



विज्ञानं यज्ञं तनुते

तेजपुर विश्वविद्यालय

TEZPUR UNIVERSITY

(A Central University)

Napaam, Tezpur, Assam-784028, INDIA



NAAC Reaccreditation (Cycle 3)

SELF STUDY REPORT
VOLUME-I

SUBMITTED TO
NATIONAL ASSESSMENT & ACCREDITATION COUNCIL
2016

विज्ञानं यज्ञं तनुते

Specialized Knowledge Promotes Creativity

Vision

To develop human excellence and inculcate leadership through hard work and creativity.

Mission

To render Tezpur University one of the most preferred destinations of students, faculty and scholars and employees.

To be in the top 50 Universities of the world ...

Goals and objectives

- to disseminate and advance knowledge by providing instructional and research facilities in such branches of learning as it may deem fit;
- to make provisions for integrated courses in humanities, natural and physical sciences, social sciences, agricultural science and forestry and other allied disciplines in the educational programmes of the University;
- to take appropriate measures for promoting innovations in teaching-learning processes, inter-disciplinary studies and research;
- to educate and train manpower for the development of the State of Assam;
- to pay special attention to the improvement of the social and economic conditions and welfare of the people of that State, their intellectual, academic and cultural development;



विज्ञानं यज्ञं तनुते

TEZPUR UNIVERSITY

A SELF STUDY REPORT

Volume-I

Submitted to
National Assessment and
Accreditation Council
2016

TABLE OF CONTENT

VOLUME - I

A. Preface from the Head of the Institution	
B. Executive Summary	1
Tezpur University in 2010 and 2015 (comparative data)	9
A SWOC Analysis	11
Action taken report on PTR 2010	13
General Recommendations	13
Major Recommendations	17
C. Profile of the University	21
D. Criteria-wise analytical report	
Criterion I: Curricular Aspects	31
Criterion II: Teaching-learning and Evaluation	43
Criterion III: Research, Consultancy and Extension	68
Criterion IV: Infrastructure and Learning resources	120
Criterion V: Student Support and Progression	138
Criterion VI: Governance, Leadership and Management	167
Criterion VII: Innovations and Best Practices	188
E. Annexures:	
I. Income-expenditure statements (2011-12, 2012-13, 2013-14, 2014-15)	
II. Consultancy Policy	
III. List of Consultancy work	
IV. Miscellaneous (Court cases 2011-15)	

VOLUME-II A

EVALUATIVE REPORT OF THE ACADEMIC DEPARTMENTS/CENTRES

A. Academic Departments

School of Sciences

Chemical Sciences	1
Environmental Science	19
Mathematical Sciences	31
Molecular Biology and Biotechnology	45
Physics	64

School of Humanities and Social Sciences

Cultural Studies	78
English and Foreign Languages	94
Hindi	109
Mass Communication and Journalism	116
Sociology	129
Education	143
Social Work	152

School of Engineering

Civil Engineering	159
Computer Science and Engineering	169
Electronics and Communication Engineering and Electrical Engineering	188
Energy	208
Food Engineering and Technology	226
Mechanical Engineering	241

School of Management Sciences

Business Administration	257
Commerce	274

B. Academic Cells and Centres

Centre for Assamese Studies	280
Centre for Disaster Management	284
Centre for Endangered Languages	288
Centre for Inclusive Development	289
Centre for Innovation, Incubation and Entrepreneurship	296
Centre for Open & Distance Learning (CODL)	301
Chandraprabha Saikiani Centre for Women's Studies	303
Computer Centre	309
Intellectual Property Rights Cell (TUIPR)	312

C. Other Centres and Cells

DBT Nodal Cell	321
Centre for Petroleum Biotechnology	327
Sophisticated Analytical Instrumentation Centre	331

Volume-II B

List of Projects, Publications and Patents

List of Projects	1 – 35
Faculty Publications	
Index	36 - 38
List of publications	39- 404
List of Patents filed and Granted	405-408
List of Copyrights Granted and Applied	409

STEERING COMMITTEE FOR NAAC REACCREDITATION
TEZPUR UNIVERSITY

Prof. Mihir K. Chaudhuri, Vice-Chancellor	Advisor
Prof. Amarjyoti Choudhury, Pro Vice-Chancellor	Advisor
Prof. Debajit Hazarika	Coordinator
Prof. Utpal Sharma, Director IQAC	Joint Coordinator
Prof. Nayandeep Deka Baruah	Member
Prof. Ramesh Chandra Deka	Member
Prof. Papori Baruah	Member
Prof. Gautam Borah	Member
Dr. Bhabesh Deka	Member
Dr. Dipak Nath	Member
Mr Kumarjit Dutta	Member

TEZPUR UNIVERSITY
Napaam, Tezpur-784028, Sonitpur (ASSAM)

PREFACE

It gives me great pleasure to present to the National Assessment and Accreditation Council, the Self Study Report of Tezpur University for reaccreditation in the third cycle. It is a detailed account of the activities of the university during the last four years as well as an honest assessment of the perceived strength and weaknesses and also the opportunities and challenges faced by the university.

Accreditation and assessment mechanisms help an institution to put things in true perspective and to design its roadmaps accordingly. It therefore gives me a sense of fulfillment that Tezpur University is ready to present its academic credentials to the National Assessment and Accreditation Council for the third cycle of accreditation.

Established to create an advanced seat of higher learning in the North East region of India that would produce professionals of high competence, Tezpur University has come a long way since its inception in 1994. Founded in part fulfilment of the Assam Accord with specific mandates, the University has tried to accomplish the mandates into its search for excellence in education and research. Given that the University is looked upon to provide leadership in emerging areas relevant to the region, especially in Science and Technology and the Humanities, the focus has been to tap and strengthen human resources in fields that demand multidisciplinary skills, and set benchmarks therein.

It is my great pleasure to report that Tezpur University has emerged as one of the finest university of the region backed by new-age pedagogy supported by adequate infrastructure. It has made striking progress marching ahead of other universities of the region both in terms of the popularity of its academic programmes and in terms of its research performance.

After the NAAC assessment in 2010, the university redoubled its effort for all round development and excellence. It initiated steps not only to consolidate its progress, but also to make up for the observed shortcomings of the university made by the peer team and continuous self-introspection. It has made constructive amendments of its own policies aimed towards growth keeping in mind the emergent trends of the higher education systems in the country and abroad. Being relatively new, Tezpur University has miles to go to catch up with its older peers but has the satisfaction of pursuing its goals dedicatedly and thereby narrowing the difference.

Tezpur University undertook the second Academic and Administrative Audit in November, 2013 with the initiative of the Internal Quality Assurance Cell. The visiting team observed that the university has progressed remarkably during its short span of existence and has gathered the critical mass for take-off in a well-charted trajectory for

further development. The university has analyzed the report in details at all levels and initiated proactive action plans on areas that needed attention. This exercise has immensely helped the university in making a realistic self-assessment and developing its long term vision document as well as the short term perspective documents. It has also bolstered the confidence of the university in the process of its preparedness for the next assessment of the NAAC.

This report submitted to the NAAC is both a window to and roadmap of the mission and vision of the University. The achievements and efforts have been presented in a concise form with the claims being supported by evidence. The report tries to make the letter and spirit of the quest of the University for quality transparent in the pages that follow. We believe that it will not only help the apex accreditation agency to rate us, but also provide us a great opportunity to introspect our achievement against that of our peers.

(Professor Mihir K. Chaudhuri)

Vice Chancellor

EXECUTIVE SUMMARY

Tezpur University, established by an Act of Parliament in 1994 as a residential central university, has emerged as a leading institution of higher learning in the region. The 262-acre lush green campus of Tezpur University is located on the outskirts of the historic township of Tezpur. The township of Tezpur is located in central Assam on the bank of the mighty Brahmaputra which also serves as the gateway to the frontier province of Arunachal Pradesh.

Tezpur University is deeply committed to its *raison d'être* – the overall societal and economic upliftment of the region, striving at the same time to contribute to the core values of higher education of India. In pursuance of its objectives, Tezpur University strives to enrich the scholastic milieu through quality teaching and excellent research. The University, therefore, is committed, on one hand, to keep abreast of the changes in the contemporary world, to generate suitable inputs critical for the utilization and engagement of the region's vast and unique resources and to nurture the cultural and traditional diversity of the region on the other.

As per Tezpur University Act 1993, the President of India and the Governor of the state of Assam are respectively the Visitor and the Chancellor of the university. Policy decisions relating to various academic and administrative matters of the university are governed by various statutory and non-statutory bodies. The Board of Management is the principal executive body of the university. The Academic Council and the Planning Board are respectively the principal academic and planning body of the university.

The University made a modest beginning in 1994 with 57 students in 3 departments. Despite being situated in a remote corner of the country with connectivity bottlenecks, Tezpur University, during the span of twenty years of its existence, has been able to establish itself as one of the premier institutes of the region. Tezpur University has developed good infrastructure to create a suitable ambience for quality education and research. As on 31st October, 2015, the university has over 3500 students, including 5 foreign students and over 530 research scholars in its 20 departments. Ten academic departments are supported by the UGC under its special assistance programme (SAP), three of which are in the second phase of the DRS. Eight departments are supported under DST-FIST. The department of Molecular Biology and Biotechnology is supported by the DBT and is rated as one of the top departments in the country. The department of Computer Science and Engineering has been recognized as a Centre of Excellence by the Ministry of Human Resources Development. The Department of Business Administration received 'A' rating in Chronicle B-school survey in 2015 and is ranked among top ten B-school of the Eastern Region. Over the years, Tezpur University has entered into MOUs with prestigious institutions across the globe including universities in Germany, UK, China and Russia.

The present academic standing of the university in the North Eastern region can be ascertained by the fact that its research index is in the forefront of the North East Region, being second only to the Indian Institute of Technology, Guwahati. As per the latest Web of Science citations index, institutional h-index of Tezpur University is 44

(Dec, 2015). As per current Ranking Web of Universities, Tezpur University is nationally placed at 55 (among all academic institutions of higher learning). It is also the lone university in the North East to have figured in the Google Scholar Citation 2000 World Ranking list (First Edition: Dec, 2015).

The strength of the university lies in the well-designed academic programmes across the Schools of Sciences, Engineering, Management Sciences and Humanities and Social Sciences. In the academic year 2015-16, the university has offered 63 academic programmes comprising of 10 Undergraduate, 23 Post Graduates, 6 Integrated Masters, 17 Ph.D., 3 certificate and 4 diploma programmes. The programmes range from the conventional programmes of Physics, Chemistry, Mathematics, English, Sociology, Hindi, Commerce to the contemporary and interdisciplinary programmes of Biosciences and Bioinformatics, Biotechnology, Bioelectronics, Nano Science and Technology, Energy Technology, Food Technology, Polymer Science and Technology, Healthcare Management, vocational courses in Energy Management, Food Processing and so on. New programmes have been added over the years keeping in mind the emerging trends as well as societal requirements. Some more programmes in thrust areas are in offing subject to approval of UGC.

The academic programmes are well supported by competent faculty. Over 90 percent of the faculty in the non-engineering streams and over 60 percent in the Engineering Streams hold the doctoral degree with many of them having higher research experience. The university has instituted five chairs, including one sponsored by industry to complement its teaching and research.

As a testimony of the growing popularity of the academic programmes of the university, there is a sharp increase in the number of applicants for the university programmes. The number of applicants for the entrance examination of the University saw a rise of over 200 percent during the last four years. A sizeable population of the students belongs to states outside the North East region. In view of the growing popularity of its programmes, the University currently holds its entrance examination at 23 centres across the country which includes major Indian cities apart from important towns of the North East India and nearby states. The female-male student ratio stands at a healthy 42:58, though the ratio is lower for the technical streams.

Tezpur University has over the years developed a vigorous research environment which is being gradually consolidated over the years. The total number of ongoing faculty research projects stands at 142 (including 02 corporate sponsored projects) with a total outlay of Rs 4106.12 lakh. It indicates a 100 percent increase compared to 78 projects with an outlay of Rs.2113.16 lakh in 2010. As of now, there are 08 research projects with a total outlay exceeding Rs.1 crore and another 16 projects are worth above Rs 50 lakh each. Faculty members completed 109 projects with a total outlay of Rs. 2824.713 lakh during the last four years. There are also several projects on National (45) as well as International (11) collaboration. The number of institutional projects has also increased including a DBT project worth Rs 40 Crore for infrastructure development for the NE region. The total quantum of grant received from various agencies including UGC (under SAP), DST (under FIST), DBT, AICTE etc. exceeded Rs. 2700 lakhs during last four years in addition to DBT's aforesaid infrastructure development project.

The healthy research environment has yielded a total number of 2688 research publications (including 1904 in National/International journals) in the last four years, out of which a large number of publications (1279) are in internationally indexed journals including 1096 in journals with reckonable impact factors. These are clear reflections of the research activity in the university apart from the regular teaching activity. During the preceding four years, an increase of over 3 times in the number of publications has been recorded. 4 patents were granted and 25 more have been filed during this period.

The university organized 156 conferences/workshops/seminars including 31 national and 7 international conferences during the last four years. The Indian National Science Academy (INSA) organized its 77th Anniversary meeting at Tezpur University in December, 2011. Notably, this prestigious scientific event was held for the first time in the North East.

Faculty members have been able to win several overseas fellowships and national level awards. The list of awards include the prestigious *National Biosciences Award*, *Distinguished Alumni Award by IIT-Delhi*, *Lifetime Achievement Award in IPR*, *Innovative Young Biotechnologist Award*, *UGC Research Award*, *INSA Teacher Award*, *APS-IUSTF Professorship Award* (The Indo-US Science and Technology Forum) and the *J. C. Bose Gold Medal award* (The Indian Society for Plant Physiology).

Infrastructure and learning resources have been extensively augmented during the last few years. Campus amenities have also grown substantially.

The University has been giving special emphasis on building appropriate infrastructure to provide all possible up-to-date facilities to the students, staff and University community as a whole. So far the University has established nine well- furnished academic buildings equipped with modern class rooms, laboratories, faculty rooms, conference/ seminar halls, Internet connectivity (LAN/Wi-Fi) and other amenities. A modern complex housing all the departments of the School of Humanities and Social Sciences has been completed in 2015. Infrastructure of a few other academic departments has also been augmented during the last five years.

The university has set up a modern Computer Centre having 3 central laboratories in different complexes for easy access of the students. The current computer-student ratio stands at a good 1:3. In addition, some departments have set up their own departmental computer laboratories under assistance from different agencies. The Central Computer Centre provides and maintains the computing and networking facilities to the whole university. A streaming server is installed to facilitate use of NPTEL materials particularly for the Engineering streams. The whole university campus is covered with internet connectivity via 1Gbps National Knowledge Network (NKN) link. The university also has a paid 2Mbps leased line Link via ERNET INDIA which serves as a backup link.

The university has taken special care to develop the requisite research facilities to cater to its ongoing research in various fields of science and technology. Over the years Tezpur University has acquired sophisticated laboratory equipment to cater to its research needs. The Sophisticated Analytical Instrumentation Centre (SAIC), established in 2010, houses the research equipment. In the recent years, Tezpur

University has entered into MoUs or research collaborations with several prestigious institutions within and outside the country widening its research activities based on collaborative work.

To support the researchers, Tezpur University Intellectual Property Rights (TUIPR) Cell was established in 2009 and an IPR Chair has been instituted by the university being sponsored by the MHRD. The Cell has devised comprehensive guidelines which are instrumental in guiding the inventors to work towards a more technically acceptable output. The Microsoft Innovation Centre (MIC) established in 2013 enables the students to be cognizant of the latest technologies and provides working space for brewing innovative ideas. This is the first such centre in the North East India and one of the few across the country established by Microsoft India. The Centre for Innovation, Incubation and Entrepreneurship (CIIE), set up in 2013 takes the responsibility to carry out various activities of entrepreneurship development, promote innovations of students and to provide practical support to budding innovators through business incubators. An internationally acclaimed innovator has been appointed by the university as a Visiting Director of the Centre to provide leadership and direction to budding innovators.

To facilitate academic and research activities the University has continuously upgraded its Central Library. The existing library was augmented by an additional complex in 2015. The library has a collection of over 61000 books including around 54,000 text books; over 10,600 journals of which 167 are print journals and rest on-line journals including those under UGC-INFONET Consortium, DeLCON DBT e-library and Developing Library Network (DELNET). The library has received substantial book grants in terms of departmental projects and funding by other agencies such as the National Board of Higher Mathematics (NBHM), DST (under FIST) and UGC (under SAP). A good number of complimentary copies have also been received courtesy various funding agencies.

The air-conditioned central library is fully automated based on LIBSYS software. E-resources can be accessed from anywhere in the campus via LAN/wireless network. Web-OPAQ is available for online database search for anyone having access to the internet, in or outside the campus. It has fully air-conditioned reading space for the users.

The process of reviewing and updating of syllabi and course structure of its various programmes is a regular feature. The syllabi and course structure of all programmes barring the newly introduced ones have undergone substantial revision during the last few years. The university initiated necessary steps to put in place the Choice Based Credit System (CBCS) as per the time frame mandated by the UGC. The flexibility of opting elective papers across streams was already in place for all the programmes since 2012.

Tezpur University has been following a continuous, comprehensive and internal evaluation system with relative grading since its inception. The evaluation process is evenly spaced over the entire semester. Components such as seminars, assignments, field work as well as project work by students are built in the learning and evaluation process providing a flexible yet rigorous learning environment. It has so far dedicatedly followed its Academic Calendar without any deviation or disruption.

The campus is free from menaces such as ragging and disorderliness. The university boasts of zero incidence of disruption of academic activities due to students' unrest in its twenty years of existence. This has been possible due to proactive and close monitoring mechanism involving the administration and faculty members and also due to the active involvement of the students in various affairs of the university. The university provides an active grievance redressal mechanism which is available online as well as offline. Stress management advisory is also made available to students through regular visit of consulting psychiatrists. All admitted students are provided with group medical insurance cover. The university boasts of a vibrant student community actively involved in sports, cultural, literary and other extra-curricular activities.

The Centre for Inclusive Development (comprising of the Placement Cell, Equal Opportunity Cell and SC/ST Cell) and the Centre for Disaster Management are entrusted with conducting short term vocational and training programmes on capacity building, risk assessment, risk reduction planning for sustainable development, human resource development, computer literacy, women empowerment etc. Campus placements and success in the national level examinations have shown a substantial growth over the past few years for the various programmes. During last four years, over 700 students qualified in the NET, GATE, SLET, Civil services, Engineering Services and other competitive examinations. Successful campus placements have also shown steady rise over the years.

Over the years Tezpur University campus has been developed as a campus with most modern amenities to support its academic programmes. It has a 63-room modern Guest House with conference facility, a modern 850 capacity Auditorium, an Activity Centre, Yoga Centre, several canteens, shopping complexes, Hostels, Residential quarters, a VVIP Guest House, Sophisticated Instrumentation Centre, Day Care Centre, Hospital cum Medical Centre etc. Full branches of three nationalized banks (including an evening branch) and a sub post office operate on the campus catering to the large number of students and residents of the campus.

Tezpur University provides hostel accommodation to all the students. As a result, barring a few, all students reside in the 12 hostels (5 for boys and 7 for girls). There is also a scholars' hostel comprising of 36 2BHK apartments to accommodate married scholars with family and visiting faculty members. All hostels are well furnished and equipped with modern facilities.

It has established good infrastructure and support system for Sports and Games. The Sports Section is manned by an Assistant Director of Sports assisted by a Sports Officer. Faculty members also participate in conducting Sports and Games events in advisory capacity and assist in the participation of students in events organized at state, regional or national levels. The university has football/cricket ground, basketball court, volleyball court, tennis court, badminton court etc. all with night playing facility; one indoor stadium, a modern gymnasium. Other sports facilities are available in the sports complex.

All possible facilities are also extended to the students for cultural and literary activities. A Cultural Officer takes care of the cultural activities of the students. Cultural events are a regular feature in the campus wherein a large number of students take part.

Students of the university have been able to not only participate but also win several prestigious national and regional level events. Tezpur University students brought laurels to the region by winning the prestigious national level *Mahindra Auto Quotient Quiz* and the *Sweden India Nobel Memorial Quiz* in 2011 and 2014 respectively. Students have also been able to win a good number of prizes in the Regional as well as National level cultural meets. It was the overall winner of the *East Zone Inter University Youth Festival* in 2011. Tezpur University team was adjudged the *Best Orchestra Team* in South East Asia University Youth Festival held at Udaipur in 2014. SAARC Coaching camps and workshops are regularly organized for different sports and cultural events. The university engages a number of qualified coaches to train the students in different sports and cultural activities.

Over 90 percent of faculty members and staff have been provided with residential accommodation. The campus amenities have now been well developed with the availability of almost all essential requirements of a modern campus. The University has a 33 KVA dedicated power line supported by back up provisions covering the entire university complex. Two water supply plant with capacities of 3,00,000 and 3,50,000 litres are in service, sufficient to fulfill the water requirement of the campus round the clock. The University Health Centre is well equipped to take care of students, staff and their family members through OPD services. Two ambulances are on 24x7 service on the campus. A stock of common medicines including life-saving medicines and oxygen cylinders is maintained and supplied free of cost. Routine laboratory investigations are also done free of cost. The University engages specialists of different disciplines for the benefit of the University community. All faculty and staff are provided with free annual health check-up facility covering a wide spectrum of health check-up measures.

The university is running a pre-primary school called “Takshashila Vidyapeeth”, on its campus. The school admits children of the campus as well from the vicinity. A full-fledged Central School under Kendriya Vidyalaya Sangathan (KVS) was started in 2011 catering to a long standing demand of the locality. The modern School Complex of the Kendriya Vidyalaya of the university has been completed in 2014 and enrollment has been done upto class XI in 2015.

Tezpur University has a neat and safe campus. A clean and secured campus has been achieved by the university management through outsourcing and through participation of the community members including staff, faculty and students, and strict vigil and supervision.

Tezpur University boasts of a healthy financial management system. The university accounting system is computerized with MIS & Accounts Management System through outsourced agency. The mechanism of monitoring the effective and efficient use of financial resources of the university is ensured by the Internal Audit Officer for internal audit mechanism, engagement of Chartered Accountant as financial consultant, Finance Committee, Board of Management and statutory audit of the financial statements by the CAG of India.

The university is guided by its mission statement and activities are implemented as per the provision of the act, statutes and ordinances. The process of governance provides ample scope for faculty to participate in its operations. Both internal as well as external

control mechanisms exist to ensure compliance to rules. Students and alumni have been included right from the Departmental Advisory Committees to the highest governing and policy making bodies of the university, namely the Planning Board, Academic Council and the Board of Management. The elected Students' Council plays an active role in the policy making and management of various student related activities. University also invites suggestions from the Students' Council and implement if deemed fit.

The university makes all efforts to support and strengthen neighborhood communities. Assistance to schools and colleges either by donating useful items or offering training programmes, providing drinking water facility, furniture to schools, organizing awareness programmes etc. is an ongoing affair. During floods, which are frequent in this region, health and assistance camps are organized. Cleanliness drives and blood donation camps are regularly being organized by the TU Students' Council, NCC and NSS Cells. Under a Tezpur University IPR Cell initiative, as many as 92 applications of local villagers for registration as authorized users of Muga GI received approval in 2015 itself. It may be noted that though Muga (a type of indigenous Assam silk) was given GI status in 2007, there was just one authorized user of Muga GI in the entire state of Assam prior to this initiative.

Two villages have been recently adopted by the University for developing as model villages. A huge challenge however awaits the university in terms of fulfilling the aspirations of the large populace belonging to a complex socio-cultural milieu.

Tezpur University is in the process of consolidating the IQAC expecting it to be more proactive on issues of quality aspects of academic and administrative functioning of the University. It has played an active role in the improvement of the academic activities of the university. Workshops are organized by IQAC from time to time on topics that help the faculty either directly or indirectly in quality sustenance and enhancement.

The Academic and Administrative Audit exercise conducted under the auspices of the IQAC with participation of external experts on a regular basis helps in critically evaluating the curriculum, teaching, learning processes, effectiveness of classrooms and laboratory teaching as well as research activities. It is aimed at finding an overall impression on achievements of objectives of the University, setting up its own benchmarks for quality sustenance and necessary corrective actions. The university has rolled out its action plans on the suggestions of the Audit Committee during their visit in November, 2013.

The University carefully analyzed the observations made by the NAAC Peer team in their previous assessment in 2010. It has initiated different steps to implement the recommendations made by the Peer team. Fund shortage, however, have been a deterrent in carrying out some of the recommendations.

The university has a few vacant faculty and staff positions mostly for the reserved categories, despite its efforts to fill up the same. Attracting and retaining faculty in specialized streams is a major challenge to the University. On the positive side, the university has been able to attract a large number of talented faculty members in the recent years due to its progressive policy on infrastructure development, faculty progression and incentives to meritorious teachers.

Tezpur University also faces the problem of limitations of space for capacity expansion, which is accentuated due to severe constraint on architectural and structural choices owing to the unfavourable soil quality. The recent curtailment of financial sanction on various heads has put considerable constraint in the developmental plans of the university.

The university is looking up to the challenge to tap the large number of talented students belonging to the region and contribute proactively to provide commensurate academic opportunities. Increasing the number of intake with the offering of large number of relevant programmes is on highest priority in the developmental agenda of the university. It is also looking to establishing further research collaboration with many premier institutes in the world to widen research opportunities.

TEZPUR UNIVERSITY**Then and Now****Comparative Data 2010 and 2015**

Sl. No.	Parameter	2010 ^{a,b}	2015 ^c
1	Campus area (in acres)	244	261.47
2	Built up area in sq. m	82,183	2,38,903
3	Number of Departments	17	20
4	Number of programmes (including all Ph.D. Programmes)	49	70
5	No. of Students (all programmes)	1963	3500
6	International students	nil	05
7	No. of Research Scholars	301	529
8	Post-doctoral fellows	02	07
9	Percentage of female students	38	42
10	No. of teachers (sanctioned/filled)	232/172	249/228
11	Teacher Student ratio	1:11.4	1:15.4
12	Percentage of faculty with Ph. D.	< 60	> 90
13	No. of Non-teaching staff (sanctioned/filled)	254/148	274/264
14	Ratio teaching: non-teaching (sanctioned)	1: 1.09	1: 1.10
15	University Chairs	nil	05
16	Professors of Eminence	nil	03
17	Number of applicants <ul style="list-style-type: none"> Entrance Examination (TUEE) B. Tech (AIEEE/JEE (M)) (D/R) 	4360 1664 (1: 9)	16059 4486 (1: 17)
18	No. of TU Examination Centres	19	23
19	Students qualified in NET/GATE etc. (last 5 years)	273	719
20	Books in Central Library	40885	61284
21	Library of floor area (sq. mtr.)	2374	4734
22	Seating capacity of Central Library	112	309
23	Number of Computers (approx.)	520	840
24	Internet Connectivity	2 Mbps (leased) 512 Kb (V-SAT)	2 Mbps (leased) 1 Gbps (NKN)
	Bandwidth	-	337 Mbps/ y in hostels 547.6 Mbps/y campus
25	No. of on-going projects (outlay)	78 (₹2113.16 lakhs)	142 (₹4106.12 lakhs)
26	No of completed projects (outlay) (last 4 years)	51 (₹ 629.45 lakhs)	109 (₹ 2824.71 lakhs)
27	Ongoing faculty project above ₹ 1 Cr.	01	07
28	No. of publications (last 4 years)	901	2688
29	Publications listed in international	-	1096

Sl. No.	Parameter	2010 ^{a,b}	2015 ^c
	database (in impact factored journals) (last 4 years)		
30	Recognised supervisors	86	145
31	Ph.D. Awarded (last 5 calendar years)	83	223
32	Impact factor range/average	-	0-46/2.47
33	h-index (Institutional) (Web of Science, Dec. 2015)	-	44
34	No. of papers with more than 10 citations	20	120+
35	Conferences organised	65	156
36	No. of patents filed/awarded	-	20 (awarded 2011-15: Int:03, Nat: 01)
37	Copyright granted	-	02
38	No. of departments with UGC-SAP DST-FIST Centre of Excellence	4 5 -	10 8 01
39	Teaching and Learning Centre (TLC)	-	01
40	Centre for Distance Education	-	1 (10 Programmes)
41	Number of MoUs	08	18
42	International collaborations	4	19
43	Revenue from consultancy/per year	-	₹ 8.35 lakhs
44	Start- up grants number and outlay (by university)	05 (₹ 599882)	46 (₹ 6104543)
45	Number of Hostels • Men's Hostel • Women's Hostel • Scholars' Hostel	4 4 1	5 7 1
46	No. of students in Hostels	1545	3108
47	No. of Hostels with solar water heating system	-	05
48	Residential quarters	189	347
49	Botanical Garden	-	01
50	Campus facilities • Generators • Bank • ATM • Water Treatment Plant • Video Conferencing facility • Biogas plant • Vermi-compost plant • Innovation Centres	04 (2000 KVA) 01 02 01 (3,00,000 Ltrs) - - - -	05 (2500 KVA) 03 04 02 (6,50,000 Ltrs) 01 01 01 02

^aSSR (2010), ^bNAAC Peer Team Report (2010), ^cSSR-2015

TEZPUR UNIVERSITY: A SELF SWOC ANALYSIS (2015)**Overall Analysis: Strength:****1. Institutional Strength**

- Vibrant student community, very good gender distribution, committed faculty, staff and management
- Fully residential and fairly well-equipped campus with modern urban facilities and good academic ambience
- Good infrastructure for teaching-learning and research
- Sophisticated and analytical instruments with power back up
- Sports facilities for indoor/outdoor games with evening playing facilities
- Students' participation in extracurricular activities, laurels at national/state level
- Strict adherence to the Academic Calendar with timely declaration of results
- Efficient financial management with timely submission of audited reports
- Good proportion of students from the disadvantaged sections
- Continuous Evaluation System with flexible and transparent mode of operation
- Semester, grading and credit system from day one of the university
- Regular revision of syllabi to keep pace with changing academic scenario
- A well-established IPR Cell
- Appointment of experienced retired teachers as Professor of Eminence
- Single window administration for foreign students
- Secured campus with 24x7 power and water supply
- A good placement cell
- Participatory management and transparency of governance
- Clean and hygienic eco-system

Overall Analysis: Weaknesses:**2. Institutional Weaknesses**

- Lack of sufficient industry interface
- Less presence of international students
- Resource generation dependency on the Central Government
- Less marketing of research output
- Limited Consultancy work
- Partial integration of e-learning resources with teaching-learning process
- Lack of a centralized lecture hall complex, some departments require upgrading of existing infrastructural facilities
- Needs to further strengthen automation in teaching, learning and administration
- Relatively low success index in All India examinations
- Less visibility of IQAC to stakeholders
- Documented analysis/follow-up in some of the activities/initiatives/best practices taken up by the university needs to be streamlined

Overall Analysis: Opportunities**3. Institutional Opportunities:**

- Tapping the large population of talented students belonging to the region and contribute proactively to provide commensurate academic opportunities
- Increase in number of programmes offered and increasing student strength
- Establishing Research Collaboration with many institutes around the globe has opened up the scope of widening research opportunities
- Initiation of short term skill development programmes more in number and variety for local population and in programmes of humanities and social sciences
- Attracting overseas students more in number in specific degree programmes
- Exchange of students and faculty within country and beyond
- Tapping natural resources and traditional knowledge for the benefit of mankind
- Marketing of research output relevant to local and regional resources
- Tapping potential of students on cultural and extra-curricular aspects vigorously
- Existence of other important establishments in Tezpur having potential for opening up collaboration in academics, research and other activities
- Rich cultural heritage of historical township of Tezpur providing an opportunity to establish a strong cultural heritage study centre

Overall Analysis: Challenges**4. Institutional Challenges:**

- Acute power problem
- Remoteness of location and weaker connectivity
- Inadequate funding to meet plan activities
- Inadequate land and infrastructure for capacity expansion
- Severe constraint on architectural and structural choices due to soil quality
- Providing industry exposure to UG/PG students, researchers and faculty
- Procuring and maintaining sophisticated equipment for teaching and research
- Emergence of private players
- Creation of employment opportunities through entrepreneurial leadership development programmes
- Attracting and retention of qualified faculty for teaching and research
- Strengthening the industry-institute interaction for establishment and promotion of research, consultancy, internship and placement of students
- Inclusion of modern technological developments and management practices into the curriculum
- Students' accommodation in the campus: capacity expansion
- On-campus placement
- Dealing with discipline/ethics of students and others in the face of changing societal norms
- Sustainable value education in a world of competitions

**ACTION TAKEN REPORT ON
PEER TEAM RECOMMENDATIONS (2010)
FOR
QUALITY ENHANCEMENT OF THE INSTITUTION**

- 1. General Recommendations and action taken thereon**
 - 2. Major Recommendations and action taken**
-

**General Recommendations:
(Criteria-wise evaluation)**

Criterion-wise inputs

2.1. Curricular aspects

2.1.1. Curricular design and development:

Recommendation:

- Job-oriented, value added courses, hands on training needs to be enhanced

Action:

- Several new job-oriented programmes have been added:
 1. B. Voc. programmes in Renewable Energy Management and Food Processing
 2. Integrated B.Ed. programmes
 3. Certificate in Air Ticketing & Computerized Reservation System
 4. Certificate in Technical Writing
 5. Advanced Diploma in Healthcare Informatics and Management
 6. Diploma in Paralegal Practice (UGC Community College Scheme)
 7. Integrated M.Com
 8. M.A. in Social Work
 9. M.A. in Education

2.1.2. Academic flexibility:

Recommendation:

- Flexibility of choosing elective courses from across disciplines may be further encouraged

Action:

- Flexibility offered under the CBCS with the introduction of more number of courses for credit transfer

2.1.3 Feedback on Curriculum:

Recommendation:

- Interaction with industry and student community in designing of curriculum needs to be strengthened
- Formalization of feedback process and action on feedback to be strengthened

Action:

- Industry feedback process has been implemented for some departments (Departments of ECE, FET, Mechanical Engineering, Physics) with members of industry having been nominated for syllabus review committees

- Feedback process revamped, feedback format revised to make it more comprehensive; online system is under development

2.2. Teaching-learning and evaluation

2.2.1. Admission Process and students profile

Recommendation:

- Intake of students in various programmes may be progressively increased

Action:

- Intake in various existing programmes including B. Tech. (Civil and FET) and Integrated Programmes (for all streams) has been increased.
B. Tech. (Civil) (20 to 60), B. Tech. (FET) (10 to 30)
Integrated M.Sc. (all 4 streams: 10 to 20 each)
Increase in some other existing programmes: M.Sc. in Environmental Sc. (23 to 30), M.Sc. in Nano Science & Technology (15 to 20), M.A. in MCJ (31 to 35), MBA (46 to 50).

2.2.2. Catering to the Diverse needs

Recommendation:

- Formal foundation courses needs to be introduced in some degree programmes.
- System of counseling and guidance needs to be strengthened

Action:

- Courses are designed in line of the CBCS system as per UGC guidelines
- Student mentoring system has been strengthened (Pl. ref to *Sec. 2.3.10*)

2.2.3 Teaching-learning process

Recommendation:

- Augment ICT enabled learning that is practiced.

Action:

- ICT enabled classrooms as well as ICT resources have been augmented
- Video-conferencing facility, Smart classrooms have been provisioned

2.2.4 Teacher Quality

Recommendation:

- Fill up existing vacancies to strengthen the teaching-learning process

Action:

- A number of vacancies have been filled up. Number of faculty members has increased by around 48% during the last four years. (172 to 254).

2.3. Research, Consultancy and Extension:

2.3.1. Promotion of Research

Recommendation:

- Seed grant to new faculty to be formalized

Action:

- Formalized. Discontinued due to initiation of UGC scheme for the same.

2.3.2. Research and publications output

Recommendation:

- Publications in high impact factor journals may be improved.

Action:-

- Number of publications in high impact factor journals has increased substantially, including publications in Nature journals. *(Pl. refer to Section 3.4.2 of this report)*

2.3.3 Consultancy**2.3.4 Recommendation:**

- Consultancy activity needs strengthening.

Action:-

- Consultancy rules and regulations have been formalized and activity has increased. *(Please refer to Section 3.5.1 of this report)*

2.3.4 Extension activities**Recommendation:**

- Participation of students and faculty in outreach programmes to surrounding rural areas needs to be strengthened

Action:

- Participation of faculty and students in outreach programmes have been increased the Centre for Inclusive Development, NCC, NSS and extension activities
- Constructing toilets and drinking water facilities in neighbouring schools, cleanliness drives by NSS
- Adoption of two villages for developing them as model villages
- Students and teachers are encouraged to participate in teaching Science, Mathematics and English in nearby schools, where teachers are not sufficient
- Consultancy (by teachers and students) to villagers on bio-gas plant

2.3.5 Collaborations**Recommendation:**

- Needs to establish strong linkages with industry and mutually contribute to each others' benefit through short term visits, lectures and training programmes

Action:

- University has set up linkages with some of the nearby industries viz. the ONGC, the NRL etc.
- Linkage established with Hyderabad based Pharma and Chemical industries
- Experts from industry are included in the panel of syllabus review committees
- An industry chair has been sponsored by a Mumbai based industry
- A policy has been developed to depute faculty members to Industries for mobilizing Industry involvement for collaborative activity

2.4. Infrastructure and Learning Resources**2.4.3. Library as learning resources****Recommendation:**

- Need for immediate enhancement to meet futuristic expansion programmes

Action:

- An extension building with 1680 sq. m. of additional space added in 2015
- OPAC system has been upgraded to WEBOPAC
- Library resources (including e-resources) substantially augmented

2.4.4 ICT as Learning Resources

Recommendation:

- For quality research work a high performance computing cluster needs to be procured

Action:

- Regular upgradation vide university policy on computing resources
- An HPC facility has been created in collaboration with CDAC

2.3.5 Other facilities

Recommendation:

- Wire mesh needs to be provided on windows in the hostel rooms of students for protection from insects
- Provision for one more (in addition to existing 2) ambulance

Action:

- Wire meshes have not been installed to avoid suffocation. However, due to careful maintenance of drainage system and cleanliness of the campus mosquito problem has been minimized. Defogging is carried out on a periodic basis
- Provision for additional ambulances have been made through outsourcing

2.5. Student support and Progression

- No specific recommendation.

2.6. Governance and leadership

2.6.5. Financial Management and Resource Mobilization

Recommendation:

- There is need to generate revenues through internal sources, other than student's fee, for sustainable growth.

Action:

- Sponsored consultancy services generating resource for the university
- Rent from shopping complexes, Indian Statistical Institute complex, Banks, PO
- Renting out the Guest House, Auditorium, Council Hall and other venues

2.7. Innovative Practices

2.7.1. Internal Quality and Assurance System

Recommendation:

- Action on feedback to be systematized.

Action:

- Feedback form has been modified and the process has been further streamlined

2.7.2. Stakeholder Relationships

Recommendation:

- Support Staff development activities may be enhanced.

Action:

- Staff development programmes are regularly organized.
- Deputation of staffs to various training programmes is in practice
- In-house training is conducted with external resource persons

Major Recommendations:

Recommendation:

1. **Consolidated information on semester-wise structure and syllabi of all degree programmes into one comprehensive publication.**

Action taken:

- For each school, semester-wise syllabus and course structure of all programmes have been compiled school-wise.

Recommendation:

2. **Regulations on academic matters to be made comprehensive and amended regularly. All stakeholders, i.e., faculty, students and administrators may be guided by these in day-to-day operations.**

Action taken:

- Comprehensive academic regulations were already in place. This is revised from time to time. Continuous and comprehensive teaching cum evaluation is ensured by specifying test types and test schedules to be followed. Regulations are regularly reviewed/ amended.
- Regular workshops are organized by the Academic Cell/ IQAC in order to provide guidance to faculty members, particularly new entrants on the operational aspects.

Recommendations:

3. **Core curriculum, strong in sciences, mathematics, communication skills, peoples' skills, computers, engineering graphics, manufacturing operations and basic engineering sciences common to all integrated science and engineering degree programmes to be devised and offered.**
4. **Marginally different courses to be abolished and replaced by a single strong course to optimize the resources.**
5. **Increased elective offerings in various degree programmes from across the disciplines be made available to desirous students.**

Action taken:

- Curricula of most of the PG and UG programmes have undergone substantial revision in the last few years.
- Choices of electives have been increased in various programmes, including the provision of Choice Based Credit System cutting across all programmes.

Recommendation:

6. **Alumni association be registered under society registration act of the State and funds be raised from Alumni for a specific project viz., Alumni home/hostel, international scholars' apartments, etc.**

Action taken:

- **Tezpur University Alumni Association (TUAA)** is registered under Certificate of Registration of Societies (Act XXI of 1860) of the State of Assam (2013) vide No. RS/SPR/242/F/149 of 2013-2014.
- Raising of substantial funds for specific projects from Alumni may take some time as the university is not very old.

Recommendation:

- 7. A ten year perspective plan of the University for envisioning its stature in the year 2020 be prepared.**

Action taken:

- University has prepared its *Vision Plan 2030*, which has been approved by the Board of Management vide Resolution No. B. 77/2015/3/2.7 dated 28.11.2015.

Recommendation:

- 8. Placement, IPR, Entrepreneurship development, Industry-Institution Partnership cells be made more active so as to play a catalytic role in the growth of the system.**

Action taken:

- The Tezpur University Placement Cell, the Equal Opportunity Cell and the SC/ST Cell has been put under the umbrella of the Centre for Inclusive Development (CID) (Sept, 2013) under a full time Director for comprehensive integration of their activities for value added growth for facilitating placement.
- The University has recruited additional staff in the form of a Placement Officer for its Placement Cell for expanding its activities.
- The IPR Cell has been strengthened with
 - One IPR Chair Professor (MHRD)
 - Two Research Officers, one Research Fellow
 Workshops/seminars, outreach programmes are organized by the IPR Cell, CBCS (CBCT) courses on IPR for PG and Ph.D. students are offered
- The Entrepreneurship Development Cell (EDC) is merged with the Centre for Innovation, Incubation and Entrepreneurship (CIIE) with the appointment of an eminent innovator as the Visiting Director along with a resident team with a Head of the Centre.
- The CIIE is entrusted with the responsibilities of
 - Carrying on various activities of entrepreneurship development
 - Mentoring and encouraging students for innovation
 - Providing support to budding innovators through business incubators
 - The creation of the CIIE has widened the scope of activities of the erstwhile Entrepreneurship Development Cell
- For Industry-Institution partnership, a policy for visit to industries has been put in practice.
- An Industry Chair has been instituted under sponsorship of M/S Vinati Organics Ltd., Mumbai.
- MoUs have been signed with various industry partners for assessment, training and placement of some programmes: B. Voc. Programme in Food Processing (Dept. of FET) and Renewal Energy Management (Dept. of Energy) with National Skill Development Corporation (NSDC). Diploma in Paralegal Practice under UGC Community College Scheme (SG Law Plus, Guwahati).

Recommendation/s:

- 9. Integrate “Experiential learning” as a component of the courses in various degree programmes.**

- 10. Industry-linked project component to be structured into various degree programmes.**
- 11. Integrated programmes leading to B. Tech. & MBA; M. Tech. & MBA (Energy Management) degrees may be introduced.**
- 12. A project course in ‘Social Development’ may be offered.**

Action taken:

- Student internship during semester break at outside institute/ Industry or Corporate concern in some undergraduate and post-graduate programmes.
- Industry experts have been included in the Syllabus Committee for some departments. (Depts of ECE, FET, Mechanical Engineering, Physics)
- Collaboration with industrial organization such as NRL to provide internship to Tezpur University students of appropriate specialization is in practice.
- Offering of Integrated programmes leading to B.Tech and M.B.A. is in process.
- Project course on ‘Social Development’ is not offered as of now.

Recommendation:

- 13. More short term skill development programmes for local population may be organized.**

Action taken:

- The Entrepreneurship Development Cell (now merged with the Centre for Incubation, Innovation and Entrepreneurship and the Intellectual Property Rights Cell (IPR Cell) regularly organize various skill development programmes. 8 such programmes were by the CIIE and 10 by the IPR Cell were conducted during 2011-2015 some of which were collaborative outreach programmes.
- Dept. of Business Administration now offers a 6-month Certificate course in Air Ticketing and Computerized Reservation Systems (w. e. f. 2013)
- The Equal Opportunity Cell offers a 6-month Certificate course in Technical Writing (w. e. f. 2013)

Recommendation:

- 14. New programmes and courses in Geology, Seismology, Disaster management, Social work, and Assamese Culture & Heritage, Psychology, Education etc. may be considered for future introduction.**

Action taken:

The university has considered the above recommendations with due importance which is evident from the following developments:

- The university has established a Department of Education. Integrated B.Sc. B.Ed. and B.A. B.Ed. (NCTE approved) and M. A. in Education are now being offered.
- The Centre for Disaster Management (CDM) of the university now offers elective courses for students across all disciplines.
- The Centre for Assamese Studies has been started in June 2011. It offers elective Assamese courses and courses related to Assamese language, culture and tradition. M.A. in Assamese is proposed to be offered under distance education mode.
- The department of Social Work is established (2014), offers M.A. in Social Work.

- Integrated M.Com has been started under a new Department of Commerce in 2014.
 - B. Tech. in Electrical Engineering has been started in 2015.
 - An M. Tech. programme in Civil and Infrastructure Engineering under the Department of Civil Engineering is planned w.e.f. 2016-17.
- (Proposals for some other departments are awaiting approval of the UGC)

Recommendation:**15. Student Representation on academic bodies of the university considered.****Action taken:**

- The university has nominated alumni and students as Special Invitee on Board of Management, Academic Council, Research Committee, School Boards, Departmental Advisory Committees, Board of Studies and other similar bodies. Proposals for amendment of Statutes for their induction to the statutory bodies have been submitted to MHRD for necessary approval of the Visitor.

Recommendation:**16. Strengthening of the IQAC:****Action taken:**

- IQAC has been shifted to its new permanent premises and has been provided necessary infrastructure and support staff.
- IQAC initiated the Academic and Administrative Audit in 2013.
- IQAC organizes seminars/ workshops for faculty members for improvement of teaching-learning and research environment. During 2011-15, 6 such programmes were organized.

