538.00	5202.50
05.	Construction of University Hospital Building at Tezpur University	2,50,74,550.00	1000.00
06.	Construction of Women's Facility Centre	1,78,22,589.00	520.00
07.	Construction of Tezpur University Cafeteria-II	14,58,627.00	492.56
08.	Construction of RCC 3-Storied Type-B residential Building = 4 Building	6,45,13,276.00	1037.25
09.	Construction of Aerotor, Flash Mixer, Raw Water Channel, Parshall Flame, Sedimentation Basin & Clear Water Reservoir Cum Pump House for Water Treatment ( 2 <sup>nd</sup> Phase)	54,57,807.00	--
10.	Construction of Chemical House Cum Filter House for Water Treatment Plant ( Ph-II) at Tezpur University.	61,51,057.00	--
11.	Construction RCC Type-D Residential Building at Tezpur University Campus.	70,62,622.00	563.94
12.	Construction RCC 3-storied Type-C Residential Building at Tezpur University Campus. = 4 Building	5,67,79,413.48	1069.92
13.	Construction of RCC 3-storied Type-E Residential Building at Tezpur University Campus.	1,14,93,374.00	312.00
		<b>43,74,61,372.48</b>	<b>21059</b>



**Information from Finance Officer:**

Terms value: Rs. 5333.60 Lakhs

**27. Technology up gradation**

Department	Details
Mass Communication and Journalism	Acquired good number of state-of-the-art audio-visual equipments and accessories for various laboratory purpose.
English & Foreign Languages	Purchase of high intensity digital recorder for analysis of tonal variations in language.
Chemical Sciences	The research scholars have published their papers in different reputed international journals. They have also filed some patents which reflects their capability towards upgradation of technology.
Business Administration	The new building of Department of Business Administration has Local Area Network. This LAN is connected to the campus network of the university. The building is also connected to the EPABX system of the university. Out of five multimedia projection systems, 3 are attached to classrooms, one with the boardroom and one as standby. The building has a computer laboratory with 12 computers with average configuration. There are two network laser printers at each faculty wings, one scanner cum fax machine with the department office and a desktop laser printer with the head of the department. The building is under Wi-Fi internet facility.
CSE	Centralized UPS system installed in the department to cater to a large segment of computers in the department.
Sociology	2 Class rooms have been equipped with LCDs.
MBBT	New computer software's have been procured during this period

**Technology upgradation (Computer Centre)**

- Network**

There is a massive leap in the LAN structure as almost all the older 10/100 switches have been replaced with state-of-the-art 1 Gbps switches which supports: 8 QoS queues per port, 4,096 VLANs (Port, IEEE 802.1Q, MAC-based), 88 Gbps to 176 Gbps switch fabric bandwidth, 65.5 Mpps to 101.2 Mpps Layer 2 packet forwarding rate, optional dual 10 Gigabit Ethernet uplinks. All the residential areas, hostels and some academic complexes have been provided with modest wireless LAN capability with around 60 wireless access points deployed. There is a Network Management System (NMS) in place to monitor complete university network.

- Servers**

The older servers running on Windows NT have been switched over to Windows 2003 Server platform and Linux servers have been upgraded to Redhat Enterprise Linux (RHEL) 4/5 platform. The E-mail servers, the web-servers and the proxy-servers are run on RHEL and most of the required services are on Open Source platform, thereby, reducing overall dependency on vendors. All the systems are fully managed by in-house

technical experts. The old Oracle 7 database has been migrated to Oracle 10g three tier architecture. There is a centralized antivirus server deployed to update and manage client antivirus packages.

- **User Terminals**

The user terminals are being constantly replaced with state of the art personal computer(PC) desktops. Currently, faculty and staff members have been provided with Intel Core i3/i5 based PCs with Windows 7 operating system.

- **Voice Telephony**

The telephone system have been replaced/upgraded to the state-of-the-art Avaya Systems supporting Voice-over-IP(VoIP) where a PC, an IP phone or a wireless handheld device can be made to operate as intercom extension. The voice signals are carried to different buildings in the university using optical fiber cable (OFC) with the converged data and voice networking technology in the deployed high speed switches.

**Technology Upgradation (Central Library):**

The library has been benefited with an 10mbps bandwidth Internet connectivity during the last financial year. The library software has also been upgraded to LibSys V.4 release 6.0 from release 5.2

## **28. Computer and internet access and training of teachers and students**

All teaching, non-teaching staff and students have been provided with good Internet facility; which is accessible anytime/anywhere within the university campus. All users have been provided with unique user-ids for internet access.

The **Computer Centre** provides training on different packages like Microsoft Word, Excel, Power-Point, Frontpage, Publisher, Web & HTML, E-mail, SPSS, Oracle, etc. and special packages to the teaching and non-teaching staffs regularly. Students use the facilities of the computer centre where about 150 computers are available.

**Mechanical** Department has its own CAD laboratory, where advanced modeling and simulation softwares are available, like ANSYS, Pro-Engg.

**MBBT** Department has got a DBT funded Bioinformatics infrastructure facility with 15 computers and three servers for students and staffs.

## **29. Financial aid to students**

Tezpur University provides financial aids to the meritorious students belonging to economically weak families of all programmes of studies and top 10% of B. Tech. students based on their merit in the form of free studentships every year. The University also provides institutional fellowship @ Rs.5000/- p.m. to some full-time Ph.D. students of the university. Further, the students of the university are awarded fellowships/scholarships by various agencies, such as, AICTE, UGC, NEC, DBT, ITDP, MNES, DTE, DST and other scholarships sanctioned by various government agencies.

Students also receive scholarships under the scheme of Indira Gandhi PG Scholarship for Single Girl Child, Rajiv Gandhi National Fellowship for SC/ST students, PG Merit Scholarship for University Rank Holder, P G Scholarship for Professional Courses to SC/ST students, etc., provided by the University Grant Commission.

Students of the Dept. of Business Administration are encouraged to participate in different academic contests. Travel support to the extent of 50% of actual expenditure is provided from the TUMBA Development Fund.

### 30. Support from the Alumni Association and its Activities

The following developments related to the Tezpur University Alumni Association (TUAA) took place during 2010-11

1. Alumni Database is under construction
2. Space for Alumni Office has been obtained in the Council Hall.

#### *Departments have their own relationship with alumni.*

Department	Details
Mass Communication and Journalism	We are keeping close contacts with our alumni. --- Have helped the department in placements, internships etc.
Environmental Science	Yet to form an association at departmental level. However, academic inputs are exchanged with those engaged in research in other reputed institute.
Chemical Sciences	Sometime feedback from the alumni regarding the modification/ improvement in course structure, placement etc. is taken for overall development of the department.
Business Administration	To boost the alumni network, the department organizes TUMBA Alumni meet biannually. Alumni deliberate and share their view with the students and faculty on the industry perspectives and issues. The TUMBA Alumni Guwahati Chapter and TUMBA Alumni Mumbai Chapter actively coordinate with the department and students.
Energy	Tezpur University Department of Energy Alumni Association (TUEN) has been formed recently and is in the process of society registration under Society Act.
Computer Science & Engineering	Alumni have helped the students in arranging student internships/projects and job placements.
Sociology	The Alumni Association of the Department has been formed recently on March 4, 2011. The members have been informally supporting the Department in guiding the students in pursuing higher studies and placement.
MBBT	Several alumni visited the department, some of the presented seminar and did carrier counseling for the students
Cultural Studies	Foundation Day Lecture and Alumni Meet which has become annual event for the Department organized on January 18 <sup>th</sup> .

### 31. Support from the Parent- Teacher Association and its Activities:

The university is yet to form a Parent-Teacher Association.