Recommendation:**17. Non-teaching staff posts and their increase may be re-assessed.****Action taken:**

- Non-teaching staff posts increased by over 25% during the last four years.
- New positions proposed under XII Plan.

Recommendation:**18. Digitization of rare manuscripts available in departments may be re-assessed****Action taken:**

- The Centre for Assamese Studies has started the digitization of rare manuscripts: the Kirtan Ghoxa and Naam Ghoxa by Srimanta Sankardeva and Madhabdeva (combined volume) and the diaries of Lakshminath Bezbaruah have been digitized and uploaded. Digitization of more manuscripts is on course.

Recommendation:**19. Educational Systems Management of the university through Enterprise Resource Planning (ERP) system may be introduced for increased operational efficiency from admission to graduation.****Action taken:**

- To be initiated.

B. Profile of the University**1. Name and Address of the University:**

Name	TEZPUR UNIVERSITY
Address	Napaam, Tezpur Dist: Sonitpur
City	Tezpur
Pin	784028
State	Assam
website	www.tezu.ernet.in

2. For communication:

Designation	Name	Contact Details	
Vice-Chancellor	Prof. Mihir K. Chaudhuri	Telephone	O: 03712- 267003/273003 R: 03712- 267093
		Mobile	09954449454
		Fax	03712- 267006
		e-mail	mkc@tezu.ernet.in vc@ tezu.ernet.in
Pro Vice-Chancellor	Prof. Amarjyoti Choudhury	Telephone	O: 03712-267120 R: 03712-273710
		Mobile	09957191531
		Fax	03712- 267006
		e-mail	ajc@tezu.ernet.in
Registrar	Dr. Biren Das	Telephone	O: 03712- 267004/273101 R: 03712-267106/273611
		Mobile	09435080951
		Fax	03712- 267005
		e-mail	registrartu@tezu.ernet.in
Director, IQAC Joint Coordinator, Steering Committee	Prof. Utpal Sharma	Telephone	O: 03712 -275107
		Mobile	09435182047
		Fax	03712- 267005/6
		e-mail	utpal@tezu.ernet.in
Coordinator, Steering Committee	Prof. Debajit Hazarika	Telephone	O: 03712- 275505/273148
		Mobile	09435085009
		Fax	03712- 267005/6
		e-mail	debajit@tezu.ernet.in

3. Status of the University:

State University
 State Private University
 Central University
 University under Section 3 of UGC (Deemed University)
 Institution of National Importance
 Any other (please specify)

✓

4. Type of University:

Unitary

Affiliating

✓

5. Source of funding:

Central Government

State Government

Self-financing

Any other (please specify)

✓

6. a. Date of establishment of the university:**21/01/1994****b. Prior to the establishment of the university, was it a/an**

- | | | |
|-------------------------------|------------------------------|--|
| i. PG Centre | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| ii. Affiliated College | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| iii. Constituent College | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| iv. Autonomous College | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| v. Any other (please specify) | | |

If yes, give the date of establishment:

Not applicable. The University was established as a Central University under an Act of the Parliament (Act No. 45, 1993)

7. Date of recognition as a university by UGC or any other national agency

Under Section	dd	mm	yyyy	Remark
i. 2f of UGC*	15	01	1994	Established as a Central University
ii. 12B of UGC *				-do-
iii. 3 of UGC #				N/A
iv. Any other ^(specify)				N/A

* Date of notification of Tezpur University Act

8. Has the university been recognized

a. By UGC as a University with Potential for Excellence?

Yes ☐ No ☒

b. For its performance by any other governmental agency?

Yes ☒ No ☐

If yes, Name of the agency:

National Assessment and Accreditation Council (NAAC)

Year of recognition: 2005 (Accreditation), 2010 (Reaccreditation)

AICTE, NCTE, Distance Education Council (relevant departments/schools)

*The process for NBA accreditation is in progress (Expert visit is over)***9. Does the university have off-campus centres?**Yes ☐ No ☒

10. Does the university have off-shore campuses?

Yes ☐ No ☒

11. Location of the campus and area

	Location	Campus area in acres	Built up area in sq. m.
i. Main campus area	Rural	261.47	2,38,903
ii. Other campuses in the country	nil	nil	nil
iii. Campuses abroad	nil	nil	nil

12. Provide information on the following: In case of multi-campus University, please provide campus-wise information.

- Auditorium/seminar complex with infrastructural facilities
 1. Main Auditorium (capacity 850) : 01
 2. Council Hall (capacity 200) : 01
 3. Seminar Halls (capacity 60-100) : 07
 4. Seminar Hall (Capacity 300) : 01
- Sports facilities
 - * Playground (with floodlight) : 02 (Football & Cricket)
 - * Swimming pool : Nil*
(*proposal approved by the UGC)
 - * Gymnasium : 01
 - * Mini indoor stadium : 01 (Badminton & TT)
 - * Basketball court : 02
 - * Volleyball court : 02
 - * Lawn Tennis (Hard court) : 01
 - * Table tennis : 01 in Sports complex, 12 in hostels
 - * Net practice facility for cricket: 01
 - * Open playgrounds and outdoor courts have night playing facilities.
- Hostels
 - Boys' hostels
 - i. Number of hostels : 05
 - ii. Number of residents : 1818 (on 31.10.15)
 - iii. Facilities:

Free Wi-Fi internet access, Television (with DTH), Newspapers & Magazines, Mini canteen, Photocopy facility, facility for Indoor & Outdoor games, Intercom, Common Room, Guest Room, Washing Machine, 24x7 water and power supply, Water Coolers and special filters, modern kitchen and dining hall, Cycle Stand, Garden, Roti-making machine (Central facility), Solar Water Heating System

- Girls' hostels
 - i. Number of hostels : 07 (excluding 1 temporary/transit hostel)
 - ii. Number of residents : 1290 (on 31.10.15)
 - iii. Facilities
Free Wi-Fi internet access, Television (with DTH), Newspapers & Magazines, Mini canteen, Photocopy facility, facility for Indoor and Outdoor games, Intercom, Common Room, Guest Room, Washing Machine, 24x7 water and power supply, Water Coolers and special filters, modern kitchen and dining hall, Cycle Stand, Garden, Roti making machine (Central facility), Solar Water Heating System
- Working women's hostel: Yes.
The Scholars' Hostel (capacity: 36) for working women and men
 - i. Number of hostels : 01
 - ii. Number of inmates (women) : 10
 - iii. Facilities
Individual 2 BHK apartments, Free Wi-Fi internet access, 24x7 water & power supply, Modern Kitchen, Solar Water Heater

• Residential facilities for faculty and non-teaching

Quarter type	Total No.	Occupied by	
		Teaching staff	Non-teaching staff
B-type	104	85	14
C-type	137	120	14
D-type	70	-	70
E-type	35	-	35
VC Residence	01	-	01
Total No.	347	205	134

- Guest House:
 - * 63 Rooms, 1 Dormitory, a 30-capacity Conference Hall, 2 Dining Halls (all AC), Wi-Fi Internet access, Solar Water Heaters
- Transit Office for Training & Placement cum CODL Office (Guwahati):
 - * 5 AC Rooms, 1 AC Suite, 1 Mini (AC) Conference room.
- Cafeteria: 02 (large), 05 (small)
- Health Centre (nature of facilities available)
 - Inpatient: Yes (Day care only)
 - Outpatient: Yes
 - Ambulance: 02
 - Emergency care facility: Yes (Limited)
 - Other facilities:
 - * 10 indoor beds (provision for 10 more beds)

- * ECG and Ultrasound Scanning facilities.
- * Auto-analyser and Mini-vidas for regular investigations.
- * Autoclave, Suction machine and Nebuliser machines.
- * X-ray machine
- Bank: 03 (SBI, United Bank of India, PNB)
- ATMs: 04 (SBI-02, PNB-01, Axis Bank:01)
- Post office: 01
- Book shops: 02
- Pharmacy: 01
- Transport:
 - * Assam State Transport Corporation (ASTC) buses run between Tezpur Town and University campus at regular intervals for students and staff.
- Facilities for persons with disabilities:
 - * All major buildings have barrier free environment for persons with disabilities
 - * Differently abled students are provided with the facility of official vehicle to commute between hostels and classes
 - * University website has been made accessible to persons with multiple disabilities
 - * University booklet 'TU at a Glance' has been published in Braille script
- Incinerator for laboratories:
 - * Installation of an incinerator is in process.
- Power house: 01
 - * Diesel Generator: 05 (Total capacity: 2500 KVA) covering whole campus
 - * Solar street lights at strategic places
- Waste management facility:
 - * Wastes are collected at designated waste collection points and taken to the municipality dumping space through outsourced agencies.
 - * Partial waste (hostel) is converted to energy on pilot project basis.
 - * Recycling of partial waste through vermicomposting.

13. Number of institutions affiliated to the university:

Not Applicable

14. Does the University Act provide for conferment of autonomy (as recognized by the UGC) to its affiliated institutions? If yes, give the number of autonomous colleges under the jurisdiction of the University

Not Applicable

15. Furnish the following information:

Particulars	Number	Number of Students
a. University Departments Research Centres on the campus	20 06	3500 (on 31.10.15)
b. Constituent colleges	NA	
c. Affiliated colleges	NA	
d. Colleges under 2(f)	NA	
e. Colleges under 2(f) and 12B	NA	
f. NAAC accredited colleges	NA	
g. Colleges with Potential for Excellence (UGC)	NA	
h. Autonomous colleges	NA	
i. Colleges with Postgraduate Departments	NA	
j. Colleges with Research Departments	NA	
k. University recognized Research Institutes/Centres	NA	

16. Does the university conform to the specification of Degrees as enlisted by the UGC? No ☐ Yes ☒

If the university uses any other nomenclatures, please specify. Not applicable

17. Academic programmes offered by the university departments at present, under the following categories: (Enclose the list of academic programmes offered)

Programmes	Number
UG	B. Tech. - 06 Int. BSc. B.Ed. / B.A. B. Ed. - 04
PG	M.A., M.Sc., MBA, MCA, M.Tech. – 25
Integrated Masters	Int. M.Sc./Int. M.A./Int. M.Com. – 06
Ph. D.	18
Certificate	03
Diploma	02
PG Diploma	04
B. Voc.	02
Total	70

18. Number of working days during the last academic year. (2014-15) **19. Number of teaching days* during the past four academic years (excluding examination days)**

<input type="text" value="153"/>	<input type="text" value="150"/>	<input type="text" value="151"/>	<input type="text" value="150"/>
2014-15	2013-14	2012-13	2011-12

(*University follows a 5-days' week with 8 working hours per day)

The number of teaching days has been increased to 180 days wef 2015.

20. Does the university have a department of Teacher Education?

Yes ☒ No ☐

If yes,

a. Year of establishment: 19/03/2013.

b. NCTE recognition details (if applicable)

Notification No.: ER-188.6.5/APP2068/B.A. B.Ed. & B.Sc. B.Ed. 4
years integrated course/2015/31973

Date: 23/05/2015.

c. Is the department opting for assessment and accreditation separately?

Yes ☐ No ☒

21. Does the university have a teaching department of Physical Education?

Yes ☐ No ☒

22. In the case of Private and Deemed Universities, please indicate whether professional programmes are being offered?

Not Applicable

23. Has the university been reviewed by any regulatory authority? If so, furnish a copy of the report and action taken there upon.

- * National Council for Teacher Education (NCTE)
 - * AICTE (2013, Dept. of Mechanical Engineering)
 - * Distance Education Council (2012)
 - * NBA (2015, five departments under School of Engineering)
- (In addition to NAAC Visit in 2005 and 2010)

24. Number of positions in the university (as on 31.10.2015)

Positions	Teaching faculty			Non-teaching (Non-technical) staff	Technical staff
	Professor	Associate Professor	Assistant Professor		
Sanctioned by the UGC	50	69	130	186	88
Recruited	44	55	129	180	84
Yet to recruit	06	14	01	06	04
Number of persons working on contract basis			26	30	02

25. Qualifications of the teaching staff (as on 31.10.2015)

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.							
Ph. D.	49	11	43	04	58	19	184
M.Phil.					04	08	12
PG					23	09	32
Temporary teachers							
Ph.D.					07		07
M.Phil.							
PG					13	04	17
Part-time teachers							
Ph.D.							
M.Phil.							
PG					02		02

26. Emeritus, Adjunct and Visiting Professors

	Emeritus Professor	Adjunct Professor	Visiting Professor
Number	Nil	01*	01*

*To join in 2016

27. Chairs instituted by the university

S. No.	School	Name of the chair /sponsor
1	Management Sciences	I.P.R. Chair, MHRD
2	Humanities	Srimanta Sankardeva Chair, UGC
3	On Rotation	Lokapriya Gopinath Bordoloi Chair, Tezpur University
4	Sciences	Industry Chair, Vinati Organics Ltd., Mumbai
5	Humanities	Mahatma Gandhi Chair in Ethics/ ICPR

28. Students enrolled in the university departments during the current academic year, with the following details: (2014-15)

Students	UG		PG		Integrated Masters		Ph.D.		Certificate		Diploma		PG Diploma	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
From the state university is located	533	207	503	625	178	164	207	263	29	11	18	07	07	04
From other states	280	36	106	39	02	05	37	21	14	00	00	00	00	00
NRI students	01	00	00	00	00	00	00	00	00	00	00	00	00	00
Foreign students	00	00	01	01	00	00	01	00	00	00	00	00	00	00
Total	814	243	610	665	180	169	245	284	43	11	18	07	07	04

M-Male, F-Female

29. 'Unit cost' of education

(Unit cost = total annual recurring expenditure (actual)/ total no. of students enrolled)

Year	No. of Students Enrolled	Total Recurring Expenditure including Salary (₹)	Expenditure excluding Salary (₹)	Unit Cost of Education Including Salary (₹)	Unit Cost of Education excluding Salary (₹)
1	2	3	4	5 (3/2)	6 (4/2)
2014-15	3301	62,96,52,920.00	24,98,39,217.00	1,90,746.00	75,686.00
2013-14	3059	62,10,80,110.00	28,88,30,710.00	2,03,034.00	94,420.00
2012-13	2813	44,10,66,353.50	15,99,87,251.50	1,56,796.00	56,874.00
2011-12	2350	40,14,95,318.78	16,19,83,836.78	1,70,849.00	68,929.00
2010-11	2013	32,52,29,244.05	13,16,87,389.05	1,61,564.00	65,418.00

30. Academic Staff College: Nil**31. Does the university offer Distance Education Programmes (DEP)?**

Yes ☒ No ☐

If yes, indicate the number of programmes offered:

Distance Education programmes are offered under the Centre for Open and Distance Learning (CDOL) of Tezpur University

Total no of Programmes offered: 10

Are they recognized by the Distance Education Council? Yes

All the programmes (currently offered) are recognised

32. Does the university have a provision for external registration of students?

Yes ☐ No ☒

33. Is the university applying for Accreditation or Re-Assessment? If accreditation, name the cycle.

Accreditation: Cycle 1 ☐ Cycle 2 ☐ Cycle 3 ☒ Cycle 4 ☐

34. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4, re-assessment only)

Cycle 1: 20/05/2005: Accreditation Result: Grade: B+ (Institutional Score 76.80)

Cycle 2: 08/01/2011: Accreditation Result: Grade: B (CGPA: 2.76/4.00)

35. Does the university provide the list of accredited institutions under its jurisdiction on its website? Provide details of the number of accredited affiliated / constituent / autonomous colleges under the university.

Not Applicable

36. Date of establishment of Internal Quality Assurance Cell (IQAC) and dates of submission of Annual Quality Assurance Reports (AQAR).

IQAC Established: 16/08/2005

AQAR submitted:

Year	Submit date
2013-2014	25/06/2015
2012-2013	18/11/2013
2011-2012	14/12/2012
2010-2011	28/07/2011
2009-2010	06/07/2010
2008-2009	12/08/2009

37. Any other relevant data, the university would like to include:

a. Second campus of the university:

Upon receiving requests from the citizens and leading socio-cultural organizations of the area, the University prepared a proposal for setting up a second campus at Jonai in Dhemaji district in Assam (at a distance of 350 km). It has been approved in principle by the UGC and approval of the Ministry of HRD is awaited.

b. Adoption of a law college:

The Governing Body of Tezpur Law College, a leading seat of legal studies of the region, requested the University for adoption of the college as a constituent college. The Board of Management of the University has approved the proposal. A Detailed Project Report (DPR) has been submitted to the Ministry of HRD. Approval is awaited.

c. Commencement of a Community College:

The University has been accorded approval by UGC to set up a Community College to run a One Year Diploma in Paralegal Practice. The first batch of the students has been enrolled in the Autumn Semester of 2015.

d. Commencement of UGC supported Vocational Programmes:

The University is offering B. Voc. Programmes in Renewable Energy Management and Food Processing with effect from the session 2015-16.

e. Adoption of villages: Tezpur University has adopted two villages:

Amolapam (Dist. Sonitpur) and Jawani (Dist: Sonitpur) in 2014 with a view to develop them as model villages. In addition, adoption of three more villages are in the process.



Criterion I
CURRICULAR ASPECTS

C. Criteria-wise Inputs

CRITERION I: CURRICULAR ASPECTS

1.1 Curriculum Design and Development

1.1.1 How is the institutional vision and mission reflected in the academic programmes of the university?

In its institutional vision, Tezpur University envisages to develop human excellence and inculcate leadership through hard work and creativity.

Tezpur University strives to achieve excellence in the field of education, research and outreach linking traditional and new fields of knowledge in a residential environment. It endeavors through education, research, training and extension to play a positive role in the development process of the region.

Further, it envisions combining excellence in education, research and outreach efforts together with that of administrative efficiency so that the university shines in all areas of academic and outreach efforts.

In consonance with its vision, Tezpur University has its mission to render itself as one of the most preferred destinations of students, faculty and scholars / and employees and to place itself within top 50 universities of the world.

Through its academic activities the university seeks to

(a) Facilitate basic, employment oriented and interdisciplinary courses and facilitate research in emerging areas of knowledge and in disciplines of direct relevance to the region.

(b) Provide an innovative system of university level education, flexible in regard to methods and pace of learning, combination of courses, eligibility for enrolment, age of entry, conduct of examinations and operation of the programmes with a view to promote learning and encourage excellence in the field of new knowledge.

(c) Promote study of the rich culture of the region and in particular, the diverse ethnic and linguistic culture of the region that eventually facilitates integration.

(d) Utilize distance education mode and modern communication technologies to provide access to higher education for large segments of society and in particular, the disadvantaged groups such as those living in remote and rural areas and to provide opportunities for life-long learning.

The academic programmes of the university are planned, designed and executed with an aim to reflect the Vision and Mission of the university in the best possible way. More emphasis is given upon the employment oriented programmes with value addition and skill development in interdisciplinary areas. The programmes range from the conventional programmes to the contemporary and interdisciplinary programmes as well as vocational courses in relevant fields. New programmes have been added over the years keeping in mind with the evolving trends as well as societal requirements. University has established academic programmes that are designed to facilitate the study and promotion of rich cultural traditions as well as diverse linguistic culture of the

region. Tezpur University has established its Centre for Open and Distance Learning which is currently offering several programmes designed to cater to the emergent needs to enhance the accessibility of people to higher education who are either employed or unable to get enrolled in regular classroom courses.

1.1.2 Does the university follow a systematic process in the design and development of the curriculum? If yes, give details of the process (need assessment, feedback, etc.).

The curriculum design and development takes place through a set mechanism which is flexible and detailed at the same time.

For an existing department, framing or modification of course curriculum is taken up by a committee comprising faculty members or a group of faculty members and external members. For new/proposed departments or programmes, a committee with experts and Dean of the concerned school drafts the curriculum. Such draft curriculum is placed before the Board of Studies of a concerned department, comprising of the faculty members of the Department, student representative/s and external experts. The details of the requirements, current status of the subject, guidelines of bodies such as the UGC, feedback received from alumni and other necessary aspects are considered in details at this stage. The opinion of external experts are sought, discussed and implemented. Usually sub-committees are formed to carry out the specific details. The Board of Studies of the concerned department, if accepts the recommendation of the Committee, forwards the proposal to the School Board. The School Board discusses the same and if found fit, forwards it to the Academic Council, the principal academic body of the University for consideration. If found to be requiring re-consideration or modification, a proposal is sent back to the Board of Studies by the School Board or by the Academic Council, as the case may be. Final approval of the syllabi by the Board of Management is also obtained. Planning Board has a role as the monitoring agency for implementation of the academic programmes as per the statute.

1.1.3 How are the following aspects ensured through curriculum design and development?

- * **Employability**
- * **Innovation**
- * **Research**

Academic Programmes are so designed that the human resources developed through these courses take care of local need of trained human resource as well as national need. Emphasis is given in emerging areas so that the University can contribute towards the pool of resources to meet the future demand of the country.

Tezpur University has, in the recent years, introduced programmes such as M. Tech. (Polymer Science), M. Tech. (Food Engineering and Technology), Advanced Diploma in Healthcare Informatics and Management, Integrated M.

Sc. Programmes, Integrated B. A. B. Ed. /B. Sc. B. Ed. Programmes, M. A. (Education) etc. which are a testimony to the efforts of the university to combine local needs to employability as well as developing manpower in concerned areas. Further, programmes like B.Voc in Renewable Energy Management, Food Processing and Diploma in Paralegal Practice are introduced aiming to bridge the gap between demand and supply in the workplaces in the concerned field.

The employability is sought to be enhanced through the training of students not only in the core areas, but also in developing soft skills required for their professional development. Through the liberal choice based credit system, students have the opportunity to develop additional skills and broader perspectives for problem or situation handling which vastly improves their employability. Feedback received from industries, research organizations and academic institutions where students are sent for their internship is taken into account during curriculum development.

Many of the Research projects and projects carried out as a part of the curriculum are based on local needs/problems to suggest solutions. At the same time, research is conducted in the areas of national need, basic sciences as well as of industrial importance which can generate employability.

Projects, which are an integral part of the curriculum, help the students to develop a background for research, particularly at the Post Graduate level. Students also get an opportunity to implement innovative ideas. The setting up of the **Microsoft Innovation Centre (MIC)** and the **Centre for Innovation, Incubation and Entrepreneurship (CIIE)** at Tezpur University in 2013 has opened up opportunities for students and young researchers to shape their innovative ideas into reality.

1.1.4 To what extent does the university use the guidelines of the regulatory bodies for developing and/or restructuring the curricula? Has the university been instrumental in leading any curricular reform which has created a national impact?

As mentioned in Section 1.1.2 of this report, the university utilizes experts within and outside the university and follows the general guidelines of the regulatory bodies such as UGC for developing a particular curriculum.

Model syllabus provided by regulatory authorities, if available, and syllabi of premier institutes are consulted during development of a particular curriculum. Several institutes have consulted Tezpur University curriculum for different programmes and invited faculty members of the university as visiting experts.

1.1.5 Does the university interact with industry, research bodies and the civil society in the curriculum revision process? If so, how has the university benefitted through interactions with the stakeholders?

The departments collect feedback from different sectors such as Industry, Research Bodies and Alumni in its process of curriculum revision.

The feedback provides critical inputs for improvement of the programmes and therefore considered extremely valuable. These are usually implemented after

due scrutiny.

- 1.1.6 Give details of how the university facilitates the introduction of new programmes of studies in its affiliated colleges.**

Not applicable.

- 1.1.7 Does the university encourage its colleges to provide additional skill-oriented programmes relevant to regional needs? Cite instances (not applicable for unitary universities).**

Not applicable.

1.2 Academic Flexibility

- 1.2.1 Furnish the inventory for the following:**

Programmes taught on campus

a. Undergraduate programmes

B. Tech: 06

b. Post graduate programmes

1. **M.A.: 09**
2. **M. Sc.: 06**
3. **M.Tech.: 08**
4. **Master of Computer Application (MCA)**
5. **Master of Business Administration (MBA)**

c. Integrated Programmes

1. **Integrated M.A./M.Sc. /M.Com. : 06**
2. **Integrated B.Sc. B.Ed./ B.A. B. Ed. : 04**

d. P.G. Diploma and Advanced Diplomas: 04 + 01= 05

e. Certificate programmes: 03

f. Ph. D. programmes: 18

g. B. Voc.: 02

h. Diploma: 01

Details of programmes of studies are given below:

(Academic Year 2015-16)

Name of the Programmes of Studies	Department/Cell	School
1. M.Sc. in Physics	Physics	Sciences
2. M.Sc. in Nanoscience & Technology		
3. Integrated M.Sc. in Physics		

4. Integrated B.Sc. B.Ed. (major in Physics)	Chemical Sciences	Humanities and Social Sciences
5. Ph. D. in Physics		
6. M. Sc. in Chemistry		
7. M. Tech. in Polymer Science & Technology		
8. Integrated M.Sc. in Chemistry		
9. Integrated B.Sc. B.Ed. (major in Chemistry)		
10. Ph. D. in Chemical Sciences	Mathematical Sciences	
11. M. Sc. in Mathematics		
12. Integrated M.Sc. in Mathematics		
13. Integrated B.Sc. B.Ed.(major in Mathematics)		
14. Ph. D. in Mathematical Sciences	Molecular Biology & Biotechnology	
15. M.Sc. in Molecular Biology & Biotechnology		
16. Integrated M.Sc. in Bioscience & Bioinformatics		
17. Ph. D. in Molecular Biology & Biotechnology	Environmental Science	
18. M.Sc. in Environmental Science		
19. Ph. D. in Environmental Science	English & Foreign Languages	
20. M.A. in English		
21. Integrated M.A. in English		
22. Integrated B.A. B.Ed.(major in English)		
23. M. A. in Linguistics and Language Technology		
24. M. A. in Linguistics and Endangered Languages		
25. One year Certificate in Chinese		
26. Ph. D. in English & Foreign Languages	Cultural Studies	
27. M.A. in Cultural Studies (Modular)		
28. Ph. D. in Cultural Studies	Mass Communication & Journalism	
29. M.A. in Mass Communication & Journalism		
30. P.G. Diploma in Mobile & Multimedia Communication		
31. Ph. D. in Mass Communication & Journalism	Sociology	
32. M.A. in Sociology		
33. Ph. D. in Sociology	Hindi	
34. M. A. in Hindi		
35. P.G. Diploma in Translation (Hindi)		
36. Ph. D. in Hindi	Social Work	
37. M. A. in Social Work		
38. M. A. in Education	Education	
39. Certificate in Technical Writing	Equal	

	Opportunity Cell	
40. Ph. D. in Assamese Studies	Centre for Assamese Studies	
41. P.G. Diploma in Women’s Studies (w.e.f. 2015-16)	Centre for Women’s Studies	
42. Master of Business Administration	Business Administration	Management Sciences
43. P.G. Diploma in Tourism Management (PGDTM)		
44. Ph. D. in Business Administration		
45. Certificate in Air Ticketing and Computerized Reservation System		
46. Integrated M. Com.	Commerce	
47. Master of Computer Application (MCA)	Computer Science & Engineering	Engineering
48. M. Tech. in Information Technology		
49. B. Tech. in Computer Science & Engineering		
50. Ph. D. in Computer Science & Engineering	Electronics & Communication Engineering	
51. M. Tech. in Electronics Design & Technology		
52. M. Tech. in Bioelectronics		
53. B. Tech. in Electronics & Communication Engineering		
54. B. Tech. in Electrical Engineering		
55. Advanced Diploma in Healthcare Informatics and Management		
56. Ph. D. in Electronics & Communication Engineering		
57. M. Tech. in Food Engineering & Technology (lateral entry)	Food Engineering & Technology	
58. Integrated M. Tech. in Food Engineering & Technology		
59. B. Tech. in Food Engineering & Technology		
60. B. Voc. in Food Processing (w.e.f. 2015-16)		
61. Ph. D. in Food Engineering & Technology	Mechanical Engineering	
62. B. Tech. in Mechanical Engineering		
63. M. Tech. in Mechanical Engineering		
64. Ph. D. in Mechanical Engineering	Civil Engineering	
65. B. Tech. in Civil Engineering		
66. Ph. D. in Civil Engineering	Energy	
67. M. Tech. in Energy Technology		
68. B. Voc. in Renewable Energy Management (w.e.f. 2015-16)		
69. Ph. D. in Energy		
70. Diploma in Paralegal Practice (w.e.f. 2015-16)	Community College	

Overseas programmes offered on campus: None

Programmes available for colleges to choose from: Not applicable

1.2.2 Give details on the following provisions with reference to academic flexibility

a. Core / Elective options:

There are core courses as well as elective courses as well as Choice Based Credit Transfer (CBCT) courses in each programme. The elective courses are chosen by the students from amongst the elective courses offered by the Department. The CBCT courses are chosen by the students from the list of the courses offered by the other departments.

b. Enrichment courses:

Certificate in technical writing (Equal Opportunity Cell)

c. Courses offered in modular form:

M.A. in Cultural Studies

M. A. in Linguistics and Endangered Languages (*offered w.e.f. 2015-16*)

B. Voc. in Renewable Energy Management

B. Voc. in Food Processing (*offered w.e.f. 2015-16*)

d. Credit accumulation and transfer facility:

University follows credit transfer system within the departments. There is a provision for accepting credits of similar courses, including Ph. D course work for other institutions.

e. Lateral and vertical mobility within and across programmes, courses and disciplines:

No mechanism for vertical mobility. Limited lateral mobility is permissible in some cases.

Students are allowed to register any course as per their choice from the list of any courses offered by other department up to a certain limit.

1.2.3 Does the university have an explicit policy and strategy for attracting international students?

The university has set up its **International Office** in 2013 and is looking forward to attract more international students and towards the same along with other designated activities.

However, the university, as of date does not have an explicit policy and strategy for attracting students. However, very recently the university has approved a policy drafted by the International Office seeking to (1) offer a few fellowships to foreign students in some disciplines to be identified (2) start a concerted campaign through SAARC and other embassies to publicize the university in order to attract self-financing international students; and (3) to start from the next academic year Tezpur University Examination Centres in

Dhaka, Kathmandu and Thimphu in order to facilitate admission of international students to the university.

1.2.4 Have any courses been developed targeting international students? If so, how successful have they been? If 'no', explain the impediments.

No such courses are being currently offered. It may however be mentioned that all the under graduate, Post Graduate, and Ph. D. programmes are suited and open for international students as well.

1.2.5 Does the university facilitate dual degree and twinning programmes? If yes, give details.

No.

1.2.6 Does the university offer self-financing programmes? If yes, list them and indicate if policies regarding admission, fee structure, teacher qualification and salary are at par with the aided programmes?

There is no self-financing programme. However, there is a provision of admitting limited number of candidates in each programme under self-supported scheme (SSS) where the candidates have to pay higher amount of fees. Admission under this scheme can be opted only by students who figure in the waiting list.

Further, under agreements with the Indian Army (2009) and ITBP (2013), Indian Army and ITBP personnel are fully sponsored by their respective organizations to undertake the Certificate course in Chinese in the Department of English and Foreign Languages.

1.2.7 Does the university provide the flexibility of bringing together the conventional face-to-face mode and the distance mode of education and allow students to choose and combine the courses they are interested in? If 'yes,' give operational details.

Only the conventional face-to-face mode of education is being practiced. Programmes under distance education module are conducted separately under the Centre for Open and Distance Learning (CODL). Students are, however, permitted to enroll for additional degrees under distance education programme of the university if they so desire.

1.2.8 Has the university adopted the Choice Based Credit System (CBCS)? If yes, for how many programmes ? What efforts have been made by the university to encourage the introduction of CBCS in its affiliated colleges?

The University has adopted the CBCS for all the programmes in line with the UGC's Choice Based Credit System. The University has been offering Choice Based Credit Transfer Courses under a cafeteria system.

The university being unitary has no affiliated college.

1.2.9 What percentage of programmes offered by the university follows:

- * **Annual system:** Nil
- * **Semester system:** 100%
- * **Trimester system:** Nil

1.2.10 How does the university promote inter-disciplinary programmes ? Name a few programmes and comment on their outcome.

Interdisciplinarity is promoted in the University by keeping provisions in the programmes so that candidates of different subjects become eligible to apply for certain programmes which are again a combination of different disciplines. In such programmes, courses of other related departments are also offered.

Such interdisciplinary programmes are

- M. Sc. in Nanoscience and Technology
- M. Tech. in Bioelectronics
- M. Tech. in Food Engineering and Technology.

In addition to these programmes, students opt for courses offered by other departments. The interdisciplinary components of these courses are fixed at 20% of the overall programme requirement. This has helped the students to widen their spectrum of knowledge and problem solving capability, which in turn helps to obtain meaningful employment.

1.3 Curriculum Enrichment**1.3.1 How often is the curriculum of the university reviewed and upgraded for making it socially relevant and/or job oriented / knowledge intensive and meeting the emerging needs of students and other stakeholders?**

The Course curriculum is updated as and when required. The syllabi are revised as per the feedback of the experts, alumni and students. On an average the curricula are revised within 2-3 years.

1.3.2 During the last four years, how many new programmes at UG and PG levels were introduced? Give details.

- * **Inter-disciplinary**
- * **Programmes in emerging areas**

Following new programmes were introduced:

1. M.A. in Linguistics and Endangered Languages (2015)
2. P.G. Diploma in Women Studies (2015)
3. B. Voc. in Renewal Energy Management (2015)
4. B. Voc. in Food Processing (2015)
5. MA in Education (2015)
6. B. Tech in Electrical Engineering (2014)
7. Integrated M.Com (2014)
8. M.A. in Social Work (2014)

9. M.A. in Hindi (2013)
10. M. Tech in Mechanical Engineering (2013)
11. Advanced Diploma in Health Care Informatics & Management (p/time) (2012)
12. Certificate in Air ticketing & Computerized Reservation System (p/time) (2012)
13. Certificate in Technical Writing (p/time) (2012)
14. M.A. in Linguistics and Language Technology (2012)
15. Diploma in Paralegal Practice

**Sl. No's 11 to 13 are UGC sponsored career oriented programmes*

1.3.3 What are the strategies adopted for the revision of the existing programmes? What percentage of courses underwent a syllabus revision?

Considering the emerging trends, consultations of the experts and feedback from the employers the syllabi are revised.

Almost 90% of all programmes have undergone revision during the last four years.

1.3.4 What are the value-added courses offered by the university and how does the university ensure that all students have access to them?

The University has been offering courses on Yoga and various CBCT courses such as Everyday Chemistry, Green Chemistry, Education Management, Disaster Management, Value Education, Right to Education, Food and Nutrition, Computer Applications and Information Management, Energy and Management, Programming for Business Applications, Bio-Entrepreneurship etc. for all the students as elective/add-on courses. These are offered selectively to PG/UG students.

1.3.5 Has the university introduced any higher order skill development programmes in consonance with the national requirements as outlined by the National Skills Development Corporation and other agencies?

The University has started the B. Voc. Programmes in Renewable Energy Management and in Food Processing in the line of National Skill Development Corporation (NSDC) with effect from the Academic Year 2015-16. The university has also introduced Diploma in Paralegal Practice under Community College in consonance with the national requirement with effect from 2015.

Proposal for some programme under KAUSAL has been submitted to the UGC.

1.4 Feedback System

1.4.1 Does the university have a formal mechanism to obtain feedback from students regarding the curriculum and how is it made use of?

The university has a formal mechanism to obtain feedback from students. Departments collect the feedback from the students in the prescribed format on each course at the end of the teaching schedule in the semester. The format does not contain the name of the students. The course-wise feedback of the students is shown to the faculty members in the department and major issues are placed in the Departmental Advisory Committee. These are then sent to the Vice Chancellor for his information with a note on the adopted/suggested corrective measures. The process for an online feedback system is under consideration.

Proper measures are taken to ensure adequacy of teaching and curriculum as required based on the review of the feedback. Feedback received from the students is also kept in mind while modifying the syllabi.

1.4.2 Does the university elicit feedback on the curriculum from national and international faculty? If yes, specify a few methods such as conducting webinars, workshops, online discussions, etc. and its impact.

The university collects opinions of experts (national as well as international) during the formulation as well as in updating of its syllabi. The opinion is usually sought via written comments or through emails. These are placed before the relevant DAC, BOS as well as the Academic Council along with the proposals placed for consideration.

1.4.3 Specify the mechanism through which affiliated institutions give feedback on curriculum enrichment and the extent to which it is made use of.

Not applicable.

1.4.4 What are the quality sustenance and quality enhancement measures undertaken by the university in ensuring the effective development of the curricula?

Inputs of the subject experts and stake holders are welcome and incorporated. The university takes formal as well as informal feedback from its alumni, employer, community, academic peers, industries and parents for ensuring the effective development of the curricula.

- a) **Alumni:** by interacting with them during alumni meet and/or through regular interchange of mails with the department, as member of the Board of Studies and other bodies.
- b) **Employer:** usually feedback during campus recruitment provides critical inputs regarding the curriculum.
- c) **Community:** the community is made a part of the university life by having members from distinguished walks of life on the Board of Management, the final authority to approve newly introduced programmes. University also receives suggestion/communication from other community organizations on course curricula from time to time and

takes into consideration of such input.

- d) **Academic peers:** After preparing a syllabus it is sent to 2/3 renowned experts in the field for their comments. Eminent academicians are members of the university Academic Council, the statutory body for acceptance of a new or modified syllabus.
- e) **Industry:** Industry experts have been included in the syllabus review committee of some of the departments
- f) **Parents:** The IQAC gathers feedback from parents/guardians after the passing out of the students.

The university is in the process of introducing a more formal mechanism for collection and utilization of feedback from different sources.



Criterion II TEACHING, LEARNING AND EVALUATION

CRITERION II: TEACHING-LEARNING AND EVALUATION**2.1 Student Enrolment and Profile****2.1.1 How does the university ensure publicity and transparency in the admission process?**

The University publishes the admission announcement in the local and national newspapers which includes vernacular, Hindi and English newspapers. The admission announcement is also notified on the University website which remains there till the last date of submission of application is over. The application form submission process has been made fully online in 2015.

The conduct of the entrance examinations and preparation of the merit list (except B. Tech. and MBA programmes and some seats of M. Sc. in MBBT) is done by a committee called Tezpur University Entrance Examination (TUEE) Committee constituted by the University every year. The merit lists are uploaded on the Tezpur University website and a short notice is issued in the newspaper.

Candidates for the M.B.A programme are selected on the basis of CAT and MAT (December) scores followed by Group Discussion and Personal Interview. The list along with wait listed candidates is displayed in the University website.

(Pl. also refer to 2.1.2 below)

2.1.2 Explain in detail the process of admission put in place by the university. List the criteria for admission: (e.g.: (i) merit, (ii) merit with entrance test, (iii) merit, entrance test and interview, (iv) common entrance test conducted by state agencies and national agencies (v) other criteria followed by the university (please specify).

Admission to all the programmes (except MBA, B. Tech and some seats for M.Sc. in Molecular Biology and Biotechnology) is based on an open entrance test conducted by the TUEE on all India basis.

Admission to the MBA programme is based on the MAT and CAT score. Admission to the M.Sc. in Molecular Biology and Biotechnology programme for open seats (20/30) is done through the national Combined Entrance Examination conducted by the Jawaharlal Nehru University. For the remaining 10 seats (reserved for the NE states) selection is done through the TUEE.

Candidates for Admission to B. Tech. programme are selected on basis of merit in terms of All India Rank in IIT-JEE (Main) conducted by the CBSE. Of the total seats 60% are reserved for domiciles of NE states for which merit lists are prepared by the university. The remaining 40% seats are filled through CSAB.

Tezpur University also has a provision of supernumerary admission to State Board Toppers of 10+2 Examination of all the NE States in its B. Tech. and Integrated Programmes.

All the candidates are selected based on the merit in entrance test except for the following programmes where Personal Interview and/or GD are also

conducted.

- a. MBA (CAT/MAT score followed by GD and PI)
- b. MA in Mass Communication and Journalism (TUEE followed by PI)
- c. MA in English (TUEE followed by PI)
- d. MA in Social work (TUEE followed by PI)

2.1.3 Provide details of admission process in the affiliated colleges and the university's role in monitoring the same.

Not applicable.

2.1.4 Does the university have a mechanism to review its admission process and student profile annually? If yes, what is the outcome of such an analysis and how has it contributed to the improvement of the process?

Tezpur University reviews admission process and student profile annually just after the admission procedure is over in an attempt to measure fairness, efficiency and effectiveness of the admission process. During the review process the following points are kept in mind:

- Overseeing the development and implementation of the University's strategy for the admission of students.
- Reviewing the mechanism for admission of reserved category candidates
- Reviewing the Principles and Procedures of admission on an annual basis, to ensure that those are consistent with its policies and objectives.
- Ensuring that the Principles and Procedures of admission are implemented.
- Ensuring that University policies and strategies remain consistent and enable the University to achieve its strategic objectives for the admission of students.
- Assessing the increasing/decreasing trends of number of applicants in each subject.
- Advising Departments on how best to achieve the target of University Admission.

The yearly exercise has yielded several positive outcomes.

- New centres have been included after detailed analysis of number of applicants from different places and regions (2010-19, 2015-23)
- OMR in evaluation implemented for speedy and transparent evaluation.
- Student participation in designing university poster through competition
- Online application procedure implemented (w. e. f. 2015-16)

2.1.5 What are the strategies adopted to increase / improve access for students belonging to the following categories:

- * **SC/ST/OBC(NCL):** Cut off mark is lowered for selection of the candidates. Special admission drive is conducted through advertisement in the newspapers for the admission of the candidates against the vacant seats, if any. Assistance is provided to students to obtain study loan from banks.

Free-ships to needy meritorious students are provided.

- * **Women:** To attract more women students, hostel seats are assured. Bi-cycles are provided to women students belonging to economically weaker families.
- * **Persons with varied disabilities:** The cut off mark is lowered for selection of the candidates. Special advertisement is floated in the newspapers for the admission of the candidates against the vacant seats, if any. Facilities for barrier-free environment are assured. In addition, students with multiple disabilities are provided with transport facilities from hostel to attend classes. Some of the academic buildings and hostels provided with barrier free environment.
- * **Economically weaker sections:** Free tuition, limited book bank facility, assistance in acquiring bank loan is provided. Concession in hostel fee is also considered in deserving cases. As per available record 83 free studentships were provided during 2011-15. 30 students were provided book bank facility during 2011-15.
- * **Outstanding achievers in sports and other extracurricular activities:** University has drafted a regulation for introducing quota for direct admission of outstanding achievers in sports/ extracurricular activities (to be implemented). Necessary infrastructural facilities for sports and co-curricular activities are made available on the campus.

2.1.6 Number of students admitted in university departments in the last four academic years:

Category	2014-15		2013-14		2012-13		2011-12	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	90	60	81	46	86	54	82	50
ST	39	43	51	39	34	48	39	32
OBC-NCL	196	134	178	115	183	103	156	114
General	320	269	331	298	361	244	287	221
Others	32	24	27	28	33	36	21	20
Total	677	530	668	526	697	485	585	437
Grand Total	1207		1194		1182		1022	

2.1.7 Has the university conducted any analysis of demand ratio for the various programmes of the university departments and affiliated colleges? If so, highlight the significant trends explaining the reasons for increase /

A detailed analysis of the demand ratio is carried out by the Tezpur University Entrance Examination Committee every year and is placed before the admission Committee which then scrutinizes it closely.

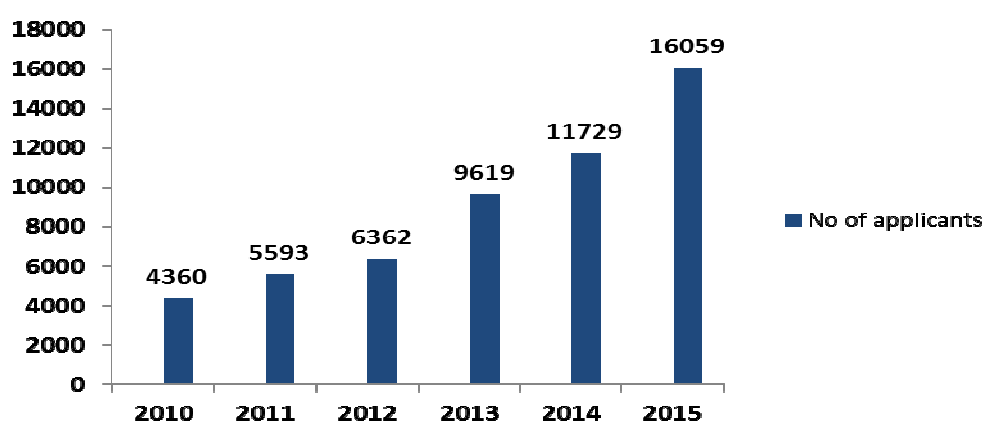
The demand ratio, in general, has been steeply increasing except in a few cases.

Departments analyze the reasons and take corrective measures in case of a downward trend. All the Integrated programmes have shown sharp increase in demand over the last few years. In 2015, the integrated programmes recorded an overall increase of over 80% in the number of applicants over the previous year. The total number of candidates appearing in the university entrance examinations under TUEE in 2015 has shown an increase of 37% percent (16059 against 11729 in 2014).

Demand Ratio in 2013-15:

Programme	Number of applications			Approved Intake	Demand Ratio		
	2015	2014	2013		2015	2014	2013
UG	n/a	5213	5778	306 (2014) 276 (2013)	n/a	1:17	1:22
PG	8444	6675	4733	650 (2015) 631 (2014) 611 (2013)	1:13	1:11	1:8
Integrated Masters	7613	4208	1625	130 (2014,15) 112 (2014)	1:58	1:32	1:14
M.Phil.	NA	NA	NA	NA	NA	NA	NA
Ph.D.	*805	974	n/a	47 (2015) 105(2014) 87 (2013)	1:17	1:9	1:8
PG Diploma	63	52	38	61 (61)	1:1	1:85	1: .62

*Spring only



2.1.7. Number of applicants under TU Entrance Examinations

2.1.8 Were any programmes discontinued/ staggered by the university in the last four years? If yes, please specify the reasons.

The following programmes were discontinued/ renamed:

1. 2-Yr. M. Tech. in Computational Seismology, discontinued w.e.f. 2011.
(under DST project/Discontinued due to lack of market demand)
2. 2-Yr. M.Sc. in Applied Chemistry, restructured and renamed as M.Sc. in Chemistry. (Increased acceptability of the new nomenclature)
3. 3 Yr. M. Tech. in Food Processing Technology, discontinued w.e.f 2011 due to AICTE norms (replaced by a 4 yr. Integrated M. Tech. and a B. Tech. in Food Engineering and Technology for better employability)

2.2 Catering to Student Diversity

2.2.1 Does the university organize orientation / induction programme for freshers? If yes, give details such as the duration, issues covered, experts involved and mechanism for using the feedback in subsequent years.

At the beginning of each academic year, the university holds a variety of events to orient and welcome new students. This includes orientation as well as *ice breaking* sessions in each department on the very first week. Common orientation session is organized on the first or second week of commencement of classes by the Dean of Student Welfare and addressed by the various functionaries of the university including the Vice Chancellor and senior faculty members on the start of the session. The orientation programmes allow students to have a fair idea about their programme details, evaluation methods, academic as well as co-curricular facilities, prohibitory orders on ragging, rules and regulations as well as their own responsibilities. The university also distributes a compact booklet containing information on each department and offered programmes.

Tezpur University (Central) Orientation Programme for new students

Year	Date & Duration	Speakers/experts	Issues covered
2015	3-4 August 9:15 -12:50	Vice Chancellor Pro Vice Chancellor	1. Pursuit of academic excellence
2014	4-5 August 9:10 to 13:00	Dean, Student Welfare	2. Virtual tour of campus 3. Evaluation system
2013	31 July 18:00 to 20:00	Director, Placement (CID) Senior Faculty members (No external expert)	4. Students' activities and support systems 5. Obtaining educational loans 6. Students' expectations

Separate orientation programmes are organized by the university library for initiating the students in using the library resources.

2.2.2 Does the university have a mechanism through which the “differential requirements of the student population” are analysed after admission and before the commencement of classes? If so, how are the key issues identified and addressed?

No formal mechanism as of now.

2.2.3 Does the university offer bridge / remedial / add-on courses? If yes, how are they structured into the time table? Give details of the courses offered, department-wise/faculty-wise?

There are provisions for remedial courses and pre-requisite courses specific for slow learners. Students are provided additional counselling / classroom teaching if some students are found to be deficient. These are in general provided without disturbing regular classes.

Tezpur University has a few add-on courses which are conducted after the office hours and during holidays. The recommended add-on/ capacity building courses along with are given below:

Yoga for Positive Health, Violin (proposed), Language courses in German and French (Department of EFL).

2.2.4 Has the university conducted any study on the academic growth of students from disadvantaged sections of society, economically disadvantaged, physically handicapped, slow learners, etc.? If yes, what are the main findings?

No formal study has been carried out. These issues are discussed in various forums and also taken up by the Equal Opportunity Cell (a cell of the Center for Inclusive Development, CID).

Following measures have been implemented:

- Waiver of tuition fee, book bank facility
- Assistance for bank loan, purchase of computers etc.
- Bicycles to needy girl students
- Extended time for completion of courses
- Proactive role of faculty mentors in development of students
- Medical Insurance facility for all students for cashless treatment at Hospitals/Nursing Homes at Tezpur and reimbursement of treatment cost at all India level.

All the students of a department are divided into several groups and for each group there is a faculty advisor. The advisor informs the university authority for financial and other help to the economically disadvantaged students, if required. Moreover, for slow learners there are provisions for extended time to complete a programme. They are also encouraged to meet the concerned faculty and clear their doubts personally. Mixed groups (in terms of advanced and laggards, or cross-functional) are formed in some departments to ensure that students learn from each other. Tutorials also benefit the slow learners.

2.2.5 How does the university identify and respond to the learning needs of advanced learners?

All the students of a department are divided into several groups and for each group there is a faculty advisor. The faculty advisor for each group identifies the advanced learners by interacting with them and by providing assignments. Strategically the assignments are tuned according to their capability level. Advanced learners are to be given more complex problems or taught to do more rigorous analysis. Moreover, they are encouraged to act as mentors for the slow learners. They may also register for more credits, subject to time-table and permissible limit.

2.3 Teaching-Learning Process**2.3.1 How does the university plan and organise the teaching, learning and evaluation schedules (academic calendar, teaching plan, evaluation blue print, etc.)?**

Academic Calendar is prepared by a committee constituted by the University which is placed before the meeting of the Academic Council for approval. The same is released well before the start of each year which is rigidly followed. The teaching and evaluation plans are prepared by faculty members and distributed/uploaded after approval in the DAC of the respective Departments. The schedule of evaluation (span of dates for holding each test) in each semester is provided under the Academic regulations of the university. The evaluation schedule is evenly spaced over the entire semester to cover all the components including the major as well as the minor tests.

The general guidelines for the evaluation process are provided in the Academic Regulations of the university. The specific details are carried out by the individual faculty members with approval from the Departmental Advisory Committees.

2.3.2 Does the university provide course outlines and course schedules prior to the commencement of the academic session? If yes, how is the effectiveness of the process ensured?

The course outlines and course schedules are provided in the prospectus itself so that the students can acquaint themselves of the programme before their admission. Besides, on the very first day of the semester the students are required to register the courses for which each department assigns faculty members as course advisor to intimate/advise the students for course registration.

The course instructors, with the approval of DAC concerned, prepare the course outlines and schedules for the individual paper (course) before the commencement of each academic session. These are distributed/ circulated to the students/ uploaded in the LAN/ Intranet for easy access.

2.3.3 Does the university face any challenges in completing the curriculum within the stipulated time frame and calendar? If yes, elaborate on the challenges encountered and the institutional measures to overcome these.

The course plans are prepared keeping in consideration of the content coverage and schedule of the academic calendar which is prepared with minute details. The university has therefore not encountered any challenge of curriculum completion. A course instructor takes extra classes, if required, at any stage of the semester. The university being a residential campus, classes, seminars, lectures, tutorials or tests after office hours or during holidays are quite common.

Further, the university is fortunate in so far as its academic schedule not getting affected by any external reasons or political/student disturbance, which are otherwise common to the region.

2.3.4 How is learning made student-centric? Give a list of participatory learning activities adopted by the faculty that contributes to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.

Tezpur University uses the following methods:

- A detailed continuous and comprehensive evaluation method is followed as a part of well-prepared course plan for each course. Test dates and syllabi for each component are well laid out.
- Assignments (*group or individual*) for problem solving, interactive class room environment, black board presentation, viva-voce.
- Regular quizzes, seminar presentations, library/field work, visits to industrial or corporate concerns are found to be very useful.
- Care is taken to attend to differential learning ability of students, in terms of teaching and evaluation

2.3.5 What is the university's policy on inviting experts / people of eminence to deliver lectures and/or organize seminars for students?

Subject experts, visiting faculties and academicians are regularly invited for delivering lectures within and beyond the syllabus. Academicians including the experts invited for conducting Ph.D. viva-voce or project viva-voce etc. are usually requested to deliver lectures in the respective departments where all the students are invited. Seminars and workshops are frequently organized where students are actively involved. Heads of the departments are empowered to invite such speakers at their own.

At the University level eminent personalities and experts in various fields are regularly invited to deliver lectures for the benefit of students. The university regularly organizes a few annual lectures, namely the *Foundation Day Lecture*, *Srimanta Sankardeva Lecture* and the *Horizon Lecture series*.

Eminent personalities are also invited in addition to the above lectures and also

as a part of various events such as TechXetra, organized by the university.
In addition reputed retired professor of other universities are invited as Professor of Eminence for various departments for the benefit of the students.

^aA List of some lectures organized by the university
(^aexcludes lectures organized by departments)

Sl. No.	Name of expert	Events	Year
1.	Prof. J. N. Goswami Director, PRL Prof. D. N. Buragohain Former Director, IIT-G Mr. Uttam Kumar Mishra Senior Manager (R & D), Maruti Suzuki India Ltd. Priyanku Sharma Branding and Communication Head, Group Avenues Dr. Chandan Das & Dr. V. V. Goud IIT-G	TechXetra	2015
2.	Prof. Milan K. Sanyal Saha Institute of Nuclear Physics	Horizon Lecture	2015
3.	Prof. R. Caltow, FRS University College, London Prof. A. K. Raychaudhuri, S. N. Bose Centre for Basic Sciences	Foundation Day Lectures	2015
4.	Mr A. S. Panneerselvan Editor of The Hindu	National Press Day	2015
5.	Dr. Stephane Genin Laboratory of Plant-Microbe Interactions (LIPM), France. Professor Chandra Shakher Instrument Design & Development Centre, IIT, Delhi.	InSCIgnis	2015
6.	Prof. V. Nagaraja IISc., Bangalore Prof. Gautum Biswas Director, IIT-G Prof. Sher Ali NII, New Delhi	Foundation Day Lectures	2014
7.	Prof. Dilip Kumar Barua Burdwan University	Sankardeva Lecture	2014
8.	Alok Mukherji DRDO, Agni Award winner IV Rao, Engineering Head, Maruti Suzuki India Swati Sammadar & Neil Safeer Ghaznavi Emmy Award winner	TechXetra	2014
9.	Prof. Animesh Chakravorty Tata Chemicals distinguished Emeritus Professor	InSCIgnis	2014

10.	Prof. Andre Beteille Eminent Social Scientist & National Research Professor	Horizon Lecture	2013
11.	Prof. K. D. Krori Noted Academician	Foundation Day Lectures	2013
12.	Prof. Birendranath Datta Noted academician, a researcher of folklore, singer and lyricists	Sankardeva Lecture	2013
13.	Dr. Rolf Landua (Webinar) CERN-Physicist Juergen Reinhard EMPA, Technology and Society Unit, Switzerland Dr. K Viswanathan Former Deputy Director, ISRO Team Indus A Delhi based aerospace team	TechXetra	2013
14.	Prof. J. V. Narlikar Eminent Astrophysicist Former Director, IUUCA	Special Talk	2013
15.	Prof. Mrinal Miri Noted Philosopher and Academician	Sankardeva Lecture	2012
16.	Mr. Jamshed V. Rajan CPO, Nimbuzz India Mr. Balasaheb Darade Ex-NASA Engineer Vijay Anand Menon Economic Times Young Achiever Mr. Kanak Gogoi Innovator	TechXetra	2012
17.	Prof. Asis Dutta Distinguished Emeritus Scientist (NIPGR) former VC, JNU	Foundation Day Lectures	2012
18.	Dr. Kulendu Pathak Former VC, Dibrugarh University	InSCIgnis	2012
19.	Prof. Narasimha Acharya Eminent Sanskritist, University of Madras	Sankardeva Lecture	2011

2.3.6 Does the university formally encourage blended learning by using e-learning resources?

Yes.

Tezpur University has recognized the importance of utilization of e-resources in its teaching and research. A dedicated server is installed for streaming the resources available through the National Programme on Technology Enhanced Learning (NPTEL). Live and recorded streaming are occasionally utilized in the learning process by various departments, particularly by the School of Engineering.

2.3.7 What are the technologies and facilities such as virtual laboratories, e-learning, open educational resources and mobile education used by the faculty for effective teaching?

- Web-based course material
- NPTEL laboratory
- Smart Classroom
- Virtual Class room
- Webinar
- Online discussion forum

The level and extent of usage, however, vary from department to department.

2.3.8 Is there any designated group among the faculty to monitor the trends and issues regarding developments in Open Source Community and integrate its benefits in the university's educational processes?

No designated group.

2.3.9 What steps has the university taken to orient traditional classrooms into 24x7 learning places?

The university has duly recognized the importance of integration of the 24x7 learning process in its campus. It has made provisions for:

- Class rooms, laboratories with ICT facilities, internet connectivity
- Internet connectivity to hostels through Wi-Fi
- Online access to journals and e-books
- Access to education streams on NPTEL etc. through dedicated server
- Video conferencing facility in selected locations
- Laboratories workable round the clock
- Long opening hours of the Central Library

2.3.10 Is there a provision for the services of counsellors / mentors/ advisors for each class or group of students for academic, personal and psycho-social guidance? If yes, give details of the process and the number of students who have benefitted.

Each department assigns a faculty mentor to each new student. The list is announced within one week of the commencement of classes of a new batch of students. The faculty mentor provides counseling and necessary help to a student in her/his academic matters, personal as well as socio-psychological problems throughout the period of completion of the programme.

There are other institutional mechanisms such as the Office of the Dean of Students' Welfare, Grievances Redressal Committee, SC/ST Cell, Departmental as well as University Committee for Rederessal of Sexual Harassment issues to deal with various problems of students.

The university also engages a psychiatrist on a regular basis to attend to students along with staff to deal with stress related problems.

2.3.11 Were any innovative teaching approaches/methods/practices adopted/put to use by the faculty during the last four years? If yes, did they improve learning? What were the methods used to evaluate the impact of such practices? What are the efforts made by the institution in giving the faculty due recognition for innovation in teaching?

Approaches have continuously evolved for improvement in teaching methodology, though these are usually department or programme specific.

2.3.12 How does the university create a culture of instilling and nurturing creativity and scientific temper among the learners?

Following are some the approaches:

Encouragement for adopting projects towards live problems (SoE)

- Organizing lectures on developing scientific temper, ethics in research, nurturing creativity, project writing, paper writing etc. by the IQAC.
- Celebration of *National Science Day (InSCIgnis)*, *Pi Day*, *World DNA Day*, *World Intellectual Property Day*, *World Heritage Day* etc. with active involvement of students
- Seminars, workshops, quizzes, Wall Magazine competition, Photography competition
- Multi-activity Technological events like the annual event TechXetra where various activities such as competitions, talks, webinar, science and technology show are organized by/for the students.
- Tezpur University since 2013 organizes a lecture series on frontier knowledge, imagination and initiatives based on the works of Nobel Laureates of that year during the Autumn Semester. Lectures are delivered by faculty members while students are encouraged to participate actively in the same. Cash awards are given to the best question (against each topic) and best write ups on the lectures.
- Innovative project prize money and EEE and SAE Chapter for participation (introduced by some department/s under the School of Engineering)
- Encourage undergraduate research under supervision of teachers

Further, the *Centre for Innovation, Incubation and Entrepreneurship (CIIE)* encourages creativity of students and encourage innovative ideas to be pursued.

2.3.13 Does the university consider student projects mandatory in the learning programme? If yes, for how many programmes have they been (percentage of total) made mandatory?

- * Number of projects executed within the university
- * Names of external institutions associated with the university for

student project work*** Role of faculty in facilitating such projects**

For all programme (2 yr. and above), students' project work is mandatory (i.e. 100%) It is carried out in a particular semester or two semesters, usually in the final year. Most of the projects are carried in-house, but in some of the technical programmes, students are also deputed to other institutes, corporate concerns or industrial locations based on available work environment, facilities and expertise. A faculty supervisor (internal or external as the case may be) is appointed for each student undertaking project work. The evaluation of projects is done in-house or through external experts from reputed institutes or industry experts (School of Engineering) as well as internal experts.

2.3.14 Does the university have a well qualified pool of human resource to meet the requirements of the curriculum? If there is a shortfall, how is it supplemented?

The university has a well-qualified pool of human resource with overall teacher student ratio standing approximately at 1: 13. In case of a necessity, visiting faculty from reputed institutes, laboratories, Industries and universities are invited to complete the curriculum effectively. Ad-hoc faculty and guest faculty are also engaged to meet the specific and time bound requirement, if necessary.

2.3.15 How are the faculty enabled to prepare computer-aided teaching/ learning materials? What are the facilities available in the university for such efforts?

- Computers with Network connectivity to each faculty
- Computers to Research Scholars on individual or sharing basis
- Subscription of important journals across all streams under UGC INFLIBNET/INDEST-AICTE consortium
- Seminars, demonstrations are organized for use of computer aided teaching and learning tools and software
- Provision of Language laboratory (Department of EFL)
- Wireless connectivity to the residential quarters and hostels, enabling connectivity without break
- A well-equipped Computer Center with two clusters at different locations for use of students within easy reach
- Software repository and trained personnel in the Computer Center for support to faculty members

2.3.16 Does the university have a mechanism for the evaluation of teachers by the students / alumni? If yes, how is the evaluation feedback used to improve the quality of the teaching-learning process?

Each department collects feedback on each course from the students at the end of each semester and after course completion. Students are encouraged to give

their feedback to indicate the strength and weaknesses of a particular course and course instructor. The feedback is analyzed by the department. Follow up action is taken up whenever it is found necessary. Detailed analysis and action taken report may be requisitioned by the Vice Chancellor for review.

It has helped the process of syllabus revision in a positive way as the feedback on courses are taken up and suggestions are adopted in the syllabus review process on merit. The feedback also allows the concerned teacher to identify positive as well as negative aspects of his/her teaching and effectively helps to improve the teaching-learning process.

2.4 Teacher Quality

2.4.1 How does the university plan and manage its human resources to meet the changing requirements of the curriculum?

- University plans requirements of human resources through departmental assessment considering workload and course specifications.
- University IQAC on regular basis organizes brain-storming sessions for faculty members on self-assessment of teaching and evaluation methods.
- Faculty members are actively engaged in research activities and research projects and participate in as well as organizes conferences, symposia, refresher and orientation courses.
- Inter-departmental sharing of human and other resources plays a strong role in the teaching of the inter-disciplinary programmes. It may be noted that Tezpur University has no separate supporting department for catering to the technical undergraduate programmes.

2.4.2 Furnish details of the faculty (data as on 31.10.2015)

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.							
Ph. D.	49	11	43	04	58	19	184
M.Phil.	0	0	0	0	04	08	12
PG					23	09	32
Temporary teachers							
Ph.D.	0	0	0	0	07	0	07
M.Phil.	0	0	0	0	0	0	0
PG	0	0	0	0	13	04	17
Part-time teachers							
Ph.D.	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0
PG	0	0	0	0	02	0	02
Total							254

**2.4.3 Does the university encourage diversity in its faculty recruitment?
Provide the following details (department / school-wise).**

Yes. Details are as follows.

Department/ School	% of faculty from the same university	% of faculty from other universities within the state	% of faculty from universities outside the state	% of faculty who are (graduates) from other countries
School of Sciences				
Chemical Sciences	Nil	72	28	Nil
Environmental Sciences	9.09	81.81	9.09	Nil
Mathematical Sciences	5.5	55.6	38.9	Nil
Molecular Biology & Biotechnology	11.11	22.22	66.66	Nil
Physics	10	40	50	Nil
School of Engineering				
Computer Science & Engineering	38	23.8	38	4
Civil Engineering	Nil	91	9	Nil
Energy	37.5	25	25	12.5
Food Engineering & Technology	Nil	18.18	81.81	Nil
Mechanical Engineering	15.4	38.4	30.8	15.4
Electronics & Communication Engg.	57.9	10.5	31.6	Nil
School of Management Sciences				
Business Administration	30.77	61.54	7.7	Nil
Commerce	NA	NA	NA	NA
School of Humanities and Social Sciences				
Cultural Studies	30	60	10	Nil

English & Foreign Languages	14	23	63	Nil
Sociology	Nil	10	90	Nil
Mass Communication & Journalism	20	25	55	Nil
Hindi	Nil	25	75	Nil
Social Work	Nil	Nil	100	Nil
Education	Nil	Nil	100	Nil

2.4.4 How does the university ensure that qualified faculty is appointed for new programmes / emerging areas of study (Bio-technology, Bio-informatics, Material Science, Nanotechnology, Comparative Media Studies, Diaspora Studies, Forensic Computing, Educational Leadership, etc.)? How many faculty members were appointed to teach new programmes during the last four years?

Tezpur University adopts the Rolling Advertisement system for inviting qualified faculty members through regional and national newspapers. The applications are screened by the standing committee for each department on the basis of which the university shortlists the well-qualified eligible (as per UGC norms) candidates. The candidates are then interviewed as per UGC regulations and a panel of recommended candidates is prepared.

Due to its progressive recruitment policy, Tezpur University has been able to recruit a good number of faculty members for its programmes in some of the emerging areas, during last four years as detailed below.

Sl. No.	Department/Cell	Name of the Programmes	No. of New faculty
1	Electronics & Communication Engg.	B. Tech in Electrical Engg.	03 (Contractual)
2	Energy	B. Voc. in Renewable Energy Management	01 (Contractual)
3	Food Engineering & Technology	B. Voc. in Food Processing	01 (Contractual)
4	Commerce	Integrated M.Com	02 (including 1 on Contract)
5	Social Work	M.A in Social Work	04 (Contractual)
6	Hindi	M.A in Hindi	02
7	English & Foreign Languages	M. A. in Linguistics & Language Technology	03
		M. A. in Linguistics & Endangered Languages	01
8	Centre for Women's Studies	P.G. Diploma in Women's Studies	02
9	Education (New Dept)	M. A. in Education	(06)

2.4.5 How many Emeritus / Adjunct Faculty / Visiting Professors are on the rolls of the university?

Emeritus Professor:	nil
Chair Professor:	04 (Dept. of Physics, Centre for Assamese Studies, IPR Cell & Chemical Sciences)
Professor of Eminence:	02 (Dept. of Sociology & Chemical Sciences)
Adjunct faculty:	nil (1 being appointed SP 2016, Dept. of Energy)
Visiting Professor:	engaged form time to time
Visiting Director:	01 (CIIE)

2.4.6 What policies/systems are in place to academically recharge and rejuvenate teachers (e.g. providing research grants, study leave, nomination to national/international conferences/seminars, in-service training, organizing national/international conferences etc.)?

University extends ample support to faculty members for enhancement of their academic pursuits in all possible terms.

Start-up grants were provided to new faculty members to initiate their research project, if they are not being offered the same by UGC. *(Please refer to 3.1.7 of this report)*

University also provides seed money and other infrastructural support for organizing conferences/seminars, workshops etc. University nominates teachers to various national international events. In house training/ induction programmes with resource persons from NITTR or other institutions are also organized.

2.4.7 How many faculty received awards / recognitions for excellence in teaching at the state, national and international level during the last four years?

1. Dr. Manish Kumar, **Young Scientist Award (DST)** (2012)
2. Prof. S. K. Duloi, **National Technology Innovation Award** (2012)
3. Prof. P. P. Sahu, **INSA Teacher Award** (2013)
4. Prof. N. Karak, **3rd National Award for Technology Innovation for Research** (2013)
5. Dr. Suman Dasgupta, **Innovative Young Biotechnologist Award (IYBA)**, (2014)

2.4.8 How many faculty underwent staff development programmes during the last four years (add any other programme if necessary)?

Academic Staff Development Programmes	Number of faculty
Refresher courses	44
Orientation programmes	60

Academic Staff Development Programmes	Number of faculty
Staff training conducted by the university	71
Staff training conducted by other institutions	23
Summer / Winter schools, workshops, etc.	118
Others	32

Details of Academic Staff Development Programmes attended by the faculty members are included in the respective departmental reports (Item 27)

2.4.9 What percentage of the faculty have

Event	%
* been invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies?	50
* participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies?	73
* presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies?	65
* teaching experience in other universities / national institutions and other institutions?	23
* industrial engagement?	8
* international experience in teaching?	4

(Variable figure, details are provided in the departmental reports, Items 25, 26, 27)

2.4.10 How often does the university organize academic development programmes (e.g.: curriculum development, teaching-learning methods, examination reforms, content / knowledge management, etc.) for its faculty aimed at enriching the teaching-learning process?

At the university level, usually one or two seminars are organised by the university IQAC for the faculty members every year in which experts are invited to take part.

2015:

Theme: *Professional Qualities in Education* (IQAC)

Date: 20-21 April 2015

Venue: Council Hall, Tezpur University.

2014:

Theme: *Brainstorming on Continuous and Comprehensive Evaluation* (CoE)

Date: 16th April, 2014

Theme: (1-day) *Workshop on Credit System* (IQAC)

Date: 19th June, 2014

2013:

Theme: 1-day *Workshop on soft skills* (by IQAC)

Date: 15th March, 2013

Theme: (1-day) *Workshop on Research Issues* (by IQAC)

Date: 19th March, 2013

2012:

Theme: (1-day) **ERP Overview and Oracle Applications* (by IQAC with TCS)

Date: 13th June, 2012 (*Enterprise Resource Planning)

2011:

Theme: *Quality in higher Education* (by IQAC)

Date: 26-27 December, 2011.

These are in addition to the seminars, workshops organized by the university with eminent academicians as resource persons are invited to participate on diverse topics aimed at enriching the faculty at the teaching-learning process.

2.4.11 Does the university have a mechanism to encourage

*** Mobility of faculty between universities for teaching?**

*** Faculty exchange programmes with national and international bodies?**

If yes, how have these schemes helped in enriching the quality of the faculty?

University encourages faculty members to visit different nearby institutions as guest faculty for short duration. Faculty exchange/ collaboration is being contemplated with a few well known institutions in specific areas.

The details of visit of faculty members from and to Tezpur University to various other institutions are provided in the departmental reports.

Please refer to Vol.-IIA, Item No. 25 and also 3.7.2. (Faculty Exchange and Development) of this report.

No formal faculty exchange programme with national and international bodies is in place at the moment.

Tezpur University is pursuing the *Global Initiative for Academic Network* (GIAN) to augment its academic resources under Government of India Initiative. Mobility of teachers from/to other institutions has helped our teachers to get exposure for newer experiences/areas. Four of the proposed courses have already been approved for 2016. 3 of them have already been advertised/ implemented.

2.5 Evaluation Process and Reforms

2.5.1 How does the university ensure that all the stakeholders are aware of the evaluation processes that are in place?

The outline of evaluation process is published in the University prospectus and students are provided with detailed explanation during the orientation programmes organized for the new students. Information on our evaluation process is also circulated to employers and other stakeholders through the placement brochures.

The details are available as a part of university Academic Regulations uploaded in the university website with regular updating.

Further, individual course instructors take care to explain the process and upload the lesson and evaluation plans in the university website.

2.5.2 What are the important examination reforms initiated by the university and to what extent have they been implemented in the university departments and affiliated colleges? Cite a few examples which have positively impacted the examination management system.

The semester system and credit system with grading have been followed by the university since its inception. However, the examination and evaluation system of Tezpur University has undergone substantial reforms over the last few years. The university follows a comprehensive continuous evaluation system for all of its academic programmes. The evaluation process is evenly spaced over the entire semester.

Following are the salient aspects of the comprehensive and continuous evaluation system:

1. Considerable emphasis is placed on the assessment of continuous learning of students through various forms of evaluations. The evaluation is carried out over the entire semester, comprising of six (6) tests in all, including the Mid Semester Test (major-I) and End Semester test (major-II).
2. The semester end examination (major-II) is conducted centrally and it carries a maximum of 30% weightage. The mid semester test has a 20% weightage.
3. One of non-major tests mandatorily includes assignments, case studies, field work, seminars etc. in addition to written tests.
4. Project work is evaluated by a committee of internal examiners and/or external examiners.
5. Transparency is ensured through display of tentative marks/grades to the students before final results. Marks are to be displayed within a stipulated time of holding a test and answer scripts are shown to the students.
6. Students have the right to appeal to the Students Appeal Committee in case of any grievance after declaration of result.
7. The rationale for the evaluation system, the detailed modality, the monitoring mechanism is well laid out in the academic regulations of the university.

2.5.3 What is the average time taken by the University for Declaration of examination results? In case of delay, what measures have been taken to address them? Indicate the mode / media adopted by the University for the Publication of examination results (e.g. website, SMS, email, etc.).

The average time taken by the University for Declaration of the examination results is about 20 days of completion of examinations. So far, all results have been declared within the specified dates and there is no record of delay in

declaration of the results.

The results and grade cards are uploaded in the university website.

2.5.4 How does the university ensure transparency in the evaluation process? What are the rigorous features introduced by the university to ensure confidentiality?

Marks secured by students are displayed in the respective departments within 5 days of the conduct of an examination. Answer scripts are shown to the students after evaluation. If any student is not satisfied with the grade, he/she can appeal to the Students Appeal Committee of the Department within a week after declaration of the result.

Semester end examinations are conducted by the Cluster for Examinations for a School or a group of Schools chaired by the Dean of the concerned School with strict norms of confidentiality. Sufficient faculty members are engaged for ensuring fair conduct of examinations.

2.5.5 Does the university have an integrated examination platform for the following processes?

- * **Pre-examination processes – Time table generation, OMR, student list generation, invigilators, squads, attendance sheet, online payment gateway, etc.**

Time tables, student list and attendance sheet (for term end examinations) are prepared by the Office of the Controller of Examinations with input from the departments with the help of the online examination management system. The examinations are conducted centrally in four clusters involving Deans of the Schools as Chairpersons.

No provision of OMR is in place for the university examinations.

No separate fees for the examinations are levied.

- * **Examination process – Examination material management, logistics, etc.**

For the semester end examinations, these are maintained by the Controller of Examinations on the advice of the Chairman of the Cluster of Examinations.

The departments (in some cases schools) are responsible for the management of the other tests.

- * **Post-examination process – Attendance capture, OMR-based exam result, auto processing, generic result processing, certification, etc.**

Attendance is recorded by the Examination Clusters for the semester end examination and by the departments for all other examinations.

Results are submitted online (no OMR based examination) by the departments. The same is processed by the office of the Controller of Examinations through an automated process based on a software developed by the university. The

office of the CoE is also responsible for certification and issue of other documents.

2.5.6 Has the university introduced any reforms in its Ph.D. evaluation process?

The University has revised its Ph.D. evaluation process following the UGC (minimum standard and procedure for award of M. Phil/ Ph. D degree) Regulation 2009 for evaluation of PhD thesis. The total credits of the course to be completed by the Ph.D. students as a part of course work have been increased from minimum 6 to 16 and a compulsory course on research methodology has been introduced for all departments.

The uploading of thesis under *Shodhganga* has been made mandatory along with the adoption of various measures (software checks) on prevention of plagiarism (2015).

2.5.7 Has the university created any provision for including the name of the college in the degree certificate?

Not applicable.

2.5.8 What is the mechanism for redressal of grievances with reference to examinations?

The marks secured by the students are displayed on the notice Boards of the respective Departments immediately after the examinations (within 120 hours) and answer scripts are made available to students.

Further, prior to submission of results/grades after completion of the evaluation process of a particular semester, the same is displayed in the departmental notice boards so that a student may consult the concerned teacher(s) in case of any doubts or confusion/discrepancies.

Each department has a Students Appeal Committee constituted by the Vice Chancellor with three faculty members of the department. In case a student is not satisfied with the grade/result assigned to him/her in a course, he/she may approach the Students Appeal Committee with his/her grievance within one week of declaration of results with his/her grievance. The committee looks into all the aspects of evaluation and take a final decision on the grade to be awarded.

2.5.9 What efforts have been made by the university to streamline the operations at the Office of the Controller of Examinations? Mention any significant efforts which have improved the process and functioning of the examination division/section.

The operations at the Office of the Controller of Examinations have been significantly streamlined with the introduction of automated systems. The result and grade card generation is automated through the deployment of software designed in-house by the University. Grades are submitted online by respective

departments, which are then processed by the Office of the Controller of Examinations with the help of the software.

In view of the use of online submission and automated processing

- Tezpur University has been able to stick to its timely declaration of results despite gradual increase in the number of students and programmes
- The time required for issue of transcripts, grade cards, and provisional certificates has been reduced considerably, errors minimized

With the implementation of a full online submission of application for admission, the data of admitted students is integrated to the examinations software for further use, reducing workload to a great extent on this count.

2.6. Student Performance and Learning Outcomes

2.6.1 Has the university articulated its graduate attributes? If so, how does it facilitate and monitor its implementation and outcome?

The attributes expected of the university graduates are enshrined in the mission statement of the university. The graduates of the university are expected to play a leadership role in the society in various fields of activity with a clear vision and uncompromised dedication to the society and nation.

- Scholarship
Facilitated through teaching-learning, curriculum updating, implementation of continuous evaluation, talks of experts, workshops, project work, well equipped laboratories and advanced instruments, availability and utilisation of e-resources
- Employability
Developing good domain expertise, project execution and presentation, real situation problem solving, internship, value- added courses, window for implementation of innovative ideas
- Leadership
Opportunity to organize, manage and participate in academic, cultural, literary and sports programmes, grooming programmes, talks of eminent leaders in various walks of life
- Socially responsible and sensitive
Participation in awareness programmes/ talks/ workshops, participation in outreach programmes, value added courses, participation in NSS, NCC activities, participation in socially useful activities: plantation, flood-relief, blood-donation, cleanliness etc.

The outcome can be seen in terms of increased research output, paper presentation at various forums, success at national as well as regional level competitions and examinations, placements, participation and execution of socially responsible assignments, vibrant student community in a hassle-free campus and so on.

2.6.2 Does the university have clearly stated learning outcomes for its academic programmes/departments? If yes, give details on how the

students and staff are made aware of these?

The anticipated outcomes of its academic programmes as a whole are enshrined in the Vision and Mission statements of the departments and of the university.

- These are uploaded in the university website. These are also reaffirmed during the orientation programmes, faculty-student meetings as well as in the regular meetings of the Vice Chancellor and other senior functionaries of the university with students, scholars and staff.
- Departments/Centres of the university spell out their mission and vision statements as well as the affirmed objectives and goals.

2.6.3 How are the university's teaching, learning and assessment strategies structured to facilitate the achievement of the intended learning outcomes?

The intended learning outcomes are enshrined in the programme and course objectives. These provide the guiding force in devising the teaching, learning and assessment strategies.

2.6.4 How does the university collect and analyse data on student learning outcomes and use it to overcome the barriers to learning?

Students' feedback on placement and post-placement experience which reflect the students learning outcomes are analyzed and action plan is prepared to overcome the barriers. The Heads and faculty members of the Departments keep track of the teaching, learning and assessment strategies and suggest necessary measures required to remove any barriers in the process.

2.6.5 What are the new technologies deployed by the university in enhancing student learning and evaluation and how does it seek to meet fresh/ future challenges?

Webinars, online study and lecture materials, webcast services, smart class rooms are deployed to enhance the students' learning experience.

For evaluation - use of computers by individual faculty members for preparing students' grades, computerized examination (result preparation) system in the University.

For meeting fresh/future challenges, the university has stressed on

1. Students' participation in seminars covering new developments in their areas of studies
2. Regular revision of curriculum and syllabi, provision for industry feedback.
3. Updating teaching-learning infrastructure, provision for virtual classrooms, video conferencing.
4. Faculty engagement in research, research collaboration, exchange of faculty and students with other organizations/ institutes.

5. Use of resources available through the National Programme on Technology Enhanced Learning (NPTEL), particularly for engineering streams. Dedicated server has been engaged.
6. Augmenting Library e-resources and utilization.
7. Skill development, innovation and entrepreneurship development, through training and window of opportunity (The Centre for Innovation, Incubation and Entrepreneurship has been created).



Criterion III
**RESEARCH, CONSULTANCY AND
EXTENSION**

CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION**3.1 Promotion of Research****3.1.1 Does the university have a Research Committee to monitor and address issues related to research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.**

Tezpur University has a Research Committee (RC) which monitors the research activities of the university.

The Research Committee comprises of:

1. The Vice Chancellor, Chairperson
2. The Pro Vice Chancellor
3. All Deans of Schools and Dean, R & D
4. All Heads of teaching Departments
5. 8 Professors nominated by the Vice-Chancellor

All Professors (not included above) of the university are special invitees to all meetings of the Research Committee.

Few recommendations that have been implemented are as follows:

- I. Research Committee has framed rules for recognition of faculty as Co-Supervisor/ Associate Supervisor.
- II. Research Committee has framed parameters in lieu of citations for recognition as Research Supervisor in the field of Humanities and Social Sciences.
- III. Installation of Anti-plagiarism software
- IV. Development of a Ph.D. students information system
- V. Inclusion of all Professors in the RC meeting as special invitees

3.1.2 What is the policy of the university to promote research in its affiliated / constituent colleges?

Not applicable

3.1.3 What are the proactive mechanisms adopted by the university to facilitate the smooth implementation of research schemes/projects?

- * advancing funds for sanctioned projects
- * providing seed money
- * simplification of procedures related to sanctions / purchases to be made by the investigators
- * autonomy to the principal investigator/coordinator for utilizing overhead charges
- * timely release of grants
- * timely auditing
- * submission of utilization certificate to the funding authorities

The Office of the Dean, Research and Development (R&D) is entrusted with

substantial autonomy to facilitate the smooth implementation of research projects. Following are some mechanisms implemented under initiative of the office of the Dean, R & D to facilitate smooth running of research projects:

- Dean, R & D is empowered to sanction fund for various project activities on request of PIs.
- Detailed guidelines for implementations of sponsored Research Projects are made available in the university website.
- Computerization of the project account by the Finance Section which includes online tracking facility for the PIs.
- PIs are allowed to draw advance for their projects after due approval.
- The amount received on account of overhead charges is administered by the University as follows:
 - a. 25% of the fund goes to the University Corpus Fund.
 - b. 25% of the fund goes to the respective department for research related activities
 - c. The remaining 50% is utilized by the PI for his/her professional development i.e. partial support for conference, membership of learned societies including enhancement of existing research facilities with proper justification about the needs and with the assurance that all financial regulations are observed.
- No prior sanction/approval is necessary for the purchase of chemicals/ consumables/ books up to Rupees Twenty five thousand (₹ 25,000/-) provided sanction from the Funding agency was received for such purposes.
- On urgent requirement, the PI can make spot purchase of necessary items to the tune of ₹ 20,000/- observing the financial rules.
- For buying books from the sanctioned project grant a PI can place order for books with a vendor directly, in consultation with the Librarian about this and under intimation to Dean, R&D.
- PI can put up tender notice on the University website as soon as the sanction letter is received for various research laboratory items.

3.1.4 How is interdisciplinary research promoted?

- * **between/among different departments /schools of the university and**
- * **collaboration with national/international institutes / industries.**

The University has the culture of interdisciplinary programmes and research since day one. Interdisciplinary research projects are prepared in collaboration by the faculty members of allied subjects which make the conduct of research smooth by resource sharing. University encourages its teachers for inter-institutional research for better sharing of expertise and resources.

The Vice-Chancellor in his interactive meeting with the Faculty Members at the beginning of each semester stresses on formulating research projects that are interdisciplinary in nature.

The University has a number of interdisciplinary research projects

- (i) 14 interdepartmental research projects

(Details in Vol. – IIB/Page 34)

- (ii) 45 research projects with national institutions, 11 research projects with international institutes (*Details in Section 3.2.6*)

The Dean, Research & Development assesses the research output of the Departments every year as per requirement of IQAC. This is carried out through school level presentation by the departments, followed by submission of a report every year. The Dean, Research & Development emphasizes on interdisciplinary research during such meetings

Collaboration in research with National/International institutes is always encouraged by the University. A good number of collaborative research projects are in place as detailed in departmental reports.

University has a policy for collaborative research at national & international level through MoU with such institutions. Through these MoUs, terms and conditions on collaborative research are carried out with resource sharing, exchange of scholars and sharing research output for mutual benefits.

3.1.5 Give details of workshops/ training programmes/ sensitization programmes conducted by the university to promote a research culture on campus.

Tezpur University has been in the forefront in conducting workshops and training programmes in almost all branches of study. These are organized at the departmental level as well as at the university level. Funding and other details of the departmental events please refer to the departmental reports.

A. University level workshops/seminars for research sensitization:

1. Lecture series on Nobel Prize: 2015 (Venue: KBR Auditorium)

(Expository talk on the prize winning research)

Date	Title	Speaker
17.11.15	Physics	Dr. Mrinal K. Das Dept. of Physics
17.11.15	Chemistry	Prof. R. C. Deka Dept of Chemical Sciences
18.11.15	Peace	Dr. Parasmoni Dutta Dept. of Cultural Studies
18.11.15	Medicine	Dr. S. P. G. Ponnamp Dept. of Molecular Biology & Biotechnology
19.11.15	Literature	Prof. M. M. Sarma Dept. of English & Foreign Languages
19.11.15	Economics	Prof. C. K. Sharma, Dept. of Sociology

2. Lecture series on Nobel Prize: 2014 (Venue: KBR Auditorium)

(Expository talk on the prize winning research)

Date	Title	Speaker
10.11.14	Peace	Prof. M. A. Kalam, Dept. of Sociology
10.11.14	Physics	Dr. Shymal K. Das, Dept. of Physics

11.11.14	Literature	Prof. P. K. Das Dept. of English & Foreign Languages
11.11.14	Chemistry	Dr. Nayanmoni Gogoi Dept of Chemical Sciences
12.11.14	Medicine	Dr. Eeshan Kalita Dept. of Molecular Biology & Biotechnology
12.11.14	Economics	Dr. Anjan Bhuyan Dept. of Business Administration

3. Lecture series on Nobel Prize: 2013

(Expository talk on the prize winning research)

Date	Title	Speaker
06.11.13	Physics	Dr. Debasish Borah, Dept of Physics
06.11.13	Literature	Dr. D. P. Nath, Dept of Cultural Studies
07.11.13	Chemistry	Prof. R. C. Deka, Dept of Chemical Sciences
07.11.13	Peace	Prof. C. K. Sarma, Dept of Sociology
08.11.13	Medicine	Dr. Sougata Saha Dept of Molecular Biology & Biotechnology
08.11.13	Economics	Dr. Santanu Dutta, Dept of Math. Sciences

B. Programmes organized by the departments:

(List excludes Conferences/seminars)

Pl. refer to *Section 2.4.10* for activities organized by the IQAC)

Sl. No.	Department	Workshops/ training programmes/ sensitization programmes
1.	Business Administration	1. 1-Week Professional/Faculty Development Programme on Research Methodology, 13-18 Feb, 2012. 2. 1-day UGC SAP DRS I Workshop on <i>Designing Contemporary Livelihood Interventions</i> , 22 Jan, 2013. 3. 1-Week Professional/Faculty Development Programme on Quantitative Research Tools, Jan 28 - Feb 2, 2013. 4. Joint Workshop on <i>Companies Act, 2013 and Corporate Governance</i> , 30-31 Jan, 2015.
2.	Chemical Sciences	1. National Workshop on <i>Chemistry Popularization</i> jointly organized with ACT, Mumbai, 31 Oct, 2012. 2. Workshop on <i>Spectroscopic Tools and its Applications</i> , 6 Apr, 2013. 3. Academy Lecture Series, 21-22 Nov, 2013. Funded by INSA, NASI and IASc. 4. Workshop on <i>Integrated Arsenic and Iron Removal from Groundwater: Arsiron Nilogon</i> , 25 Jun, 2011.
3.	Civil Engineering	1. 2-Day National Seminar Cum Workshop on <i>Advances in Civil and Infrastructure Engineering</i> , 8-9 May, 2015.

4.	Computer Sci. & Engg.	1. 5 th Indian School on <i>Logic and its Applications</i> (ISLA), 6-17 Jan, 2014.
5.	Cultural Studies	<ol style="list-style-type: none"> 2-Day Regional Workshop on <i>Traditional Knowledge, Socio Economic Development and Intellectual Property Rights</i> organized by TU IPR Cell and Dept of Cultural Studies, TU, 10-11 Feb, 2014. A series of lectures by Dr. Deepak Mishra, JNU, Visiting Fellow, SAP-DRS-I, 28 Jan, 2013. A series of lectures by Prof. Mihir R. Bhattacharyya, Professor (retd), Jadavpur University, as Visiting Fellow, SAP-DRS-I, 25 - 29 Sep, 2012. A series of lectures by Prof. Birendranath Datta, eminent folklorist and founder Professor, Dept. of Cultural Studies, Visiting Fellow, SAP-DRS-I, 20 - 29 Mar 2012. Workshop on Cultural Mapping in Assam: Language, Performance and Society (SAP-DRS-I), 14 - 17 Feb, 2012.
6.	Electronics & Communication Engineering and Electrical Engineering	<ol style="list-style-type: none"> Skill Development Programme on <i>Fabrication of Aluminum building Construction Structure</i>, 21-23 Mar, 2015. 2-week FDP, sponsored by NEQIP, 2014. <i>Workshop on RF and Microwave technology</i>, TU (with SAMEER) sponsored by DeitY, 24-26 Mar, 2014, Workshop on <i>Possibilities of Electronics R&D and Applications in the North East</i>; in association with Dept. of IT, Govt. of India, 29 Jul, 2011. ISTE Workshop/STTP of NME-ICT organized by IIT Bombay and IIT KGP. Conducted at Tezpur University Remote Centre (RC ID: 1153). <i>Introduction to Research Methodologies</i>, organized by IITB, 25 Jun – 04 Jul 2012.
7.	Energy	<ol style="list-style-type: none"> Awareness and capacity building workshop on <i>Assessment of Renewable Energy Resource and its Utilization</i>, Assam, 26 Dec, 2011. Sensitization meeting on <i>Utilization of bioenergy by-products for value addition and nutrients enhancement</i>, 20 Jul, 2012 funded by DST-RCUK Project. Capacity building workshop on Rural Hybrid Energy Enterprise System, 12 Oct, 2014. Capacity building workshop <i>for mitigation of climate change using Precision Agriculture</i>, 20 – 22 Mar, 2015 funded by APN, Japan. Summer School, 20-26 Jul, 2014 funded by DST. 2-Day Familiarization Workshop on Nanofabrication Technologies, 25-26 Apr, 2015 funded by INUP, DeitY.
8.	English & Foreign Languages	<ol style="list-style-type: none"> A UGC-SAP workshop on <i>Colonial and Alternative Modernities</i>, 28 Feb, 2015. A Workshop on <i>Acoustic Phonetics and Tone Programme</i> 24-26 Feb, 2015.
9.	Food Engineering and Technology	<ol style="list-style-type: none"> Spoken Tutorial Workshop on Scilab (WC-16407), 26 Dec, 2014. Spoken Tutorial Workshop on Scilab (WC-15285), 23 Jan, 2015.