However in the last few years the Department of Business Administration has made it a point to invite parents of newly admitted students to join us in the counseling session where it elaborates on its system of working and seek parental support in its endeavor and feedback is sought to make it effective.

### 32. Health services:

The health care services to the students, faculty members and staff and their families are being provided through the Health Centre of the University, which shifted to its new building comprising modern facilities. As of now it has over 3000 beneficiaries, which includes people working at our construction sites. Three doctors and four para-medical staff man the hospital. OPD services are offered but ten indoor beds are also available for initial care of indoor cases including emergency cases.

Moreover the University has engaged **Specialists of different disciplines (Paediatrics, Obstetrics and Gynaecology, Radiology)** who visit the Health Centre on different days of the week on regular basis for the benefit of the University community.

**Psychiatrists from LGBRIMH** have also visited the University for offering counseling on stress related problems. A **Psychological consultant** is also appointed for providing consultancy to the University community.

#### **Empanellment of Specialists:**

Specialists of the following disciplines are also empanelled-

- 1) Dental Surgeon- 2(two)
- 2) Orthopaedics Surgeon- 2(two)
- 3) Dermatologist- 1(one)
- 4) Ophthalmologist- 1(one)

One Medical Officer is always available for **24hrs on emergency duty**. The cases requiring hospitalisation are referred to the referral Hospitals at Tezpur. Ambulance service is available round the clock and is provided free of cost.

A stock of common medicines including life saving drugs are maintained and are supplied free of cost. Routine laboratory investigations are also done free of cost. A set of appliances for person with disability is also available.

#### **Other activities :**

- 1) The Medical Officers pay periodic visits to the hostels and canteen to assess the prevailing hygiene of the dining hall, water supply and the surroundings to prevent the outbreak of waterborne diseases amongst the boarders.
- 2) Provided training on medical first aid to the students of PG diploma in Tourism management.
- 3) Bed net impregnation for boarders of the hostels and the residents of the University campus with repellent was done in the rainy season to prevent outbreak of malaria in the campus.
- 4) Pulse Polio immunisation camps are organised every year.
- 5) Hepatitis B vaccination camps were also organised.
- 6) Annual Health Checkup programme for the employees done regularly.
- 7) Blood donation camp was organised with NSS cell of Tezpur University.
- 8) Dr D.K.Goswami participated as a resource person in the training programme organised by the Centre for Disaster Management, Tezpur University.

- 9) Dr D.K.Goswami delivered a lecture on HIV/AIDS for the students of Environmental Science.
- 10) Dr (Mrs) J.S.Goswami delivered a lecture on Air borne diseases and allergies for the students of Environmental Science.

### 33. Performance in sports activities

1. Mr. Tridiv Nayan Basistha and Mr. Santanu Raumuria, students of Department of Mass communication & Journalism participated in the “Parag Das Memorial all Assam inter College / University debate competition” held at Cotton College on 29 August, 2010.
2. Mr. Tridiv Nayan Basistha and Ms. Himani Saikia, Department of Mass Communication & Journalism participated in “ K.C. Memorial Debate Competition” held at J.B. College, Jorhat on 31 August, 2010 and secured as best team.
3. Mr. Tridiv Nayan Basistha, Ms. Himani Saikia and Ricky Kumari Shah, students of Mass Communication & Journalism participated in the MCB National Level Debating Competition” held at Cotton College on 7 September, 2010.
4. Mr. Tridiv Nayan Basistha, Department of Mass Communication & Journalism and Parag Bhuyan, student of Department of Business Administration participated in the “ All Assam Institutional Debate Competition” held at duliajan College on 14 September, 2010.
5. The following students participated in the 26<sup>th</sup> Inter University East –Zone Youth Festival 2010 held at University of Kalyani, West Bengal during 23-27 September, 2010

Sl. No.	Name of Student	Department	Award / Achievement
1	Tridiv Nayan Basistha	Mass Communication & Journalism	Debate (Gold)
2	Santanu Roumoria		Western Group Song (Silver)
3	Tapan Kr. Nath		Western Group Song (Silver)
4	Dipankar Bhagawati		Photography (Silver)
5	Arpee Saikia	Business Administration	Debate (Gold), Western Group Song (Silver)
6	Arjun Mazumdar	Food Processing & Technology	Semi classical Song (Accompanist)
7	Arunima Goswami	Cultural Studies	Classical / Semi classical
8	Ananya Banjyotsna	Electronic & Communication Engg	Western Group Song (Silver)
9	Sankhya Samhita	Computer Science & Engg	Western Group Song (Silver)
10	Shrutidhara Sharma	Mechanical Engineering	Western Group Song (Silver)

6. The following students participated in the 26<sup>th</sup> National Youth Festival held at Srivenkatesware University, Tirupati, Andhra Pradesh during 18-22 January, 2011.

Sl. No.	Name of Student	Department	Award / Achievement
1	Tridiv Nayan Basistha	Mass Communication & Journalism	Debate (Bronze)
2	Santanu Roumoria		Western Group Song
3	Tapan Kr. Nath		Western Group Song
4	Dipankar Bhagawati		Photography (Bronze)
5	Arpee Saikia	Business Administration	Western Group Song
6	Ananya Banjyotsna	Electronic & Communication Engg	Western Group Song
7	Sankhya Samhita	Computer Science & Engg	Western Group Song
8	Shrutidhara Sharma	Mechanical Engineering	Western Group Song

9	Rajkamal Sonowal	Computer Science & Engg	Western Group Song
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#### **Best Performer:**

1.	Best Player (Basketball, Men)	:	Pranjal Das (CSE)
2.	Best Player (Volleyball, Men)	:	Aditya Inti (MBA)
3.	Best Player (Football)	:	Anuj Bhuya (CSE)
4.	Best Debator	:	
5.	Best Dancer	:	Pankaj Das (Math. Sc.)
6.	Best Singer	:	Shrutidhara Sarma (B.Tech-Mech)
7.	Bihu Kuwari	:	Mayuri Rajkumari (Cult. St)
8.	Best Lifter	:	Sudipta Gyen {B. Tech (Mech)}
9.	Best Competitor (Literary event)	:	
10.	Strongman of TU	:	Debabrata Borgohain
11.	Champion of Champions	:	(Armrestling-Men) Nehru Pegu (Phy)
12.	Champion of Champions	:	(Armrestling-Women) Subhalakshmi Hazarika
13.	Man of the match	:	Mriganka Shekhar Dutta (Math. Sc.)
14.	Best bowler	:	Rajendra Gautam
15.	Man of the series	:	Nitish Kumar Singh ECE)
16.	Mr. Tezpur University	:	Anupam Roy (CSE)
17.	Best Athlete (Women)	:	Sandhya Rani Gogoi (Chem Sc.)
18.	Best Athlete (Men)	:	Amit Kumar (CSE)
19.	Marathon Champion	:	Griten Goyary (Sociology)
20.	Best Actor	:	Ankumon Sharma
21.	Best Actress	:	Meghali Das
22.	Best Commander	:	Baishali Phukan
23.	Marathan Champion (Women)	:	Sandhaya Rani Gogoi

#### **34. Incentives to outstanding sportspersons**

**Outstanding sports persons are encouraged to participate in various site, regional and national events.**

#### **35. Student achievements and awards**

Department	Name	Achievement/award
MCJ	1.Dipankar Bhagawati	This student was also awarded a prize in photography at the Eastern Zone Inter-University Cultural festival in 2010.
	2. Tridiv Nayan Basistha	Awarded prize in at the Eastern Zone Inter-University Cultural festival in 2010 at Kalyani University.
	3. Miss Himani Saikia and Tridiv Basistha	Won several prizes in debating and elocution contests at state level debates.
Food Engineering & Technology	Manashi Das Purkayastha	DST Fellowship
Chemical Sciences	Surajit Konwar, Amarjyoti Kalita	1 <sup>st</sup> “Best Paper Award” 3 <sup>rd</sup> International symposium on material science, ISMC-2010,

		Bark, Mumbai
	M.K. Huda	1 <sup>st</sup> Best Paper Award, International Conference on Spectroscopy, Anna University, Sep 22-24, 2010
Physics	Ms. Madhulekha Gogoi & Ms. Priyanka Basyach, Research scholar,	Selected for DST-INSPIRE fellowship for the year 2010.
	Mr. Kunal Borah, Research scholar	Award for first ever solely IEEE-APS sponsored workshop in advanced antenna technology, at India, "Indian Antenna Week" held at Puri, Orissa in 2010.
	Mr. Kunal Borah, Research scholar	Award for 2 <sup>nd</sup> position on poster presentation competition in National Conference on Nuclear & Atomic Technique Based Pure & Applied Science, organized by Tezpur University, February 1-3, 2011.
	Mr. Pawan Chetri, M.Sc. student	Award for 3 <sup>rd</sup> position on poster presentation competition in National Conference on Nuclear & Atomic Technique Based Pure & Applied Science, organized by Tezpur University, February 1-3, 2011.
Energy	Mr. Samrat Paul, RS	"NASI-Swarna Jayanti Puraskar" in Physical Science Section of the 80 <sup>th</sup> annual session of the National Academy Sciences, India held at Jaipur National University, Jaipur during 2-4 <sup>th</sup> December, 2010.
Mathematical Sciences	Manjil Pratim Saikia (Integrated M.Sc. in Mathematics-4th Semester)	DST-INSPIRE Fellowship
		CMI Summer Fellowship (June-July, 2010 (Among 30 all India students)
		Citation for Excellence by Assam Academy of Mathematics
	Parama Dutta (Integrated M.Sc. in Mathematics-2nd Semester)	DST-INSPIRE Fellowship
MBBT	**	
Cultural Studies	1. Hindola Banerjee 2. Julee Duwarah 3. Rwisumwi Brahma 4. Pankaj Sarkar	Cleared UGC/JRF Cleared UGC/JRF Cleared UGC/NET Joined M.Phil at TISS

\*\* The achievements and placement of 2009-2010 batch students of the department

Sl no	Name of the Student	Placement	Achievements
1	Maitreyee Sharma	Research Scholar, Tezpur University	CSIR-NET (LS)
2	Arunabha Banerjee	Project Fellow, CDRI	
3	Alakesh Das	Project Fellow, IITG	CSIR-NET (LS)
4	Santasree Sarma Biswas	Project Fellow, Assam	

		Medical College	
5	Sumita Biswas	BITP Trainee	GATE
6	Beauty Borah		GATE
7	Saurabh Kumar	PhD, IISc, Bangalore	CSIR-NET (LS), GATE
8	Amit Chand Gupta	BITP Trainee	GATE
9	Kapil Kr. Goutam	PhD, IISc, Bangalore	CSIR-NET (JRF), DBT (JRF), GATE
10	Sudeep Goswami	PhD, IITG,	NET UGC (JRF), GATE
11	Md. Minhaj Ansari	BITP Trainee	
12	Soni Kaundal	NIV, Pune	CSIR-NET (JRF) and (LS), GATE
13	Raj Kumar Verma	CDFD, Hyderabad	CSIR-NET (LS), DBT (JRF), GATE
14	Rajeev Kungur Brahma	Research Scholar, Tezpur University	DBT (JRF), GATE
15	Anupama Das		GATE, NET(LS)
16	Abhinita Borah	Research Scholar, IIT, Mumbai	DBT (JRF), GATE

### 36. Activities of the Guidance and Counseling Cell

Counseling and Guidance is mainly done at the departmental level. For e.g.

Department	Details
Civil Engineering	Each of the student is assigned a faculty members as a mentor for providing guidance and counseling.
English & Foreign Languages	Restricted to career, academic and personal counseling
Food Engineering & Technology	Department has assigned faculty members as mentors of students for personal counseling and guidance. Career counseling through weekly conducted interactions Arranging personality development programs through T&P Cell
Physics	Counselors have been appointed to each student of the department for Guidance and Counseling.
Business Administration	Faculty mentors are assigned to the students for mentoring them within the department Students are given counseling for specialization options, summer internship as well as for campus placement interviews.
Sociology	Guidance and Counseling is provided to students on academic as well as career matters.
MBBT	Every students in the department are assigned with a mentor who give them academic and other counseling and guidance

**Additionally the Training and Placement cell also takes the following initiatives.**

- Necessary steps are taken to enhance employability of students.
- Placement activities are conducted on a regular basis involving major national and international organizations.



Further the Guidance and Counseling unit of the Equal Opportunity Cell has conducted a number of programs.

SI No	Name of the programme	Number of beneficiary				Category	Date/Year & Sponsored
		T.U.		Outside T.U.			
		M	F	M	F		
1	Workshop on Community Monitoring: With Special Emphasis on Social Audit.  <b>Target group:</b> Students & Research Scholars of T.U.	16	32	5	5		9 <sup>th</sup> -11 <sup>th</sup> Apr,, 2010 Tezpur University
2	Training Programme on Self-Development and Pre –Placement Grooming.  <b>Target group:</b> Students & Research Scholars of T.U.	23	53	3	---	ST- 08 SC- 15 OBC-23 Min.- 01 Gen.- 32  <hr/> Total- 79	30 <sup>th</sup> Apr-1 <sup>st</sup> May,2010 Tezpur University
3	Two Day Workshop on Capacity Building.  <b>Target group:</b> Women of Tezpur district Mahila Samiti & local NGO.	---	---	--	19		28 <sup>th</sup> &29 <sup>th</sup> July, 2010 Tezpur District Mahila Smiti, Tezpur.
4	Training Programme on CV Writing & Personality Development.  <b>Target Group:</b> Students of School of Engineering.	60	17	---	---	ST- 06 SC- 14 OBC-20 Min.- 03 Gen.- 34  <hr/> Total- 77	17 <sup>th</sup> , 18 <sup>th</sup> & 23 <sup>rd</sup> August, 2010 N/A
5	Sensitization Programme on Gender, Health Disaster & Mitigation in collaboration with Centre for Disaster Management. T.U.  <b>Target Group:</b> Local Tea garden labourers.(Borjuli Tea Estate, Rangapara, Sonitpur.)			18	12		19 <sup>th</sup> & 20 <sup>th</sup> August, 2010  NIDM
6	Sensitization Programme on Tobacco Abuse <b>Target Group</b> : Local people of Napaam	39	21	22	37		27 <sup>th</sup> & 28 <sup>th</sup> August, 2010  VHA, Assam

	Panchayat & Students of T.U.						& Tezpur University.
7	CSIR- UGC NET Coaching Programme, 2010  <b>Target Group:</b> Students of HSS & Science & Technology.	88	176	---	---	ST- 24 SC- 32 OBC-100 Min.- 05 Gen.- 103 <hr/> Total- 264	15 <sup>th</sup> to 30 <sup>th</sup> Sept. 2010. Tezpur University.
8	Workshop on Contemporary Gender Issues. <b>Target Group:</b> Students of HSS.	7	61	---	---		17 <sup>th</sup> & 18 <sup>th</sup> Sept, 2010. ICSSR (NERC).
9	One Day Workshop on Human Rights Awareness.  Target Group: Students of HSS & NSS, Tezpur University.	104	43			ST- 09 SC- 21 OBC-36 Gen.- 81 <hr/> Total- 147	13 <sup>th</sup> Nov, 2010  NHRC, Delhi.
10	Communicative English Enhancement. <b>Target group:</b> Students of T. U.(Dept. wise)						Cont. till Nov, 2010.