10.	Mass Comm. and Journalism	<ol style="list-style-type: none"> 1. ICSSR sponsored 7-day Workshop on <i>Research Methodology</i>, Dec, 2011. 2. ICSSR sponsored 10-day workshop on <i>Research Methodology</i>, Nov-Dec, 2014. 3. 2-day Special lectures by a prominent professor and researcher in specializing in science communication from Anna University, 7-8 Apr, 2015.
11.	Mathematical Sciences	<ol style="list-style-type: none"> 1. NBHM <i>Winter School on Galois Theory</i>, 12-15 Dec, 2012. 2. 1-week workshop on <i>Analysis</i>, on 03-09 Jan, 2012. Sponsor: ISI, UGC (SAP). 3. IUCAA-Workshop on <i>Gravitational Data Analysis</i> 23-27 Jan, 2012. 4. ISI-sponsored Workshop on <i>Undergraduate Algebra, Analysis and its Application for North East</i>, 28 Mar-03 Apr, 2013. 5. <i>Work and Achievement of Manjul Bhargava: Fields Medalist-2014</i>, 06 Sep, 2014. (Sponsor: TU). 6. NBHM Workshop on <i>Algebra and Analysis</i>, 17-23 Feb, 2015.
12.	MBBT	<ol style="list-style-type: none"> 1. ICMR-DBT workshop on <i>medical education (CME)</i> on Immunology, 28-29 October 2011. 2. DBT National Workshop on <i>Protein 3-D structure modeling</i>, 23-26 Nov, 2011. 3. DBT National Workshop on <i>Chemical informatics</i> (applications in drug design), 21-24 Mar, 2012. 4. <i>National Science Day</i>, 2012, 28 Feb, 2012. Theme: <i>Clean Energy Options & Nuclear Safety</i>. Funded by DBT. 5. <i>Workshop on tools of proteomics</i>, 21-22 Jun 2012. Funding by GE Healthcare Life Sciences. 6. DBT National Workshop on <i>Basic Genetic Engineering Techniques for Gene Cloning</i>, 17-22 Dec, 2012. 7. DBT-UGC workshop on <i>Web Servers' Application in Bioinformatics</i>. 8. DBT <i>National Workshop on Cell Culture Techniques</i>, 28-31 Mar 2014. 9. DBT <i>National Workshop on Real Time Based Gene Expression Studies</i> 27-28 Mar 2015. 10. QSAR/QSPR-Applications in drug designing, 14-16 Feb 2015. 11. DBT-BIF workshop on <i>Exploring biological databases</i>, 8-9 Mar 2015. 12. Lecture series on recent <i>Advance on Mathematical Biology</i>. Funding by NNMCB & Tezpur University. 13. IBM workshop on <i>IBM SPSS statistics</i> 22, 17 Jun 2014.
13.	Mechanical Engineering	<ol style="list-style-type: none"> 1. Hands on Training on fabrication of Aluminum building structures & Brainstorming Session on MSME Project.
14.	Physics	<ol style="list-style-type: none"> 1. National Workshop on <i>Nonlinear Dynamics (ND2011)</i>, 26-28 April, 2011. 2. 1-day meet <i>Possibilities of Electronics R&D and applications in the North-East</i>, 29 Jul, 2011. 3. Workshop on <i>Astrophysical Observation & Data</i>

		<i>Analysis</i> , 5-7 Jun, 2012. 4. SERC School on <i>High Energy Physics</i> , 1-21 Mar, 2013. 5. Workshop on <i>Infrared Astronomy & Data Analysis</i> , 19-21 Mar, 2013. 6. Workshop on <i>Solar Astronomy</i> , 17-19 Dec, 2013. 7. ISI-sponsored <i>Workshop on Non-linear Dynamics & Application</i> (NDA-2014), 14-15 Mar, 2014. 8. SAMEER sponsored Workshop on <i>RF & Microwave Technology</i> , 24-26 Mar, 2014. 9. SAMEER sponsored Workshop on <i>Computational Aspects of Research in Physics</i> , 31 Oct-1 Nov, 2014.
15.	Social Work	1. Informal sensitization programme on <i>Participatory research methodology with emphasis on Focused Group Discussion</i> , Dec, 2014.
16.	Sociology	1. Training-Cum-Workshop on <i>Statistical Package for Social Science (SPSS)</i> , 4-8 Nov, 2014. (In collab. with ICSSR-NERC, Shillong). 2. Workshop on <i>Executive Programme on Evaluation Method</i> , 13-17 Feb, 2014. In collab. with UNICEF, Guwahati; OKDISCD, Guwahati & Govt. of Assam. 3. ICSSR sponsored National Level Training-Cum-Workshop on <i>Research Methodology in the Social Sciences</i> . 11-17 Mar, 2013 with Society for Social Research (SSR). 4. ICSSR Workshop on <i>Research Methodology for University/ College Teachers & Researchers</i> , 30 Jan-5 Feb, 2012 in collab. with O. K. D. Inst. for Social Change. 5. All India Young Social Scientists' Workshop on <i>Emerging Trends in Social Science Research and Methodological Challenge</i> , 10-11 Oct, 2011. 6. Workshop on <i>Contemporary Gender Issues</i> , 17-18 Sept, 2010. In collab. with Equal opportunity Cell, TU. 7. Workshop on <i>Community Monitoring with Special Emphasis on Social Audit</i> , 9-11 Apr, 2010.

3.1.6 How does the university facilitate researchers of eminence to visit the campus as adjunct professors? What is the impact of such efforts on the research activities of the university?

Tezpur University has formulated guidelines to avail the services of eminent researchers as adjunct faculty as per the guidelines of UGC.

So far, Tezpur University formally engaged one adjunct faculty, Dr. Shankar Boruah, in the Departments of Cultural Studies and Mass Communication and Journalism and engaged a few Professors of Eminence. Prof. Hiram Patangia, College of Engineering and Information Technology, UALR, USA has also been invited as adjunct Professor in Energy Technology to collaborate & carry out research initially for one semester. National and international researchers are also invited for sharing their domain expertise with our teachers/researchers for furtherance of the ambit of research areas.

Tezpur University regularly invites persons of eminence as visiting faculty for

the benefit of students and researchers of different departments. The association of such scholars have helped enhancement of the research atmosphere and activities. Regular talks, seminars at departmental as well as university level involving such scholars are frequently organized for providing broader audience.

(Details can be found in Vol.-IIA/item Nos. 12 & 44 of departmental reports)

3.1.7 What percentage of the total budget is earmarked for research? Give details of heads of expenditure, financial allocation and actual utilization.

The details of budget allocation and actual utilization of fund for (a) start-up grant (b) institutional fellowship during the last four years is presented below.

(Figures in ₹ lakh)

Heads of Account	2011-12		2012-13		2013-14		2014-15	
	B	U	B	U	B	U	B	U
Start-up Grant	-	27.95	-	22.19	-	20.95		2.25
Institutional Fellowship	189.07	57.97	200.00	69.14	100.00	79.57	150.00	91.10

B: Budget Allocation, U: Actual Utilization

Note: No provision was specifically made in the budget under the Head of Account 'Start-up Grant' as UGC provided fund under 'Recurring' head for the XII Plan General Development Grant to meet such expenditure.

During the period 1/1/2011-17/04/2014: 46 grants worth ₹ 61,04,543 were sanctioned.

3.1.8 In its budget, does the university earmark funds for promoting research in its affiliated colleges? If yes, provide details.

Not applicable.

3.1.9 Does the university encourage research by awarding Post Doctoral Fellowships/Research Associateships? If yes, provide details like number of students registered, funding by the university and other sources.

The University has instituted PD and Research Fellowship – one each in the name of late Dr. Bhupen Hazarika in the centre for Assamese studies.

In addition, there are a few Post-Doctoral fellows and Research Associates under different schemes/fellowships by external agencies like UGC, DST, DBT, etc.

The following details (as on 31.10.15)

Research Associates: 8

Department/Centre	Number	Sponsor
Environment Science	01	DBT
Chemical Sciences	02	D.S Kothari Fellowship/UGC
Energy	01	DBT
Sociology	02	ICSSR
Centre for Women Studies	01	UGC
Centre for Assamese Studies	01	UGC
Total	8	

Post-Doctoral Fellows: 07

Department/Centre	Number	Sponsor
MBBT	03	DBT
Business Administration	01	ICSSR
Environment Science	01	DST
Chemical Sciences	02	D.S Kothari fellowship/ UGC
Total	07	

3.1.10 What percentage of faculty have utilized the sabbatical leave for pursuit of higher research in premier institutions within the country and abroad? How does the university monitor the output of these scholars?

About 1.2% of the faculty members have utilized sabbatical leave for pursuit of higher research.

The University monitors the output of such scholars from the half-yearly progress report submitted by concerned incumbent.

3.1.11 Provide details of national and international conferences organized by the university highlighting the names of eminent scientists/scholars who participated in these events.

Figures for the last four years:

Total number: 38 (International: 07, National: 31)

Sl. No.	Department	National	International	Total
School of Sciences		07	02	09
1	Chemical Sciences	02	01	03
2	Environmental Science	nil	nil	nil
3	Mathematical Sciences	01	nil	01

Sl. No.	Department	National	International	Total
4	Molecular Biology & Biotechnology	03	nil	03
5	Physics	01	01	02
School of Engineering		03	02	05
6	CSE	nil	nil	nil
7	Civil Engineering	nil	nil	nil
8	Energy	02	02	04
9	Food Engineering & Tech.	01	nil	01
10	Mechanical Engineering	nil	nil	nil
11	ECE	nil	nil	nil
School of Management Sciences		02	nil	02
12	Business Administration	02	nil	02
13	Commerce	nil	nil	nil
School of Humanities & Social Sciences		19	03	22
14	Cultural Studies	05	01	06
15	English & Foreign Language	05	nil	05
16	Sociology	07	02	09
17	Mass Comm. & Journalism	02	nil	02
18	Hindi	nil	nil	nil
19	Social work	nil	nil	nil
20	Education	nil	nil	nil

*includes seminars/symposiums/colloquiums

International conferences/seminars

Sl. No	Seminar/Conferences/ (National/International)/date	Source of funding	Eminent Participant/ resource person
1	International Congress on Renewable Energy-2011 (ICORE 2011) November 2-4, 2011	SESI, DRDO	<ul style="list-style-type: none"> • Tarun Kapoor, MNRE • Prof. S. C. Mullick, IITD • Ravi Khanna, CEO, Solar Power Business, Aditya Birla Group • Rajinder Kumar Kaura, CMD, Bergen Group of Companies • Prof. S Jain, IITD • Dr. Anil Misra, Sr. Prog. Advisor, GIZ, New Delhi • Dr. S Dasappa, IISc. • Dr. P Maki-Arvela and • Dr. N. Kumar, Abo Akademi Univ., Finland

Sl. No	Seminar/Conferences/ (National/International)/date	Source of funding	Eminent Participant/ resource person
2	National Magnetic Resonance Society Symposium cum Annual Meeting (NMRS-2014) February 2-5, 2014)	DST, CSIR, TU, BRNS, DRDO, BRUKER, JEOL, Euroisotop, CIL	Over 40 experts (>30 from abroad)
3	International Conference on Interstellar Dust, Molecules and Chemistry (IDMC-2014) December 15-18, 2014)	IUCAA, TU	<ul style="list-style-type: none"> • Prof. Itsuki Sakon • Prof. Takashi Onaka (Univ. Of Tokyo)
4	7 th Biennial International Conf. of Indian Assoc. for Asian and Pacific Studies, December 20-22, 2014	ICSSR, Maulana Abul Kalam Azad Inst. of Asian Studies, Kolkata.	<ul style="list-style-type: none"> • Prof. Prasenjit Duwara, National Univ. of Singapore
5	International Seminar on Cultural Studies: Global and Local Perspectives February 7-9, 2015	Maulana Abul Kalam Azad Inst. of Asian Studies, Kolkata	
6	International Seminar on Shared Rivers in South Asia: challenges & Prospects in Lower Riparian Areas 16-17 Mar, 2015	Maulana Abul Kalam Azad Inst. of Asian Studies, Kolkata	<ul style="list-style-type: none"> • Prof. Nayan Sharma, IIT-R • Tariq Karim, High Commissioner, Bangladesh
7	Workshop/conference on “Capacity Building for Mitigation of Climate Change using Precision Agriculture, 20-22 March, 2015	Asia-Pacific Network for Global Change Research (APN)	<ul style="list-style-type: none"> • Michele Clarke, Univ. of Nottingham • G. C. Bora, NDSU, USA • Ashwani Kumar, • Ex-Director ICAR-IWM

National conferences/seminars

Sl. No.	Seminar/Conferences/ (National/International)	Source of funding	Eminent Participant/ resource person
Chemical Sciences			
1.	National Conference on Chemistry, Chemical Technology and Society (November 11-12, 2011)	UGC, T.U. and Corporate	<ul style="list-style-type: none"> • Prof. H. Junjappa • Prof. B. C. Ranu • Prof. P. K. Chattaraj • Prof. K. Ismail • Prof. P. Phukan

Sl. No.	Seminar/Conferences/ (National/International)	Source of funding	Eminent Participant/ resource person
			<ul style="list-style-type: none"> • Prof. B. K. Patel • Prof. H. Ila • Prof. B.S.R. Reddy • Prof. K. C. Majumdar
2.	8th Mid Year CRSI National Symposium in Chemistry jointly organized by the CSIR-NEIST, Jorhat and Tezpur University (July 10-12, 2014)	CSIR, DST, Corporate	<ul style="list-style-type: none"> • Dr. S. Pal • Prof G. Mughesh • Prof S. Chandrasekaran • Dr D. Ramaiah • Dr. R. C. Boruah • Prof. S. Das
Mathematical Sciences			
1.	Winter School and conference on Winter school and conference on Algebra and Number Theory (December 23-29, 2011)	NBHM DST	<ul style="list-style-type: none"> • Prof. Eknath Ghate, TIFR Mumbai • Prof. Dilip P. Patil, IISc Bangalore • Prof. R. Sujatha, Univ. of British Columbia, Canada. • Prof. Kapil H. Paranjape, IISER, Mohali
Molecular Biology & Biotechnology			
1.	National Seminar on "Recent Advances in Applied Microbiology and Bioprocess Engineering " with Special Reference to Petroleum Biotechnology (August 23-24, 2012)	ONGCL	-
2.	National Seminar cum Workshop on "Recent Advances in Microbial Biotechnology and Molecular Evolution" (Mar 1-4, 2013)	UGC and DBT	-
3.	National Seminar on Recent advances in Biotechnology Research in North East India: Challenges and Prospects (November 27-29, 2014)	DBT, CSIR, DST	-
Physics			
1.	National Conference on Theoretical Physics (February 8-12, 2013)	DST, TU, CSIR and DRDO	<ul style="list-style-type: none"> • Prof. J. Murthy, IIA • Prof. A. Raychandhuri, Univ. of Calcutta
Energy			

Sl. No.	Seminar/Conferences/ (National/International)	Source of funding	Eminent Participant/ resource person
1.	Indo-Finnish Symposium on Green Fuels (February 1, 2013)	DST	<ul style="list-style-type: none"> • Prof. JP Mikkola & • Dr N Kumar, Abo-Akademi Univ., Finland
2.	Indo-Finnish Workshop on Green Chemistry (December 13-14, 2013)	DST	<ul style="list-style-type: none"> • Dr. D Srinivas, NPL, Pune • Dr. Savita Kaul, IIP, Dehradun • Dr. D K Tuli, IOCL, Faridabad • Dr. Ramkrishna Sen, IITKgp. • Prof. K K Pant, IITD
Food Engineering & Technology			
1.	National seminar on “Role of Bioactive Compounds in Foods on Human Health- BIOFOODS (November 14-16, 2011)	DBT, DST, CSIR, DRDO	<ul style="list-style-type: none"> • Dr. KSMS Raghavarao, CFTRI, Mysore • Prof. S. Rajarathnam, • Dr. K.S. Premavalli, DFRL, Mysore • Dr. R.C. Boruah, NEIST • Prof. U. Raychauchuri, JU
Business Administration			
1.	National Seminar on Financial Inclusion and Inclusive Growth (October 25-26, 2013)	ICSSR, New Delhi	<ul style="list-style-type: none"> • Prof. Atul Sarma, Ex.VC, RGU • Mr. C.S. Ghosh, CMD, Bandhan Microfinance • Dr. B.K.Swain NIRD • Prof. P.K. Haldar • Kanhaiya Singh, Fore School of Management • Prof. S. Banerjea, Calcutta University
2.	National Seminar on “Managing Rural Development in North East India: Perspectives, Policies and Experiences” (November 7-8, 2014)	UGC-SAP	<ul style="list-style-type: none"> • Dr. Amia Kr. Sarma, Executive Director, RGVN • Prof. S.S.Sangwan, SBI Chair Professor, CRRID

Sl. No.	Seminar/Conferences/ (National/International)	Source of funding	Eminent Participant/ resource person
			<ul style="list-style-type: none"> • Prof. R.M. Pant, Director, NIRD • Mr. S. J. Bhorali, CMD, Asomi Fin Services P. Ltd.
Cultural Studies			
1.	National Seminar on Translation of Knowledge Texts in Assamese (March 31 – April 1, 2011)	National Translation Mission, CIIL, Mysore	<ul style="list-style-type: none"> • Prof. B. K. Danta
2.	National Seminar on Contemporary Women's Writing in North East India: Issues of Gender and Nationalism (April 7-8, 2011)	Sahitya Akademi	<ul style="list-style-type: none"> • Dr. Arupa Patangia Kalita • Dr. Aradhana Goswami
3.	National Seminar on Issues of Ethnic Identity and Ethnic Conflict in North East India (January 29-30, 2013)	ICSSR, New Delhi	<ul style="list-style-type: none"> • Prof Lalthanluanga, VC, Mizoram Univ. • Prof A. C. Bhagawati, Former VC, RGU • Prof U. Mishra • Prof S. Chaudhuri, RGU • Prof N. Gogoi, Dibrugarh Univ.
4.	National Seminar on Vaisnavite Music of Assam: Its Institutionalisation and its Performative Context (March 20-21, 2013)	UGC	<ul style="list-style-type: none"> • Dr. Naren Kalita
5.	National Seminar on 'Mobility and World View of the Singpho and Khampati Tribes of Arunachal Pradesh and Assam' (March 27-28, 2014)	ICPR, New Delhi	<ul style="list-style-type: none"> • Prof Sujata Miri • Prof P. Biswas, NEHU • Prof B. Ointon, JNU • S. Kashyap, Indian Express • Prof A. C. Bhagawati, Former VC, RGU
English & Foreign Language			
1.	Lives of Indian Saints and the Claims of Devotion (February 15-16, 2012)	UGC-SAP	-
2.	Narratives of Memory and Migration in Assam (February 28, 2012)	UGC-SAP	-
3.	The Form and Function of Travel Writing in Northeast	UGC-SAP	-

Sl. No.	Seminar/Conferences/ (National/International)	Source of funding	Eminent Participant/ resource person
	India: Interdisciplinary Concerns (March 30, 2013)		
4.	Workshop on Acoustic Phonetics and Tone Programme (February 24-26, 2015)	TU	• Dr. Sakuntala Mahanta, IITG
5.	‘Colonial and Alternative Modernities with special reference to Assam/Northeast’, (February 28, 2015)	UGC-SAP	• Dr Arup Jyoti Saikia, IITG
Sociology			
1.	National Seminar on Culture and development in Northeast India (March 3-2, 2011)	ICSSR, NESRC, Shillong	• Prof. M. N. Karna, NEHU • Prof. Bhupen Sarma, OKDISCD, Guwahati
2.	National seminar on Religion and Society in modern times in collaboration with Delhi School of Economics (February 22-23, 2012)	Delhi School of Economics	• Prof. J.P.S. Oberoi • Prof. Susan Visvanathan
3.	National Seminar on Identity, Territoriality and Autonomy, in collaboration with OKD Institute for Social Change and Development, Guwahati (March 1-2, 2012)	ICSSR NER	• Dr. Bhupen Sarma. OKDISCD: Guwahati • Dr. Abraham Lotha, Principal, St. Joseph’s College, Jakhama
4.	National Seminar on Interrogating Indigeneity, \ Citizenship and the State: Perspectives from India’s Northeast in Collab. with ICSSR NERC, Shillong (March 7-9, 2013)	M/o Home Affairs, GOI; ICSSR, New Delhi	• Prof. Udayan Misra, National Fellow, IAS, Shimla • Prof. A.C. Sinha, ICSSR Fellow
5.	National Seminar on Social and Economic Status of the Marginalized Communities in Brahmaputra Valley with Special Reference to SC Group (September 27-28, 2013)	ICSSR	• G. Aloysius, Indep. Researcher & Activist • Prof. N.K. Das, Anthropological Survey of India
6.	National Seminar on The Practice of Everyday Life in Northeast India: An Interdisciplinary Approach in collab. with Dept. of EFL. (March 14-15, 2014)	ICSSR NERC, Shillong.	• Prof. Pramod Nayar, University of Hyd.

Sl. No.	Seminar/Conferences/ (National/International)	Source of funding	Eminent Participant/ resource person
7.	2-day Colloquium on Conflict Management and Peace Initiatives in Northeast India in Collab. with Don Bosco Socio-Technical Inst., Tezpur (Feb 13-14, 2015)	OIL, Rotary Int., Impulse NGO Network, Shillong & TU	<ul style="list-style-type: none"> • Mr. Rajiv Bora, Addl. Chief Secy, GOA • Mr. Krishan Verma, Observer Research Foundation, Kolkata
Mass Comm. & Journalism			
1.	National seminar on Gandhian Concept of Media Literacy (March 30-31, 2011)	Gandhi Smriti and Darshan Samiti, N. Delhi	<ul style="list-style-type: none"> • Prof. A. Nagraj, Assam University • Prof. R. M. Pathak M. G. Kashi Vidyapeeth, Varanasi
2.	National Seminar on the theme 'Media in Nation-building, a Retrospective', (Jan 30-31, 2013)	ICSSR, Delhi	<ul style="list-style-type: none"> • Prof. Niru Hazarika, Ex. Dean, HSS, Gauhati University

3.2 Resource Mobilization for Research

3.2.1 What are the financial provisions made in the university budget for supporting students' research projects?

The University has provisions for fellowship for research scholars who are not in receipt of any fellowship from other sources. The University also provides required fund towards research activities through payment of Registration and TA/DA of students for attending Seminars/Conferences etc. and makes available the consumables required for research purpose, paying contingency grant, etc. Sometimes, these are either from the Departmental budget under such heads of account or from the provision under externally funded projects.

Support is also provided to graduate students for short-term projects, preparation of exhibits, travel supports for participation in exhibition and competition.

3.2.2 Has the university taken any special efforts to encourage its faculty to file for patents? If so, how many have been registered and accepted?

- I. Tezpur University has created the TU IPR Cell (2009) to assist TU fraternity in patent related matters, including facilitating filing of patents. Tezpur University has appointed an eminent IPR expert as the IPR Chair Professor (sponsored by MHRD). In addition, the University has an agreement with a Kolkata based Patent attorney firm M/S Anjan Sen & Associates for assistance in filing IPR applications including Patents.
- II. The TUIPR Cell has conducted Patent Search and Analysis workshop in regular basis to encourage faculty and the research scholars to file patent application for their protectable inventions.

- III. The Cell has organized discussions and meetings related to Prior Art Search and patent application filing in collaboration with several departments of the university as well as with Govt. departments like PIC, ASTEC and PFC, DST-TIFAC to attract students, research scholars and faculties for protecting their intellectual outputs.
- IV. An Invention Disclosure Form (IDF) has been formulated by the Cell to simplify the process of streamlining the invention details for patent filing.
- V. Technical support is rendered to the inventors for ascertaining proper drafting of the technical know-how in acceptable format. Experts in this area provide valuable guidance to the inventors for shaping inventions into patentable items.
- VI. Patent applications with considerable potential are sent to the PFC, DST-TIFAC and DBT for financial and further technical assistance for patent filing.
- VII. In an effort to familiarize the patent examination process in the Indian Patent Office, the Assistant Controller of Patents & Designs, was invited as resource person in one of its workshops in Tezpur University.
The concerted efforts have resulted in 40% increase in the patent filing from the University in the period 2011-2015. Besides the above, 3 copyright applications are filed from the University out of which 2 are granted while the other is under examination at the Copyright Office, Delhi.
During last four years 29 patent applications have been filed and 4 are awarded.

Details of patents filed and granted are provided in **Vol-II B**.

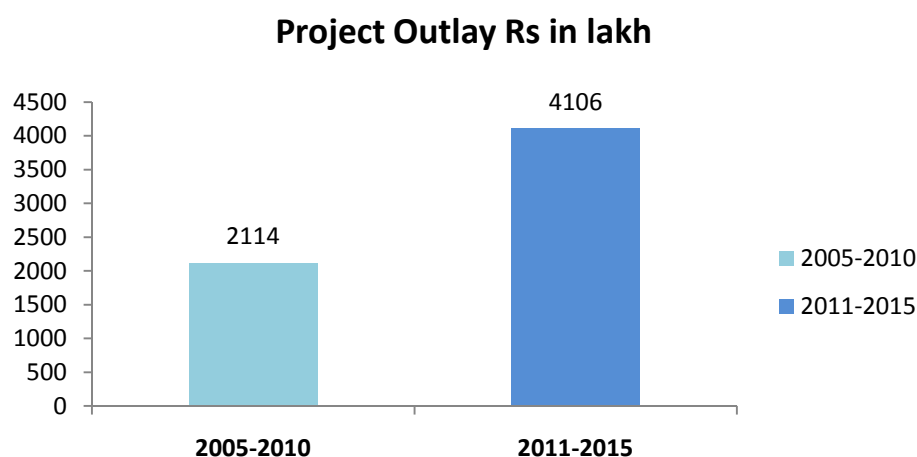
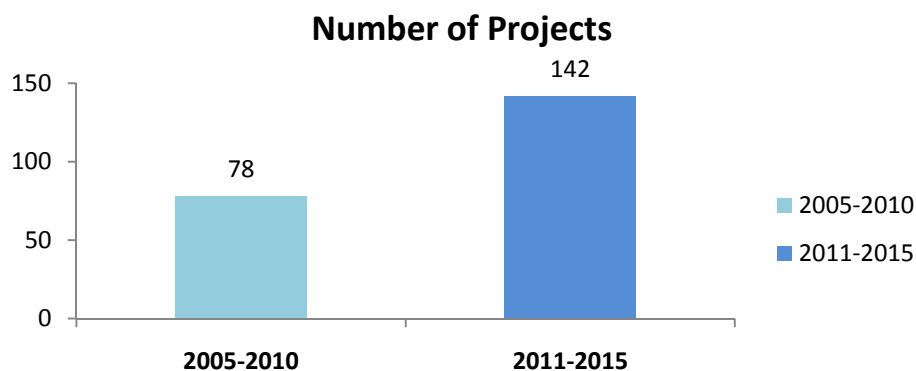
3.2.3 Provide the following details of ongoing research projects of faculty

	Year wise	Number	Name of the project	Name of the funding agency	Total grant received (₹ in lakh)
A. University awarded projects					
Minor projects		04			10.05
Major projects		nil			nil
Total		04			10.05
B. Other agencies –					
National		138			3833.278
*International		04			272.85
Total		142			4106.128

*International projects

1. DST-UKIERI (Sl. No. 3/ Department of Computer Science & Engineering)
2. DST-UKIERI (Sl. No. 4/ Department of Chemical Sciences)
3. DST-UKRC (Sl. No. 5/Department of Energy)
4. UGC-UKIERI (Sl. No. 6/Department of Energy)

Details of ongoing faculty projects are provided in **Vol-II B**



3.2.3. Comparison of number of Faculty Projects and Outlay 2010 and 2015

3.2.4 Does the university have any projects sponsored by the industry / corporate houses? If yes, give details such as the name of the project, funding agency and grants received.

The university has established an ONGC Centre for Petroleum Biotechnology under the sponsorship of the ONGC in 1999. Several projects in the field of biotechnology have been conducted under this center.

List of ONGC (L) sponsored projects (Ongoing/completed during last 4 years)

S. No.	Project	Name of PI	Amount in ₹ lakh	Duration
1	Proteomics study of aromatic hydrocarbons degradation enzymes of some selected bacterial strains prospecting strategies for environmental bioremediation	A. K. Mukherjee	7.06	2014-16
2	Development of phytoremediation protocol for bioremediation of crude oil contamination	T. Medhi	5.00	2014-16
3	Spatial distribution and source apportionment of PAH s in drinking	K. P. Sarma	6.35	2009-10 completed

	water and soil of surrounding areas of oil fields of Borhola area of Jorhat			
4	Bioremediation of Crude Oil Contaminated Soil	B. K. Konwar	70.03	2009-2014 completed

The above list excludes the consultancy projects.

3.2.5 How many departments of the university have been recognized for their research activities by national / international agencies (UGC-SAP, CAS; Department with Potential for Excellence; DST-FIST; DBT, ICSSR, ICHR, ICPR, etc.) and what is the quantum of assistance received? Mention any two significant outcomes or breakthroughs achieved by this recognition.

Major Schemes	No. of Department
UGC-SAP (DRS-I and DRS-II)	10 (07+ 03)
DST-FIST	08
MHRD Centre of Excellence	01
DBT	01
DIT	01
DeiTY	01
ICPR	01
ISRO	01
AICTE	06

Details of the all major grants/assistance and quantum of assistance

Sl. No.	Department	Scheme of assistance/outcome	Amount (₹ in lakh)
1	Chemical Sciences	1. DST-FIST. 2. UGC-SAP-I (2009-2014)	58.00 31.00
2	Computer Science & Engineering	1. MHRD-Centre of Excellence. 2. UGC SAP DRS-1. 3. UGC SAP DRS-1I. 4. DST-FIST-I. 5. DIT assistance. 6. DIT assistance.	300.00 74.00 77.00 25.00 72.84 37.00
3	Cultural Studies	1. UGC-SAP (DRS-I) 2. ICPR.	41.00 5.00
4	English & Foreign Languages	1. UGC-SAP DRS-I (01/04/09-31/03/14) 2. UGC-SAP-DRS II in 2014, 3. DeitY for Indian Languages Corpora Initiatives Phase-II (2012-2015).	32.00 98.00 (+ 2 PF) 61.00 39.16

		4. DeitY for Digital Language Preservation project (2013-2016). Outcome: The establishment of a Centre for Endangered Languages	
5	Electronics & Communication Engineering	1. DST, FIST–Setup of microfabrication facility 2. UGC-SAP–Microfabrication laboratory 3. DeitY– Setting up of fabrication facility for MEMS systems and Devices. 4. AICTE–Modernization and Renovation of Fiber Optics Laboratory 5. AICTE–Modernization and Renovation of Instrumentation Laboratory	1400.00 69.00 326.00 13.00 10.00
6	Energy	1. DST-FIST (2005)	23.00
7	Food Engg. & Technology	1. AICTE-NEQIP 2. DST-FIST	88.00 70.00
8	Mathematical Sciences	1. UGC-SAP DRS-I (2011-16). 2. DST-FIST (2012).	20.50 (+2 PF) 54.00
9	Molecular Biology & Biotechnology	1. UGC-SAP DRS I (2009-2013) 2. DST-FIST (2009-2014) 3. UGC-SAP DRS II (2015-2020) 4. DBT-Strengthening of teaching and research in North East India (2009-2014)	41.00 (+2 PF) 35.00 80.25 (+2 PF) 149.92
10	Physics	1. DST-FIST (2005-2010) 2. UGC-SAP (DRS-I) (2010-2015) 3. Space Science Promotion Scheme, ISRO (2011-2015)	29.00 71.50 2.50 (recurring)
11	Business Administration	1. UGC-SAP DRS-I (2011-16)	35.00
12	Environmental Science	1. UGC-SAP (DRS-I) in June/2015	135

(PF: Project fellow)

Outcome:

1. Increased research output
2. Establishment of new centres
3. Establishment of new laboratories and facilities
4. Improvement of infrastructure facility
5. Increased collaboration

3.2.6 List details of

- a. research projects completed and grants received during the last four years (funded by National/International agencies).**

List of completed projects is provided in **Vol-II B**.

- b. Inter-institutional collaborative projects and grants received**

b. Inter-institutional collaborative projects and grants received

(as per record of the Office of the Dean (R & D).

(i) All India collaboration

S. No.	Title of the project	Funding agency	Collaborating Institute	Grant sanctioned (₹ in lakh)
1.	A novel stable vanadium compound for the alleviation of diabetes	DBT	National Institute of Immunology Visva-Bharati Univ.	76.70 lakh (TU-47.90)
2.	Indian Languages Corpora Initiative (ILCI) Phase-II	DEITY	Consortium of 16 Institutes;JNU (leader)	933.30 (TU 61.53)
3.	Digital Language Preservation	DEITY	Consortium of 6 NE IHE IIT Guwahati (leader)	360.50 (TU 39.16)
4.	Modelling Atmospheric Pollution and Networking (MAPAN)– Tezpur (MAPAN – 12)	IITM (MoES)	IITM Pune	20.32
5.	Qualitative development of vermi- compost technology through isolation of novel microorganisms and their application in agricultural waste management of Assam	DBT	Visva Bharati University	64.84
6.	Design and Development of a Dynamic Firewall Solution	DIT	CDAC-Bangaluru	225.58 (TU 103.68)
7.	Preparation and characterization of peroxometal compounds and studies on their biological significance in cellular signaling	DBT	CDFD Hyderabad	70.50 (TU-45.33)
8.	Development of multifunctional dendritic polymers for injectable bone tissue engineering	DBT	IIT Kharagpur	101.32 (TU-64.22)
9.	Polymer supported green nano particles: Using plants	DBT	Visva Bharati University	58.81 (TU-33.46)

	of North East India; Studies on Toxicity and anticancer property			
10.	Electrical and Thermal Transport in conducting polymer nanostructures	UGC-DAE	IGCAR/ UGC-DAE CSR	7.18667
11.	Microwave Technology based Tea Processing Systems for NE States	DeitY	SAMEER Mumbai, Society under DeitY	55.20 (TU-14.84)
12.	Multifunctional hybrid nanosystem for molecular imaging applications	DBT	GMC Guwahati	363.09 (TU-356.09)
13.	Development of nanomaterial based dual mode contrast agent and their surface mediated conjugation study from first principles	DBT	S.N. Bose National Centre for Basic Sciences, Kolkata	122.25 (TU-110.20)
14.	Study on the Controlled self-assembly of magnetic nanostructures using small angle neutron scattering (SANS)	UGC-DAE CSR	BARC, Mumbai	7.67
15.	Understanding the molecular interactions between NK receptor diversity and activation	DBT	Assam Medical College, Gauhati Medical College	44.45 (TU-33.23)
16.	KIR haplotypic variation and activation of natural killer cells in cancer	ICMR	RMRC Dibrugarh	27.30
17.	Longitudinal analysis of changes in cytokine profile of malarial patients at different stages of treatment and disease resolution: Understanding molecular basis of cure and malarial pathology	DBT	JNU, New Delhi AMC Dibrugarh	47.21 (TU-37.65)
18.	Search for novel treatments for snake venom poisoning: Composition analysis of Naja naja and Daboia russelli venoms and complete characterization of their major toxins	DBT	University of Madras University of Mysore	104.90 (TU-69.84)
19.	Investigation on the antidiabetic property of	BDT	Visva Bharati University	62.37

	Potentialla anserine – a traditionally used medicinal plant of the North East using contemporary Biochemical and Molecular approaches			
20.	Studies on bio-ecology of helopeltis theivora and development of a forecasting model of its incidence for effective management	DBT	NEIST Jorhat NESAC, Meghalaya	74.56 (TU-18.80)
21.	Assessment of thrombolytic potential and anticancer activity of fibrinolytic enzymes purified from Russell's viper venom and bacteria isolated from NE-India	DBT	IIT Bombay	160.04 (TU-120.86)
22.	Studies on Genetics and Epigenetic Alterations in Head and Neck Cancers Prevalent in North Eastern Region of India	DBT	ICMR- Inst. Of Cytology and Preventive Oncology	47.21 (TU-40.16)
23.	Isolation and characterization of hydrogen producing bacteria from North-Eastern states of India (with special emphasis on Assam and Arunachal Pradesh), for efficient conversion of biomass to hydrogen	DBT	R. G. University, Arunachal Pradesh	56.20 (TU-32.31)
24.	Study of microbial diversity and biochemical characteristics of selected non-alcoholic fermented (milk, vegetable and pulses) food product of Assam and Arunachal Pradesh	DBT Extn. 21/5/15	NEERI, Nagpur	54.71 (TU-29.79)
25.	GIS modeling based impact assessment of ground water arsenic contamination in Brahmaputra basin and development of a remediation strategy using	DBT	Gauhati University	86.73 (TU-70.50)

	endemic lignocellulosic agrowaste based nanobiosorbants			
26.	Characterization of a potential auto transporter adhesion function of <i>Ralstonia solanacearum</i> , the causal agent of bacterial wilt in plants	DBT	CCMB Hyderabad	61.32 (TU-35.66)
27.	Understanding causes of codon usage bias in organisms	DBT	Bose Institute Kolkara	26.36 (TU-15.50)
28.	In-Silico design and evaluation of sequences for γ D crystalline protein	DBT	IISc, Bangalore	48.72 (TU-33.44)
29.	Study on the regulation of adipose tissue development and function by post-translational protein arginylation	DBT	JNU	92.90 (TU-56.10)
30.	Studies on the efficacy of flavonoid and non-flavonoid polyphenols against chronic inflammation induced disease pathogenesis	DBT	Bose Institute, Kolkara	77.41 (TU-48.60)
31.	Molecular Epidemiology of Group A rotavirus (RVA) Infections in the North-eastern region (NER)	DBT	RIMS, Imphal AAU, Khanapara AIIMS, New Delhi	158.01 (TU-75.18)
32.	Comparative metagenome of human gut of North and North-eastern region of India	DBT	National Dairy Research Institute	64.15 (TU-45.05)
33.	Protein folding kinetics is a selection force on shaping codon usage bias in the high expression genes	DBT	University of Calcutta	42.32 (TU-24.72)
34.	Molecular and physico-chemical characterization of selected ginger species from north eastern region	DBT	IIT Guwahati	1.45
35.	Exploration and conservation of ecologically and economically important threatened plant species	GBPIHED	Dr. Hari Singh Gour University NERIST	9.966

	occurred in sacred groves of Assam			
36.	“Development of Prosodically Guided Phonetic Engine for Searching Speech Databases in Indian Languages”, DietY sponsored project, PI: Prof U Sharma, Co-PI Prof S K Sinha	DIT	(Consortium of) IIIT Hyd., IITG, IIT KGP, IITH, IITK, NEHU, DAIICT Gandhinagar, Thapar Univ. Patiala, RIT Kottayam.	492.54 (TU 30.015)
37.	Production of biochar from various bio-wastes and its soil application for sustainable soil management and mitigation of GHG emission	UGC	Krishi Vigyan Kendra Assam Agriculture University	12.958
38.	Instrumented Solar Hot Air Generator	DST	IIT Bombay Biogen Industries Ltd.	28.548
39.	Systemic Lupus Erythematosus (SLE) - An investigation into diagnostics and disease pathogenesis	DBT	AMC, Dibrugarh National Institute of Immunohematology (ICMR), Mumbai	207.24 (TU-119.94)
40.	Design and Development of vacuum frying system for the production of healthy snacks products	DST	CFTRI	39.782
41.	Development of continuous wet cum dry grinder for grinding waxy rice for use in the state of Assam	DST	CFTRI	33.340
42.	An MOU is signed between TU and CDAC, Pune to set up a High Performance Computing Centre (by installing Super Computer “Param Shevak”) in the Dept of CSE to carry our collaborative research in the field of Bio-informatics, Network Security, High Resolution Satellite data analysis and Big data analysis	CDAC	CDAC, Pune	200.00
43.	Towards identification isolation and	DBT	National Institute of Plant Genome	90.27 (TU-52.46)

	characterization of Exobasidium vexans strains and their pathogenic determinants/effectors from Blister blight infested tea plantations of Assam and development of future road-map for effective management practices		Research, New Delhi	
44.	Estimation of diversity of endophytes in subtropical forest of Arunachal Pradesh and creation of a genetic resource	DBT	R. G. University, Arunachal Pradesh	83.72 (TU-12.40)
45.	Soil-plant atmosphere study in relation to Net CO ₂ flux from terrestrial ecosystem of Assam	MoES	IITM, Pune	54.8988

ii) International Collaboration

S. No.	Title of the project	Funding agency	Collaboration Institute	Grant sanctioned (₹ in lakh)
1.	Synthesis of platform biofuels from renewable sources using acid modified supported ionic liquid catalysts	DST	Abo Akademi University, Finland	34.60
2.	Strengthening Networking on BiomAss research and biowaste conversion – biotechnology for Europe India integration (SAHYOG)	DBT	Indo-European Union 1. WUR, The Netherlands 2. NL Agency, The Netherlands 3. WIP–Renewable Energies, Germany 4. VITO, Belgium 5. ENEA, Italy 6. NTUA, Greece 7. DLR, Germany 8. CSIR-IICT, Hyderabad 9. TERI 10. JNU 11. GBPUA & T, Pant Nagar	274.79 (TU-44.79 lakh)
3.	Optimising phosphate recovery from community bioenergy systems: low cost sustainable fertilizer production for rural	UGC	University of Nottingham, U. K.	15.72

S. No.	Title of the project	Funding agency	Collaboration Institute	Grant sanctioned (₹ in lakh)
	communities			
4.	Rural Hybrid Energy Enterprise Systems (RHEES)	DST Indo-UK collaboration: 1. University of Nottingham 2. Loughborough University 3. Bishop Grosseteste University 4. Manchester Metro. University 5. Birmingham University 6. Leicester University 7. I. I. Sc. Bangalore 8. I. I. T. Guwahati 9. Madras School of Economics 10. JNU 11. TIDE, Bangalore 12. NEERI, Nagpur		1183.45812 (TU-198.14255)
5.	Utilization of bio-energy by products for value addition and nutrients enhancement	University of Nottingham		4.39
6.	Hybrid Quantum Mechanics/Molecular Mechanics Calculation on Palladium Supported TiO ₂ for CO Oxidation	DST	University College, London, Indo-UK	33.27
7.	Fabrication of p-i-n photovoltaic devices hybridized with core-shell CdSe/TiO ₂ nanostructures for enhanced quantum efficiency	UGC	University of Southampton, UK (UGC-UKIERI)	16.53
8.	Studying the role of rpoN, the alternative sigma factor in the pathogenicity of R. Solanacearum, the causal agent of bacterial wilt in plants	CEFIPRA	Laboratoire Interactions Plantes Micro-Organismes, Castanet Tolosan, France	44.17
9.	Observational investigation of PAH and dust features in galactic and extra galactic environments	DST-JSPS	1. University of Tokyo, 2. DDU Gorakhpur University	4.25
10.	Application of snake venom toxins labeled with functionalized nanoparticles for detecting endogenous targets in cells and ex vivo tissues with prospects for the development of novel diagnostic and therapy tools	DBT (Indo-Russian)	National University of Science and Tech. "MISIS" (MISIS) College of New Materials and Nanotechnology, Moscow	45.60

S. No.	Title of the project	Funding agency	Collaboration Institute	Grant sanctioned (₹ in lakh)
11.	BCI as an Intelligent Sensor: BCI Integrated Collaborative Control of a Cognitively Enhanced Smart Wheelchair	DST	University of Essex, UK	27255 GBP/ 27.16646 lakh

3.3 Research Facilities

3.3.1 What efforts have been made by the university to improve its infrastructure requirements to facilitate research? What strategies have been evolved to meet the needs of researchers in emerging disciplines?

As per the First Schedule of the Tezpur University Act, the University is mandated to train manpower to reach out the society with a strong focus on Science and Technology. There is a genuine need of various sophisticated equipment for advanced research in these fields. Keeping this in mind, University has established (in 2010) an ultra-modern sophisticated instrument centre known as the Sophisticated and Analytical Instrumentation Centre (SAIC) to support for updated research to its researchers. The centre also extends its facilities to researchers of other educational institutions and industries within the north east region and even beyond to improve and promote the researches of different disciplines.

Some of the sophisticated instruments installed in the SAIC during 2011-2015 are:

Sl. No.	Name	Inst. Year	Cost in ₹
1.	High Performance Liquid Chromatography (HPLC)	2011	16,27,355.00
2.	Gel Permeation Chromatography (GPC)	2011	13,01,579.00
3.	a) Atomic Absorption Spectrometry (AAS) b) Essential Prerequisites for AAS installation (Computer and Gas)	2012	a) 20,15,577.00 b) 2,33,580.00
4.	Single Crystal X-ray Diffractometer (XRD)	2012	1,16,00,276.00
5.	Raman Spectrometer	2012	65,00,000.00
6.	Powder Crystal XRD	2012	75,99,818.00
7.	Fourier Transform Infrared Spectrometer (FTIR)	2012	24,400.00
8.	CNC Lathe Machine	2012	21,65,196.00
9.	Transmission Electron Microscope (TEM-200KV)	2013	3,12,91,378.00
10.	Surface and Pore size analyzer (BET)	2013	27,87,066.00

Several other high-end instruments, namely 400 MHz NMR, PCR, Ultracentrifuge, Atomic Force Microscope, CHN Analyzer, High Performance computers have been installed in various departments.

3.3.2 Does the university have an Information Resource Centre to cater to the needs of researchers? If yes, provide details of the facility.

Tezpur University currently does not have a separate Information Resource Centre. Central Library however has an Information Retrieval Section which provides access to the electronic resources subscribed by the university and provided by INFLIBNET Centre of UGC to support teaching and research activities of the University. Web-OPAC has been installed for widening the facility of data-base search.

These e-resources can also be accessed from any terminal of the University campus. An Information Scientist in the central library helps the researchers in securing necessary information.

3.3.3 Does the university have a University Science Instrumentation Centre (USIC)? If yes, have the facilities been made available to research scholars? What is the funding allotted to USIC?

University has a Science Instrumentation Centre which is named as the Sophisticated and Analytical Instrumentation Centre (SAIC). This central facility has been made available to internal as well as external researchers.

Funding allocation (excluding cost of some instruments)

Year	Fund allocated (₹ in lakh)
2014-15	9.00
2013-14	7.50
2012-13	4.50
2011-12	3.50

In addition, the university has an instruments maintenance Centre funded by UGC and a Glass Blowing Lab.

3.3.4 Does the university provide residential facilities (with computer and internet facilities) for research scholars, post-doctoral fellows, research associates, summer fellows of various academies and visiting scientists (national/international)?