### 37. Placement services provided to students

#### ACTIVITIES OF THE TRAINING & PLACEMENT CELL (2010 – 2011)

SL.No	Date	Programme
1.	28 <sup>th</sup> & 29 <sup>th</sup> April 2011	Zaloni Technologies campus drive for B.Tech CS & MCA students.
2.	12 <sup>th</sup> April 2011	NERAMC recruitment drive for MBA students.
3.	3 <sup>rd</sup> April 2011	TCS pool campus drive for MBA students at Kolkata.
4.	24 <sup>th</sup> & 25 <sup>th</sup> March 2011	Oil India Ltd recruitment drive for MBA students.
5.	10 <sup>th</sup> March 2011	Huawei Technologies recruitment drive at Kolkata.
6.	4 <sup>th</sup> March 2011	DY365 campus recruitment drive for MCJ students.
7.	4 <sup>th</sup> March 2011	Colgate Palomlive pool campus recruitment drive for MBA students at AIM.

8.	3 <sup>rd</sup> March 2011	HB Entertainment conducted video conferencing for MBA (Marketing & HR) students.
9.	19 <sup>th</sup> Feb 2011	ICICI Bank online test for MBA students.
10.	14 <sup>th</sup> Feb 2011	Reserve Bank of India campus recruitment drive for MBA students.
11.	9 <sup>th</sup> Feb 2011	Soma Enterprise conducted a pool campus recruitment drive at AEC for B.Tech (Mech) students.
12.	8 <sup>th</sup> Feb 2011	Students called for SSB (Indian Air Force/Army) attended SSB capsule training at the Army Base, Missamari.
13.	8 <sup>th</sup> Feb 2011	State Bank of India recruitment drive for MBA students.
14.	2 <sup>nd</sup> Feb 2011	HDFC Bank conducting pool campus event at Guwahati University.
15.	1 <sup>st</sup> Feb 2011	Royal Group of Institutes conducted a campus Recruitment event for M.Tech/M.Sc/MBA students.
16.	31 <sup>st</sup> Jan 2011	Axis Bank conducted pool campus event at TU
17.	27 <sup>th</sup> Jan 2011	Tech Mahindra/ Mahindra Satyam conducted a pool campus event for B.Tech (EC/CS/MCA) students at AEC.
18.	27 <sup>th</sup> Jan 2011	Indian Air Force conducted campus recruitment event.
19.	24 <sup>th</sup> & 25 <sup>th</sup> Jan 2011	Calcom Cement conducted a pool campus event for B.Tech students at JEC.
20.	24 <sup>th</sup> & 25 <sup>th</sup> Jan 2011	Exim Bank conducted a recruitment drive for MBA students.
21.	18 <sup>th</sup> Jan 2011	Indian Air Force Pre-Placement Presentation (PPT)
22.	15 <sup>th</sup> Jan 2011	Syntel's Online test in Tezpur University for B.Tech students
23.	6 <sup>th</sup> January 2011	Sony India conducted a pool campus event for B.Tech students.
24.	19 <sup>th</sup> & 30 <sup>th</sup> Dec 2010	Accenture conducted a pool campus event for B.Tech & MCA students.
25.	13 <sup>th</sup> & 14 <sup>th</sup> December 2010	Intelligence Bureau, Ministry of Home Affairs, Govt. of India conducted a recruitment drive at TU.
26.	21 <sup>st</sup> Nov 2010	Jindal Steel & Power attended an off campus recruitment test held at Kolkata.
27.	19 <sup>th</sup> Nov 2010	Interviews conducted by Asian Paints for M.Sc Chemical Science students.
28.	12 <sup>th</sup> Nov 2010	Workshop based on the movie "The Secret" to boost the confidence level among M.Sc (Chemistry) students.
29.	11 <sup>th</sup> Nov 2010	Resume Writing & Interview Techniques for M.Sc Applied Chemistry Students.
30.	22nd Oct 2010	Indian Air Force Pre-Placement Presentation (PPT) made by Wing Commander Bikram Bakshi, Jt. Director (PO).
31.	13 <sup>th</sup> October 2010	Indian Armys' Motivational cum Preliminary Selection team (MPST) for 20th University Entry Scheme conducted recruitment interviews (5th Sem. B.Tech Students).
32.	24th Sept 2010	Workshop on "Career Vision 2020 and Beyond" for Tezpur University students.
33.	8 <sup>th</sup> September 2010	Indian Armys' Motivational cum Preliminary Selection team (MPST) for 20th University Entry Scheme conducted recruitment interviews.(7th Sem B.Tech students).

34.	7 <sup>th</sup> Sept 2010	Interview tips - Interaction Session with students of Food Processing Technology.
35.	27 <sup>th</sup> Aug 2010	Tata Consultancy Services (TCS) visited Tezpur University to accredit the University for recruitment of students (initially SoE).
36.	17 <sup>th</sup> , 18 <sup>th</sup> & 23 <sup>rd</sup> Aug 2010	“Pre-Placement Grooming” Sessions organized for B.Tech Students.
37.	3 <sup>rd</sup> Aug 2010	Departmental Faculty Placement Co-ordinators’ Meeting 2010-11.
38.	30 <sup>th</sup> April & 1 <sup>st</sup> May 2010	Training programme on Self-Development and Pre-placement Grooming for TU students.
39.	30 <sup>th</sup> April 2010	Bharat Sanchar Nigam Ltd (BSNL) training programme for the benefit of B.Tech 6 <sup>th</sup> Sem Electronics & Communication Engg. students.

### 38. Development programmes for non- teaching staff

Sl. No.	Skill development programmes facilitated / arranged	Duration		Venue	Number of beneficiaries
		From	To		
1.	Six month Certificate Course on Hindi Language, organized by the Dept. of Hindi, Tezpur University	01/05/2010	31/10/2010	Dept. of Hindi, Tezpur University	10
2.	An integrated training programme for all Group ‘D’ Staff in connection with their switching over to Group ‘C’ MTS status on “office procedures, basic rules and regulations of Establishment, Administration and Finance and on Computer literacy”, organized by the Administration of Tezpur University	On 15/05/2010, 22/05/2010 and 29/05/2010		Conference Hall and Computer Centre, Tezpur University	All Group ‘D’ Staff
3.	A six week Summer Training Programme in Biological Electron Microscopy for Laboratory/Technical Staff, organized by All India Institute of Medical Sciences, New Delhi	16/05/2011	25/06/2011	All India Institute of Medical Sciences, New Delhi	01
4.	Orientation Programme on Educational Administration for Non-Teaching Staff	21/05/2010	18/05/2010	UGC-Academic Staff College, NEHU, Shillong	02
5.	A 6 day Professional	26/07/2010	31/07/2010	UGC-Academic	03

	Development Programme, organized by the UGC-Academic Staff College			Staff College, Gauhati University, Guwahati	
6.	Skill Assessment Test on Computer Literacy for Group 'D' staff in connection with their switching over to Group 'C' cadre, organized by the Computer Centre, Tezpur University	07/08/2010	—	Computer Centre, Tezpur University	All Group 'D' staff
7.	Skill Assessment Test on Computer Literacy for Group 'D' staff in connection with their switching over to Group 'C' cadre, organized by the Computer Centre, Tezpur University	27/08/2010	—	Computer Centre, Tezpur University	The rest of Group 'D' staff who were absent in the last Skill Assessment Test held on 07/08/2010
8.	Special Skill Test for Group 'D' staff in connection with their switching over to Group 'C' cadre, organized by the Administration of Tezpur University	21/10/2010	—	PPT Room, Administrative Building, Tezpur University	08
9.	Special Training Programme for Skill Upgradation of Group 'D' staff in connection with their switching over to Group 'C' cadre, organized by the Administration of Tezpur University	06/11/2010	—	PPT Room, Administrative Building, Tezpur University	21
10.	20 <sup>th</sup> Hindi Conference and Workshop, organized by "Rajbhasha Avam Prabandhan Vikas Sanstha"	24/05/2011	26/05/2011	Hotel Kings Kourt, Mysore	02
11.	A composite training programme on "Chromatographic Methods of Analysis, Spectrophotometric Methods of Analysis and Water Analysis", organized by Advance Training Institute, Directorate General of Employment and Training, Ministry of	13/06/2011	01/07/2011	Advance Training Institute, Directorate General of Employment and Training, Ministry of Labour and Employment, Govt. of India, Guindy, Chennai-600032	01

	Labour and Employment, Govt. of India, Guindy, Chennai				
12.	Certificate course in Official Hindi : Level-1, organized by the Dept. of Hindi, Tezpur University	16/01/2011	21/06/2011	Dept. of Hindi, Tezpur University	10
13.	Orientation Programme	24/01/2011	20/02/2011	UGC-Academic Staff College, Gauhati University, Guwahati	01

### 39. Best practices of the institution

#### A) Controller of Examinations:

The innovative and unique practices followed by the university are as follows:

- Selection of students for admission to the programmes of study through an All India Entrance Test:
- Flexibility in the Course Curriculum
- Modification and updating of courses through a set mechanism.
- Continuous, comprehensive and transparent Evaluation system:
- Choice based Credit system requiring a minimum no. of credits for a student to qualify himself/herself for a degree/diploma.
- Strict adherence to a pre-determined academic calendar for the academic activities of the University.
- Announcement of results on or before the last day of the semester.
- Displaying the grades awarded to the students at the semester end exams in the departmental notice board facilitating the students to rectify any mistake in the calculation of the grade, if it occurs, before finalizing the result.
- Internal quality checking mechanism in the form of Students' feedback,
- Self-appraisal for the faculty members, Internal Audit system etc.
- Completely computerized Tabulation process.
- Providing the students of the university with the benefit of health insurance scheme.
- Free studentship to meritorious students belonging to economically weak families.
- Organizing Internship Programme in order to give the benefit of the expertise and facilities available in the University to the meritorious students of undergraduate level.
- Adopting latest managerial concepts such as strategic planning, team work, decision making and computerization of the various systems of the university.
- MoU with industries and research organizations in order to promote exchange of ideas, research facts and scholars to further the cause of research.
- Organizing short term training programmes on various vocational courses for capacity building of the employees of the University and opening up these provisions to the youths of the nearby localities.
- Holding Convocations regularly
- Provision for access to full text of e-journals at the central library.

#### B) Computer Centre

The Computer Centre in the university is organized in a distributed modular structure i.e. there are 3 units of labs with adequate no. of PCs localized near to the academic buildings. The Unit-1 with 60 PCs is located in the Academic-Block-2 to serve Departments of Physics, Mathematical Sciences, Mass Communication &

Journalism, Molecular Biology and Bio-technology, and Environmental Sciences. Similarly, unit-2 with 30 PCs located in the Energy Block to serve Chemical Sciences and Energy. And unit-3 with 27 PCs is located in the SoE complex to serve Departments of CSE, ECE, MECH, FPT and CIVIL.

The Computer Centre is being kept open after office hours with the help of student volunteers.

The Computer Centre has deployed automated helpdesk management to register user complaints and to assign the technical staff for prompt handling of the complaints.

The Computer Centre has also deployed a SelfCare Portal for guiding the users to configure their machine for software installation and Internet connectivity without difficulty.

### **C) Central Library:**

The library staff is very attentive to users requirements and try their level best to provide maximum help within the limitations of their reach.

### **D) Training & Placement:**

- i) All-time access to the Training & Placement Cell for students for counseling, enquiry, information, etc.
- ii) Student friendly staff and atmosphere.
- iii) Pre-placement grooming of students with emphasis on “weak” areas.
- iv) T&P Cell as a professional and all-time facilitating interface.

### **E) Finance Department:**

- a) Release the payment promptly.
- b) Submission annual accounts before the parliament within the schedule time frame.
- c) Two finance committee meetings as per act has been conveyed during Financial year (one for Annual Accounts before 30<sup>th</sup> June and another for budget within January)
- d) Disbursement of salary and other dues to employees of the University has been released in due time.
- e) Necessary formalities and efforts have been observed in respect of Receipt & Payment tries to minimize the audit observations.

### **F) General Practices:**

- 1. Ideal teacher-student relationship, a ragging-free environment, round-the-clock working facilities for the entire community alike round the year.
- 2. Transparent evaluation system, student mentoring, student feedback.
- 3.
  - a) Transparency in admission of students to ECE deptt
  - b) Transparency in examination.
- 4. The University calendar is fixed before the commencement of the year and all activities are conducted as per schedule. This includes declaration of examination results on a particular date.
- 5. Student’s assessment and Teachers seminars.
- 6. The department follows academic calendar of the University. There has been good practice of conducting examinations and declaring results on time.
- 7. Students’ feedback on courses taught are taken and used for improvement of quality of teaching
- 8. Students’ performances are accessed through continuous evaluation and relative grading system.

**Additionally, some departments have their own set of good practices.**

<b>Department</b>	<b>Details</b>
Business Administration	Emphasis has been laid down for students grooming and improving their communication and presentation skills. Emphasis is given on the overall personality development of students.
CSE	Students' performances are monitored and steps are taken to improve their performance through academic counseling.
Hindi	University employees are given certificate course in Official Hindi:
Sociology	Department level teaching and learning practices 1. The practice of seminar presentations in the Department by both students and faculty is rigorously followed. 2. The MA students are required to prepare a field-based project work on some topic of sociological significance which forms a part of their course study 3. Active participation of students in academic activities of the department through involvement in students seminars, reading room maintenance and weekly film screening.
MBBT	Biosafety, laboratory safety, and other good lab practices (GLP)

#### **40. Linkages developed with National / International, Academic/ Research bodies**

<b>Department</b>	<b>Details</b>
English & Foreign Languages	<b>Association with</b> 1. Gauhati University, 2. Dibrugarh University, 3. NEHU, 4. English & Foreign Languages University, Shillong & Hyderabad, 5. University of Hyderabad, 6. Osmania University Centre for International Programmes, 7. Centre for Contemporary Theory, Baroda, 8. CIIL, Mysore
Environmental Science	(i) Research collaboration with ONGC –CPBT (ii) Research collaborations with NPL, New Delhi (iii) Member of the editorial board of Indian journal of Plant Physiology, New Delhi (iv) Academic link with Institute of Atmospheric Physics, CAS, Beijing.
Chemical Sciences	MoU has signed with National Centre for Catalysis Research, Chennai. Collaborative work with other departments of the university like MBBT, Mathematics, Physics have been done. There are also some ongoing research collaboration with NEIST, Jorhat, IIT Madras, IICB, Hyderabad etc.
Physics	IUCAA, Pune, C-MMACS Bangalore and Max Planck Society, Germany
Energy	MoU was signed between Indian Institute of Petroleum (CSIR), Dehradun and Department of Energy, Tezpur University