Yes. Residential facilities (Hostel/Guest house) with internet connections are provided to research scholars, post-doctoral fellows, research associates, summer fellows of various academies and visiting scientists. There is also a hostel for accommodation of married scholars and fellows with family accommodation.

3.3.5. Does the university have a specialized research centre/ workstation on-campus and off-campus to address the special challenges of research programmes?

Tezpur University has several specialized research centres/ laboratories which are listed below:

Sl. No.	Department	Specialized research centre/ workstation
1.	Computer Science & Engineering	1. Bioinformatics & Network security Research Laboratory. 2. Natural Language Processing Research Laboratory. 3. Biomimetic and Cognitive Robotics Research Laboratory. 4. Cognitive Radio Networks Research Laboratory.
2.	EFL	1. Centre for Endangered Languages (TU campus) To meet such challenges as training personnel in carrying out research in endangered languages in Arunachal Pradesh and other locations.
3.	Electronics & Communication Engineering and EE	1. Neuro Bio-Engineering Lab. 2. Micro Fabrication Lab
4.	Molecular Biology & Technology	1. ONGC-Centre for Petroleum Biotechnology (to conduct research on diverse fields of petroleum Biotechnology)
5.	Physics	1. Automated Weather Monitoring Tower Complex jointly supervised by CMMACS, Bangalore and Dept. of Physics, Tezpur University. Location: T.U. Campus. 2. GPS based Seismic activity and Atmospheric data monitoring Centre under CMMACS, Bangalore and Dept. of Physics, Tezpur University. Location: Ouguri Hills, Tezpur. 3. Nano Science Laboratory
6.	Chemical Sciences	1. Theoretical Chemistry Laboratory with high performance computing (HPC) facilities 2. Green Chemistry Research Laboratory

3.3.6 Does the university have centres of national and international recognition/repute? Give a brief description of how these facilities are made use of by researchers from other laboratories.

Tezpur University is recognized by MHRD, Govt. of India to establish a **Centre of Excellence** among 20 other institutions under Establishment of Centres for Training and Research in Frontier areas of Science and Technology (FAST) for the period 2014-19.

The theme of the COE is ‘Machine Learning Research and Big Data Analysis’ which includes five major research domains in Computer Science and Engineering:

- Bioinformatics
- Natural Language Processing
- Network Security
- Rehabilitation Robotics
- Cognitive Radio networks.

The Centre aims to develop humanitarian technologies by using Machine learning techniques and Big data analysis.

Facilities, including the university Computer Centre are used by researchers of several other institutions in Assam. University’s state of the art instrument facilities, including the SEM, NMR, TEM, BET etc. are made use of by many other laboratories from NE and beyond.

3.4 Research Publications and Awards

3.4.1 Does the university publish any research journal(s)? If yes, indicate the composition of the editorial board, editorial policies and state whether it/ they is/are listed in any international database.

Currently no research journal is being published by Tezpur University.

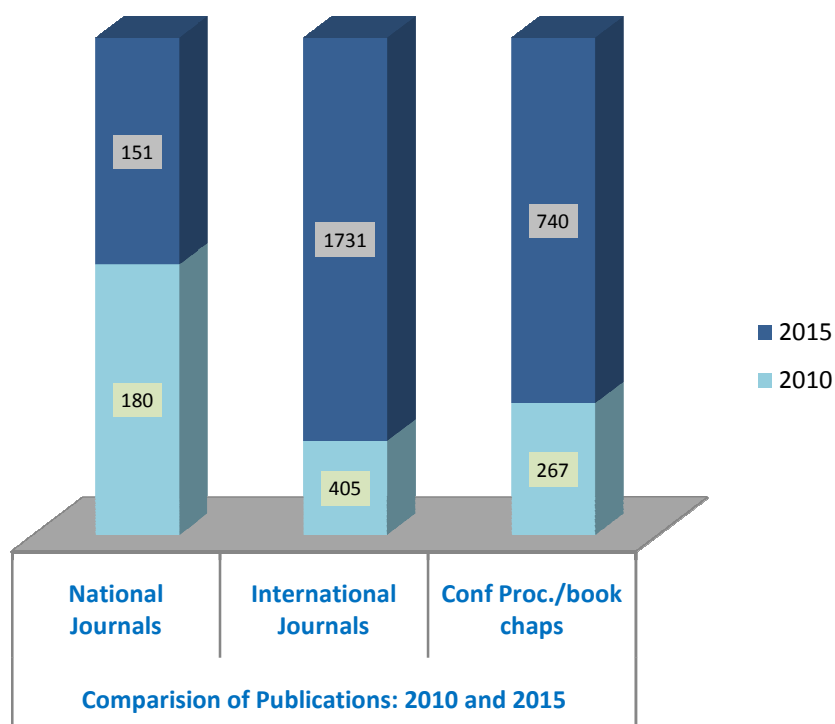
3.4.2 Give details of publications by the faculty: (last 4 years)

Publication type	Year*				Total
Number of Papers published in peer reviewed journals	2014-15	2013-14	2012-13	2011-12	2011-15
National journals	46	35	33	37	151
International journals	520	474	381	356	1731
Regional	6	3	3	5	17
Conference Proceedings	155	137	144	128	564
Books (with ISBN) & Monographs	8	10	9	11	38
Chapters in Books	69	43	36	28	176
Edited Books	5	4	1	nil	10
Important Translated work	1	nil	nil	nil	01
Total					2688
Number listed in International Database (Web of Science, Scopus, Humanities International Complete,	1279 (indexed) including 1096 (in impact factored journals)				

Dare Database - International Social Sciences Directory, EBSCO host, etc.)	
Citation Index – range / average	0-82/7.70
SNIP	0-9.13(CSE & Energy)
SJR	0-3.385/1.390(Energy)
Impact Factor – range / average	0-46.568/2.47 (average in impact factored journals)
h-index- range/average	0-27 (University h-index: 44, Web of Science, Dec, 2015)

* tentative year-wise break up

(details of publications are provided in **Vol-II B/page 36**)



3.4.2. Comparison of number of publications: 2010 and 2015

3.4.3 Give details of

*** faculty serving on the editorial boards of national and international journals**

S. No.	Name	Department	Journal
1	P. Bharali	Chemical Sciences	Int. J. of Basic Sciences & Social Sciences (IJBSS) GSTF J. of Chemical Sciences, Int. J. of Chemical Research
2	S. K. Duloi	-do-	(Editor) Journal of Polymer Materials: An International Journal
3	M. Lakshmi Kantam	-do-	Journal of Chemical Sciences (Springer)
4	Manish Kumar	Environment Science	Ground water for Sustainable Management (Elsevier)
5	K. K. Baruah	-do-	Int. J. of Geoscience (SCIRP)
6	Ashalata Devi	-do-	The Scientific world Journal
7	Sudip Mitra	-do-	Int. J. of Bio-sciences and Technology Int. J. of Bio-Sciences, Agriculture and Technology (IJBSAT)
8	D. Hazarika	Mathematical Sciences	J. Indian Academy of Math.
9	A. K. Mukherjee	MBBT	Int. J. of Venom Research, U.K. American J. of Bioengineering and Biotechnology, Columbia International Publishing (CIP)
10	R. Doley	-do-	Toxinological Society of India's Newsletter
11	S. K. Ray	-do-	Open Journal of Cell Science & Molecular Biology (published from Hyderabad, India) Resonance: journal of science education (published by the Indian Academy of Sciences) Aperito Journal of Computer Science and Biology (published from USA)
12	M. Mandal	-do-	Biomass, Fuel, Indian Journal of Microbiology, Biomass Bioenergy,
13	R. Mukhopadhyaya	-do-	Inflammation and Cell Signaling
14	J. P. Saikia	-do-	(Guest Editor) Special Issue on Nanosized Synthetic Antioxidant: Synthesis and Potential Applications in Biology
15	J. K. Sarma	Physics	Int. Journal of Applied Mathematics & Engineering Sciences.
16	R. Sirohi	-do-	Indian Journal of Pure & Applied Physics
17	P. Karmakar	-do-	Research Journal of Physical Sciences
18	P. J. Mahanta	Cultural Studies	Assam State Museum

S. No.	Name	Department	Journal
19	J. Gogoi Konwar	-do-	Journal of Contemporary Research
20	D. P. Nath	-do-	Arunachal University Research Journal
21	M. M. Sarma	EFL	'Anviksa' A refereed journal of Dib. Univ.
22	B. K. Danta	-do-	Dibrugarh University Journal for English Studies (DUJES)
23	G. K. Borah	-do-	Journal of Contemporary Research
24	A. K. Nath	-do-	Anuvad Bharati Usha Jyoti & Anukriti
25	S. K. Tripathi	-do-	Ananya (Varanasi), Sahitya Vimarsh (Varanasi)
26	Anushabda	-do-	Samanvay Poorvottar (Shillong) Mook Awaz (online)
27	J. Chakrabarty	MCJ	Asian J. of Communication, AMIC & Routledge Publication
28	C.K. Sarma	Sociology	Asian Ethnicity (T &F). Int. Journal of Rural Management (Sage) Environment Development and Sustainability (Springer) Sociological Bulletin (Journal of Indian Sociological Society) Routledge Publ.
29	D. K. Bhattacharyya	CSE	JCIT, Korea IJIP, Korea IJRTE, Finland
30	R. Kataki	Energy	Int. J. of Energy and Power J. of Biofuels and Bioenergy Int. J. of Renewable Energy Development
31	D. Deka	-do-	Journal of Advanced Engineering Research
32	S. K. Mahapatra	-do-	International Journal of Energy Engineering; Journal of Energy
33	B. K. Kataki	-do-	American J. of Energy Engineering
34	D.Datta	Mechanical Engineering	Trends in Machine design, STM Journals, India
35	N.M. Kakati	ECE	Assoc. Editor in Paladyn. Journal of Behavioral Robotics
36	Chandana Goswami	Business Administration	Amity Journal of Finance
37	D.Das	-do-	ACME Int. Journal of Research in Management, Soc. Sci. and Tech., Amity Journal of Finance
38	Anjan Bhuyan	-do-	Eco-Centric, Journal of Economics
39	Arup Roy	-do-	Universal J. of Accounting & Finance Horizon Research Publishing

*** faculty serving as members of steering committees of international conferences recognized by reputed organizations / societies**

S. No.	Name	Department	*Conference
1.	K. P. Sarma	Environment Science	International Conference <i>1st International Forum on Asian Water Environment Technology (IFAWET)</i> 18-20 December, 2013 JNUCC, New Delhi
2.	Manish Kumar		-do-
3.	D.K. Bhattacharyya	CSE	TPC member of Intl. Conferences: CSNT 2015, ICACCI 2015, ICNSC 2014, ICACCI 2014, ACB 2014, ICACCI 2012
4.	S. M. Hazarika	CSE	<i>European Conference on Artificial Intelligence</i> , (ECAI-2012), Montpellier, France
5.	D.C. Baruah	Energy	Committee of <i>International Symposium on Energy Engineering, Economics & Policy</i> (EEEP 2012), Florida Asst. secretary, 5 th Int. conference on solid waste management, IISc, Nov, 24-27, 2015
6.	R. Kakati	-do-	<i>International Conference On Emerging Trends In Biotechnology</i> (ICETB 2014) organized by JNU, New Delhi, 6 - 9 November, 2014
7.	D.Datta	Mechanical Engineering	Program Committee member of GECCO-2014, Vancouver, 12-16 Jul 2014. GECCO-2015, Madrid, Spain, 11-15 Jul, 2015 <i>8th Int. Conf. on Simulated Evolution and Learning</i> , 01-04 Dec., 2010 Advisory Committee member, Int. Symp. <i>On aspects of Mechanical Engg. & Tech for Industry</i> (AMETI 2014), 06-08 Dec. 2014

(*List excludes the International Conferences organized by the University, these are listed at *Section 3.1.11*)

3.4.4 Provide details of

- * research awards received by the faculty and students
- * national and international recognition received by the faculty from reputed professional bodies and agencies

Awards/recognition received by faculty members (2011- onwards):

2011 (09)

1. Prof. A. K. Mukherjee, **Visiting Scientist**, School of Biological Sciences, University of Northern Colorado, Greeley, CO, USA.
2. Prof. D. C. Baruah, **Commendation Medal** by Indian Society of

Agricultural Engineering, New Delhi.

3. Dr. Partha Pratim Dutta, **DST-SERC Fast track Youth Scientist Scheme** in the discipline of Engineering Sciences.
4. Dr. R. K. Duary, **1st Best Poster Award** at National conference organized by the Dept. of FET, Tezpur University, 14-16 Nov 2011.
5. Dr. R. K. Duary, **First Best Paper** published in Indian Dairyman by IDA (39th Dairy Industry Conference held in Salt Lake, Kolkata in 4-6 Feb, 2011)
6. Dr. Poonam Mishra, **Best oral presenter in international conference** on Food Technology at IICPT Thanjavur, 2011.
7. Dr. B.K. Kakati, **Best Paper award**, in the 3rd International Conference on Fuel Cell & Hydrogen Technology 2011, 22–23 Nov, 2011, Kuala Lumpur, Malaysia.
8. Dr. S. K. Ray, **DBT Oversea Research Fellowship** 2011.
9. Dr. Debasish Borah, Honoured with the **Award for Excellence in Thesis Work** for the year 2011-2013 for the outstanding research contribution by IIT Bombay.

2012 (15)

1. Prof. S. K. Duloi, **National Technology Innovation Award**, Department of Chemicals and Petrochemicals, Ministry of Chemicals and Fertilizer for R & D work in the field of polymer science and technology.
2. Prof. N. Karak, **Dr. Arvind Kumar Memorial Award**, Indian Council of Chemists (ICC).
3. Prof. N. Karak, **Dr. J. N. Baruah Memorial Science Award**, in Chemical Sciences, by JNBMT & Assam Science Society.
4. Dr. Manish Kumar, **Best Research Award** by the 4th Asia-Pacific Young Water Professionals (APWYP-2012), Tokyo.
5. Dr. Manish Kumar, **Young Scientist Award** (2012-2014) from the Department of Science & Technology, Govt. of India.
6. Dr. R. Barman, **Indo-Australia Visiting Fellowship** (2012-13), INSA (not availed)
7. Dr. S. K. Ray, **Visiting Scientist**, DBT Overseas Research Fellowship, CNRS-INRA, Castanet-Tolosan, France.
8. Prof. P. K. Das, **Fulbright-Nehru Research Fellowship**, Fulbright Foundation at Harvard University.
9. Prof. R.C. Deka, **Dr. J. N. Baruah Memorial Science Award**, in Chemical Science, by JNBMT & Assam Science Society.
10. Dr. U. Bora, **INSA Visiting Fellowship**.
11. Dr. A. Ramteke, **DBT Overseas Research Fellowship**.
12. Dr. S.K. Ray, **Visiting Scientist**, DBT Overseas Research Fellowship CNRS- INRA, Castanet- Tolosan, France.
13. Dr. R. K. Duary, **Second Best Paper** in Young Researchers group at 1st Annual Conference along with An International Symposium on Probiotics for Human Health-New Innovations and Emerging Trends, Probiotic Association of India (PAI), 27-28 Aug, 2012, New Delhi.

14. Dr. R. K. Duary, **Jawaharlal Nehru Award for P.G. Outstanding Doctoral Thesis Research** in Agricultural and Allied Sciences by Indian Council of Agricultural Research, 16 July 2012, NASC Complex ICAR, Delhi.
15. Prof. Mihir K. Chaudhuri, American Chemical Society Green Chemistry **Distinguished Lecture Award**.

2013 (17)

1. Prof. R. Sirohi, **Distinguished Alumni Award, IIT Delhi**.
2. Prof. R. C. Deka, **Bronze Medal**, Chemical Research Society of India (CRSI).
3. Prof. R. C. Deka, **Professor H. C. Goswami Award** by Assam Science Society.
4. Dr. A. Ramteke, **Visiting Scientist**, Department of Pharmaceutical Sciences, University of Colorado, Denver, USA.
5. Dr. U. Bora, **JSPS Bridge Fellowship awarded** by Japan Society for the Promotion of Science.
6. Dr. P. Bharali, Appointed **Associate Editor** of Journals International Journal of Chemical Research.
7. Prof. N. Karak, **3rd National Award for Technology Innovation for Research** in the Field of Polymer Science & Technology by Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers.
8. Dr. M. Mandal, **DBT Overseas Research Fellowship**.
9. Prof. A. K. Mukherjee, **Unit of Excellence Award** in NER.
10. Dr. R. Mukhopadhyay, **Unit of Excellence Award** in NER.
11. Dr. S. K. Ray, **Unit of Excellence Award** in NER.
12. Prof. S. M. Hazarika, **Best Paper Award** in Advances in Robotics (AIR – 2013), Int. Conf. of the Robotics Society of India, co-author: N. M. Kakoty.
13. Prof. D. K. Bhattacharyya & Prof. N. Sarma, Elected **IETE Fellow Member**.
14. Prof. P. P. Sahu, **INSA Teacher Award**.
15. Prof. P. P. Sahu, **IEEE Senior Member Award**.
16. Dr. Nayan M. Kakoty, **Best Poster Award**, International Conference on Advances in Robotics 2013, Robotics Society of India, ACM Publication.
17. Mr. Satadru Kashyap, **DST-SERB Fast Track Young Scientist Scheme** in the discipline of Engineering Sciences.

2014 (14)

1. Prof. Prabuddha Ganguli, MHRD IPR Chair Professor, **Lifetime Achievement Award in IPR**, by Legal Era at National IPR Conclave.
2. Prof. R. S. Sirohi, Chandra S. **Vikram Award**, SPIE (International Society for Optical Engineering), USA.
3. Dr. Suman Dasgupta, **Innovative Young Biotechnologist Award (IYBA), 2014**, Department of Biotechnology (DBT), New Delhi.
4. Dr. Pritam Deb, **UGC Research Award** for the period 2014–16.

5. Prof. Mihir K. Chaudhuri, Vice Chancellor, **Shikhya Guru Award** by the Sanskritik Samaj.
6. Prof. A. K. Mukherjee, **National Biosciences Award for Career Development-2013**, Department of Biotechnology, Ministry of Science and Technology.
7. Dr. Anup Kumar Nath, **UGC-DAAD Exchange of Senior Scientist**, UGC-DAAD to visit University of Hamburg and the Max Plank Institute for Evolutionary Anthropology.
8. Prof. N. Karak, **Material Research Society of India Medal**.
9. Prof. A. K. Mukherjee, **Sreenivasaya Memorial Award**.
10. Prof. Rajpal S. Sirohi, LGB Chair Prof., Received **Vikram Award** by International Society for Optical Engineering (SPIE) USA, February, 2014.
11. Prof N. Sarma & Mr. S. K. Deka, **Amiya K Pujari Best Paper Award** in 13th IEEE International Conference on Information Technology (ICIT 2014) ICIT,
12. Dr. S. Roy, S. Konwar, T.B. Singh, **Special Mention Award IEEE 2014**, International Conference on Information Technology, ISI Kolkata.
13. Dr. S. Sharma, A. Saikia, K. Baruah, **Best Paper**, International Conference on Emerging Trends in Electrical, Electronics, Instrumentation & Computer Engineering (ETEICE) 27 March, 2014.
14. Dr. R. K. Duary, **Young Scientists Research Grant** by Science & Engineering Research Board (SERB), DST (Department of Science & Technology, Government of India), 2014.

2015 (6)

1. Dr. Ashwini K. Phukan, **Chemical Research Society of India (CRSI) Bronze Medal**, year 2015.
2. Dr. Shuvam Sen, **INSA Visiting Fellow, 2015**.
3. Dr. Hemjyoti Medhi, **Charles-Wallace Fellowship**, Charles-Wallace Foundation to visit School of Oriental Studies, UK.
4. Mr. Munish Manas, **Best Paper Award**, Power & Energy Track, IEEE International Conference CICT-15, ABES Ghaziabad.
5. Prof. D. C. Baruah, **Eminent Engineering Personality**, The Institution of Engineers.
6. Prof. K. K. Baruah, **J. C. Bose Gold Medal Award**, The Indian Society for Plant Physiology.

3.4.5 Indicate the average number of successful M.Phil. and Ph.D. scholars guided per faculty during the last four years. Does the university participate in *Shodhganga* by depositing the Ph.D. theses with INFLIBNET for electronic dissemination through open access?

Tezpur University has no M. Phil. programme.

*Total Ph.D. scholars guided (2011-2015): 170 (*upto 31.03.15)

Total recognized faculty supervisors: 145 (Inducted during 2011-15 is 59)

Year	No. of Faculty as recognized supervisors (newly inducted)	No. of Ph.D. Awarded
2011-12	99 (13)	35
2012-13	112 (13)	31
2013-14	137 (25)	48
2014-15	145 (8)	56
Total	145	170

Tezpur University participates in **Shodhganga** by depositing the Ph.D. theses with INFLIBNET. As on 31.03.15, the number of theses submitted to Shodhganga is 280 (including all of 170 above)

3.4.6 What is the official policy of the university to check malpractices and plagiarism in research? Mention the number of plagiarism cases reported and action taken.

The University has introduced a policy that

- Every Ph.D student has to submit the Percentage Similarity Test report at the time of submission of his/her thesis and upper limit for the same has been fixed.
- The University has provided anti-plagiarism software (Turnitin and iThenticate) for checking the plagiarism in the thesis/dissertation.
- The Scholar is to give a pre-submission presentation in the department before submission of the thesis and malpractice, if any, gets a check in this stage.
- Further, the theses are sent to two external examiners-one from India and the other from abroad for verification and evaluation.
- Plagiarism, if any, may be detected in any stage throughout these steps of evaluation.

Number of plagiarism cases detected/reported: 01

(M. Tech in Energy Technology dissertation)

Action taken: Degree was withdrawn vide BOM resolution no. B.66/2012/3/3.3 dated 29.6.2012 after detailed examination by a committee and following due procedure.

3.4.7 Does the university promote interdisciplinary research? If yes, how many interdepartmental / interdisciplinary research projects have been undertaken and mention the number of departments involved in such endeavours?

Yes.

Number of projects: 14

Number of Departments: 07

Details are given in Volume-II B.

3.4.8 Has the university instituted any research awards? If yes, list the awards.

The University has instituted the following two categories of awards.

- I. Anniversary Teacher Award (Assistant Professor category).
- II. Anniversary Teacher Award (Associate Professor category).

The awards are proposed to be given school wise in the Foundation Day celebration of the university every year.

3.4.9 What are the incentives given to the faculty for receiving state, national and international recognition for research contributions?

- The faculty members are felicitated in various academic forums.
- The information is uploaded in the university website and published in the University Newsletters for full dissemination.
- In house research awards have been instituted.
- The names are announced in Academic Council and BoM meetings.

3.5 Consultancy

3.5.1 What is the official policy of the university for structured consultancy? List a few important consultancies undertaken by the university during the last four years.

Tezpur University has a proactive policy for encouraging consultancy by the departments with defined guidelines for implementation of consultancy projects by individual faculty member and/ or a department.

Guidelines for Consultancy Services of the University are attached as **Annexure-II**.

Following are some of the consultancy works undertaken by the university departments during the last four years (name of the department in bracket):

- Monitoring of Remote Village Electrification Programme, Department of Forest, Government of Assam. (Energy)
- Development of Software Application of Assam Police, Government of Assam. (Computer Science and Engineering)
- Verification of Structural Stability of Bunkers at 235 Engineer Regiment, Indian Army. (Civil Engineering)
- Consultancy for M/S Asian Paints Ltd, Mumbai. (Chemical Sciences)
- Consultancy for Power Grid Corporation of India Ltd. (Civil Engineering)
- Technical Evaluation of Samples of Tablet Computers/Laptops for Anundoram Barooah Award and CM's Special Scheme, Govt. of Assam. (Computer Science and Engineering)
- Consultancy work for M/S NF Railway, N. Lakhimpur. (Civil Engineering)
- Training Needs Analysis, Assam Cooperative Jute Mills Ltd., Public Enterprise Department, Govt. of Assam (Business Administration)

- Evaluation Study on MGNREGA in districts under the Autonomous Council of NE States in Assam, Meghalaya and Tripura, Planning Commission, GOI (Business Administration)
- Implementation of PRP based performance management system, Assam Gas Company Ltd., Duliajan and Assam Petrochemicals Ltd., Namrup (Business Administration)
- Food analysis, CIT, Kokrajhar, Shiv Yog Forum, Guwahati

Detailed list of consultancy work done by the University during the last four year are provided in **Annexure-III**.

3.5.2 Does the university have a university-industry cell? If yes, what is its scope and range of activities?

The University established its **Industry Institute Partnership Cell (IIPC)** with a fund granted by AICTE in the year 2009-2012. The cell had taken up the following initiatives to give exposure to the students and faculty members to industries. This Cell is now merged with the CIIE.

A. Centre for Innovation, Incubation and Entrepreneurship (CIIE)

The CIIE was established in September 2013 which was formed after merging the Entrepreneurship Development Cell (EDC) and Industry Institute Partnership Cell (IIPC) which were initially funded by the AICTE. Additional fund is provided by the university.

Objectives

- Creating awareness among the students of the University and the educated unemployed youths of Northeast India regarding entrepreneurship as a career option.
- Conduct training programmes in the field of entrepreneurial skill development.
- Develop entrepreneurship related course curriculum to incorporate in management and engineering programmes.
- Provide guidance and facilities to first time entrepreneurs during gestation.
- To explore the possibility of commercialization of some of the potential technologies developed by faculty members and students of TU.
- To form a Technology Development group in TU from enthusiastic passed out students of TU and thereby motivating for self-employment.
- To encourage and mentor grass root innovators through CIIE expertise

Scope and range of activities

• Workshop Facilities

The following machineries have been installed in the centre for performing student project and innovative designs:

- Arc welding and Tug welding machine with welding accessories
- Hand drill and Portable pillar drill with motor & Choke

- Angle grinder, Chop saw, Bench grinder and Grinding stone
- Spray machine, Electric blower, Envil.

In addition to this the Departments of Mechanical Engineering and Electronics & Comm. Engineering have the workshop facility for student projects.

Projects undertaken

List of sanctioned projects granted by Micro Small and Medium Enterprises (MSME), Govt. of India for the financial year 2014-16:

Sl. No	Name of the Incubatee	Details of Idea/ Projects	Sanctioned amount (₹ in Lakh)
1	Mr Arun Jyoti Saikia	Design of a dehulling/deseeding machine for all types of oil bearing seeds	5.20
2	Mr Dhrubajyoti Das	Design, development and testing of a green fuel powered energy efficient vehicle	6.25
3	Imdadul Hoque Mondal	Production of natural antioxidant enriched sandesh using single screw extruder	6.25
4	Mr Bitu Jyoti Doley	Development and fabrication of small capacity paddy parboiling system with process completion indicator ahead of onset of husk splitting	5.50
5	Mr Champak Talukdar	Portable peripheral Nerve testing instrument	5.90
6	Mr Paban Kr Laskar	Polluted Air purification machine	2.50
7	Dr Uddhab Bharali	Low cost and user friendly portable LIFT for home – for ELDERLY PERSON and PATIENT	6.25

- **Encouraging Local /Grass root Innovators**

Mr Biswajit Nath, P.O. Jahamari, Dist-Sonitpur has designed a bicycle with double wheel chain system which runs faster than a normal bicycle. CIIE, TU take the initiative to encourage the person for his innovation and motivated him for his future work. The bicycle has also been taken by the TU. It is preserved in the Central Workshop TU.

- **New Project**

Use of coconut fibres for making floating garden in lakes - Dr Uddhab Bharali, Innovator and Visiting Director, CIIE

- **Showcase of developed Technology**

To explore the possibility of commercialization of some of the **potential technologies** developed by faculty members and students of TU which are displayed in a **Technology Display Hall** (TUNNOVATION). The following technologies and antiques have been displayed:

Low cost and user friendly portable lift for home for elderly persons and patients.

- A de-seeding machine for bio-fuel applications
- Mechanised paddy thrasher
- Motorised tri-cycle
- Automated public toilet flusher
- Hand-held Tea tasting instrument
- Electric Car
- Chilli gun for self-protection
- Cultural antiques of North East (Musical instruments, Masks and Terracotta)

• **Training program conducted by EDC**

Sl. No.	Name of the programme	Participants	Period
1	Training Programme on Computerised Reservation System	University students	26-27 Feb, 2011
2	Training Programme on Setting up Small Scale Industrial Unit in Collaboration with District Industries and Commerce Center	Students and local youths	8-11 March, 2011
3	Training on Regulation and Operation of Airlines Reservation System	University students	25-26 Feb, 2012
4	Employment Generation Programme	College, university students and local youths	1-3 March, 2012
5	Skill Development Programme	College, university students and local youths	25-27 Apr, 2012

• **Training programme conducted by CIIE**

1	Skill development for Aluminum Building Structure Fabrication	Unemployed youths of Amolapam Village near to the university	21-23 March, 2015
2	Brain Storming Session for MSME projects	Incubatees and Mentors of MSME funded projects	21 March, 2015

• **Participation in national forum**

Two members of the university participated in the *Innovation Meeting of Innovation Clubs* on 10th March, 2015 at RB Cultural Centre, Rastrapati Bhawan, New Delhi.

3.5.3 What is the mode of publicizing the expertise of the university for consultancy services? Which are the departments from whom consultancy has been sought?

The qualification and expertise are uploaded in the university Website for information of all concerned. In case of expression of interest/ search of

experts by any concern, the university administration provides the necessary interface to materialize consultancy services.

Following are some of the departments from which consultancy services have been sought (PI also refer to 3.5.1)

1. Dept. of Business Administration
2. Dept. of Civil Engineering
3. Dept. of Computer Science and Engineering
4. Dept. of Energy
6. Dept. of Chemical Sciences
7. Dept. of Food Engineering Technology

3.5.4 How does the university utilize the expertise of its faculty with regard to consultancy services?

The Faculty members having expertise are encouraged to undertake consultancy services. Faculty members lend their expertise to various government departments/ agencies or public sector undertakings in different projects under its consultancy services. Moreover, consultancy projects augment the university resources, promote university academy alliance and contribute to the social development. The faculty members also gain further experience while carrying out these services which in turn benefit the students. An inventory is maintained in the Office of the Dean- R & D.

3.5.5 List the broad areas of consultancy services provided by the university and the revenue generated during the last four years.

Broad and indicative areas of consultancy services:

1. Training of personnel in computer skills/ management practices
2. Socio-economic survey
3. Third party monitoring of rural electrification programmes
4. Geotechnical investigations/ structural designs,
5. Testing building materials and samples
6. Environmental studies
7. Chemical Sciences: Development of heavy duty coating materials
8. Testing and analysis of Food and Beverage items

Total revenue generated during the last four years is ₹ 35,95,410/- (*Rupees Thirty Five Lakh Ninety Five Thousand Four Hundred and Ten*) only.

(Details can be found in **Annexure-III**)

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the university sensitize its faculty and students on its Institutional Social Responsibilities? List the social outreach programmes which have created an impact on students' campus experience during the last four years.

Students, faculty and staff get the opportunity to interact with leading social

activists and organizations which help in sensitizing them of their social responsibility as a part of the institution. University Students, Research Scholars and Teachers volunteer to teach some subjects (Mathematics, Science and English) in the schools where there is a shortage of teachers. As part of this venture, 21 student volunteers are nominated by the University in 2014 to teach Mathematics and Science in ABM High School, Jaroni, Sonitpur, Assam.

The active participation and effort of faculty, staff and students under the aegis of different forums in various socially useful activities such as Cleanliness Drive, Blood Donation camps, Flood relief exercises, awareness programmes on different aspects of education, improvement in hygiene of living etc. have helped considerably in this regard.

Indicative list of social outreach programmes undertaken by the university which have created impact on students is as under:

- Training programmes and relief activities are carried out by the Equal Opportunity Cell (under the umbrella of the Center for Inclusive Development) for various marginalized sections.
- Outreach activities by the faculty members and students in nearby schools for generation of awareness for higher education
- Regular involvement of university faculty, staff and students for providing emergency assistance to the distressed people in the nearby area during flood. It is a major exercise involving mobilizing manpower and resources during distress and Tezpur University community has rendered exemplary service.
- National integration camps, plantations, Blood donation, cleanliness exercises, literacy programmes by the NSS and NCC units of the university
- Organizes visits of various schools and colleges from all over the state to the campus on a general educational tour. University provides accommodation facilities on request. Faculty and students of the university provide awareness and motivational inputs to the young students.
- On occasions such as the Science Day, University Foundation Day, nearby schools and colleges are invited to participate in various programmes organized by the students of the university.
- Cleanliness drive is conducted outside the campus under the aegis of NSS unit of the university.
- Local people, including women are accommodated on the campus for installation of shops/ stores and other business counters.
- Youths, including girls are trained for various handicraft production and sale counters are provided in the shopping complex on the campus.
- CIIE mentors grassroot innovators with necessary infrastructural support.
- Adoption of villages (Amolapam and Jawani) as model villages.
- Conducted of research outreach cum field demonstration (Technology dissemination) under UGC-UKIERI project in Amolapam village.
- Construction of toilet in a nearby village
- Crematorium in the university neighbourhood
- Construction of entrance gate, chain-link fencing and drinking water facility

in a nearby school

- Highlighting a notable success of a TUIPR Cell initiative, as many as 92 applications for registration as authorized users of Muga GI received approval. It may be noted that though Muga (a type of indigenous Assam silk) was given GI status in 2007, earlier there was just one authorized user of Muga GI in the entire state of Assam. This huge success was the outcome of a single workshop organized in North Lakhimpur, a remote District in Assam in April, 2015 and the subsequent follow up by the Cell.

3.6.2 How does the university promote university-neighborhood network and student engagement, contributing to the holistic development of students and sustained community development?

Tezpur University puts high emphasis on the holistic development of students. Alongside their curricular assignments, the students are engaged in various community development services in the neighbourhood areas such as taking voluntary tutorial classes for those appearing at the board/council examinations, career counselling sessions, organizing participatory campaigns on health and hygiene (Swachh Bharat Abhiyan), organizing awareness campaigns on child rights, right to education and women empowerment, etc. to name a few. The hands-on experience earned from such activities helps in a big way not only in building up a positive outlook in the students, but also to develop a socially sensitive leadership quality.

The university conducts periodical meetings with the representatives of the neighbourhood, including elected members of the civic bodies, to discuss various issues pertaining to peaceful living together. The Vice Chancellor chairs the meetings.

3.6.3 How does the university promote the participation of the students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International programmes?

The Co-ordinators of NSS and NCC holds awareness programme amongst the students to motivate students to these programmes. A kiosk is also set up at the admission venue for fresh students' enrolment to these programmes. In addition, we have hosted three National Integration Camps of NCC on our campus till date. Similar event of NSS has been organized from time to time. These have worked as motivation drive for our students to participate in these programmes. Further, add-on Credit courses in NCC has been introduced. In addition, certificates are issued to the students for participation in NSS and NCC programmes/ activities which attracts students for these programmes.

3.6.4 Give details of social surveys, research or extension work, if any, undertaken by the university to ensure social justice and empower the underprivileged and the most vulnerable sections of society?

University has carried out several *social surveys, research or extension work* on various social factors of some villages to study the factors related to their

backwardness and to help the villagers for improvement in livelihood. Some of these are:

1. NSS volunteers together with the students of the Department of Sociology conducted several programmes pertaining to cleanliness drive, awareness camp on drinking water and sanitation, National Education Day, National Children's Day, Rashtriya Ekta Divas, Swatch Bharat Abhiyaan, Voter awareness campaign etc. in Tezpur University and some nearby villages as part of village adoption programme of the University.
2. Jawani Village by the Department of Energy for providing self-sustained non-conventional energy and other resources for integrated improvement of the villagers.
3. Conduct of research outreach cum field demonstration (Technology dissemination) under the ongoing UGC-UKIERI project Amolapam village.
4. Youths, including girls from the villages in the vicinity (Napam, Amolapam) are trained for various handicraft production and sale counters are provided in the shopping complex on the campus.

3.6.5 Does the university have a mechanism to track the students' involvement in various social movements / activities which promote citizenship roles?

Tezpur University promotes students participation in social issues through a channelized way. Any student who is interested to participate in such event applies for permission to the DSW and DSW, looking in to the merit of the event and strength of the intending student, recommends for such participation. On many occasions, Students' Council, Students' Science Council, NCC, NSS, members of outreach programmes participate in such events and these are monitored by the DSW.

3.6.6 Bearing in mind the objectives and expected outcomes of the extension activities organized by the university, how did they complement students' academic learning experience? Specify the values inculcated and skills learnt.

The extension activities organized by the university strongly complement students' academic learning experience. Often it complements their experience by providing them a platform where the students can apply their knowledge and skills. It immediately connects them to the values of concern for all and the idea of inclusive development. They also experience satisfaction by connecting and serving the society that empowers them. Their interpersonal skills as well as application skills in their domain are specially augmented. More importantly they also learn to take initiative and acquire invaluable problem solving skills as well as skills of adaptation.

The students get a first-hand idea of the societal needs which in turn help them in articulating their future plans.

3.6.7 How does the university ensure the involvement of the community in its outreach activities and contribute to community development? Give details of the initiatives of the university which have encouraged community participation in its activities.

Tezpur University is located in a rural area. The Committee for Outreach programme of the University makes survey on various aspects of societal needs of the surrounding villagers. On the basis of the findings of these surveys and discussions with the leading citizens of these villages, the committee prepares roadmap with timeline for various outreach programmes. These programmes include awareness on health and hygiene including sanitation, schooling of children, attending to school dropout problem, skill development and entrepreneurship, use of local resources for gainful livelihood, etc. The University also caters to the requirement of part time teaching in nearby schools where there are specific needs of teachers (e.g. Science, Mathematics, English teachers). Researchers and teachers of the University also act as mentors and counsellors for the upcoming students for their career guidance. At many times, University also receives specific requests from the villagers of the neighbourhood which are taken into consideration at appropriate level.

To make these attempts successful, University maintains a cordial relationship with the citizens of the neighbourhood. Representatives and leading citizens of the neighbourhood, including elected members of civic bodies are frequently consulted by the University on various aspects of extension activities for successful implementation. In this process community involvement is ensured.

3.6.8 Give details of awards received by the institution for extension activities and/contributions to social/community development during the last four years.

None

3.7 Collaboration

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

The collaboration of the University with various scientific and cultural agencies has profoundly impacted the visibility, identity and diversity of activities on campus.

As regards collaboration with various agencies supporting research and extension activities, the university has been able to benefit itself academically, financially as well as its reaching out effort to the society.

Depth and diversity have resulted in infrastructure as well as research contribution because of this cooperation. Many students who have worked on these projects have successfully completed their doctoral work leading to their doctoral degree. Besides it has enhanced the interpersonal skills of both

students as well as of the faculty members.

Collaborations with agencies like UNICEF for providing Diploma in Child rights and joint organizations of Seminar/ workshop have indeed impacted the visibility and diversity of activities on campus. Besides, close collaboration with the District and State Administration too have enlarged the range of societal linkages of the University community. Programmes like Diploma in Chinese language have enabled us to serve the defence sector of our nation.

The university has been benefitted both financially and intellectually from its collaboration with Central Road Research Institute, ONGC, UNICEF, VINATI Organics, Keiser Fluid and T & I, for instance.

S. No.	Organization	Benefit
1	T & I Ltd.	Institution of T & I Gold Medal for Best Graduate
2	ONGC	ONGC-Centre for Petroleum Biotechnology (to conduct research on diverse fields of petroleum Biotechnology)
3	Vinati Organics	Institution of Industry Chair Professor
4	UNICEF	Workshops and Projects
5	Keiser Fluids	Joint R & D

In short, the collaborative efforts with other agencies have significantly lent extra edges to our visibility, identity and diversity.

3.7.2 Mention specific examples of how these linkages promote

* Curriculum development

Course curriculums are designed as per requirement of the collaborators or the market as recommended by the collaborators. For example, syllabus of Diploma in Chinese Language is designed as per requirement of Indian army. Similarly, the course syllabus for Diploma in Child Rights is as per requirement of the UNICEF. Some courses in Business Administration are designed considering the feedback of industry representatives like Numaligargh Refinery Ltd. and Power Grid Corporation Ltd. In addition, many academic programmes are guided by the input from our collaborators, including industries. For example, input from collaboration in Community College has helped in developing the course curriculum for the Diploma in Paralegal practice.

* Internship

Many collaborators accommodate Tezpur University students for their internships on mutual agreement. These internships are linked with the domain of the collaborators as well as discipline of the students concerned.

(These are detailed in departmental reports item No. 28)

*** On-the-job training**

Though limited, job trainings are offered by many collaborators, like NIRD & PR, IITG, Baptist Christian Hospital Tezpur, SG Law plus.

*** Faculty exchange and development**

Tezpur University has exchanged faculty with University of Nottingham, United Kingdom (Prof. D. C Baruah, Dept of Energy); Yunnan University of Finance and Economics, China (Prof. P. K. Das, Dept of EFL); University College London (Prof. R. C. Deka, Dept of Chemical Sciences); These visits were as part of collaborative projects or MoUs. As the part of exchange between Tezpur University and University of Tokyo which is based on a DST - JSPS project, Prof. Takashi Onaka and Dr. Itsuki Sakon visited Tezpur University in Dec. 2014. Dr. Amit Pathak and Dr. Rupjyoti Gogoi visited University of Tokyo in January, 2015. Ms. M. Buragohain visited University of Tokyo in August, 2015. Dr. Itsuki Sakon and Mr. Aaron Bell again visited Tezpur University during Nov-Dec, 2015.

*** Research**

Tezpur University conducting many research projects in collaboration with ISI, NIRD & PR, North Eastern Space Applications Centre (NESAC), CSIR Centre for Mathematical Modeling and Computer Simulation (C-MMACS), Bangalore, University Politecnica of Bucharest, Romania, Department of Biotechnology (DBT), Government of India, New Delhi. These collaborations have led to new direction in research areas: like DBT's collaborations have led to new investigation in cancer related research; NIRD's collaborations have led to take up new studies in children's health care, etc.

*** Publication**

On the sidelines of its collaboration with TU on research and development activities, the ONGC Ltd. has agreed to contribute a major part of the cost on publication of the second enlarged edition of "*Chandraprabha Saikiani: A Collection of Articles*", a publication of Tezpur University. Books on birds and trees of Assam and Assamese Scientific Terminology have been published under collaboration with CSTT, Govt of India.

*** Consultancy**

Collaborations with Asian Paints Limited, ONGC Ltd have opened the door for consultancy services. Some more consultancies, like Star cement, Planning Commission (NITI Ayog) are also in the finalization stage.

*** Extension**

Tezpur University (TU)'s collaboration with the national Institute of Rural Development and Panchayati Raj (NIRDPR), Hyderabad, is helping the University in preparing its plan to develop the villages adopted by it. The NIRDPR through its North-East Centre located in Guwahati has been acting as a consultant institute in other similar programmes of the University as well.

*** Student placement**

The University has entered into collaboration with Public Sector Undertakings and private organizations like the Numaligarh Refinery Ltd. (NRL), Oil India Ltd. (OIL), Oil and Natural Gas Corporation (ONGC) and Tata Consultancy Services (TCS) on various research and development related activities. Apart from the core areas of collaboration, these organizations have also taken interest in recruiting the students of TU based on their first-hand experience with the activities of the University.

*** Mobility and Exposure**

Research collaborations have helped improve mobility and exposure of faculty members and students. It has also facilitated a good number of visitors in the form of faculty members, researchers and corporate personnel from other institutes and concerns. Due to the collaborations, the teaching and research base have expanded significantly, which in turn helped immensely to promote the above mentioned aspects.

3.7.3 Has the university signed any MoUs with institutions of national/international importance/other universities/ industries/ corporate houses etc.? If yes, how have they enhanced the research and development activities of the university?

Following is the list of Memorandums of Understanding (MoUs) of Tezpur University with other Universities/Institutions.

Sl. No.	Name of the University/Institution	Date of Execution
*1	Rajiv Gandhi University, Arunachal Pradesh	21/03/2006
2	Guwahati Neurological Research Centre (GNRC)	16/08/2007
*3	North Eastern Space Applications Centre (NESAC), Umiam, Shillong, Meghalaya	26/05/2008
*4	University Politehnica of Bucharest, Romania	31/07/2009
*5	CSIR Centre for Mathematical Modeling and Computer Simulation (C-MMACS), Bangalore	12/08/2009
*6	Department of Biotechnology (DBT), GOI	31/03/2010
*7	The University of Nottingham, United Kingdom	31/08/2010
*8	Indian Statistical Institute (ISI), Kolkata	05/12/2010
9	Oil and Natural Gas Corporation Limited	23/03/2011
10	University of Bremen, Germany	10/08/2011
11	Yunnan University of Finance & Economics, China	12/02/2013
12	Asian Paints Limited	28/06/2013
13	Kaiser Fluids Inc., Bangalore	28/08/2013
14	National Institute of Rural Development & Panchayati Raj, Hyderabad	10/08/2014
15	National University of Science and Technology MISiS,	1/10/2014

Sl. No.	Name of the University/Institution	Date of Execution
	Russia	
16	Assam Don Bosco University	17/10/2014
17	Earth Networks Inc., USA	22/11/2014
18	University of Science & Technology, Meghalaya	13/12/2014
19	Maulana Abul Kalam Azad Institute of Asian Studies (MAKAIAS), Kolkata	17/04/2014
20	Sardar Swaran Singh National Institute of Renewable Energy (SSS- NIRE)	22/07/2014
21	Central Building Research Institute (CBRI), Roorkee	05/08/2014
22	Centre for Development of Advanced Computing (C-DAC), Pune	28/01/2015
23	Russian State University, Moscow	11/02/2015
24	S G Law Plus, Guwahati	26/03/2015
25	Baptist Christian Hospital, Tezpur	27/04/2015
26	M/S Vinati Organics Ltd.	24/08/2015

*completed

The MOUs have substantially contributed towards mutual growth as can be seen in the collaborative research output as well as other academic activities.

3.7.4 Have the university-industry interactions resulted in the establishment / creation of highly specialized laboratories / facilities?