	<p>MoU with University of Nottingham, UK in the area of Energy Research has been signed.</p> <p>Linkage with the faculty of Abo Academy, Finland working in the field of Energy has been made in connection with the Indai-Finland collaborative project on Green Chemistry.</p>
CSE	<ul style="list-style-type: none"> <li>• Teaching and research collaboration with Cognitive Systems Group, University of Bremen, Germany, in the area of rehabilitation robotics (Ambient Intelligent Living).</li> <li>• Collaboration with ISRO-NESAC, Shillong, on Applications of Data Mining Techniques in improving the classification accuracy of high resolution satellite data (funded by ISRO).</li> <li>• Collaboration with Centre for Soft Computing, MIU, ISI Kolkata on Beyond Clustering Gene Expression Data (funded by DST).</li> <li>• Working Group member of European Science Foundation's COST Action IC0903: MOVE- Knowledge discovery from moving objects.</li> </ul>
Hindi	HoD has been invited to attend Raj Bhakha Conference at Gangtok, Sikkim.
MBBT	Several collaborative projects with national and international institutions have been taken up

#### 41. Any other relevant information:

Department	Details
Mass Communication and Journalism	<p>1. One faculty member Dr Abhijit Bora visited USA as a member of the Study of US Institute on Journalism (SUSI) 2010 programme for one-and-a-half-month in July / August, 2010 on nomination from the US State Department.</p> <p>Dr Bora has also got a book published by a German publisher in June, 2010.</p> <p>2. One faculty member was selected as a postdoctoral fellow of the Wee Kim Wee School of Communication and Information (WKWSCI) of Nanyang Technological University, Singapore.</p> <p>3. One faculty member Dr CSHN Murthy presented research papers in two international seminar at Lisbon (Portugal) and Barcelona (Spain) in July, 2010.</p> <p>3. Three faculty members (Assistant Professors) have submitted their Ph D thesis. One is in an advanced stage of submission – Ms Joya Chakrabarty, Mr Uttam Kumar Pegu &amp; Mr Kh Kabi (All assistant professors).</p>
English & Foreign Languages	The Department enrolls serviceman from the Arm Forces in the one year Certificate Programme in Chinese.
Business Administration	<p>(1) The Department was awarded the Dewang Mehta B School Leadership Award on November 24, 2010.</p> <p>(2) The Department is rated by Business India B School Survey as A+ (from A) on 12/10/2010.</p>

	<p>(3) SAMPARK- an annual industry meet was organized on Feb 4<sup>th</sup> 2011. Over ten corporate houses participated in the meet.</p> <p>(4) The MCB oration was held on November 16, 2010 and <b>Dr Bhupati Kr Das</b>, Managing Director of Numaligarh Refinery Limited offered the Memorial Oration on the topic “<i>Economic Slowdown: Advantage India</i>”.</p> <p>(4) The Department observed World Tourism Day on 27 September, 2010 with a day-long programme. <b>Prof. Amarjyoti Choudhury</b>, Pro Vice Chancellor inaugurated the celebration. <b>Mr Mohan Ch. Malakar</b>, Retd. Principal Chief Conservator of Forest, Govt. of Assam, and a renowned expert in the field of forest management graced the occasion as the Chief Guest. <b>Mr T. K. Reddy</b> (Conservator of Forest) and <b>Mr Chandan Bora</b> (Divisional Forest Officer), both from the Govt. of Assam joined the panel discussion.</p> <p>(5) All the faculty members are actively engaged in consultancy in NEDFi, HUL, Sarva Siksha, NIRD, Assam Co-op Jute Mill Ltd etc.</p>
Central Library	Two of the library staff has successfully competed in an open recruitment test and got appointed in the post of Semi Professional Assistant and Library Assistant respectively.

Tezpur University has a Centre for Disaster Management, in the School of Management Sciences.

**Training programmes conducted by CDM during 2010-11**

Date(s)	Place	Theme	No. of participants	Status of participants
June 28 – 30	SIRD, Biswanath Chariali	Disaster Management for Urban Local Bodies	25	Urban based community organisations
July 12 – 15	Gogamukh, Dhomeji, Assam	Flood and Earthquake Risk Mitigation	23	Middle level Government Officials, Teachers, NGOs and CBOs
July 28 - 30	Borgaon, Sonitpur, Assam	DM for Panchayati Raj Institutions	24	Panchayati Raj Institutions; NGOs; CBOs
August 18 - 20	Borjuli Tea Estate, Rangapara,	Health Risk Mitigation	31	Women Bodies

	Sonitpur, Assam			
August 25 - 27	Nagaon, Assam	District Disaster Management Planning	20	Senior Government Officials, Teachers, NGOs, CBOs

### **Academic support extended to other organizations**

1. Workshop on Disaster Management organized by the District Administration, Nagaon, Assam during **19 – 20 January, 2011** at Nagaon
2. Orientation course on Disaster Management organized by the District Administration, Sonitpur, Assam during **10 – 11 February, 2011** at Tezpur.
3. Workshop on preparation / updation of District Disaster Management Plan organized by the District Administration, Nagaon, Assam on **25<sup>th</sup> February, 2011** at Nagaon
4. Consultancy workshop on Climate Change: Issues and Policy Formulation (Disaster Management) organized jointly by the Tezpur University and ASTEC, Guwahati on **3<sup>rd</sup> March, 2011** at Tezpur University, Tezpur, Assam

### **Teaching**

The Centre for Disaster Management has been extending academic support to Post Graduate Diploma Programme on Tourism Management of Tezpur University in teaching disaster management course.

### **Documentation**

Participants of the training programmes were engaged to the field study in selective vulnerable areas of Sonitpur, Lakhimpur and Biswanath Chariali of Assam. The field study programmes are documented in video format.

### **Training courses attended by the faculty members of CDM**

1. Training on Environment and Disaster Management, organized by the National Institute of Disaster Management, New Delhi during **13-17 September, 2010**

## ANNEXURE 1

Sl. No.	Department / Centre	Seminar / workshop conducted
1	Mass Communication and Journalism	i) ICSSR seminar on Research methodology in mass communication and de-westernizing media theories under Coordinatorship of Dr CSHN Murthy, Associate Professor, ii) UGC Refresher Course in Mass Communication (Multidisciplinary) conducted from December 6 <sup>th</sup> to 26 <sup>th</sup> , 2010 with 40 participants coordinated by Dr Abhijit Bora, Associate Professor & HoD,`
4	English & Foreign Languages	1.Travel Writing and the Trajectories of Belonging (March 28-29, 2010) (SAP-DRS) 2.NEILS-6 (International Conference partly funded from SAP-DRS project) (January 31- February 02, 2011)
5	Environmental Science	A National level Seminar was organized by the department during April 1 <sup>st</sup> to 3 <sup>rd</sup> April, 2010
9	Physics	a) Preparation of vision document for Assam Govt. in association with ASTHEC, Guwahati. ( From April, 2010) b) National Conference on Smart Nanostructures (NCSN-2011)( January 18-20, 2011) c) National Conference on Nuclear & Atomic Technique Based Pure & Applied Science,( February 1-3, 2011.) d) National Workshop on X-Ray Astronomy, sponsored by IUCAA, Pune,( March 3-7, 2011)
10	Business Administration	Total number of seminars/workshops conducted: 3 1 MDP 1 FDP ( <i>Research methodology</i> ) 1 MBTI programme
11	Energy	<ul style="list-style-type: none"> <li>National Conference on Renewable Energy for Development of Underdeveloped Areas with particular reference to North East India, 23-25th March 2010, Jointly organized by Department of Energy, Tezpur University and NECRD, IGNOU, Guwahati.</li> <li>RGAUD-2010 on 20<sup>th</sup> August, 2010</li> </ul>
12	Computer Science & Engineering	a) National Workshop on Network Security b) National Conference on Trends in Machine Intelligence c) North East ISI –TU Spring School on selected topics in Algorithms d) North East ISI-TU Winter School of Soft Computing
13	Hindi	Hindi Navalekhak Shivir (7 -14th January,2011)
14	Mathematical Sciences	Workshop on Algebra and Number Theory during December 22-26, 2010 sponsored by National Board for Higher Mathematics (NBHM) &DST
15	Sociology	National seminar: 1 Workshops: 4 (2 in collaboration with Equal opportunity cell, TU and 1 in Collaboration with ActionAID, Guwahati):
16	MBBT	National Seminar : 02
17	Cultural Studies	1. 20-21 April 2011: Contemporary Women's Writing From The North East: Issues of Gender and Nationalism. Sponsored by Sahitya Akademi. 2. 4-5 March 2011: National Seminar on Tagore in Translation: The North East India Perspective. Sponsored by Sahitya Akademi. 3. 1- 2 March, 2011: National Seminar on Knowledge Text Translation: Assamese sponsored by CIIL, Mysore.

## ANNEXURE 2

Sl. No.	Department	Newly implemented (ongoing)
1	Mass Communication and Journalism	Study of consumer rights awareness by students and faculty members of professional courses in Assam, funded by Indian Institute of Public Administration (IIPA), Delhi on behalf of Ministry of Consumer Affairs, Government of India with a budget of Rs 2,31,600/ for 2010-11.
2	Electronics & Communication Engineering	1. Industry Institute Partnership Cell, Prof. M. Bhuyan 2. Detection of Nerve injury recovery by Intelligent Processing of Nerve Conduction Velocity (NCV) and Electromyogram (EMG) Signal, Prof. M. Bhuyan. 3. Design and Development of an Electrical Vehicle (Six Seater) and its Power Management System 4. Fabrication and characterization of nanostructural metal oxide based gas sensors, Mr. Biplab Mandal
3	English & Foreign Languages	1. SAP-DRS since April,2009 2. “Memory, Movement and the Mahila Samiti in Assam, India” 3. UGC major Research Project “Description of Bugun Language” Term- 2 years (From May,2009 to April,2011)
4	Environmental Science	1. Exploration of native flora and in-vitro study to assess their efficiency in removal of water pollutant 2. Impact of Natural gas flare on growth and yield development in rice
5	Food Engineering & Technology	(i) Studies on pesticide residues in major commercial vegetables of Assam. (Prof. S. C. Deka) (ii) Preparation, demonstration and popularization of various food products from locally available post harvest food materials for welfare of rural population of Sonitpur district of Assam.(Prof. S. C. Deka) (iii) Effect of processing on biochemical compositions and production of resistant starch (RS), nutraceuticals and value added products from culinary banana ( <i>Musa ABB</i> ) “ <i>Kachkal</i> ” of Northeast India. (Prof. S. C. Deka) (iv) Quality Improvement of Traditional Method of Rice Beer Production by the Tribal People of Northeast India (Prof. S. C. Deka) (v) Antioxidant capacity of fresh and variously processed fruits and vegetables of Assam. (Prof C.L. Mahanta) (vi) Development of health promoting extruded RTE breakfast cereal incorporating <i>choukua</i> rice and <i>bhimkol</i> banana of Assam along with carambola pomace.(Prof C.L. Mahanta) (vii) Characterisation of starch properties in traditional rice products of Assam and development of a small scale processing unit for the products.(Prof C.L. Mahanta) (viii) Processing and packaging of various edible bamboo shoot species growing in different agro-ecological regions of Assam.(Mr. L.S. Badwaik) (ix) Value addition and popularization of under variety of Indian gooseberry with maximum possible retention of polyphenols and antioxidants and development of new Indian gooseberry products.(Mrs. Poonam Mishra)

6	Chemical Sciences	<ol style="list-style-type: none"> <li>1. Laboratory study of Fluoride removal from ground water using acid-enhanced limestone defluoridation technique, Dr. R.K. Dutta</li> <li>2. Computational studies of bare and zeolite-supported palladium nanoclusters and their application in catalysis, Prof R.C. Deka</li> <li>3. Development of Nanocomposite Materials from Waste Plastic and Non-Conventional Plant Materials available in the Forest of Assam, Prof. T. K. Majhi.</li> <li>4. Electrochemical Immobilization of Acetylcholinesterase System for Sensor Application, Dr. P. Pujari</li> <li>5. Development of Green Nanocomposite based on natural resources, Prof T.K. Majhi.</li> <li>6. Synthesis, characterization and application of novel solid base green catalysts for nucleophilic addition reaction, Prof. R.C. Deka</li> <li>7. Preparation and studies on polymer anchored transition metal compounds. Towards development of bio-relevant complexes and active oxidation catalysts, Prof. N.S. Islam</li> <li>8. Magnetic nano Particles decorated biodegradable polyurethanes / MWCNT nanocomposites as shape memory materials, Prof. N. Karak</li> <li>9. Preparation and characterization of peroxometal compounds and studies on their biological significance in cellular signaling, Prof N.S. Islam</li> </ol>
7	Mechanical Engineering	Cost-Effective Bio-Signals Controlled Prosthetic Hand. Funding by DIT (Ongoing).
8	Physics	<ol style="list-style-type: none"> <li>1. BRNS Project entitled “ Synthesis and characterization of binary nanoparticles : A conjugate of magnetic nanoparticles and semiconductor quantum dots, Dr. P. Deb</li> <li>2. Development of conducting polymer based nanocomposites for biosensor application, Prof. A. Kumar</li> <li>3. Estimation of Crustal Deformation and Tropospheric Precipitable water vapor content in North-Eastern India using GPS Measurements, Prof. A. Kumar</li> <li>4. Fluorescent nanocrystal- induced ion channels for biomolecular labeling applications, Dr. D. Mohanta</li> <li>5. Studies on the relativistic and the dynamical spinning sphere models of the electron, Prof. J.K. Sarma</li> <li>6. Investigation of magnetoviscous and magneto-optic properties of novel ferrofluids, Dr. D. Mohanta</li> <li>7. Studies on Gluon Distribution Function and Recombination of Partons, Prof. J.K. Sarma</li> <li>8. Synthesis and Development of Broadband EMI shielding Materials using magneto-dielectric nanoparticles, Dr. (Ms) N.S. Bhattacharyya</li> </ol>
9	Business Administration	<ol style="list-style-type: none"> <li>1. Empowerment of ST/SC Women through SHGs in Assam, Prof. D. Das</li> <li>2. Financial inclusion of Assam: Achievements and Hindrances, Prof. D. Das</li> <li>3. Micro Finance and Economic Lives of Tribals, Prof. D. Das</li> <li>4. Conducting a quick market survey for Hotels in Tezpur, Assam, Prof. M.K. Sarma</li> <li>5. A sample.....School children, Prof. S.S. Sarkar</li> </ol>