The following centres/facilities have been created:

1. ONGC Centre for Petroleum Bio-technology (CPB). Established 1999. Created for conduct of research in the field of Bio-technology.
2. Microsoft Innovation Centre (MIC): Established in September 2013, under the aegis of Microsoft India. A training room, a laboratory and a Video-conferencing facility have been created under MIC.
3. A museum has been established in the department of Cultural studies with the collaboration of the Ford Foundation.
4. Collaboration with M/S Vinati Organics, Mumbai has helped to institute an Industry Seat in the department of Chemical Sciences.



Criterion IV
INFRASTRUCTURE AND LEARNING
RESOURCES



CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES**4.1 Physical Facilities****4.1.1 How does the university plan and ensure adequate availability of physical infrastructure and ensure its optimal utilization?**

Since its inception, Tezpur University has taken a careful approach to develop its physical infrastructural facilities for all round development. The University, through brainstorming sessions prepares its Vision Document which aims for a synergized and sustained growth of the university for a longer period. On basis of the Vision document, the University prepares perspective plan for a limited period which is usually five years. University's plan proposals are also, as much as possible, based on such perspective plan.

Owing to its strategic planning of ensuring the physical infrastructure, Tezpur University has successfully developed adequate infrastructure in terms of class rooms, laboratories, seminar halls, video-conferencing facility, library, computer centres, auditorium, sports facilities, gymnasium etc. for accomplishment of quality teaching-learning and holistic self-development of its students. It has also been able to build residential accommodation facility with modern amenities such as 24x7 (DG backup) Water Supply system, shopping complex, cafeterias, day care centre, campus schools from Nursery to Senior Secondary level. At the current point of time, Tezpur University has been able to provide hostel accommodation facility to all its students and residential accommodation for most of its teaching and non-teaching staff.

The requirement of augmentation of the existing physical infrastructure in accordance of its extension plan is proposed by the concerned department or unit. The proposals are reviewed and the overall development is monitored by the Planning Board and the Board of Management under the Chairmanship of the Vice Chancellor. There are also various committees assigned to space allocation for construction purpose and other related tasks. These seek to keep a balance between the infrastructure requirement and maintaining the fragile environment at the same time.

The University advocates optimal use of its infrastructural facilities and the responsibility of their use and maintenance is entrusted upon the respective departments/units or designated officers. The class rooms and seminar facilities are shared across departments, centres and schools. The sharing is coordinated at the level of Heads and Deans of Schools. Sharing of some of the facilities are co-ordinated by the Estate section of the administration.

The university rents out its Auditorium, Guest House facilities, hostel accommodation, sports facilities, seminar facilities and other installations to other organizations without disrupting its own activities.

4.1.2 Does the university have a policy for the creation and enhancement of infrastructure in order to promote a good teaching-learning environment? If yes, mention a few recent initiatives.

Though there is no formal policy, the university has a policy to support all academic activities with suitable accommodation and state-of-the-art facilities for desired excellent output. Departmental needs are invited in the beginning of each financial year/ plan and development of infrastructure are decided accordingly. Plan proposals are prepared by a central committee involving all Heads of Departments/ Centres/ and Deans of Schools. The university tries to update its infrastructure so as to provide sufficient space and facility for growth of its academic departments, create sufficient accommodation provision for the students as well as staff. The masterplan of the university campus has been prepared in consonance with its vision and mission plans.

Some of the recently completed (2011-2015) work for physical infrastructure for academic and overall growth are listed below:

Sl. No.	Project	Estimate (₹ in lakh)
1	Academic Building for Humanities and Social Sciences	5500.00
2	Academic Building for Dept of Civil Engineering	749.67
3	Extension of Academic Building for Chemical Sciences	219.06
4	Academic building for Management Sciences	199.91
5	Extension of the 3 storied Library Building	662.26
6	RCC 3 482-capacity Boys' Hostel	3504.75
7	RCC 3 300-capacity Girls' Hostel	1934.83
8	Extension of Academic Building Civil Engineering	247.60
9	Extension/modification of Student Activity Centre	11.12
10	Extension of Gymnasium in Student Activity Centre	13.14
11	Extension of VC's Board Room	38.11
12	Visitor's Room near main gate	47.67
13	School Building of the campus Kendriya Vidyalaya	1889.00
14	Residential Buildings	3864.17
15	RCC 2 storied extension of Administrative Building	126.00
16	Security Booth (5)	56.05
17	Public Toilets	12.60
18	SoE Canteen, Central workshop (Extension)	71.41

Major projects planned during 2015-16 are:

1. Construction of 102-capacity RCC 3-storied Men's Hostel sponsored by the Ministry of Social Justice and Empowerment, GoI (in progress)
2. Swimming Pool (approved by UGC and tendering is in progress)
3. Indoor Hall (under consideration of the Ministry of Sports and Youth Affairs, GoI)
4. TLC for Department of Education, funded by MHRD.

4.1.3 How does the university create a conducive physical ambience for the faculty in terms of adequate research laboratories, computing facilities and allied services?

The University has created a conducive physical ambience for the faculty by creating adequate research laboratories, computing facilities and allied services. Our University has thus created a central facility for sophisticated analytical instruments that include TEM, SEM, XRD single crystal, XRD powder, NMR, Raman Spectrophotometer, BET surface analyser etc. In addition, it has created a high performance computing facility that has helped the faculty members in the domain of computer based calculations and simulations. It has provided start up grants to new faculty members besides creating reasonable laboratory space for all. It has also ensured access to a large number of journals in the form of hard copy as well as that of e-resources.

4.1.4 Has the university provided all departments with facilities like office room, common room and separate rest rooms for women students and staff?

- All departments have office room with the required facilities
- All faculty members are allotted faculty room in the departmental arena
- Most of the departments do not have with common rooms for women students and staff; but common facilities for women are available in all departments and offices. It is worth mentioning that Tezpur University is a residential University and there is hardly any day-scholar.
- Separate rest rooms for women students and staff in all department/sections are also available.

4.1.5 How does the university ensure that the infrastructure facilities are disabled-friendly?

Tezpur University has taken care for making the infrastructure facilities to be disabled-friendly and taken care of all specific requirements raised by the Heads of Departments / Centres from time to time.

There are ramps upto the ground floor of 14 buildings including 03 hostels and 03 academic departments. The University website has been made accessible to persons with multiple disabilities. *TU At A Glance* – a booklet of the University has been published in Braille script.

Barrier free environment with provision for ramps, rails, lifts, adaptation of toilets for wheel chair users have been made in about 50% of the buildings. Same is being developed in rest of the buildings with financial assistance from the Ministry of Social Justice and Empowerment, Govt. of India.

The University also provides vehicles to students with locomotor disability for commuting to and from their classes.

4.1.6 How does the university cater to the requirements of residential students? Give details of

- * Capacity of the hostels and occupancy (to be given separately for men and women)
- * Recreational facilities in hostel/s like gymnasium, yoga centre, etc.
- * Broadband connectivity / wi-fi facility in hostels.

The university offers residential facility to all regular students admitted to its various academic programmes.

The intake capacity and occupancy (as on 31.10.15) of hostels are given below:

Women's Hostels:

	Name of the Hostel	Intake Capacity	Boarders
1	Bordoichila Women's Hostel	136	135
2	Dhansiri Women's Hostel	175	174
3	Kopili Women's Hostel	200	196
4	New Women's Hostel	138	138
5	Pragjyotika Women's Hostel	145	145
6	Subansiri Women's Hostel	198	195
7	Pobitara Madam Curie Women's Hostel	316	307
8	*Transit Women's Hostel	36	30
	Total	1312	1290

*temporary (located in staff quarters)

Men's Hostels:

	Name of the Hostel	Intake Capacity	Boarders
1	Charaideo Men's Hostel	285	269
2	Kanchanjungha Men's Hostel	420	398
3	Nilachal Men's Hostel	430	406
4	Patkai Men's Hostel	444	390
5	Saraighat C. V. Raman Men's Hostel	447	355
	Total	2026	1818

Facilities:

All modern amenities are available. These include: Network connectivity through WiFi, Television with DTH, Newspapers & Magazines, Mini canteen, photocopy facility, Indoor and outdoor games, Intercom facility, Guest Room, Music system, Washing Machine, 24 hours water supply, Spacious Rooms, modern Kitchen equipment and Dining Hall, Cycle Stand, Special filters and water coolers for drinking water, Automatic Roti making machine (housed centrally at KMH) for all hostel boarders, Solar Water Heating System at one Men's Hostel (Nilachal Men's Hostel) and three Women's hostels (Pragjyotika Women's Hostel, Bordoichila Women's Hostel & New Women's Hostel).

Bio-gas plant at one Hostel (Patkai Men's Hostel).

4.1.7 Does the university offer medical facilities for its students and teaching and non-teaching staff living on campus?

The **University Health Centre** caters medical care of students, staff and their family members through OPD and emergency services.

The Health Centre is accommodated in a 2-storied building with 10-indoor beds. Three full time doctors and 2 nurses are in service for OPD as well as emergency cases. The OPD is kept open for 4 hours in the morning and 3 hours in the evening on weekdays. On Saturdays and Sundays it is kept open for 2 hours. The University engages specialists of different disciplines (Obstetrics and Gynecology, Pediatrics and Psychiatry) for the benefit of the University community.

All students are linked with Health insurance through a General Insurance Agency. Any students admitted in any of the hospitals/ empaneled nursing homes can have cashless treatment to certain expenditure.

The University Health Centre has ECG and Ultrasound Scanning and X-ray facilities. The laboratory is also equipped with Auto-analyser and Mini-vidas for regular investigations.

The cases requiring hospitalization are referred to the Tezpur Medical College Hospital, Tezpur Civil Hospital or other recognized hospitals or nursing homes. The services of 2 ambulances are available round the clock. A stock of common medicines including life-saving drugs, and oxygen cylinders are maintained in the health centre. Routine laboratory investigations are also done free of cost. Free Annual Health checkup is provided by the Health Centre to all teaching and non-teaching staff of the university. In addition, special camps for health check-up, vaccination, etc. are also organized from time to time.

4.1.8 What special facilities are available on campus to promote students' interest in sports and cultural events/activities?

Headed by the Dean of Students' Welfare, the Assistant Director of Sports, the Sports Officer and the Cultural Officer mentor and guide the students for sports and cultural and co-curricular activities. Tezpur University has established good infrastructure and support system for sports and cultural activities. It has Cricket and Football playgrounds, Basketball Court, Volleyball Court, Lawn Tennis (Hard court) (all with evening facility), Gymnasium, Mini Indoor Stadium (Badminton, TT), Net practice facility for cricket.

The Sports Activities are organized by the Assistant Director of Sports assisted by the Sports Officer. Faculty members participate in organizing and conducting Sports events in advisory capacity and assist in the participation of students in events organized at state, regional or national levels. Coaching camps/ Training sessions are organized and coaches hired for specific events at different times of the year for benefit of the students. Various intra-hostel, inter-hostel, inter departmental tournaments as well as state and Zonal level tournaments have been frequently organized to attract the students.

Along with its sports facilities, Tezpur University provides the infrastructure to the students to pursue their cultural activities. The Cultural Officer helps the students in participating and organizing cultural events. Musical instruments

etc. are made available to the students for their cultural pursuit. Cultural events are regularly held in the university campus. Tezpur University has a SPICMACAY Heritage Club which regularly organizes cultural events under the aegis of SPICMACAY.

4.2 Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of the committee. What significant initiatives have been taken by the committee to render the library student/user friendly?

The Library has a statutory Library Committee for the management of the library.

The composition of the Library Committee is as follows:

1.	Vice-Chancellor, Tezpur University	Chairperson
2.	Pro Vice Chancellor, Tezpur University	Member
3.	Dean, School of Engineering	Member
4.	Dean, School of Sciences	Member
5.	Dean, School of Humanities and Social Sciences	Member
6.	Dean, School of Management	Member
7.	Nominee, School of Engineering, nominated by Academic Council	Member
8.	Nominee, School of Sciences, nominated by Academic Council	Member
9.	Nominee, School of Humanities and Social Sciences, nominated by Academic Council	Member
10.	Nominee, School of Management	Member
11.	Student Nominees (02)	Member
12.	Librarian	Member Secretary

Following initiatives have been taken by the Library Committee;

- Recommend for Extension of Library Building.
- Provision for photo copy service, tea and coffee for library readers at a subsidized rate.
- Extended Library hours till 12 Midnight for maximum use of the library.
- Recommend the establishment of Dept. of Library and Information Science.
- Allocation of fund from the budget of the University.
- Purchase of quality base print as well as electronic resources.
- Establishment of an Electronic Thesis & Dissertation Lab
- Establishment of Government Publication Section
- Creation of Knowledge Repository (IR) of Tezpur University
- Installing of CCTV at strategic locations

4.2.2 Provide details of the following:

* **Total area of the library (in Sq. Mts.):**

Total area: 4734 sq. m.
Main Building: 2374 sq. m.
Extension Building: 2360 sq. m.

* **Total seating capacity: 309**

* **Working hours (on working days, on holidays, before examination, during examination, during vacation)**

Working Hours of Library:

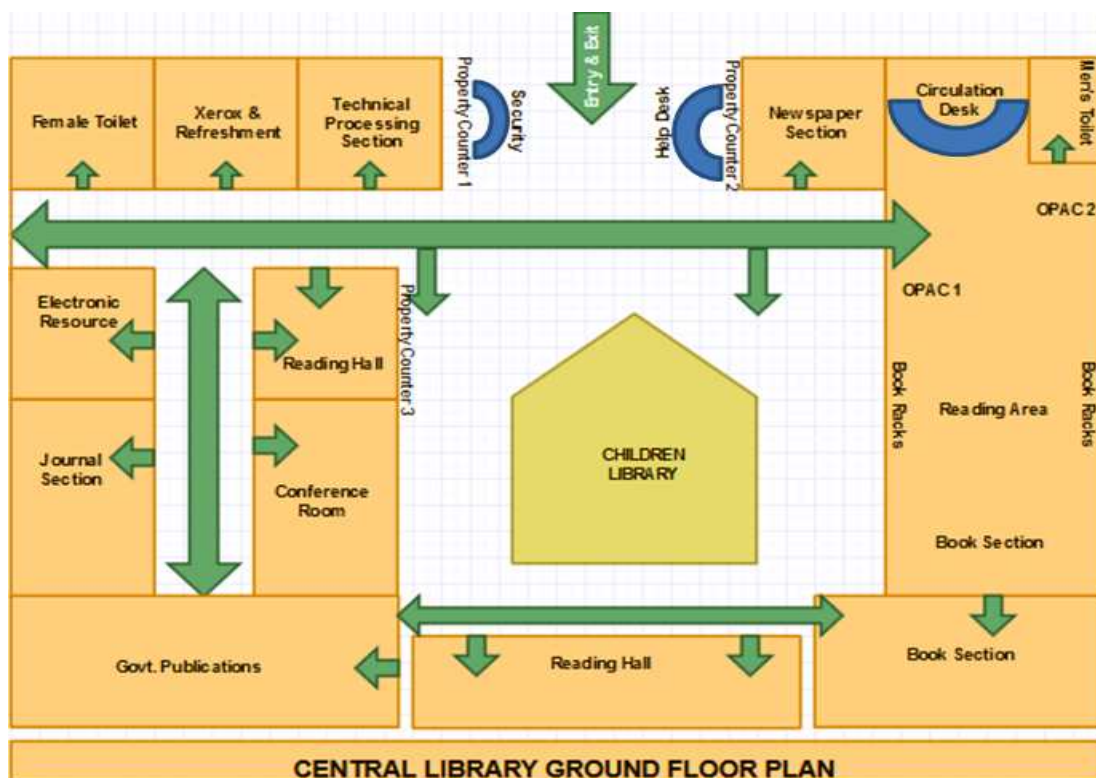
On all working days: 09:00 AM to 12 O'clock mid-night
During weekends: 10:00 AM to 5:00 PM

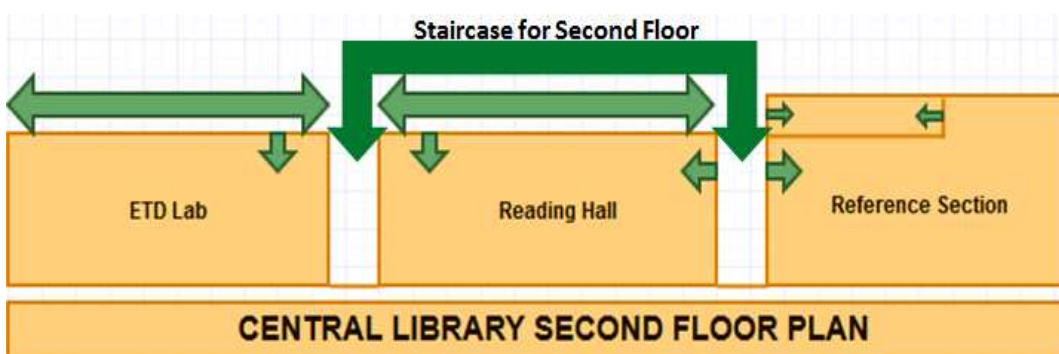
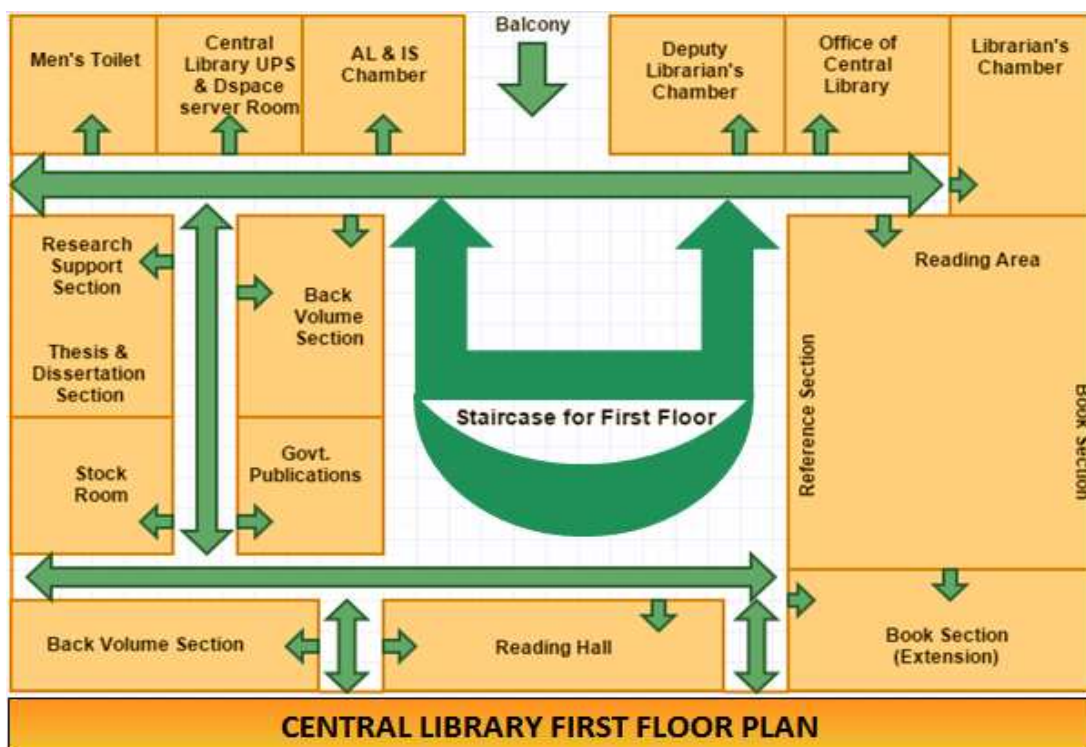
* **Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)**

* **Clear and prominent display of floor plan; adequate sign boards; fire alarm; access to differently-abled users and mode of access to collection.**

The layout is enclosed below:

Layout of the Central Library





4.2.3 Give details of the library holdings: (as on 19.11.2015)

a) Print **69482 (excluding journals)**

Books:	61284
Journals:	167
Back volumes:	7848
Thesis:	350

b) Average number of books added during the last three years

Financial Year	2012-13	2013-14	2014-15
Books added	3147	4721	4203

c) Non Print (Microfiche, AV)

CD:	1961
VCDs:	81
VHS Cassettes:	36

d) Electronic (Digital Library)

E-journals:	10488
E-Books:	500
E-Databases:	17
E-Thesis	800 (Under Shodhganga project/ INFLIBNET)
Institutional Repository Collections:	764
Consortia Members:	03

e) Special collections (e.g. text books, reference books, standards, patents):

Text books:	53859
Reference books:	7200
Standards:	193 (BIS, ASTM, IRC)
Patents:	Nil
Special Collections:	32
(Hand written diaries (original manuscripts) of Sahityarathi Lakhminath Bezbaruah)	

f) Book banks:

Book-bank facility is available for economically disadvantaged students

g) Question banks:

Not applicable continuous evaluation system is followed.

4.2.4 What tools does the library deploy to provide access to the collection?

- * **OPAC/Web OPAC :** Yes
- * **Electronic Resource Management package for e-journals:** Yes
- * **Federated searching tools to search articles in multiple databases:** N/A
- * **Library Website:** Yes
- * **In-house/remote access to e-publications:** Yes

4.2.5 To what extent is ICT deployed in the library? Give details with regard to

- * **Library automation:** Yes (LIBSYS 4.0)
- * **Total number of computers for general access:** 24
- * **Total numbers of printers for general access:** 02
- * **Internet band width speed:** 1 GB
- * **Institutional Repository :** yes
- * **Content management system for e-learning:** Under process
- * **Participation in resource sharing networks/consortia:**

Yes. Tezpur University is a member of the following consortium:

1. UGC-INFONET Consortium
2. DeLCON DBT E-Library Consortium
3. Developing Library Network (DELNET)

4.2.6 Provide details (per month) with regard to

- * **Average number of walk-ins :** 14321 (per month)
- * **Average number of books issued/returned:** 13325 (per month)
- * **Ratio of library books to students enrolled:** 22:1
- * **Average number of books added during the last four years:**

Financial Year	2011-12	2012-13	2013-14	2014-15
Books added	2535	3147	4721	4203

- * **Average number of login to OPAC:** Approx. 8932 p.m.
- * **Average number of login to e-resources:** Approx. 69000 p.m.
- * **Average no. of e-resources downloaded/printed:** Approx. 56000 p.m.
- * **Number of IT literacy trainings organized : (last 4 years):** 12

The following events have been organized by the library:

1. 2-Day in-house Training Programme on LibSys (an Integrated Library Management Software), 30 April - 01 May, 2015.
2. 1-Day Regional Training Programme cum Workshop on Shodhganga and Anti-Plagiarism Software (Ithenticate/Turnitin), 28 November, 2014.
3. User Orientation Program on Access to e-journals, 26 November, 2014.
4. Library Orientation Program for new students, 20 Aug to 5 Sept, 2014.
5. 2-Day User Awareness Programme on Access to E-Resources under UGC-INFONET Digital Library Consortium, 19-20 May, 2014.
6. Seminar on Managing Research Pathways-Searching To Discovery under Information Literacy Programme, 7 May 2014.
7. National Conference on Contemporary Issues and Challenges in Library and Information Management, 14-15 February, 2014.
8. Training on EBSCO Discovery Service (EDS) under Information Literacy Programme, 30 November, 2013.
9. Library Orientation Programme for new students (August, 2013).
10. National Workshop on Use and Awareness of E-Resources (WUAER, 2013), 25 May, 2013.
11. National Workshop on Building Digital Libraries, 8-11 October, 2012.
12. Seminar on EBSCO Discovery Service (EDS), 30 November, 2013.

4.2.7 Give details of specialized services provided by the library with regard to

- * **Manuscripts:** Nil
- * **Reference:** Yes
 - Traditional reference services such as instructing users how to use the library, answers user's queries, aids the users in selecting the library resources, promotes the library among the users community.
 - Virtual/digital/e-reference/ real-time reference services through email, sms using ICT.
- * **Reprography / scanning:** Yes, outsourcing

- * **Inter-library Loan Service:** Yes, through DELNET,
American Centre Library
- * **Information Deployment and Notification :** Yes, through Libsys,
Library Webpage
- * **OPAC/Web OPAC:** Yes
- * **Internet Access:** Yes
- * **Downloads:** Yes
- * **Printouts:** Yes, outsourcing
- * **Reading list/ Bibliography compilation:** Yes
- * **In-house/remote access to e-resources:** Yes
- * **User Orientation:** Yes
- * **Assistance in searching Databases:** Yes
- * **INFLIBNET/IUC facilities:** Yes

4.2.8 Provide details of the annual library budget and the amount spent for purchasing new books and journals

Annual budget last 4 years:

Year	Books (Amount in ₹)		Journals (Amount in ₹)	
	Allocation	Spent	Allocation	Spent
2014-15	44,00,000	41,28,885	1,25,00,000	95,54,371
2013-14	61,00,000	60,078,69	1,01,00,000	86,22,480
2012-13	150,00,000	66,92,982	90,00,000	86,22,480
2011-12	50,00,000	27,16,994	127,31,000	105,12,648

4.2.9 What initiatives has the university taken to make the library a 'happening place' on campus?

- 24/7 online access to e-resources free of cost from anywhere in the University campus. Library is open till 12 O' clock midnight for maximum use of resources.
- User friendly library website which organizes information and provide access to collections of quality resources.
- E-news circulated by the library disseminating important news and developments.
- A walk to the library is organized each year at the beginning of autumn semester when new students join the university.
- Provide positive and safe environment.
- Children Library collection - for younger children of the campus
- Conducting Seminars and Workshops for the better utilization of library resources

- Conducting Orientation programs for easy access to information.
- Organizing books exhibitions
- In-house Coffee kiosk at subsidized rate for library goers

4.2.10 What are the strategies used by the library to collect feedback from its users? How is the feedback analysed and used for the improvement of the library services?

Strategies Used by Libraries for collecting Feedback from users:

- Online feedback
- Ask Librarian- Enquiries through library website
- Suggestion Box at the entrance of the library
- Helpdesk
- Email /telephone Support
- Personal Guidance and assistance
- LibSyS Statistics/Reports
- Biannual survey

4.2.11 List the efforts made towards the infrastructural development of the library in the last four years.

Infrastructure Development:

A.

- Extension of Library Building – 3 floor with 6 sections and 3 reading halls which can accommodate another 300 users.
- Addition of Reading Hall for personal book reading

B.

- Redesign Library Website from time to time to keep it vibrant
- Creation of Institutional Repository
- Addition of E-Resource Retrieval Section with 20 PC
- Addition of Research Support Section
- Automation of Library Activities
- Use of Barcode Technology
- Back volume journal section
- Addition of Children library section
- Creation of Govt. Publications Section.
- Provide Current Awareness Service
- Provide Selective Dissemination of Information Service
- E-News Service- Daily News on Education & Research introduced
- Infogranth- Information about new books
- Infoj- Information about new issue of journals
- Extension of library hours (0900 hrs– 2400hrs)
- Installation of CCTV
- Installation of Web OPAC

- Digitization of diaries (original manuscripts) of Lakhminath Bezbaruah
- Digitization of theses and dissertations
- Establishment of Electronic Thesis and Dissertation (ETD) Lab
- Installation of anti-plagiarism software and help resources in similarity test.

4.3 IT Infrastructure

4.3.1 Does the university have a comprehensive IT policy with regard to

- **IT Service Management**

“The IT Policy”

- **Information Security**

Privacy policy and Access Control which are stated in “Access Control & Usage of IT Infrastructure” under IT Policy

- **Network Security**

Uses of Firewall, Proxy server and Antivirus. Further, additional items are covered in “Access Control & Usage of IT Infrastructure” under IT Policy

- **Risk Management**

- Periodic and scheduled backup of data in geographically separated location
- Keeping infrastructure under surveillance
- Use of fire alarm, smoke alarm, fire extinguisher
- Earthquake resistant buildings
- Physical security for theft control

- **Software Asset Management**

- Maintenance & Upgradation of software developed in-house
- 3rd party software upgradation as and when required

- **Open Source Resources**

- Network related services – Firewall, Email server, Proxy server, web server, file server and database server run on open source
- In-house developed software mostly use open source platforms

- **Green Computing**

- Obsolete equipment disposal policy in “Upgradation and disposal of obsolete or unusable IT Infrastructure” under the IT Policy
- Energy efficient equipment using low power & automatic standby mode
- Certified Environment friendly equipment
- Judicious disposal of batteries

4.3.2 Give details of the university’s computing facilities i.e., hardware and software.

- **Number of systems with individual configurations :** 1250 (Core i3/i5 Desktops with Windows 7/ 8.1)
- **Computer-student ratio :** 1:3
- **Dedicated computing facilities :** 840 PCs
- **Internet BandWidth :** 1Gbps
- **Wi-fi facility:**
Wi-Fi facility in Hostels, Residential Area and Academic Complexes
- **LAN Facility :**
Gigabit LAN covering entire Campus.
- **Proprietary software:**
Windows Vista Business, Windows 7 Pro 32/64 Bit, Windows 8.1 Pro., Windows Server 2003/2008/2012, Microsoft Office 2010/2013, Oracle 10g Suite, RHEL 3/4/5/6
- **Number of nodes/ computers with internet facility:** 1250
- **Any other**
 - **Managed Switches** : 110
 - **Unmanaged Switches** : 20
 - **Layer 3 Switches** : 4
 - **Firewall** : 1
 - **Routers** : 3

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

- Upgradation/Expansion and Technology enhancement as and when necessary
- To avail Govt of India schemes for enhancement of IT Infrastructure from time to time

The University replaces/ upgrades every PC after completion of 5 years of usage period after evaluation through a designated committee. The Servers and other IT infrastructure are managed through AMC up to 8 years and any upgrade or enhancement, if required, is done on case-to-case basis.

4.3.4 Give details on access to on-line teaching and learning resources and other knowledge and information database/packages provided to the staff and students for quality teaching, learning and research.

- Teaching learning resources available under NKN and NMEICT schemes – Video lectures through A-View, NPTEL etc.
- The University has access to on-line teaching and learning resources through UGC-INFLIBNET subscription as well as University's own subscriptions

4.3.5 What are the new technologies deployed by the university in enhancing student learning and evaluation during the last four years and how do they meet new / future challenges?

- High speed connectivity to internet via NKN
- Gigabit based LAN switching
- Multi-party Video Conferencing Facility
- Virtual Class Room Facility
- Video-Streaming Server Facility
- Smart classroom

For future needs University is planning to deploy course management systems like Moodle (open source) or Brihaspati (under NMEICT project) for enhancing student learning and evaluation.

4.3.6 What are the IT facilities available to individual teachers for effective teaching and quality research?

A Desktop Computer with UPS, Productivity Software like Microsoft Office, Antivirus Package, Internet Connectivity/ Access to Server Resources, Multimedia Projectors. Software packages like – SPSS, Matlab are used for teaching and research purposes.

4.3.7 Give details of ICT-enabled classrooms/learning spaces available within the university? How are they utilized for enhancing the quality of teaching and learning?

The university has a large number of ICT enabled Classrooms cum seminar halls equipped with Multi-Media Projectors, Wireless Microphones, PA System and PC/Laptop connected to Internet. Teaching through video conferencing and smart classroom are also available

These facilities are used primarily for regular teaching as well as for holding Workshops/ Seminars/ Training Programmes/ Remote Presentation/ Video Conferencing etc.

4.3.8 How are the faculty assisted in preparing computer- aided teaching-learning materials? What are the facilities available in the university for such initiatives?

- Teaching and learning materials are mostly prepared by faculty members themselves. Staff members of the Computer Centre assist faculty in preparation of the documents using software. Software providers are invited from time to time to organize demonstrations of the software to bring out the best out of it and to create awareness of the new features. Microsoft organized a 10 days programme called SAKSHAM in April 2013 for skill set development of teachers using software tools.
- Once the teaching and learning materials are ready, it is then hosted on to intranet server for offline viewing by students and researchers. This facility

will be made available through some LMS like moodle or Brihaspati (under NMEICT project)

4.3.9 How are the computers and their accessories maintained?

A considerable number of ICT equipment are maintained through Annual Maintenance Contract and rest through in-house service technicians with replacement of spares. Most of the Servers, UPS, Data Switches and Telephony Equipment are covered under AMC while Personal Computers and Peripherals managed in-house. Most of the systems are, nowadays, purchased with 3 to 5 years warranty to cover entire life span of the ICT equipment.

4.3.10 Does the university avail of the National Knowledge Network connectivity? If so, what are the services availed of?

Yes. Internet, Email, Video Conferencing, access to Digital Resources subscribed through UGC, INFLIBNET, Access to NPTEL Web & Video Resources, Access to SAKSHAT NME-ICT Portal for E-resources, Virtual Class Rooms, A-View Class Rooms.

4.3.11 Does the university avail of web resources such as Wikipedia, dictionary and other education enhancing resources? What are its policies in this regard?

Open access, available through internet.

4.3.12 Provide details on the provision made in the annual budget for the update, deployment and maintenance of computers in the university.

Budget allocation for Computer Centre:

Budget allocation (in ₹ lakhs)						
Sl. No.		2011-12	2012-13	2013-14	2014-15	2015-16
	Non-plan					
A	Contingency	0.25	0.25	0.50	0.30	0.30
B	Stationary & Consumable	1.00	1.50	2.00	1.00	1.00
C	Excursion/student activity	0.40	0.60	0.60	0.60	0.60
D	Main. Of lab Equip./Comps	1.00	1.00	1.00	0.50	0.50
E	TA/ Remuneration of G. faculty	0.30	0.40	0.40	0.30	0.50
		2.95	3.75	4.50	2.70	2.90

Note: While framing the R.E for the year 2015-16, the provisions kept under Sl. No. C and E in the BE will be removed.

4.3.13 What plans have been envisioned for the gradual transfer of teaching and learning from closed university information network to open environment?

University has already offered some courses through distance learning and a CODL is already in operation. In future, CODL is expected to be fully online and more and more courses will be offered online to remove the physical barrier of reaching remote and distance areas.

4.4 Maintenance of Campus Facilities

4.4.1 Does the university have an estate office / designated officer for overseeing the maintenance of buildings, class-rooms and laboratories? If yes, mention a few campus specific initiatives undertaken to improve the physical ambience.

Tezpur University has an Estate Officer of the rank of an Assistant Registrar who oversees the maintenance of the buildings in coordination with the Engineering Cell.

Following initiatives have been taken resulting in improvement of physical ambience:

- Planned tree plantation around the complex, maintenance of green zone
- Creation and maintenance of an artificial pond
- Landscaping of the School of Engineering
- Landscaping of the Library complex
- Installation of solar lamps around the campus
- Installation of fixed poster/banner frames at various locations
- Installation of concrete dustbins (with separate enclosure for different type of waste material) at regular locations in the residential areas/hostels

The Estate Officer is also entrusted the responsibility to:

- Maintain cleanliness of the campus by engaging outsourced Sulabh workers and take active part in the Swachh Bharat Abhiyan launched by Govt. of India.
- Maintain Guest House, Auditorium, Council Hall, other seminar halls.
- Maintain and ensure pure drinking water facilities by providing water purifiers/ coolers in the departments, offices, hostels.
- Cleaning of water coolers, purifiers, overhead water tanks of different hostels, departments, residential units and other establishments of the campus.
- Ensure safety of the buildings/equipment by providing adequate number of fire extinguishers.
- Maintain records of residential quarters, safekeeping of keys of the vacant quarters.
- Maintain the record of physical stock of the university assets and arrange the annual verification of stock through a committee in consultation with the Finance Officer.
- Actively assists in the national/international events organized in the campus.

4.4.2 How are the infrastructure facilities, services and equipments maintained? Give details.

Each department, center or administrative unit takes due care of the maintenance of the infrastructure under its jurisdiction directly or with the assistance of the Estate Officer, the Computer Center, the University Engineering and Maintenance Cell or other section as the case may be. As per general procedure each department/section has a unit/an officer responsible for maintenance of the infrastructure of the concerned section, which informs the concerned section as and when required.

The University Engineering and Maintenance (EM) Cell has the responsibility of carrying out the general maintenance work of the university infrastructure.

- The EM Cell receives complaints/information and takes necessary steps to get it addressed.
- The Estate Officer/s also collects information and pass on to the EM Cell for necessary action.
- Before commencement of a semester, a survey of the academic departments/centres is carried out by the Estate Officer and necessary course of action is taken up by the EM Cell.
- Maintenance of civil, electrical, water and related, and sewage are done by separate groups of engineers and their assistants.
- Satisfactory certificate is collected from the complainants/users.

The university Vice Chancellor and Registrar take personal interest in the up-keep of the infrastructure.



Criterion V
STUDENT SUPPORT AND PROGRESSION



CRITERION V: STUDENT SUPPORT AND PROGRESSION**5.1 Student Mentoring and Support****5.1.1 Does the university have a system for student support and mentoring? If yes, what are its structural and functional characteristics?**

Tezpur University puts great stress on providing all round support to all its students, the support is extended even beyond the classrooms.

The following instruments form the back-bone of the students' support and mentoring.

The Dean of Students' Welfare and the Associate Deans of Students' Welfare are readily accessible to the students and provide necessary advice and guidance to the students in matters of academics as well other aspects. For resident students the wardens play a pivotal role as mentor and guide.

The departments appoint **faculty mentors** to each student from amongst the faculty members of the concerned department to advise and provide necessary guidance to the students in academic as well as non-academic activities. The list of mentors is announced at the time of commencement of classes for new students.

There are also designated *course advisors* for each programme of each department who advise the students on various aspects of their curriculum.

Performance of students is monitored by the respective academic Departments and Schools of studies and advices are advanced. At times the parents and guardians are also consulted. *The Academic Probation Committee* consisting of the Dean of the concerned School and two faculty members of concerned department monitors the status of the student(s) of the department under academic probation and provide counseling. In addition to the above, the university organizes counselling and awareness campaigns for sustainable physical and mental health of the students. The Sports section mentors interested students for various sports disciplines and Gymnasium activities. The Yoga Centre too plays a mentoring role in maintaining a balanced lifestyle with positive mental health.

5.1.2 Apart from classroom interaction, what are the provisions available for academic mentoring?

As stated in para 5.1.1 above, provisions for academic mentoring are there at many levels including the course instructors, the course advisors, members of the Academic Probation Committee and faculty mentors. The Equal Opportunity Cell carries out affirmative mentoring to the needy sections of students.

5.1.3 Does the university have any personal enhancement and development schemes such as career counselling, soft skill development, career-path-identification, and orientation to well-being for its students? Give details of such schemes.

Yes, the Equal Opportunity Cell under the Centre of Inclusive Development of the university provides personal enhancement and development counseling

through special arrangement of classes, training sessions, workshops, coaching for competitive examinations etc.

The Training and Placement office under the same Centre also helps the students in their career path identification and skill enhancement for placement through organization of workshops throughout the year.

The University also arranges special orientation programmes for the newly admitted students.

5.1.4 Does the university provide assistance to students for obtaining educational loans from banks and other financial institutions?

The University facilitates the intending students to avail educational loans from the nationalized banks, specially having their branches on the University Campus (e.g., SBI, UBI and PNB). Most of these banks put their kiosks at the admission venue displaying the facilities for the students.

The University also guides and facilitates in availing educational loans from other banks or financial institutions.

5.1.5 Does the university publish its updated prospectus and handbook annually? If yes, what are the main issues / activities / information included / provided to students through these documents? Is there a provision for online access?

The university publishes updated prospectus and students' hand book annually. In the prospectus, facilities available in the university including hostels, placement related information, evaluation system, important academic rules, admission procedure, departmental profile and latest course structure, indicative list of publications, model questions for the Tezpur University entrance examinations, fees structure, schedule of entrance examinations, admission etc. are included. In addition, the university is publishing handbooks on Departmental Profiles with course structures and detailed school-wise Syllabus separately.

The students hand book is published specially for the newly admitted students and it contains mostly answers of the questions that are asked frequently.

With effect from the academic session 2015 the university prospectus is available online only.

5.1.6 Specify the type and number of university scholarships / freeships given to the students during the last four years. Was financial aid given to them on time? Give details (in a tabular form) for the following categories: UG/PG/M.Phil/Ph.D./Diploma/others (please specify).

University provides Institutional fellowship to those Ph. D. students who do not get any fellowship from other agencies. The university also awards free studentship to some meritorious students of B. Tech. programmes and to some students belonging to economically weak families in different programmes.

Details of assistance (2011-15)

Year	Type	No. of students received institutional scholarship/ fellowship	Amount (₹ in lakh)	No of Students receiving free-ship	Amount of freeship (₹ in lakh)
2011-15	UG	-		201	22.47
2011-15	PG	-		34	1.19
2011-15	Ph. D.	338	297.78	-	-
2011-15	Others	-	-	-	-

5.1.7 What percentage of students receive financial assistance from state government, central government and other national agencies (Kishore Vaigyanik Protsahan Yojana (KVPY), SN Bose Fellow, etc.)?

Percentage of students receiving financial assistance is as follows:

Agencies	2011-12	%	2012-13	%	2013-14	%	2014-15	%
State Govt.	240	10.21	20	0.72	490	16.01	417	14.85
Central Govt.	177	7.53	48	1.72	235	7.69	276	8.36
Others	4	0.17	2	0.07	04	0.13	04	0.12

5.1.8 Does the university have an International Student Cell to attract foreign students and cater to their needs?

Tezpur University has an International Student Cell called the International Office, which was established in February, 2013 as a single window to provide services to overseas/foreign students. Prior to this, there was a Centre for Foreign/NRI students (CFNS), consisting of Dean of Students' Welfare and Assistant / Deputy Registrar (Academic).

With regards to foreign/ overseas students, the International Office has been given the responsibility of facilitating their admission, advising and helping them with official procedures, and assisting such students in settling into life on campus.

5.1.9 What types of support services are available for

• overseas students:

The International Office of the university has been given the responsibility of controlling the future admissions of foreign/overseas students and providing necessary guidance for securing admission. This office also helps foreign students for their registration with state administration and to get fellowships from the sponsoring agencies. A Home Stay programme for foreign students has been recently introduced so that foreign students can get acquainted with

local lifestyle & culture.

- **Physically challenged / Differentially-abled students:**

All hostel, departmental and office buildings have differently-abled person friendly ramps bypassing the stairs. Dedicated transport arrangement is provided to differently-abled students for movement between classrooms and hostels.

- **SC/ST, OBC and economically weaker section:**

The University facilitates the students belonging to SC/ST and OBC categories to get scholarships from the concerned agencies. There is a SC/ST cell to redress the grievances of the students. The University also provides financial assistance to the students belonging to economically weaker family.

- **Student participating in various competitions, conferences:**

Students are encouraged to participate in various sports, cultural and other competitions. The University meets the financial and other requirements of the officially selected students for participating in various competitions of games and sports, cultural, literary and scientific events as per norms of regulatory authorities.

The University facilitates the Ph. D. students to participate in the seminars and conferences by providing Travelling Allowance, registration fees, leave as per rules. It also encourages UG & PG students to participate in seminars/conferences and to present their research output.

- **Health centre and health insurance:**

Tezpur University has a health centre well-equipped with medical and paramedical staff, ambulance service and other facilities to provide the basic medical services (OPD) to the University community.

A health insurance scheme (Mediclaim policy) for the students at nominal amount of premium is in place for a cashless indoor treatment at empanelled hospitals.

- **Skill development (Spoken English, Computer literature etc.):**

The Centre for Inclusive Development (CID) in association with the Department of English and Foreign Languages offers soft skill development training including spoken English courses for students requiring it.

There is a dedicated Central Computer Centre with distributed clusters with high-end servers, PCs and useful software to train up the students and staff. Most of the departments have their own computer laboratories to facilitate students in using computers. Computer literacy and skills is built in all programmes offered by the university.

- **Performance enhancement for slow learners:**

The Academic Probation Committee advises the slow learners in planning and enhancing their performance. The slow learner students are allowed to register for lesser number of courses to enable them to complete the programme

utilizing additional semesters as regular students. Departments arrange extra sessions for slow-learners or learners who are found to be deficient.

• **Exposure of students to other institutions of higher learning/ corporates/ business houses:**

The University has the provision of academic excursion/industrial visit to facilitate the students in visiting different institutions of higher learning, industrial complexes, business houses etc. for better exposure. In some departments, viz., Business Administration and some Engineering departments, students need to undertake project works in other institutions / industries as a part of the course curriculum.

Undergraduate students participate in Summer Internship programmes in other institutes or corporate concerns during their semester break.

• **Publication of student's magazines:**

University annually publish the magazine **SRIJAN...a Creation** with full financing from the University. They also take out special issues / souvenirs during its annual events such as the TechXetra, SAMPARK. In addition, most of the hostels bring out their annual magazines including wall magazines.

5.1.10 Does the university provide guidance and/or conduct coaching classes for students appearing for Civil Services, Defense Services, NET/SET and any other competitive examinations? If yes, what is the outcome?

The university conducts pre-examination coaching /training programme by the Equal Opportunity Cell *every year* to prepare the candidates for various national and state level competitive examinations including NET/, SLET etc.

The university has achieved progressively higher success rate in the NET, SLET examinations. Some students have also qualified in the Central and State services examinations.

(Please refer to **5.2.3**)

5.1.11 Mention the policies of the university for enhancing student participation in sports and extracurricular activities through strategies / schemes such as

- * **additional academic support and academic flexibility in examinations**
- * **special dietary requirements, sports uniform and materials**
- * **any other (please specify)**

University encourages students' participation in sports and extracurricular activities organized by the university as well as other institutions/ organizations. There is a provision for conducting the examinations after the scheduled dates for those students who participate in the sports and extracurricular competitions during the examinations. The Dean, Students' Welfare, the Assistant Director of Sports, the Sports Officer and the Cultural Officer guide the students for

participation in various competitions. The Course Coordinators of the respective courses arrange special classes for such students.

The university provides high quality sports materials, sports uniform and other essential items to encourage students for participating in in-house and outside sports and extracurricular activities. The university has specially designed attires for its cultural activists representing the university. The University, through its designated officials takes care of nutrition of the students, who participate in coaching camps and outside events.

5.1.13 What are the services provided by T&P Cell to help students identify job opportunities, prepare themselves for interview, and develop entrepreneurship skills?