10	Energy	<ol style="list-style-type: none"> <li>1. Synthesis of platform biofuels from renewable sources using acid modified supported ionic liquid catalysts (Indo-Finnish project)( Dr. D. Deka).</li> <li>2. Assessment and analysis of the plant oil feedstock available in North-East India for biodiesel production(Dr. D. Deka).</li> <li>3. Production and characterization of Bio-diesel from indigenous non-edible plant seed oils of North-eastern region of India using Modern Bio-diesel Plant {S. K. Samdarshi (PI),D C Baruah (Co-PI)}</li> <li>4. Synthesis and characterization of CNM as Fuel Cell electrode (S. K. Samdarshi)</li> <li>5. Development of AFC electrode incorporating CNMs (S. K. Samdarshi)</li> <li>6. Agro-Climatic Zone Based Mapping of Renewable Energy Resources in Assam (D C Baruah)</li> </ol>
11	Computer Science & Engineering	<ol style="list-style-type: none"> <li>1. Optimal Cluster Detection over High Resolution Satellite Imagery and its Application;</li> <li>2. Fingerprint Classification and Authentication;</li> <li>3. Multiobjective Association Rule Mining; Status;</li> <li>4. Network Intrusion Detection Based on Offline and Online Data Mining Techniques</li> <li>5. Security enabled data gathering protocol for Wireless Sensor Network</li> <li>6. Development of a Defense System against Polymorphic and Metamorphic Internet Worms for Enterprise Networks.</li> <li>7. Development of a Scheme for Seamless Vertical Mobility.</li> <li>8. Cost-Effective Bio-Signals Based Prosthetic Hand</li> <li>9. Privacy Preserving Data Mining Techniques</li> <li>10. Network Security and Machine Intelligence</li> <li>11. Embedded System Under Modrobs</li> <li>12. Beyond Clustering Gene Expression Data</li> <li>13. Design and Development of a Dynamic Firewall Solution</li> </ol>
12	Mathematical Sciences	<ol style="list-style-type: none"> <li>1. A study of k-hyponormality as a bridge between subnormality and hyponormality, Dr. (Mrs.) M. Hazarika</li> <li>2. A study of computational aspect of connectedness and its vaiations in some classes of topological spaces, Prof. D. Hazarika</li> <li>3. Iwasawa theory of lubin-tate division towers and lemma of coleman, Dr. Rupam Barman</li> <li>4. Biharmonic formulation of incompressible viscons fluid and its numerical simulation by higher order compact schemes, Mr. Shuvam Sen.</li> <li>5. Smooth bootstrap estimation of various measures of accuracy and bandwidth selection for kernel density estimators, Dr. Santanu Dutta</li> </ol>
13	Sociology	Sociological study of electoral politics in North East India, Sponsored by ICSSR- NERC Shillong, Principle investigator: Amiya Kr Das,
14	MBBT	14 individual projects and one departmental project from DBT and UGC-SAP, DRS-1 is are currently going on in the department <i>SEE ANNEXURE 2A BELOW</i>
15	Cultural Studies	Preparation-Preservation and Nutritional Aspects of Indigenous Food of Some Selected Ethnic Groups of Assam, ICSSR, New Delhi .Amount: Rs 4,88,050 (four lakh eighty eight thousand and fifty only) P.I: Dr. Juri Gogoi Konwar

## ANNEXURE 2A

Name of the teacher	Title of the project	Duration	Funding Agency	Amount (Rs.in lakhs)
Prof. B. Konwar	Bioremediation of contaminated soil	5 yrs (2009-2014)	ONGC	70.03
Prof. A.K. Buragohain	Investigation on the .....Biochemical and Molecular approaches [collaborative work]	2 years (2011- 2013)	DBT, New Delhi	62.37
Prof. A. K. Mukherjee	Demonstration of novelty of protease produced by selected bacteria isolated from North-east India.	1 year (2010-11)	DBT, New Delhi	7.14
	Assessment of thrombolytic potential and anticancer activity---- NE India [collaborative work]	3 year	DBT, New Delhi	160.04
Dr. (Mrs). S. Baruah	Preparation and studies on polymer anchored Transition Metal compounds- Towards development of Bio-relevant complexes and active oxidation catalyst [collaborative work]	3 years 2010 -13	DST	20.85
	KIR haplotypic variation and activation of Natural Killer cells in cancer,	3 yrs	ICMR	27.3
	“Understanding the molecular interaction between NK receptor diversity and activation with diverse malignancy in HNSCC prevalent in the population of Assam” [collaborative work]	3 yrs	DBT	49.59
	Application of traditional communication methods to influence health awareness and health seeking behaviour [collaborative work]	2	Panos Southeast Asia	2.0
Dr. M. Mandal (Co-PI)	<i>Magnetic nanoparticles decorated biodegradable polyurethanes/MWCNT nanocomposites as shape memory materials</i> [collaborative work]	, 2010-2013.	DST,	32
Dr. Anand Ramteke	Studies on Genetic and Epigenetic Alteration in Head and Neck Cancer Prevalent in North East Region of India	3 Yrs	DBT	47.20



	[collaborative work]			
Dr Tapas Medhi	Studies on bio-ecology of heliopeltis theivora and development of an forecasting model of its incidence for effective management [collaborative work]	3 yrs	DBT	74.56
Mr. E. Kalita (Co-PI)	Multifunctional hybrid nanosystems for molecular imaging applications [collaborative work]	3 yrs	DBT	363.65
Dr. Robin Doley	Isolation and characterization of a novel protein from the venom of <i>Naja siamensis</i> [collaborative work]	3 yrs	Tezpur University (Start-Up Project)	1.5
	Search for novel treatments for snake venom poisoning: Composition analysis of venoms of snake family Naja naja and Daboia russelli and complete characterization of their major toxins [collaborative work]	3 Yrs	DBT, Govt. of India	104.9

### ANNEXURE 3

Sl. No.	Department	Completed
1	Electronics & Communication Engineering	1. Design Implementation ..... Wireless Communication, Prof. P.P. Sahu
2	Environmental Science	1. N <sub>2</sub> O emission from major agricultural field crops of Assam
3	Chemical Sciences	1. DST Project entitled “ Integrated Arsenic & Iron Removal from Contaminated Ground Water, Dr. R.K. Dutta
4	Mechanical Engineering	1. Qualitative Grasp Synthesis: A Formal Approach. Funding by DST (Completed). 2. Design, Fabrication and Performance Testing of a Renewable Energy Hybrid Tea Dryer for Fossil Fuel Substitution in Tea Industry of Assam. Funding by AICTE (Completed).
5	Physics	1. Development of ZnO nanorods for luminescent device applications Code No. UFR-44314, Dr. D. Mohanta 2. Studies of spin wave instability in ferrites for high power circulators, Dr. (Ms) N.S. Bhattacharyya
6	Business Administration	NO PROJECT COMPLETED DURING 2010-2011
7	Energy	Design and development of a Renewable Energy Hybrid Tea Drier for fossil fuel substitution in Tea Industry (D C Baruah)
8	Computer Science & Engineering	1. Content Based Image Retrieval Systems 2. Content Based Graphical Search Engine 3. Cryptographic Schemes for Digital Media Content Protection 4. Computational Linguistic Modeling of Assamese 5. Modernization of Software Laboratory 6. Some Combinatorial Optimization Problem of Large Systems 7. Qualitative Grasp Synthesis –A Formal Approach
9	Mathematical Science	1. Modeling of flood hazard with special reference to North – East India (WOS-A) 2. A Study of some Interference Models in Reliability Theory, Prof. G.L. Srivastava (Transferred to DU)
10	Sociology	Ethnography of the Electoral Process: A Micro-level Study in Northeast India completed and submitted to ICSSR-NERC, Shillong in 2010.
11	MBBT	None completed last year
12	Cultural Studies	A UGC funded project “Study on Textiles and Dresses of Bodos of Assam” was completed in April, 2009 under Dr. Juri Gogoi Konwar. The total research grant was Rs 4,46,000 (Four lakh forty six thousand only) and the period of research was for five years.