The Training & Placement Cell under the umbrella of Centre for Inclusive Development provides the following services to the students of the University in the field of career counseling, preparedness for interview and entrepreneurship skills:

Pre-placement Grooming cum Counseling

The Training & Placement Cell in association with the Equal Opportunity Cell of the University organizes capacity building capsule programmes to increase the employability of the targeted students, i.e., those who are in the last two semesters of their courses.

While the general objective of these programmes is to groom the overall personality of the students, emphasis is given to specific areas where the students are found to be weak. Accordingly, the modules include focused and practice-oriented programmes on communicative skills, public speaking skills, interview-facing techniques, CV writing, corporate preparedness, corporate communication, and other related areas of soft skill. Such exercises generally help the students to perform better in their interviews. For this purpose, interactive sessions are conducted to which professionals from different industries/organizations are invited to share their experiences and suggest the best possible career options for the students of different disciplines. In such programmes, emphasis is also given on developing entrepreneurship skills, particularly, to those students who are interested in starting their own entrepreneurs.

Placements: On/Pool campus, Off Campus, Virtual drives

The Training & Placement Cell use to organize on/pool campus and Virtual drives etc. Apart from arranging on-campus activities, the Cell also passes on the information related to off campus, job vacancies and opportunities available in various organizations both in the private, public and government sectors. As university situated in a remote locale, we do promote the virtual placement drives and thus virtual campus hiring is increasing in every year.

5.1.14 Give the number of students selected during campus interviews by different employers (List the employers and the companies who visited the campus during the last four years) (year-wise break up).

List of companies that recruited students of the 2014-15 batch (on-campus)

Name of the Organisation	Discipline	No. of Students
TCS	B. Tech. /M. Tech. /MCA	46
TechMahindra	B. Tech. /MCA	15
Software AG	MCA	4
IBM	B. Tech. /M. Tech. /MCA	17
Parle Products	MBA	
ICICI Bank	MBA	3
L&T Infotech	B. Tech.	3
Vodafone	MBA	5
Wipro Technologies	B. Tech. ECE/CSE	10
Zaloni Technologies	B. Tech. /MCA/M. Tech.	8
FACE	B. Tech.	2
HDFC Bank	MBA	5
Asian Paints	MBA	
Berger Paints	MBA	
The Shillong Times	MA	4
KEC International	B. Tech.	2
Indian Army	B. Tech.	
Focus Group	B. Tech. /MA-MCJ/MBA	
Kotak Life	MBA	5
SeSTA	MA/MBA	5
Jaro Education	MBA	
Axis Bank	MBA	5
Wipro	MCA	3
CCD	B. Tech.	1
Nestle	MBA	1
WSP	B. Tech.	1
CMS	MA-MCJ	1
Azim premji Foundation	MA-English/M.Sc	4
Dalmia Cement	MBA	1
Sriram Value	B. Tech. /MBA	
Pantaloons	MBA	1
Mahindra Finance	MBA	4
Bajaj Capital	MBA	1
XL Dynamics	B. Tech. / MBA	1
CG Foods	B. Tech. /M. Tech. (FET)	
GSK	MBA	1
TCS (Off Campus)	B. Tech.	3
Video Volunteers	MA-MCJ	2
Broadcom Corporation	B. Tech.	1
Reverie L Technologies	B. Tech.	1

Mahindra	B. Tech.	
----------	----------	--

List of companies that recruited students of the 2013-14 batch (on-campus)

Name of the Organisation	Discipline	No. of Students
Texas Instruments	MCA	
Capgemini	B. Tech. / MCA	15
IBM	B. Tech. /MCA/M. Tech.	10
Zaloni	B. Tech. -CSE/MCA	3
NEDFI	MBA	2
Vodafone	MBA	5
HCL Infosystems	MBA	1
Asian Paints	MBA	
Axis Bank	MBA	3
Coffeeday Beverages	B. Tech. /MBA	3
NHDC	MBA	7
Oil India Limited	B. Tech.	3
CG Foods	B. Tech./M. Tech. -FET	4
Hindustan Motors	B. Tech. /MBA	4
TCS	B. Tech. /MCA	5
Microsoft	B. Tech.	
Nile Stream Info P. Ltd	B. Tech. /MBA	17
Techmahindra	B. Tech.	13
Infosys	B. Tech. /M. Tech.	3
Collabera Pvt Ltd	B. Tech.	
Power Grid Corporation of India	B. Tech.- Civil	1
Airtel	MBA	3
ICICI Prudential	MBA	6
Dabur	MBA	2
PRADAN	MBA/MA/M. Sc.	5
HDFC Bank	MBA	9
Coca Cola	MBA	
Azim Premji Foundation	M. Sc.	1
Nestle	M. Sc.	1

List of companies that recruited students of the 2012-13 batch (on-campus)

Name of the Organisation	Discipline	No. of Students
Indian Army	B. Tech.	1
Capgemini	B. Tech. / MCA	18
Sony India	B. Tech. / MCA	2
Software AG	MCA	4
KEC International	B. Tech.	
Unisys Global	B. Tech.	3
Jindal Steel & Power	B. Tech.	6
Asian Paints	MBA	1

ITC	MBA	2
C G Foods	M. Tech.	4
Technosoft Consultancy Solutions	B. Tech. / MCA/ M. Tech.	5
Broadcom	B. Tech.	1
TCIL	MBA	3
Shriram Transport Finance Company	B. Tech. / MBA	1
PRADAN	All PG Courses /B. Tech.	7
Reliance Jio Infocom	B. Tech.	3
Vodafone	MBA	2
Dabur	MBA	2
ChennelPlay	MBA	1
Mahindra Finance	MBA	1
ICICI Bank	MBA	11
Asian Paints	M. Sc.	2

List of companies that recruited from the 2011-12 batch (on-campus)

Name of the Organisation	Discipline	No. of Students
Capgemini	B. Tech. / MCA	7
Tata Consultancy Services	B. Tech. / MCA	18
Software AG	MCA	3
Reverie Language Technologies	MCA	4
Zaloni Technologies	B. Tech. / MCA	4
SONY India	B. Tech.	4
HDFC	MBA	5
AGC Networks	B. Tech. / MBA	6
Huawei Technologies	B. Tech.	
Allahabad Bank	MBA	8
Exim Bank	MBA	1
Microsoft India	B. Tech.	
Azim Premjee Foundation	MA	2
IDBI Bank	MBA	12
Perkin Elmer India	M. Sc. / M. Tech.	3
TCIL	MBA	2
IBM	B. Tech.	
ICICI Bank	MBA	6
Nestle	MBA	2
Broadcom	B. Tech.	2

List of companies that recruited from the 2010-11 batch (on-campus)

Name of the Organisation	Discipline	No. of Students
Accenture	B. Tech. /MCA	11
Asian Paints	M. Sc.	2

Axis Bank	MBA	8
Calcom Cement	ME	1
Colgate Pamolive	MBA	1
CPM India Sales & Marketing	MBA	1
Downtown University	MA	2
DY 365	MCJ	8
Exilant Technologies	CSE	4
Export-Import Bank of India	MBA	2
HB Entertainment	MBA	1
HDFC Bank	MBA	7
Huewei Technologies	CSE/ECE	
IB	All PG Courses	11
ICICI Bank	MBA	2
Indian Air Force	B. Tech. /All PG Courses	
Indian Army	B. Tech.	
NERAMC	MBA	1
News Live	MCJ	
Northern Trust	MBA	1
Oil India	MBA	2
Pradan	M. Sc./ MA	2
Reserve Bank of India	MBA	1
State Bank of India	MBA	3
Software AG	MCA	3
Soma Enterprise	ME	
Sony India	B. Tech.	6
Syntel	B. Tech.	4
TCS	MBA	
Tech Mahindra	B. Tech./MCA	4
UBI	B. Tech./MCA	10
Zaloni Techniologies	B. Tech. CSE/MCA	3

5.1.15 Does the university have a registered Alumni Association? If yes, what are its activities and contributions to the development of the university?

The Tezpur University Alumni Association was formed in September 2000 with the primary objective of providing an opportunity to the alumni of this University to take active interest in the all-round progress and development of the University. The university has given a lot of emphasis on building and maintaining a good relationship with the alumni.

Tezpur University Alumni Association is registered (Registration No. RS/ SPR/ 42/F/149 of 2013-14) under the Societies Registration Act, XXI of 1860.

Activities

Each year alumni meet is organized centrally by the Tezpur University Alumni Association. Apart from this, individual departments also organize such meets and have been trying to maintain an amicable relationship with its alumni, keep

them informed about the developments in the university and the departments, and involve them in academic as well as developmental activities.

Alumni Meets and interactive programmes with distinguished alumni are regularly conducted both in face to face interaction as well as on video conference mode. The alumni are helping the university in recommending their alma-mater to recruiters, helping their juniors in getting internship and job placements. They are also rendering immense help to those who look for jobs outside the region. They act as mentors to the students. The alumni who are in the campus assist in the conduct of numerous activities initiated by the university, whether in organizing events, plantation of trees or other development activities. A few alumni have been made part of Board of Management, Board of studies and also other statutory bodies of the university. Efforts are given to obtain feedback from alumni for appropriate updating of courses and planning for new courses. The Alumni Association is playing an active role in acting as a catalyst in these activities. An Alumni Association fund with contributions from Alumni exists which sponsors different developmental activities of the university. The association has also carried out certain ISR activities.

Tezpur University website includes an Alumni Portal.

5.1.16 Does the university have a student grievance redressal cell? Give details of the nature of grievances reported. How were they redressed?

Tezpur University has an active grievance redressal system to promote and maintain a healthy and unprejudiced educational environment. This system operates through many components to redress the grievance of its stakeholders.

Heads of the Departments receive grievances from the students of the Department either directly or through the Departmental Mentor System.

Wardens receive and redress complaints from the boarders with the help of the Prefects or, if necessary, the Hostel Disciplinary Committee.

The Dean, Students' Welfare also receives and redresses any complaint or grievance of the students. In addition, students can upload grievance through the centralized PGPORTAL.

5.1.17 Does the university promote a gender-sensitive environment by (i) conducting gender related programmes (ii) establishing a cell and mechanism to deal with issues related to sexual harassment? Give details.

Tezpur University has regularly been engaged in promoting gender sensitive environment by conducting gender related programmes through its *Equal Opportunity Cell under the Centre for Inclusive Development* and the *Chandra Prabha Saikiani Centre for Women's Study*.

Women faculty members are appointed as Hostel Wardens' of the Women's Hostels and Female Security Guards are deployed in hostels for their safety. We

have two full time Lady Medical Officers and one visiting female doctor in the Health Centre to address to Health issues of female students.

In order to deal with issues related to sexual harassment, an *Internal Complaints Committee (ICC)* as per Govt. of India Guidelines to deal with all harassment cases against women has been constituted. This committee has eight internal members and two external members constituted as per the provision of Section 4 of the Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013.

Main function of the Complaints Committee on sexual harassment is to address to complaints made by the 'aggrieved' and suggest action against the 'perpetrator'. The complaints are received directly or referred by the *Departmental Grievance Redressal Committee* to the Internal Complaints Committee. The University also takes up *Suo Motto* cases even if no formal complaints are received. The University has a Online Portal for lodging complaints to Internal Complaints Committee. The University authority takes appropriate action as per the recommendations of Internal Complaints Committee.

The University has a policy that the Grievance Redressal Committee and the Internal Complaints Committee shall meet every quarter to be Chaired by the Vice Chancellor irrespective of complains or no complaints to take feedback from members and for any preventive measures.

5.1.18 Is there an anti-ragging committee? How many instances, if any, have been reported during the last four years and what action has been taken in these cases?

The University constitutes a central Anti-Ragging Committee and Anti-Ragging Squad every year as per the UGC's regulation No. F.1-16/2007(CPP-II) dated 17 June, 2009 before commencement of classes for the newly admitted students.

In addition, each Academic Department and Hostel constitutes a Departmental and Hostel level Anti-Ragging Committee comprising of students, research scholars and faculty members. Tezpur University boasts of a practically ragging free campus.

No incident of ragging has been reported so far.

5.1.19 How does the university elicit the cooperation of all its stakeholders to ensure the overall development of its students?

University elicits cooperation from the faculties, students, staff and alumni of the University for overall development of the students. University constitutes various committees involving representatives of all stake holders for developing policies for overall development of students. University also invites suggestions from the Students' Council and other bodies and implement, if deemed fit. Recommendations and suggestions of the aforesaid committees are considered by the authority for further necessary action.

5.1.20. How does the university ensure the participation of women students in intra- and inter-institutional sports competitions and cultural activities? Provide details of sports and cultural activities where such efforts were made.

Various sports as well as cultural events as a part of Annual Sports and Cultural meet are organized with special emphasis to encourage participation of women students in intra-institutional sports activities. Intra as well as inter hostel activities are carried out to ensure participation at the base level. Winners of such events are then nominated to participate at the next level. Coaching for various women's sports events are also organized. The university has witnessed very good participation of women students particularly in various cultural events who have won laurels for the university.

The following sports events are conducted annually specifically for women:

- Track and field event: 100, 200, 400, 800, 1500, 4 x 100 meter relay, high jump, long jump.
- Outdoor game: Volley Ball, Basket Ball, Kabbadi, Tug of War, Archery, weight lifting.
- Indoor Games: Badminton, Table Tennis, Chess, Carom, Arm Wrestling, Yoga
- Gym facility: Specific time slot for women
- A team of 12 women members participated in the East Zone Inter University Volleyball event held at Banaras Hindu University during 30 Oct-4 Nov, 2012.

Moreover, the university ensures participation of both women and men in all inter and intra institutional cultural activities and competitions within and outside the University.

5.2 Student Progression

5.2.1 What is the student strength of the university for the current academic year? Analyse the Programme-wise data and provide the trends for the last four years.

Student strength of the University is 3500

Programme wise data of students is given below

Sl. No	Name of the programme	2011-12	2012-13	2013-14	2014-15
1	M.Sc. in Physics	72	74	70	53
2	M.Sc. in Nanoscience & Technology	27	33	36	36
3	M.Sc. in Chemistry	39	39	40	41
4	M.Sc. in Mathematics	103	111	109	101
5	M. Tech. in Computational Seismology	4	discontinued		
6	M.Sc. in Molecular Biology and Biotechnology	57	58	59	58
7	M.Sc. in Environmental Science	52	54	56	52

8	M.A. in English	93	104	103	102
9	M.A. in Cultural Studies	38	53	58	60
10	M.A. in Mass Communication and Journalism	68	72	71	72
11	M.A. in Sociology	56	68	71	68
12	Master of Business Administration (Full Time)	87	96	103	98
13	Master of Computer Application (MCA)	166	175	159	150
14	M. A. in Hindi	-	-	21	38
15	M. A. in Linguistics and Language Technology	-	8	27	41
16	MBA (part time)	25	discontinued		
17	M. Tech. in Polymer Science & Technology	8	14	14	19
18	M. Tech. in Mechanical Engineering	-	-	9	18
19	M.Tech. in Information Technology	62	64	60	54
20	M. Tech. in Electronics Design & Technology	76	75	64	50
21	M. Tech. in Bioelectronics	31	32	36	32
22	M. Tech. in Food Engineering & Technology	10	20	36	35
23	Integrated M. Tech. in Food Engineering & Technology	48	37	28	34
24	M. Tech. in Energy Technology	59	68	54	49
25	P.G. Diploma in Mobile and Multimedia Communication	4	6	3	nil
26	P.G. Diploma in Translation (Hindi)	2	3	8	1
27	P.G. Diploma in Tourism Management (PGDTM)	12	7	8	10
28	One year Certificate in Chinese	15	24	42	13
29	Certificate in Technical Writing (P/T)	-	22	16	11
30	Certificate in Air Ticketing and Computerized Reservation System (P/T)	-	33	31	30
31	Advanced Diploma in Healthcare Informatics and Management (P/T)	-	21	16	25
32	Integrated M.Sc. in Chemistry	25	40	51	68
33	Integrated B. Sc. B.Ed.(Chemistry)	7	15	23	25
34	Integrated M.Sc. in Mathematics	17	33	49	63
35	Integrated B. Sc. B.Ed.(Mathematics)	3	11	19	26
36	Integrated M.Sc. in Bioscience and Bioinformatics	36	45	60	71
37	Integrated M.Sc. in Physics	21	36	48	59
38	Integrated B. Sc.B. Ed.(Physics)	3	8	15	18
39	Integrated M.A. in English	11	18	32	56
40	Integrated B.A. B.Ed.	10	19	26	30
41	B. Tech. in Computer Science and Engineering	165	190	197	214
42	B. Tech. in Electronics and Communication Engineering	178	208	210	210
43	B. Tech. in Mechanical Engineering	194	220	219	220
44	B. Tech. in Civil Engineering	77	130	164	192
45	B. Tech. Food Engineering and Technology	25	52	77	93
46	Ph.D. in Chemical Sciences	54	55	54	71
47	Ph.D. in Mathematical Sciences	21	25	25	19
48	Ph.D. in Molecular Biology and Biotechnology	33	40	47	63
49	Ph.D. in Physics	41	47	48	60

50	Ph.D. in Computer Science & Engineering	40	44	44	50
51	Ph.D. in Electronics & Communication Engineering	16	23	28	32
52	Ph.D. in Mechanical Engineering	0	4	6	07
53	Ph.D. in Civil Engineering	1	1	1	02
54	Ph.D. in Food Processing Technology	12	15	18	21
55	Ph.D. in Energy	19	20	24	23
56	Ph.D. in Environmental Science	32	35	37	51
57	Ph.D. in Cultural Studies	22	22	25	23
58	Ph.D. in English & Foreign Languages	29	32	34	37
59	Ph.D. in Mass Communication and Journalism	6	7	7	09
60	Ph.D. in Sociology	4	11	11	20
61	Ph.D. in Business Administration (BA)	30	30	31	34
62	Ph.D. in Hindi	4	6	6	06
63	Ph. D. in Assamese Studies	-	-	-	01
64	M. A. in Social Work	-	-	-	14
65	Integrated M. Com.	-	-	-	32
66	B. Tech. in Electrical Engineering	-	-	-	29
	Total	2350	2813	3044	3300

Student Progression (as per departmental reports)

Sl. No	Department	UG to PG (%)	PG to M. Phil. (%)	PG to Ph.D. (%)	Ph. D. to Post-Doctoral (%)	Employed (%)	Entrepreneurs (%)
1.	Chemical Sciences	-	-	40	30	20	-
2.	Environmental Science	-	-	26	-	6	-
3.	Mathematical Sciences	100	4	20	-	-	-
4.	MBBT	6.6	-	70	30	-	-
5.	Physics	100	-	25	12.5	20	-
6.	Cultural Studies	-	-	20	-	20	30
7.	EFL	23.7	5.3	6	-	20	0.25
8.	MCJ	-	-	10	-	85	10
9.	Sociology	-	15	6	-	64	4
10.	Civil Engineering	27	-	-	-	21	-
11.	CSE	25	-	20	6.67	100	-
12.	ECE	17.4	-	9.2	-	100	-
13.	Energy	-	-	9	1	100	-
14.	FET	16.66	-	50	-	60	-
15.	ME	39	-	37.5	-	35	-
16.	BA	-	-	20	-	90	10

5.2.2 What is the programme-wise completion rate during the time span stipulated by the university?

Programme wise completion rate during the minimum stipulated time span is given in the table: (A: appeared, P: Passed)

Sl. No	Programme	No. of students		2011 Pass %	No. of students		2012 Pass %	No. of students		2013 Pass %	No. of students		2014 Pass %
		A	P		A	P		A	P		A	P	
1.	M Sc. in Physics	26	24	92.3	35	35	100	37	33	89.2	34	34	100
2.	M Sc. in Nanoscience and Technology	9	9	100	15	13	86.7	12	11	91.7	19	19	100
3.	M Sc. in Applied Chemistry/ Chemical Sciences / Chemistry	31	31	100	22	22	100	17	17	100	17	17	100
4.	M Sc in Mathematics	38	31	81.6	40	40	100	61	52	85.2	50	42	84
5.	M.Tech in Computational Seismology	12	12	83.3	4	4	100	-	-	-	-	-	-
6.	M Sc in Molecular Biology and Biotechnology	19	19	100	29	29	100	28	27	96.4	29	29	100
7.	M. Tech. in Food Processing Technology	-	-	-	18	17	94.4	17	15	88.2	1	1	100
8.	M. Tech in Food Engineering & Technology (Lateral entry)	-	-	-	6	5	83.3	5	3	60	17	16	94.11
9.	MA in English	46	39	84.8	45	41	91.1	52	52	100	50	50	100
10.	Certificate in Chinese	20	14	70	15	11	73.3	15	8	53.3	41	30	73.17
11.	MA in Cultural Studies	18	18	100	17	15	88.2	20	20	100	29	28	96.55
12.	MA in Mass Communication & Journalism	26	24	92.3	32	30	93.7	35	34	97.1	34	33	97.05
13.	MA in Sociology	21	21	100	28	25	89.3	32	31	96.9	34	34	100
14.	M. Tech in Energy Technology	18	13	72.2	22	21	95.5	37	30	81	27	25	92.59
15.	M Sc in Environmental Sc.	20	19	95	25	25	100	25	25	100	25	25	100
16.	Master of Business Administration (F/T)	42	41	97.6	42	41	97.6	46	44	95.6	44	44	100
17.	Master of Business Administration	30	23	76.7	-	-	-	-	-	-	-	-	-

	(P/T)												
18.	Post Graduate Diploma in Tourism Management	16	14	87.5	12	12	100	12	7	58.3	8	8	100
19.	Post Graduate Diploma in Translation (Hindi)	-	-	-	2	2	100	3	3	100	8	8	100
20.	Post Graduate Diploma in Mobile and Multimedia Communication	3	3	100	3	3	100	6	6	100	3	3	100
21.	Master of Computer Application (MCA)	45	41	91.1	52	47	90.4	56	46	82.1	62	60	96.77
22.	M.Tech in IT	27	21	77.7	29	25	86.2	32	30	93.7	32	30	93.75
23.	M. Tech. in EDT	34	29	85.2	35	34	97.1	36	34	94.4	34	33	97.05
24.	M. Tech. in Bioelectronics	13	9	69.2	12	11	91.7	11	10	90.9	20	20	100
25.	B. Tech. in CSE	27	25	92.6	25	25	100	41	37	90.2	39	34	87.17
26.	B. Tech. in ECE	24	24	100	28	28	100	50	41	82	46	46	100
27.	B. Tech. in ME	25	25	100	30	30	100	46	46	100	56	55	98.21
28.	B. Tech. in Civil Engineering	-	-	-	-	-	-	14	12	85.7	22	20	90.90
29.	Certificate in Air Ticketing and Computerised Reservation System	-	-	-	33	28	84.8	30	21	70	34	24	70.58
30.	Certificate in Technical Writing	-	-	-	-	-	-	16	12	75	-	-	-

5.2.3 What is the number and percentage of students who appeared/qualified in examinations like UGC-CSIR-NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central / State services, Defense, Civil Services, etc.?

During last four years, number of students qualifying in these examinations has increased over the earlier years.

	**No of students qualified				
	*2014-15	2013-14	2012-13	2011-12	2010-11
NET JRF	8	29	28	24	26
NET LS	12	31	41	29	8
SLET, Assam	43	22	14	06	11
GATE	101	137	131	59	42
Civil Services	Nil	2	Nil	Nil	Nil

Engineering Services	Nil	Nil	1	Nil	Nil
Defence services	Nil	Nil	1	Nil	Nil
Others					

*partial information, ** Conservative estimation, based on departmental input

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

Academic Year	No. of Ph.D. theses submitted	No. of Ph.D. theses accepted	No. of Ph.D. theses rejected	No. of Ph.D. theses resubmitted
2010	16	16	-	-
2011	36	21	-	01
2012	25	35	-	03
2013	36	31	-	01
2013	50	50	-	-
2014	23	22	-	1

5.3 Student Participation and Activities

5.3.1 List the range of sports, cultural and extracurricular activities available to students. Furnish the programme calendar and provide details of students' participation.

Sports events for the students:

Cricket	Marathon
Football	Weight Lifting (Iron game)
Volleyball	Power Lifting (Iron game)
Basketball	Bodybuilding (Iron Game)
Kabadi	Arm wrestling (Iron Game)
Tug of War	Ason
March past	Table tennis
Chess	Tennis
Badminton	Track & Field
Archery	

Sports Activities:

(Intra-University events/University Campus)

Year	Date (s)	Event	Tournament	Participant	Remark
2011	24 Feb	Bodybuilding	Inter Institutional (Assam)	All Universities/ Institutions of Assam	-
2011	23-26 Feb	March-past, Body-building,	14 Annual Meet	Students of TU	Chief Guest Ratul Kr.

		Yogasan, Kabadi, Tug of War & Marathon			Das Asian Champion, Arm-wrestling
2011	2 nd week of Aug to last week of Nov	Football, Volleyball, Basketball, Cricket, Table tennis	15 th Annual Meet	Students of TU	-
2011	21-27 Dec	Chess	Coaching camp	Student of TU	-
2012	1 st week of Feb	Track & Field	15 Annual Meet	Students of TU	-
2012	24 Jan	Bodybuilding	Inter Institutional (Assam)	All Universities/ Institutions of Assam	-
2012	23-26 Feb	Concluding session (March past, Body building, Yogasan, Kabadi, Tug of War & Marathon)	15 Annual Meet	Students of TU	Chief Guest Ms. Anu Devi Mahanta. Veteran Asian Champion
2012	2 nd week of Aug to last week of Nov	Football, Volleyball, Basketball, Cricket, TT	16 th Annual Meet	Students of TU	-
2012	20-28 April	Football	Coaching Camp	Students of TU	-
2012	14-23 June	Badminton	Coaching Camp	Students of TU	-
2012	28 May - 4 June	Cricket	Coaching Camp	Students of TU	-
2012	11-20 Oct	Volleyball	Coaching Camp	University girls team	-
2013	1 st week of Feb	Track & Field	16 Annual Meet	Students of TU	-
2013	21 Jan	Bodybuilding	Inter Institutional (Assam)	All Universities/ Institutions of Assam	-
2013	20-23 Feb	Concluding session (March past, Bodybuilding, Yogasan, Kabadi, Tug of War & Marathon)	16 Annual Meet	Students of TU	Chief Guest B. Goswami, International Referee, WL
2013	1 st week of Mar	Football, Volleyball, Basketball & Chess	Inter Hostel Tournament	Students of TU Hostel	Inter Hostel tournament completed on 10 May

2013	17 Aug	Football, Volleyball, Basketball, Cricket, TT	17 th Annual Meet (Inter-dept)	Student of TU	Completed in the 2 nd week of November, 2013
2014	11-15 Feb	Track & Field	17 th Annual Meet	Students of TU	-
2014	20-23 Feb	Concluding session (Marchpast, Body building, Yogasan, Kabadi, Tug of War & Marathon)	17 th Annual Meet	Students of TU	Chief Guest Everest conquered Tarun Saikia
2014	20 Mar	Football, Volleyball, Basketball, Cricket,	Inter Hostel Tournament	Students of TU Hostels	Inter Hostel tournament completed - 2 nd week of May, 2014
2014	29 Aug	Football, Volleyball, Basketball, Cricket, TT	18 th Annual Meet	Students of TU	Completed 6 November-2014
2015	21-23 Feb	Track & Field	18 th Annual Meet	Students of TU	-
2015	5-7 Mar	Concluding session (March past, Body building, Yogasan, Kabadi, Tug of War & Marathon)	18 th Annual Meet	Students of TU	Chief Guest- Former National champion Thrower Mrs. Tayabun Nisha
2015	21-30 Mar	Football	Inter Departmental	Students of TU	-

Participation in the East Zonal/Zonal Inter University Meet:

Year	Date	Event	Participant	Tournament	Host University	Remark
2012	10-13 Jan	Chess	TU team	EZ Inter University	APS, Rewa	-
2012	3-5 Nov	Chess	TU team	EZ Inter University	Jadavpur University	-
2012	30 Oct – 4 Nov	Volleyball	TU team	EZ Inter University	BHU	-
2013	21 Feb	Body Building	TU (Individual)	Inter Institutional (Within Assam)	TU Annual Meet	Champion
2013	25-28	Chess	TU team	EZ Inter	Jadavpur	Board

	Oct			University	University	champion
2014	28 Jan to 1 Feb	Basketball	TU team	EZ Inter University	BHU	No rank
2014	27 Sept to 1 Oct	Chess	Chess	EZ Inter University	KIIT University	No rank
2014	4 - 9 Jan	Cricket	TU team	EZ Inter University	Jadavpur University	No rank
2014	1-3 Mar	Bodybuilding	TU team	All India AIU Best Physique	Anna University	No rank
2014	23-27 Nov	Archery	TU team	All India AIU	Kurukshetra University	No rank
2015	11-16 Mar	Cricket	TU team	NEFTi Cricket	NITS Mirza	Champion

Cultural and extracurricular activities

The participation of the students in all the cultural activities of the University is remarkable making it a highly vibrant campus. It is mostly the students who conduct all the cultural functions of the University. The involvement of the students in the competitions organized for them is also notable.

Given below is a list of events and also the programme calendar for the academic session 2012-2015 which demands and encourages student's active participation.

Title of the event	Date	External Sponsor (if any)	Noted Artist /participant/ guest
Tribute to Kaviguru Rabindranath Tagore	7 August 2012		
Painting Competition	30 August 2012		
Stage show of a play and puppet play	18 October 2012		
TechXetra (Technical Festival) 2012	2-4 November 2012	Local Industries & Business Houses	Euphoria band
Tribute to Xudhakontho Dr. Bhupen Hazarika	5 November 2012		
Classical Vocal Recital	19 November 2012		Vidushi Purnima Chaudhuri
University Debate	23 November 2012		
Celebration of Shilpi Diwas	17 January 2013		
SPICMACAY Virasat	18 - 22 Feb 2013	1. Ronu Mazumdar (flute) 2. Kaivalya Kumar Gurab (vocal) 3. Tejendra Mazumdar (sarod) 4. Ghanakanta Bora (Sattriya) 5. Ustad Waseem Ahmed Khan (vocal) 6. Kavita Dwivedi (Odissi) 7. Prof. Kiran Seth Founder: SPICMACAY	
Annual Week 2013	21- 23 Feb 2013:		Dikshu Sarma

Painting and Quiz competition by SPICMACAY	18 April 2013		
International Film Festival in association with Cine ASA.	21- 28 April		
TU Open Quiz	3 May 2013		
Spring Fest 2013	4 May 2013		Jina Rajkumari
Cultural Evening on the eve of the 11 th Convocation	23 May 2013		
Cultural Evening on the occasion of announcing Lokapriya Gopinath Bordoloi Chair.	31 May 2013		
Celebration of Rabha Diwas	20 June 2013		
General Freshers'	24 August 2013		
Stage play by Students	21 September 2013		
Techxetra 2013	25-27 October 2013	Local Industries & Business Houses	Benny Dayal
Photography Workshop and Exhibition	1-2 November 2013		
Tribute to Dr Bhupen Hazarika	5 November 2013		
Staging of a Play	13 November 2013		Seema Biswas
University Debate Competition	27 November 2013		
Shilpi Diwas Celebration	17 January 2014		Mrs. Tarali Sarma
Annual Week	20-23 February 2014		1. Dr. Sanjukta Parashar, IPS 2. Manoj Baruah 3. Purabi Sarma 4. Northeast Breeze
Workshop on Bihu Dance and Dholbadon	22 – 29 March 2014		Somnath Bora (Oja)
Production on Bhupen Sahitya	31 March 2014		Jayant Kastaur
Spring Fest 2015	3 May 2014		
Celebration of Rabha Divas	20 June 2014		Dr. Anima Choudhury
Tribute to Kaviguru Rabindranath Tagore	7 August 2014		Dr. Mukti Deb Choudhury
Celebration of Sankardev Tithi	27 August 2014		Prof. Nilima Sarma
Stage Play	31 October 2014		
TechXetra 2104	17-19 October 2014	Local Industries & Business Houses	Parikrama Band Sunburn DJ
Rashtriya Ekta Diwas Celebration	31 October 2014		
Celebration of Death Anniversary of Bhupen Hazarika	5 November 2014		Smt. Sudakshina Sarma (eminent singer, sister of Dr. Bhupen Hazarika)
Cultural evening on the eve of 12 th Convocation	19 November 2014		

Cultural evening in honour of The President of India	20 November 2014		1.The Hon'ble President of India, 2.The Hon'ble Governor of Assam 3.The Chief Minister of Assam
Shilpi Diwas celebration	17 January 2015		Dr. Parineeta Goswami
SPICMACAY (Heritage Club)	19 January, 2015		1. Shirin Sengupta (vocal)
Celebration of Republic Day	26 January 2015		
Annual Meet	5 – 7 March 2015		1. Mr. Sarat Chand, GOC, 4 Corps 2. DC, Sonitpur 3. Mr. Angaraag Mahanta

The following events are worth special mention:

TechXetra

TechXetra is the annual technical festival organized by the engineering students of the University. It is a national level festival where students from different educational institutes participate in different competitions viz., Robotics, Management, Impulse Quiz Creation, D-Colosseum Science, N-school leisure online zone etc.

inSCIgnis

The annual, national level science festival of Tezpur University **inSCIgnis** is organized by the Students' Science Council of the university. Celebrated on the occasion of National Science Day, it is one of the largest science-fest of the North-Eastern region. It showcases an array of events ranging from experimentation and designing, innovative events, quizzes, workshops, observational events, fun-events, webinars and lecture series from eminent scientists from around the globe.

Sampark... the interface

Sampark is the yearly benchmark event of the Department of Business Administration of Tezpur University, organized by the students with support from the faculty members. It aims at establishing a synergic relationship and interface platform where the management fraternity from both the corporate and academic world can share their experience, thereby enriching the students. It not only helps promote the industry-academia relationship but also propagates a culture of management consciousness amongst the people of North-East region in particular.

Annual Meet

The Annual Meet of Tezpur University is organized by the Students Council every year. There are provisions for both group and individual competitions. The group competitions are either Inter-Departmental or Inter-Hostel. The categories under which different competitions held are Dance, Drama, Song, Literary, Debate, Photography, Fine Art, Wall Magazine, Cultural etc. Every year a grand cultural night is organized on the last day of the Annual Week.

5.3.2 Give details of the achievements of students in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. during the last four years.

Achievements of the Students of Tezpur University 2012-2015:

Highlights of some of the notable student achievements in Zonal/ National/ International Level Cultural activities are provided below.

Zonal Competitions

1. **30th Inter University East Zone Youth Festival, 5-9 January, 2015:**
Organized by Association of Indian Universities, Sponsored by Ministry of Youth Affairs and Sports, GOI in association with Ranchi University, Ranchi.
 - 1st Prize: Debate, Western Vocal
 - 2nd Prize: One Act Play
 - 3rd Prize: Folk Orchestra, Elocution, Spot Photography, Quiz, Folk Dance
 Best Literary Team: Tezpur University
2. North East Leg of the **All India Inter University Debate Competition, “The Great Debate 2014”**, October 16-17, 2014.
(British High Commission, Kolkata & Debating Society IITG)
Winner: Kalyani Kaushik, B. Tech. (ME) and Ayushman Devraj, an Integ. MA (EFL). They will represent the North Eastern Region in the national competition to be held in New Delhi in November, 2015.
3. **Mahindra Auto Quotient 2014** (auto quiz), Regional round, NIT, Silchar.
Winner: Ashutosh Das (M. Tech, ME) and Vedanta Baruah (M. Tech, ME)
4. **29th Inter University East Zone Youth Festival, 2013:**
Organized by Association of Indian Universities, Sponsored by Ministry of Youth Affairs and Sports, GOI in association with Lalit Narayan Mithila University, Darbhanga, Bihar.
 - 1st Prize: Folk Orchestra, debate
 - 2nd Prize: Quiz
 - 3rd Prize: photography
 Best Literary Team: Tezpur University

NATIONAL LEVEL COMPETITIONS

1. **Inter-University Annual Debate Competition, 7th November, 2015.**
Organized by Observer Research Foundation (Kolkata chapter)
First prize (for the motion): Ms. Kaveri Sarkar
First Prize (against the motion): Ms Piyashi Dutta
2. **30th All India Inter University Youth Festival, 12-16 February, 2015.**

Organized by Association of Indian Universities, Sponsored by Ministry of Youth Affairs and Sports, Govt. of India, in association with Devi Ahilya Viswavidyalaya, Indore.

- One Act Play: 2nd Prize
- Western Vocal: 4th Position

3. Sweden India Nobel Memorial Quiz, 2014, New Delhi (Swedish Embassy)

Winner: Ashutosh Das (M. Tech, ME), Anubhav Joshi (B. Tech, ME) and Subhasish Dutta (B. Tech, ECE), November, 2014.

4. 29th All India Inter-University Youth Festival, 18-22 Feb, 2014, Kurukshetra

A team of 14 students from Tezpur University participated in the cultural and literary competitions of 29th All India Inter University Youth Festival organized by Association of Indian Universities, Sponsored by Ministry of Youth Affairs and Sports, Govt. of India, in association with Kurukshetra University, Haryana from 18th to 22nd February 2014. The achievements of Tezpur University in the various competitions are as follows:

- Folk Orchestra: 2nd Prize
- Quiz: 3rd Prize

5. Manik Chandra Barooah National Level Debate, 2013 & 2014.

Second Best Debate Team

6. Manik Chandra Barooah National Level Debate, 2012.

Best Debate Team.

7. All India Inter-University National Level Youth Festival, 22-26 Jan, 2012, Nagpur.

Organized by Association of Indian Universities, Sponsored by M/O Youth Affairs & Sports, Govt. of India in association with Rashtrasant Tukodji Maharaj Nagpur University.

- 3rd Prize: Folk Orchestra, Photography, Quiz
- 4th Prize: Classical Dance

8. Mahindra Auto Quotient 2011 (Auto quiz), National Final

Winner: Arunabh Choudhury and Ashutosh Das, Department of Mechanical Engineering.

INTERNATIONAL COMPETITIONS

1. 8th South Asian Universities International Youth Festival 7-11 March, 2015 organised by Association of Indian Universities, New Delhi and sponsored by Ministry of Youth Affairs and Sports, Government of India held at Mohanlal Sukhadia University, Rajasthan

- The Best Regional & Folk Team Award

2. (i) National Silver Karmaveer Chakra, 2014-15, and

(ii) AFRC Apeejay Karmayuga Bronze Chakra

Ms. Jurismita Puzari, a student of the Department of MCJ of Tezpur University for making best contributions towards educating the underprivileged and for rendering commendable services for social empowerment for the year 2014-15.

Regional & State Level**Best Debate Team: Tezpur University**

Tezpur University students have won most of the state level debating competitions held during last four years:

1. Parag Das Memorial All Assam Debate Competition held at State Museum, Guwahati, 2015, 2014, 2013 and 2012.
2. All Assam Debate in memory of Dr. Surendra Nath Das, B.H. College, 2015.
3. All Assam Debate, Tezpur College, April 2015.
4. All Assam Open Debate organized by AJYCP, Jorhat, 2015.
5. Golap Sarma Memorial Northeast level debate competition, North Lakhimpur College, 2014 and 2013.
6. All Assam Debate n, Pragiyotika College, 2014, 2013 and 2012.
7. K. C. Kakati Memorial Debate n, J. B. College, Jorhat, 2013, 2012.
8. Radha Gobinda Baruah Memorial Debate Competition, 2013, 2012.
9. Manash Barua North East Level Debate, organized by Alumni Association, Goalpara Army School, 2013 and 2012.
10. Kailash Nath Sarma Memorial Debate, 2013.
11. TechXetra 2012 Debate (National Level).
12. Tonu Konwar Memorial All Assam Debate, Gargaon College, 2012.

Best Bihu Team: Tezpur University

Bihu dance is the most popular group folk dance in Assam related to the Bihu festival. Tezpur University Bihu team of students won the following state level competitions:

- All Assam Bihu Husori Competition “Bordoisila” Assam Engineering College, Guwahati, (annual festival) Pyrokinesis 2015.
- All Assam Bihu Husori Competition, Tezpur University as a part of Spring Fest, Basantar Lahare Lahare 2015.

Communica Northeast Level Festival 2015

(Department of Mass Communication and Journalism, Gauhati University)

A team of seven members participated in the festival and bagged the following prizes.

- Best in Photography
- Best Extempore Speech
- Second Best in Article Writing
- Second Best in Ad Making

Invited Programmes by Tezpur University Students:

1. **2nd October 2012:** at the 4 Corps, Gajraj Corps at Mission Chariali programme organized by Army Wives Welfare Association (AWWA), Gajraj Corps on the occasion of Golden Jubilee Celebration of Gajraj Corps.
2. **9th March 2013:** Army headquarters, Missamari for a cultural program by the students of Tezpur University on the occasion of Women's Day celebration.

5.3.3 Does the university conduct special drives / campaigns for students to promote heritage consciousness?

Yes the University has certain avenue which in a way creates a consciousness among the students regarding the heritage of India.

Some of the activities undertaken during last three years are:

1. A Special lecture by Prof. Amarjyoti Choudhury, scholar and litterateur on the occasion of World Heritage Day, 20 April, 2015.
2. A prize money essay competition among students and research scholars of the University on the topic 'Heritage and Development' on the occasion of World Heritage Day, 2015.
3. A Photography competition on the theme 'Craft Traditions of Assam' on the occasion of World Heritage Day, 2015.
4. Organized a Heritage Walk to selected sites of Tezpur for school students (Napam MV School) guided by a few students of the Department of Cultural Studies under the supervision of Asst. Curator (25 April, 2015).
5. Organized a workshop on 'Docent (museum guide) training' for interested students of Department of Cultural Studies (August, 2013).
6. Photographic Exhibition on 'Heritage of Tezpur' (18-27 April, 2013) organized by Museum and Archive, Department of Cultural Studies, TU for students and general public on the occasion of World Heritage Day, (including an interactive session with the famous photographer, Mr. Nalini Baruah on his lifelong experiences of documentation of heritage of the region)
7. Organized a Heritage Awareness campaign for school students on the occasion of International Museum Day, 18 May, 2012.
8. Special lecture by Dr. S.S. Gupta, Superintending Archaeologist, Archaeological Survey of India, Guwahati Circle on the occasion of World Heritage Day, 2012.
9. Organized a photo exhibition on 'Heritage of North East India' (18-27 April, 2012) on the occasion of World Heritage Day, 2012 in collaboration with Archaeological Survey of India.
10. Periodic guided tour of the Museum and Archive of the Department of Cultural Studies for school, college and university Students.

Tezpur University also has a **SPICMACAY Heritage Club** comprising of students and faculty in charge. The club has been trying to promote the rich heritage of India by conducting recitals, competitions on heritage etc. An effort

has also been made to prepare a calendar for the whole year, which will comprise of various cultural and heritage related issues.

5.3.4 How does the university involve and encourage its students to publish materials like catalogues, wall magazines, college magazine, and other material? List the major publications/ materials brought out by the students during the last four academic sessions.

- University supports financially and through administrative support to publish Annual magazine (Srijan: An annual multi lingual magazine) where majority content are contributed by students. There is an elected student secretary and nominated student Editors.
- It has also been successfully publishing a science oriented Souvenir “InSCIgnis” every year which is edited by a committee of students.
- Tech-Xetra, another annual souvenir is published by the students on the occasion of its annual technical festival.
- Apart from the above publications, Hostels and Departments bring out their own Wall Magazine every year.
- During the University Annual Meet inter-Hostel and inter-Department competitions for the best three wall magazine are successfully held and prizes are awarded to winning groups.

5.3.5 Does the university have a Student Council or any other similar body? Give details on its constitution, activities and funding.

Tezpur University has elected Student Council (TUSC) (under revision) comprising of

1. Vice President
2. General Secretary
3. Assistant General Secretary
4. Indoor Games Sports Secretary
5. Outdoor Games Sports Secretary
6. Cultural Secretary
7. Literary Secretary
8. Magazine Secretary
9. Hobby Club Secretary and
10. Executive Members- One representative from each programme (each PG and each UG programme in each department) and one representative from regular and full time PhD Scholars of each School.

Election and proceeding of TUSC are governed as per Ordinance No. 25 under Statutes 39 of Second Schedule of Tezpur University Act and amended by Board of Management vide Resolution No. B.68/2013/1/1.3, Dated 23-05-2013.

TUSC activities

- Organization of Sports and Cultural events on campus/outside Tezpur University
- TUSC conduct outreach programmes like, blood donation, health awareness, flood relief etc

- Sensitizing students time to time as per University's scheduled programme on academic and co-curricular matters
- TUSC mediates between the students and the authority on important issues like hostel infrastructure, foods, and campus facilities.
- TUSC nominates students to represent in all important forums viz., BOM, RC, students Disciplinary Committee, Library Committee, DAC, DRC etc.

Budget allocation for Office of the Dean, Student Welfare

Sl. No.	₹ in lakhs					
	Year	2011-12	2012-13	2013-14	2014-15	2015-16
	Non-plan					
A.	Contingency	0.15	0.15	0.20	0.20	0.20
B.	Student activities expenses	2.50	3.50	6.00	10.00	12.00
		2.65	3.65	6.20	10.20	12.20

5.3.6 Give details of various academic and administrative bodies that have student representatives on them. Also provide details of their activities.

- *Board of Management:** 1 Research Scholar, 2 Students
- *Academic Council:** 3 nominees as Student Representatives
- School Board:** 1 student from each department
- Departmental Board of Studies:**
2 senior students, 2 Research Scholars, 1 Alumni
- Departmental Advisory Committee (DAC):**
2 senior students, 2 Research Scholars
- Students' Disciplinary Committee:**
Two selected members by Students Council are the members of this committee, who take part in the Disciplinary Committee meeting pertaining to student's indiscipline.
*special invitee, proposal for due inclusion submitted for approval of the Visitor

Other Committees:

Student members are co-opted in various sub-committees of Foundation Day Celebration committee, Convocation Committee, Republic Day and Independence Day Celebration Committee, Anti-Ragging Committee, Anti-Ragging squads etc.



Criterion VI
GOVERNANCE, LEADERSHIP AND
MANAGEMENT

CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT**6.1 Institutional Vision and Leadership****6.1.1 State the vision and the mission of the university.****Vision:**

To develop human excellence and inculcate leadership through hard work and creativity.

Mission:

To render Tezpur University one of the most preferred destinations of students, faculty and scholars / and employees.

To be in the top 50 universities in the world...

6.1.2 Does the mission statement define the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, the institution's tradition and value orientations, its vision for the future, etc.?

Yes. The mission statement of the university indeed defines the institution's distinctive characteristics while carrying the vision as its mandate, it aims to be within top 50 universities of the world.

The university offers courses and promotes research in areas which are of special and direct relevance to the region as well as in emerging areas in science and technology. It also emphasizes on the causes in management and social sciences catering to the special needs of the society in specific fields of Research & Development.

It, at the same time strives to offer employment oriented and inter-disciplinary courses. Value addition opportunities are offered to its students through various inter-disciplinary courses both credit as well as add-on courses.

The university strives to provide flexible education as regards to method and pace of learning, combination of courses cutting across disciplines. Need based orientation is provided to students to pick up the pace of learning.

In devising the course structure, there is ample stress on value oriented education and promotion of national integration. In each programme, a fair number of courses of humanities and social sciences are also offered.

6.1.3 How is the leadership involved

- * in ensuring the organization's management system development, implementation and continuous improvement?
- * in interacting with its stakeholders?
- * in reinforcing a culture of excellence?
- * in identifying organizational needs and striving to fulfill them?
- The leadership is involved in ensuring the organization's management system development, implementation and continuous improvement by

assessing the needs followed by preparation of plan of action, its implementation and revamping of such system with passing of time so that university remains vibrant.

- regular interface (usually in the form of discussion/ meetings) with various stakeholders directly as well as indirectly through various bodies. The Vice Chancellor holds meetings with students, teachers & employees at least once in every semester. He also interacts with guardians of students and local peoples' representatives. Registrar holds meetings with non-teaching staff.
- deployment of committee system with all level representation for effective decentralization of decision making process.
- evaluation of feedback of stakeholders and appropriate action taken.
- Job satisfaction survey of employees is also in practice.

6.1.4 Were any of the top leadership positions of the university vacant for more than a year? If so, state the reasons.

None

6.1.5 Does the university ensure that all positions in its various statutory bodies are filled and meetings conducted regularly?

Yes. The university maintains a calendar for holding the meetings of its various statutory bodies and vacant positions are filled up as soon as they fall vacant. However, in case of vacancy of Visitor's nominee on various bodies / selection committees, the University depends upon MHRD's action, though it initiates well ahead of time.

6.1.6 Does the university promote a culture of participative management? If yes, indicate the levels of participative management.

The decision making process in the university is based on participative principles, involving the stakeholders of all spectrums. This is achieved through a participatory Committee System.

Starting at the departmental level, the **Departmental Advisory Committee** and the **Board of Studies** have representatives from the students, research scholars and alumni in addition to its teachers. The **Academic Council**, which is the highest academic decision making body comprises representatives of various sections of the university community including students and research scholars and society representatives. The highest decision making body, the **Board of Management** too has representatives from various sections of the community like representatives of Assistant Professors, Associate Professors, Professors and Deans, representatives of people from various spheres of society. Student's representatives are invited as special invitee. Proposal for student's representatives as regular member on BOM has been submitted to MHRD for approval. Same is the case for planning Board.

Similarly, other decision making bodies such as the **Finance Committee**, **Building Committee** have representations from the faculty and experts from various fields. The Planning Board, the Governing Body for Technical Campus (SoE) have representatives from industry and other stakeholders.

Further, considerable administrative and financial autonomy is allowed to the Deans of Schools and the Heads of Departments, who in turn, consults the respective School Board/DAC, as the case may be for execution of the same.

The Deans Committee meets very often to provide guidance and assistance to the Vice Chancellor on almost all matters pertaining to the university.

6.1.7 Give details of the academic and administrative leadership provided by the university to its affiliated colleges and the support and encouragement given to them to become autonomous.

Not applicable.

6.1.8 Have any provisions been incorporated / introduced in the University Act and Statutes to provide for conferment of degrees by autonomous colleges?

Not applicable.

6.1.9 How does the university groom leadership at various levels? Give details.

The university invokes participation of all faculty members in various decision making processes by means of eliciting responses and facilitating discussions on various matters of importance in various forums. Younger faculty members are encouraged to express their viewpoints. Committees drawn at university and departmental level for various purposes include junior faculty members along with senior members, providing them a good opportunity to be a part of the university management system. Faculty members are nominated to lead various committees of the university for an efficient and participative management system with greater autonomy.

Students are also involved in decision making process and this provides a platform for leadership training. Representation of students in Board of Management, Academic Council, Planning Board, DAC, BoS, etc. give them scope for learning issues pertaining to administrative matter and management of academic institutions. In addition, leadership training programmes are organized by the Department of Business Administration and Training and Placement Cell for the benefit of students.

The Hostel administration is assisted by students ranging from the running of hostel mess, conducting day to day affairs and organizing various events. Students are given the responsibility to organize events like TechXetra, InScignis, Sampark, Annual Meet and other annual events under overall supervision of faculty members.

6.1.10 Has the university evolved a knowledge management strategy? If yes, give details.

Tezpur University firmly believes that effective knowledge management is required by the university on the following fronts:

- i) Effective transmission of knowledge to student community to generate useful work force for the society.
- ii) Arranging suitable placement for the student community so that their evolved expertise is utilized appropriately.
- iii) Preserving IPR of the research community (comprising of faculty members, research scholars and students) in case of any new development or invention and channeling the new knowledge for appropriate use in the society.

Tezpur University has geared up itself for meeting the management requirement on all those fronts so that knowledge evolves as empowerment of the society.

6.1.11 How are the following values reflected the functioning of the university?

- * **Contributing to national development**
- * **Fostering global competencies among students**
- * **Inculcating a sound value system among students**
- * **Promoting use of technology**
- * **Quest for excellence**

National and global perspectives are kept in mind while designing a course curriculum to ensure that the curriculum bears some thrust on national development.

- Curricula are designed keeping in mind the demand for trained manpower requirement at the national and international levels. Programmes such as B. Tech., Master's Degree in Polymer Science and Technology, Food Engineering and Technology, Molecular Biology and Biotechnology, Bioinformatics, Nano-Science and Technology, Computer Science and Engineering, Vocational Programmes and Diploma as well as Certificate programmes have been geared up to contribute to the current and anticipated demand of the country.
- Curriculum seeks to incorporate knowledge and awareness of different aspects of national importance like Disaster management, Renewable energy, Green Technology, Green Chemistry, Energy technology, Food Processing Technology, and preserving local heritage.
- MoUs with other universities across the globe for exchange of students/scholars and programmes give scope for growth of global competencies among students. So far, scholar library
- has been carried out with the following Institutes abroad:

1. Åbo Academi University, Finland (2011-2013) under Indo_Finnish Project (exchange of visit by research scholars, two visits from either side)
2. University of Nottingham, UK (2012-15) under which 3 batches (2-4 scholars each batch) of research scholars from either institute have visited the other since 2012.)

Research Scholars of the Department of Energy, Tezpur University also visited several universities of Germany and Belgium as a part of SAHYOG Exchange Programme.

- Hindi Department has been started to cater to manpower requirement and promotion of the national language in the region which is expected to be helpful in promotion of national integration. It regularly conducts in-house training programmes as well as programmes for other participants.
- Department of Education has been created to cater to the huge requirement of trained manpower in teaching profession of the region. A TLC has been created under Centres for Excellence for Curriculum and Pedagogy under Pandit Madan Mohan Malaviya National Mission for carrying out a wide range of activities including
 - Development of Teaching Learning Materials including E-content
 - Prepare an outline of different pedagogy and scheme of assessment and evaluation
 - Conducting Professional Development Programmes
- University puts high emphasis on promoting learning experience cutting across disciplines. A basket of courses offered by various departments are open to students of all departments irrespective of their disciplines.
- Courses in Humanities and Social Sciences (under CBCT) are offered to students of Science and Technology programmes which are expected to inculcate social values and responsibilities.
- Professional Programmes such as the MBA, MCA, M. Tech. (IT), MCJ have been successfully running in this university.
- Vibrant NCC and NSS taking part in different activities also acts as a training of the students. Yoga made a one of add on courses.
- Access to academic resources vide National Networks: INFLIBNET, NPTEL, National Knowledge Network (NKN).
- Smart classrooms, video-conferencing facilities, fully networked campus, well equipped laboratories with state of the art equipment. Central Instrumentation facility, Equipment made accessible to different users.
- The Centre for Innovation, Incubation and Entrepreneurship (CIIE) to promote innovation and entrepreneurship development in the region.
- Students are trained for appearing in various competitive examinations
- Encouraging student and teachers' participation in seminars and workshops in emerging areas of knowledge

The Vice-Chancellor and senior faculty members of the university regularly address all sections of the University community impressing upon them to keep up to the national and international levels of achievements and excellence.

University regularly organizes talks and interactive sessions with some of the top practitioners in the field of Sciences, Technology, Arts, Humanities, Diplomacy, and Politics for promotion of right kind of values. University is in the constant process of seeking to promote an environment of seeking excellence, tolerance and equity. Renowned experts are invited to be a part of various decision making bodies of the university. At the departmental level, the Board of Studies includes two external experts who are consulted in various issues related to the programmes offered by the departments.

6.2 Strategy Development and Deployment

6.2.1 Does the university have a perspective plan for development? If yes, what aspects are considered in the development of policies and strategies?

- * **Vision and mission**
- * **Teaching and learning**
- * **Research and development**
- * **Community engagement**
- * **Human resource planning and development**
- * **Industry interaction**
- * **Internationalisation**

Tezpur University prepares its Vision Document for a specific period and develops 5 year perspective plans in line with the Vision document after thorough discussions and debates at all levels and after taking into consideration of all perspectives as briefed below.

- * **Vision and mission:** keeping the objectives of the community as engaged in the First Schedule of the TU Act, the vision and mission of the university have been framed so that with the fulfilment of the mission to attain the vision, the University can be within the top universities of the world, to be one of the best university in the country.
- * **Teaching and learning:** In the prospective plan departments have explained on innovative teaching learning and the methodology to implement these objectives. Skill development is one of the important components.
- * **Research and development:** Every department has framed its Research & development plan for next couple of years with targeted output.
- * **Community engagement:** It has been a regular practice of the department to get involved in community development through variant outreach or extension programmes in the district of Sonitpur, with special emphasis in rural areas in the vicinity of the University. The University has adopted few villages for their holistic development. A strategic development plan for a walking zone in the Tezpur town has also been proposed to District Administration as a Collaborative Development project.

- * **Human resource planning and development:** The University receives teaching and non-teaching positions against plans from the UGC. Need analysis is done at departments/cells/centres/offices and based on this the university advertises the positions in leading newspapers and the website. Faculty and employees are given opportunity for career progression and updation. *(Please also refer to 2.4.1 & 2.4.4)*
- * **Industry interaction:** The University has a clear strategy on industry interaction. In course curricular development committees of many of the departments representatives of various industries are involved. Internship of students are also attached to various industries. Departments are encouraged to depute teachers to industries for collaborative activities. It is worth mentioning that the University has established an industry Chair with the sponsorship of Mumbai based industry in the department of Chemical Sciences. The Best Post Graduate Award of the University is sponsored by T & I Pvt. Ltd. since the first convocation with an endowment fund.
- * **Internationalisation:** The University has an International office to help departments to collaborate with international agencies; to get international students, etc. A few international collaborative projects are also being run by some departments; exchange/visit of scholars and faculty is a regular feature.

6.2.2 Describe the university's internal organizational structure and decision making processes and their effectiveness.

The organizational structure of the university is as follows:

The Board of Management (BoM) is the principal executive body of the university having the power of management and administration of the revenue and property of the university and the conduct of all administrative affairs of the university not otherwise provided for. This body meets at least 4 times a year and provides the general guidance and direction to the university administration.

Constitution of the Board of Management

1. Vice-Chancellor: Chairman
2. Pro Vice-Chancellor
3. One Dean of Schools, by rotation on seniority basis to be nominated by the Vice-Chancellor
4. One Professor who is not a Dean of School by rotation on seniority basis to be nominated by the Vice-Chancellor
5. One Associate Professor by rotation on seniority basis to be nominated by the Vice-Chancellor
6. One Assistant Professor by rotation on seniority basis to be nominated by the Vice-Chancellor
7. One lady of distinction of academic and public life to be nominated by the Vice-chancellor
8. 4 (four) persons of distinction in academic and public to be nominated by the Visitor

9. Registrar, Secretary
10. 3 student members

**special invitee, proposal for inclusion as regular member submitted*

The Academic Council (AC) is the principal academic body which exercises general supervision over the academic policies of the university.

Constitution of the Academic Council

1. Vice Chancellor, Chairman
2. Pro Vice Chancellor
1. All Deans
2. All Heads of Departments and Centres
3. Two Professors
4. All Professors*
5. Two Associate Professor by rotation on seniority basis to be nominated by the Vice Chancellor
6. Two Assistant Professors by rotation on seniority basis to be nominated by the Vice Chancellor
7. Three distinguished academicians to be nominated by the Board of Management.
8. One representative each from
 - (a) Ministry of Human Resource Development, Government of India
 - (b) University Grants Commission
 - (c) North Eastern Council
 - (d) The State Government of Assam (Education, Science & Technology .Department)
9. The Controller of Examinations
10. Librarian : Member
11. The Registrar : Ex-officio Secretary
12. Student members*

**special invitees*

The Planning Board is the principal planning body of the university which reviews the educational programmes offered by the university. The recommendations made by the Planning Board are bound to be considered by the Academic Council and the Board of Management.

Constitution of the Planning Board

1. The Vice-Chancellor - Chairman
2. All Deans and Associated Dean,
3. Six teachers to be nominated by the Academic Council with at least one teacher of each rank.
4. One representative each from the
 - (a) Ministry of Human Resource Development, Government of India.
 - (b) University Grants Commission.
 - (c) North Eastern Council.

5. The State Government of Assam. (Education, Science & Technology, Department).
6. Two eminent persons from the field of education and industry to be nominated by the Board of Management
7. Registrar, Secretary

The Finance Committee examines the accounts and scrutinizes the university proposals for expenditure. This committee is also responsible for formulating the annual budget of the university.

Constitution of the Finance Committee

1. Vice Chancellor, Chairman
2. Pro Vice Chancellor
3. Three persons nominated by the Board of Management
4. Three persons nominated by the Visitor
5. Finance Officer, Secretary

The Building Committee is responsible for finalizing the plans and estimates, tenders of various construction projects approved by the UGC and ensuring completion of the projects in accordance with the accepted plans and estimates and proper utilization of the grants.

Constitution of the Building Committee

1. The Vice-Chancellor, T.U. or his nominee not below the rank of a Professor- Chairman
2. One representative of the Assam PWD not below the rank of a Superintending Engineer.
3. One representative of the Board Of Management of the University.
4. One representative of the Planning & Academic Committee
5. Two experts to be nominated by the Board of Management
6. Finance Officer of Tezpur University
7. University Engineer of the University
8. University Architect/ Govt. Architect
9. Registrar of the University - Member Secretary.
10. One representative of the user Department (s).

The Library Committee is responsible for framing the general rules for management of the library and advises the Librarian regarding the overall development of the library and to prepare the annual budget estimates of the library for submission to the Board of Management.

For constitution of the Library Committee, please refer to 4.2.1.

The respective **School Boards** review the decisions of the Departments in respect of Academic Policies, course structure etc. The Boards of PG/UG Studies of the departments scrutinize the academic proposals submitted by the departments and make suggestions for changes if it finds necessary. Approval of School Board is necessary for placement of any academic proposal submitted to the Academic Council. For matters other than academic policies,

the Departmental Advisory Committees (DAC) are the decision making bodies at the departmental level.

Constitution of School Board

1. Dean of the School
2. All heads under the School
3. The Controller of Examinations - Secretary

Constitution of Board of Studies

1. Head of the department
2. All regular teachers of the department
3. 2 experts nominated by the Vice-Chancellor in consultation with the Head of the department
4. Student nominees, including Ph.D. scholars
5. An alumni of the department

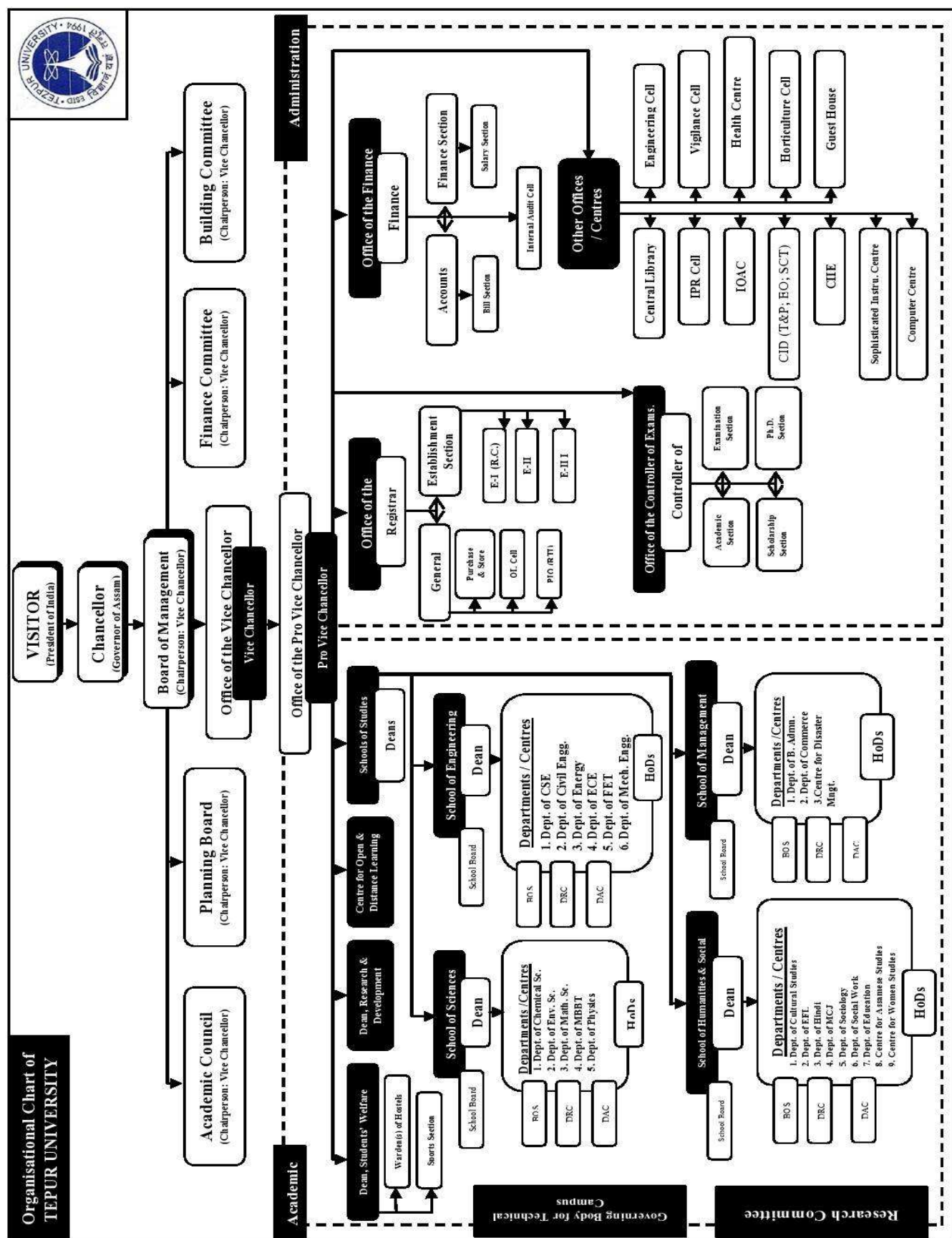
Constitution of the Departmental Advisory Committees

1. Head of the department
2. All regular teachers of the department
3. 2 experts nominated by the Vice-Chancellor in consultation with the Head of the department
4. Student nominees, including Ph.D. scholars

A **Governing Body** monitors the overall activities of the technical programmes under the School of Engineering. It has representatives from AICTE, DTE-Assam, Industries and Academics.

The Vice-Chancellor is the principal executive and academic officer of the University and exercises general supervision and control over the affairs of the University and gives effect to the decisions of all the authorities of the University. The Vice-Chancellor is the ex-officio Chairman of all the major authorities of the University viz., the BoM, the AC, the Planning Board, the Finance Committee. He is also ex-officio Chairman of the Research Committee, the Building Committee as well as the Library Committee.

The Vice-Chancellor is assisted by the Pro-Vice-Chancellor, the Registrar, the Finance officer, the Deans and the Heads of Departments and other administrative offices in the execution of the day to day functioning.



6.2.2 Tezpur University Organizational Structure (as on Nov, 2015)

6.2.3 Does the university have a formal policy to ensure quality? How is it designed, driven, deployed and reviewed?

Yes.

- IQAC monitors faculty members' progression
- The Planning Board reviews the academic progression/ implementations of the academic programmes
- Academic and Administrative Audit (AAA) on regular basis assesses the performance of the university progress through external experts.
(1st AAA was conducted in 2010, 2nd in 2013)
- DAC, BOS and School Boards monitor course curricula and academic progression of the University thereon.
- Monitoring of research activities by the regular meetings of DC, DRC and RC.
- Examination Committee for review of students' performance in examinations.
- Student feedback mechanism on course instruction, course curricula and departmental performances.
- Review of syllabi by Board of Studies to keep it up to date.

6.2.4 Does the university encourage its academic departments to function independently and autonomously and how does it ensure accountability?

The academic departments are encouraged to function with autonomy in Academic, Administrative and Financial matters.

Autonomy is allowed in respect of

- Syllabus formulation and revision with incorporation of expert opinion and approval of the Board of Studies
- Financial autonomy for conduct of day to day operations (limited)
- Grant of leave (Casual, duty, SCL etc.) to faculty members
- Engagement of Visiting Fellows, Guest Faculties with approval of Dean concerned
- Engagement of teaching assistants
- Deputing teachers to visit industries for collaborative activities
- Conducting tests, except Semester-end Examination which is conducted school-wise.

Accountability:

- Syllabus modification etc. are scrutinized through external experts and is channeled through BOS (comprising of internal, external members and student representatives)

Other stake holders are also involved in the process

- Leaves are granted with assurance of non-disturbance of academic activities
- Detailed scrutiny of Teaching requirements for appointment of Teaching Assistants via DAC and Dean of School. Assistants selected through a process of personal interview and class room demonstration

- Monitoring of activities through DAC, BOS. Monitoring of research activities is maintained via DC and DRC's, which are to submit periodic appraisal on the performance of students
- Discipline in the Department
- Student performance
- Research output

6.2.5 During the last four years, have there been any instances of court cases filed by and against the institute? What were the critical issues and verdicts of the courts on these issues?

Yes. The number of cases is very few.

(Details provided in **Annexure-IV**)

6.2.6 How does the university ensure that grievances/ complaints are promptly attended to and resolved effectively? Is there a mechanism to analyse the nature of grievances for promoting better stakeholder-relationship?

Tezpur University's Grievance Registration Portal is linked with MHRD's CPGRAMS through which any person can register a grievance and monitor the status.

The University has an Internal Complaints Committee as per the provisions of The Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013 to look after all reported grievances of all female students and employees. In addition to this, there are Grievance Redressal Committees in each department for all faculty, student and staff to address any kind of grievances. Grievances can also be registered at the Online Grievance Redressal mechanism and the same gets automatically directed to the designated official. The University is sensitive towards any sort of grievances and takes actions *suo moto* even if it is not reported formally. Further, each faculty member is assigned a small group of students for mentoring.

The Vice Chancellor and the Registrar monitor the speed of redressal.

6.2.7 Does the university have a mechanism for analyzing student feedback on institutional performance? If yes, what was the institutional response?

No. The present student's feedback form does not cover any para on institutional performance. Revision of the form to incorporate feedback on institutional performance has been proposed.

6.2.8 Does the university conduct performance audit of the various departments?

- The Performance Audit of various Academic Departments / Centres including Administration is conducted by a duly constituted Academic and

Administrative Audit (AAA) Committee comprising external experts on regular basis. The last Academic and Administrative audit took place in December, 2013.

- The Financial Audit is conducted by the Internal Auditor with the help of a qualified CA firm and then finally by DGA (Central), Kolkata.

6.2.9 What mechanisms have been evolved by the university to identify the developmental needs of its affiliated institutions?

Not applicable

6.2.10 Does the university have a vibrant College Development Council (CDC) / Board of College and University Development (BCUD)? If yes, detail its structure, functions and achievements.

Not applicable

6.3 Faculty Empowerment Strategies

6.3.1 What efforts have been made to enhance the professional development of teaching and non-teaching staff?

(a) For teaching:

- Organization of in-house Induction / Orientation programmes with resource persons from NITTTR and other organizations.
- Deputing young teachers for FDP/Orientation/ Refresher courses at various Institutions/ HRDCs.
- Financial assistance for attending conferences and workshops
- Visit to industries under Industry – Academia interface programme.
- Start-up grants for new faculty members
- Deputation for training & orientation/ refresher programmes
- Empowered with Academic and Research freedom

(b) For non-teaching:

- Organization of in-house training with resource persons from inside and outside.
- Deputation of staff to other programmes of ISTM, HRDCs, UGC etc.
- Organizing motivational talks

6.3.2 What is the outcome of the review of various appraisal methods used by the university? List the important decisions.

1. Students have been included in important decision making bodies (2013).
2. More functional autonomy has been granted to the departments/schools (2012).
3. Students feedback policy re-formulated (2013, revised in 2015).

4. Elections for Student bodies implemented (2013-14).
5. Comprehensive review of the Mission Vision of the Departments (2015).

6.3.3 What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have benefitted from these schemes in the last four years? Give details.

The university has devised and implemented many welfare measures catering to the requirements of all sections of the university community. Here are some specific measures:

1. Medical facilities: Reimbursement of medical expenses is made as per Government of India rules. The University has also identified some hospitals in Guwahati as referral hospitals for the benefit of the employee and their dependents and the respective claims are settled as per approved CGHS rates. The facilities are available to all employees of the University.
2. House Building Advance: The University grants house building advance to the eligible employees for purchase of plot of land / construction of house / purchase of apartments / flats as per Government of India guidelines. As of now, around 27% of teaching & non-teaching staff has availed their benefits.
3. Festival Advance: The University grants festival advance to the eligible employees as per Government of India guidelines. The facility is available to all Group B & C employees.
4. Group Insurance Scheme: available to all employees of the University.
5. Campus Facilities: The University has provided residential accommodation to 205 teaching and 126 non-teaching employees inside the campus which about 64% of total employees. In addition, Transit accommodations have been offered to about 9% of teaching & non-teaching employees.
6. Immediate payment (on day of retirement itself) of all entitlements to superannuated employees.
7. Campus facilities for employees: Cooperative shops, skill development (dance, music, art etc.) facilities for campus children.
8. Lab training cum project execution facilities for school students.
9. Regular sports and cultural activities and training programmes for campus school students
10. Modern Day Care Center at affordable rate.
11. Campus School pre-primary to 10+2 level.
12. Wi-Fi facility to residences.
13. Yoga training sessions are available for all employees of the University.
14. Modern gymnasium facility.
15. Employees Cooperative Store facility.
16. Bank, ATM, Post Office, Eating joints, shopping centres within the campus.

17. Pragati Women's Association for carrying out welfare and recreational activities for women and children.
 18. Children's Park for recreational activities of children of employees residing in the campus.
 19. Round the clock security services in the campus.
 20. Emergency intercom number is in place for security and medical services.
 21. Supernumerary admission to employees wards (limited number)
- The welfare schemes cover the entire (100%) of its regular staff.

6.3.4 What are the measures taken by the university for attracting and retaining eminent faculty?

- The University invites senior/ elsewhere retired eminent teachers as Professor of Eminence to guide young teachers/ built new departments. These teachers are normally accommodated against vacant positions.
- Provision for accommodation on the campus.
- The university has adopted a rolling system of advertisement for faculty members, thereby enabling itself to recruit faculty members from a large number of applicants.
- Newly recruited faculty members were provided start-up grants to help them to start independent research work (1/1/2011-17/04/2014: 46 grants worth ₹ 61,04,543 sanctioned). Discontinued after initiation UGC-FRPS start-up grant.
- Off-loading of academic (teaching) responsibilities for limited number of teachers for a semester to encourage research in the departments.
- Promotion process being carried as fast as possible.
- Spotting/identifying eminent academicians and inviting personally.

6.3.5 Has the university conducted a gender audit during the last four years? If yes, mention a few salient findings.

No.

6.3.6 Does the university conduct any gender sensitization programmes for its faculty?

Yes.

The Chandrabhabha Saikiani Centre for Women's Studies and the Equal Opportunity Cell (EOC) organizes seminars, workshops, invited talks aimed at gender sensitization.

Several such programmes have been organized during last few years.

(Please refer to the Vol-II A Centre Reports of CSCWS and CID)

6.3.7 What is the impact of the University's Academic Staff College Programmes in enhancing the competencies of the university faculty?

Not applicable.

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism available to monitor the effective and efficient use of financial resources?

The mechanism of monitoring the effective and efficient use of financial resources of the university is ensured by the following authorities:

- i) The Internal Audit Officer for internal audit mechanism (presently the position is vacant-action initiated for filling up the vacancy)
- ii) Engagement of Chartered Accountant as financial consultant
- iii) Finance Committee
- iv) Board of Management
- v) Statutory Audit of the Financial Statements by the C&AG of India

6.4.2 Does the University have a mechanism for internal and external audit? Give details.

The financial transactions of the University are subject to audit by the Internal Audit Officer. The books of accounts prepared on the basis of such transactions are then audited by the Chartered Accountant engaged as Financial Consultant and the Final Statements of Accounts in the format prescribed by the MHRD, Govt. of India are prepared accordingly.

The final accounts duly approved by the Finance Committee and the Board of Management of the university are sent to the Indian Audit and Accounts Department for audit under the administrative control of the C&AG of India. The Auditor's Report together with the Audit Certificate received from the office of the C&AG of India is finally submitted to the MHRD, Govt. of India for laying on the tables of both Houses of Parliament.

6.4.3 Are the institution's accounts audited regularly? Have there been any major audit objections, if so, how were they addressed?

The annual Statements of Accounts of the University have been regularly audited by the Statutory Audit, as stated above and there have been no major audit objection on the accounts so far.

6.4.4 Provide the audited income and expenditure statement of academic and administrative activities of the last four years.

(Audited statements for last four years are provided in **Annexure I**)

6.4.5 Narrate the efforts taken by the university for resource mobilization.

Keeping in view the Government of India guidelines towards resource mobilization for development of a Corpus for the activities of an Institution, it was decided to create a Corpus Fund for better sustenance of the University, especially keeping in view the inadequacy of the financial resources owing to

reduced Government funding under certain expenditure heads. Revenues received from rentals of Guest House, shopping complex, common facilities such as the Auditorium, Council hall, Seminar halls, university's share from overhead surcharges of research projects, university share from consultancy services are the main resources of the university. A small amount is generated from agro products namely, mustard, lemon, fruits etc.

The university now contemplates to involve Alumni for resource mobilization.

6.4.6 Is there any provision for the university to create a corpus fund? If yes, give details.

As a matter of policy, the University created a Corpus Fund for better financial sustenance in case of exigent needs through appropriation of the following components:

- 50 per cent of the provision for Overhead under respective individual Research Projects of the faculty members of the University is retained in the Project for utilization as per the PI's discretion. Any donation made to the University as philanthropy by the faculty members out of their share is deposited in the Corpus Fund. Also, the savings out of the balance 50 per cent after catering to the maintenance needs of the facilities of the University is transferred to the Corpus Fund.
- A part of the University's share of the Consultancy Fees (after taking into account all statutory dues like Service Tax etc. and share of the consultant faculty members) against the Consultancy services provided by the faculty members of the University is transferred to the Corpus Fund. There is a set of rules of the University on R&D and Consultancy, which governs such sharing of the Consultancy Fees.
- 10 per cent of the charges received towards usage of the University facilities, like Guest House, Auditorium, Seminar Halls, etc. by the external agencies in connection with organizing Seminars/Workshops, etc. in the University is transferred to the Corpus Fund.
- Interest earned by investing the Security Deposits recovered from various Contractors' bills and Caution Deposits/Hostel Caution Money/ Library Security Deposits, etc. received from the students is transferred to the Corpus Fund.
- Sale proceeds from natural agro products like fruits, grass (*sold as cattle-feed*), raw cotton, etc. also form a part of the Corpus Fund.

The Corpus Fund so generated is utilized for the following purposes keeping in view the overall holistic development of the students:

- To undertake various Student Welfare Programmes, e.g., distribution of free-bicycles to the economically backward female students, providing financial assistances to the students affected by natural calamities, epidemics, major illness, accidents, etc. and to provide support to such meritorious students not covered by any Government assistance for attending Seminars/Workshops, etc.

- To provide Start-up Grant to the newly set up Extension Centre for Placement and Distance Learning of the University and for creation of necessary Infrastructure facilities for the Centre.
- To install Solar Heating Panels for providing the facilities of supply of hot water during winters to the Hostels, Guest House, Facilities for accommodation of High Dignitaries.
- To provide soft loan to the bonafide students for purchase of Laptop, Desktop Computers, etc. in their pursuit of academic excellence.

6.5 Internal Quality Assurance System

6.5.1 Does the university conduct an academic audit of its departments? if yes, give details.

The university conducts academic cum administrative audit on regular basis.

1. The first audit was conducted in 25-31 August, 2010.

External members:

1. Prof. D. T. Khating, NEHU
2. Prof. B. P. Sinha, ISI Kolkata
3. Prof. S. Bhattacharyya, IIT Kharagpur
4. Prof. S. Majumdar, Jadavpur University
5. Prof. N. Jayaram, TISS
6. Dr. R. C. Barooah, NEIST, Jorhat

2. The second Academic and Administrative Audit were conducted during 10-12 December, 2013.

External members:

Administrative Audit Committee

1. Prof. P. G. Rao, CSIR Technical Consultant & Former Director, NEIST.
2. Prof. K. G. Bhattacharyya, Dept of Chemistry, Gauhati University (Former Director, ASC, Gauhati University)
3. Mr. Debabrata Deb, Registrar, NEHU.

Academic Audit Committee

1. Prof. A. C. Bhagawati, Former VC, Rajiv Gandhi University
2. Prof. B. P. Sinha, Advanced Computing & Microelectronics Unit, Indian Statistical Institute, Kolkata
3. Prof. Bharati Sharma, Professor (Retd.), IIPA, New Delhi.
4. Prof. P. Mahanta, Dept. of Physics, Dibrugarh University
5. Prof. Amit Basak, Dept. of Chemistry, IIT, Kharagpur

6.5.2 Based on the recommendations of the academic audit, what specific measures have been taken by the university to improve teaching, learning and evaluation?

Following are a few major outcomes of the recommendations of the Academic

and Administrative Committee report:

1. Enhancement in the number of teachers.
2. Revamping the mechanism of students' feedback and the analysis thereof.

Departments, centres and various sections have looked into the implementation of the recommendations specific to them.

The IQAC has followed up the major recommendations.

6.5.3 Is there a central body within the university to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome.

The Academic Council (AC) of the University is the forum that looks into the various aspects of the teaching-learning process. The Controller of Examination (CoE) administers the policies related to teaching-learning and these are implemented in the different departments. Statistics, compliance, and case-specific reports are provided by the departments to the CoE. The CoE places the relevant information before the AC.

The Deans Committee along with the Vice Chancellor and Pro Vice-Chancellor reviews the process periodically.

For the structure of the Academic Council please refer to 6.2.2.

6.5.4 How has IQAC contributed to institutionalizing quality assurance strategies and processes?

Yes.

For quality assurance the IQAC has

- taken up exercises on its own, such as conducting workshops and orientation programmes aimed at quality improvements.
- made recommendations to other units of the University, such as use of formally defined procedures.
- monitoring of processes, through statistics, feedback, etc.

Some recommendations made by the IQAC are:

- Each department to prepare a list of journals, so that publications in these journals by faculty members shall be considered for API scores
- Standardised forms should be prepared for exchanging/changing co-supervisors for Ph.D. students, change in title of Ph.D. research, summary of changes in Ph.D. thesis as per examiners comments etc.
- For selection of employees for performance awards, the procedure should be documented and transparent.
- Feedbacks are sought from students (on courses), guardians, employers, participants of academic and training programmes.
- Statistics of faculty performance, students' admission and progression, etc. are maintained.

6.5.5 How many decisions of IQAC have been placed before the statutory authorities of the university for implementation?

Eight (2012-2015).

1. Recommended giving annual book grant to each faculty.
2. Recommended updating budget provisions for each department /centre/cell on the website.
3. Recommended framing guidelines for a research semester.
4. Recommended arranging book-fairs or sending representatives to national/international book fairs to select books.
5. Recommended taking stock of research output of every department by the Dean R&D.
6. Recommended publishing by each Department the list of journals in their discipline that are of adequate standard for considering articles for API points for faculty members.
7. Recommended maintaining project funds in bank accounts in such a way that interest accrued can be tracked.
8. Recommended conducting of Academic and Administrative Audit.

6.5.6 Does the IQAC have external members on its committees? If so, mention any significant contribution made by such members.

Yes. Some external members who are very senior professionals have made very important points in the IQAC meetings.

Some recommendations by external members of IQAC:

2. Considering its strength the university has to do more to highlight these and the achievements, and put in place mechanisms to ensure sustaining the standards.
3. After trips to other organisations, faculty members should describe the experiences in a departmental-level faculty meeting.

6.5.7 Has IQAC conducted any study on the incremental academic growth of students from disadvantaged sections of society ?

No

6.5.8 What policies are in place for the periodic review of administrative and academic departments, subject areas, research centres etc. ?

For the academic programmes, some review of students' progression is done in the form of analysis of their results at the end of each semester, and analysis of students' feedback. Review of research activities is achieved in the form of review of progress of the PhD students, and overall progress of externally funded projects. Financial functioning is monitored through internal and external audits.

Registrar organizes meeting of officers to discuss on Administrative drawback and reviews strategies from time to time. Further, discussions are held with VC, PVC & Deans on administrative reforms.



Criterion VII
INNOVATION AND BEST PRACTICES



One Student: One Tree
(Plant A Tree & Leave Your Mark)



CRITERIA VII: INNOVATIONS AND BEST PRACTICES**7.1 Environment Consciousness****7.1.1 Does the university conduct a Green Audit of its campus?**

No

7.1.2 What are the initiatives taken by the university to make the campus eco-friendly?*** Energy conservation:**

- The University conducts awareness drive on judicious use/ consumption of energy in departments/ residences and hostels with the help of student volunteers under supervision of teachers.
- The new buildings are designed to make them eco-friendly as far as possible, so that minimum power is consumed for light and fan during day time.

*** Use of renewable energy :**

- Use of solar power for water-heaters in some hostels and some street lights are in place. A bio-gas plant on pilot project basis is operational since 2013 in one hostel producing 50m³ gas per day which is used in the hostel kitchen.

*** Water harvesting**

- Having large water bodies within the campus that can hold good amount of rain water, which in turn is being used for gardening and some other similar activities.

*** Check dam construction**

- None

*** Efforts for Carbon neutrality**

- Encourage use of bicycles within the campus, adequate sun-light in most of the rooms in the new buildings.
- Ban on burning of waste, wood and foliage on the campus

*** Plantation**

- Maintains large patches of land for plantation
- Maintains a large plantation along roads, gardens, buildings, hostels and residential complexes on the campus on a regular basis
- Maintains a few citrus gardens
- Maintains a Botanical Garden (approx. 10 Bigha/3.3 Acre) with varieties of local and exotic plants
- Orchid plantation in existing trees of the campus
- Plantation programme of students in the University Campus under *TU one student: one tree* scheme, allowing each student to plant trees on the space allocated to him/her
- The campus is generally green round the year, more than seven thousand trees have been planted over the past seven years

* **Hazardous waste management**

- Proper waste handling procedures in the laboratories is followed
- Waste management protocol is followed

* **e-waste management**

- disposing/selling of e-waste items to scrap-dealers

* **any other (please specify):**

- Approximately 1.5 ton of organic waste from domestic areas including hostels is recycled through vermicomposting per month which is about 7-8% of total solid waste generated. Other waste material is disposed of through outsourced agencies and campus cleanliness is maintained.

7.2 Innovations

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the university.

- Bicycles given to girl students of economically weaker sections
- Institution of IPR Cell and IPR Chair Professor
- Appointment (Sept, 2013) of an eminent innovator as Visiting Director of the Centre for Innovation, Incubation and Entrepreneurship (CIIE)
- Online application process and use of OMR in admission tests
- Online project management including online fund status
- Online leave application, save on paper and paper-work
- Online IT management system
- Ph.D. students information system with access to the Research Scholars on the status of submitted thesis
- Online LTC fund availability status
- Student health insurance
- Introduction to research semester
- Faculty stint in industry
- Private consumption of DG power on self-payment basis

7.3 Best Practices

The following best practices adopted by the university are being elaborated:

- I. Employees' annual health check-up
- II. Online leave application and approval
- III. Community outreach: building scientific temper amongst school students
- IV. Walk to the library: inculcating the habit of reading
- V. Lecture on frontiers of knowledge, imagination and initiatives based on work of Nobel laureates of the year.
- VI. Smoke free campus
- VII. Compulsory helmet for bikers
- VIII. Performance based awards for employees
- IX. Employee Satisfaction Survey (ESS) among non-teaching staff

- X. Training Needs Identification (TNI) for non-teaching staff
- XI. Anniversary Teacher Award
- XII. Use of biogas

I.

1. Title of the Practice – Employees’ annual health check-up

2. Objectives of the Practice

To monitor the health condition of the employees, and identify any signs of concern as early as possible.

The exercise is aimed to ensure better health of the employees, reduce medical expenses, and reduce disruption of their work on medical ground.

3. The Context

A well-equipped health centre caters to the primary medical needs of the students and employees. If one needs advanced treatment, the case may be referred to external centres. Employees are entitled to reimbursement of medical expenditure. Apart from the problems that a person faces due to any illness, it causes disruption of one’s performance and leads to further financial burden on the University. Timely monitoring and expert advice saves much of these trouble and burden.

4. The Practice

During the months of Sept-Nov every year, the University Health centre carries out a series of health tests of employees. This is done on designated days of the weeks. Employees fix the appointments as per their convenience and report to the health centre accordingly. Doctors and qualified technicians carry out the tests and the doctor discusses the results of the tests with respective employee and provides advice accordingly.

5. Evidence of Success

Due to the annual health check-up employees are aware of specific causes of concern about their health and take preventive measures. This has helped them initiate lifestyle changes and preventive steps to maintain good health.

6. Problems Encountered and Resources Required

During the days of annual health check-up the work-load of the medical officials increase a lot. Non-availability of required kits has also been encountered at times.

7. Notes

The scope of medical check-up is expected to become more comprehensive in the coming years.

II.

6. Title of the Practice

Online leave application and approval.

2. Objectives of the Practice

To make the process of employees' leave application and processing smooth and more information driven.

Multiple copies of paper forms are to be avoided, and information about leave credit of respective employee to be extracted easily for the purpose of approval of a leave request. Also, whenever required, consolidated report of employees on leave should be available.

3. The Context

In the earlier manual system, multiple copies of paper forms were required, and leave available for an employee had to be manually determined. Also, consolidated position of employees' leave was to be manually tracked.

4. The Practice

A computerized system has been developed and deployed for processing employees' requests for casual leave (CL) and restricted holiday (RH) leave. Each employee has a login account in the system where details of his/her leave are maintained. When an employee intends to apply for leave, s/he logs into the system and fills an online application providing all the details that are required for the purpose. The system allows one to apply for leave within one's available credit and admissibility. The system automatically intimates the reporting officers about the leave requests via email. When the reporting officer approves or rejects a leave request, the employee is intimated automatically through email.

5. Evidence of Success

The online *leave application and approval* system has made applying for CL and RH leave simple for the employees and easier for the reporting officers and the administration to process these. Less time is required for the application, approval and statistics generation. Leave credit information is easily accessible and correctly applied automatically now.

6. Problems Encountered and Resources Required

Some malfunctioning of the computerized system has been encountered and had to be fixed by the technical personnel. Easy availability of computer terminals for all employees and reliable intranet is required.

7. Notes

Gradually other forms of leave are to be covered.

III.

1. Title of the Practice

Community outreach: building scientific temper amongst school students

2. Objectives of the Practice

To inculcate in the school children of the neighbouring area, from primary to higher the value of education and to develop a scientific temper about everything around them. To generate the desire to pursue higher education and to realize its value and benefits.

3. The Context

Situated in a remote locality of the North East, Tezpur University strives to achieve excellence in various academic fields. Due to its location, the university finds itself in a place where surrounding areas have been lagging behind in various basic aspects of development, particularly in the context of school education and exposure to modern educational facilities and opportunities. The university with its developed infrastructure and strength of human resource has the responsibility to meet the expectations of the neighbouring communities for all round help particularly in the field of education.

4. The Practice

- To reach out to the schools and arrange lectures on common scientific topics, interact with them and carry out scientific hands on experiments and demonstrations.
- Provide infrastructure help to the extent possible, donating computers and other equipment not in use of the University, drinking water connection, furniture etc.
- Organize programmes for children and invite school children from nearby schools to participate. Events include deliberations by well-known exponents, science-day programmes, scientific demonstrations and so on.

5. Evidence of Success

Evaluating success may be early at this stage. However,

- Widespread popularity of the programmes, enthusiasm and appreciation shown by the students, teachers and others can be seen
- In the long term, a high level of mutual trust and exchange of resources is expected.
- The university is seen as a role model for academic pursuit and excellence

6. Problems encountered and Resources Required

- Time constraint of faculty members is one of the constraints, given their work load for teaching, research and other responsibilities.
- Infrastructure of the schools (particularly for arranging large gathering)
- Lack of electricity and back up facility in many cases
- Resources such as vehicles for transport and some contingency expenses required.

IV.

1. Title of the Practice

Walk to the library: inculcate the habit of reading

2. Objectives of the Practice

To inculcate the habit of reading amongst the students, particularly the new entrants

3. The Context

The reading habits due to various reasons, particularly for prevalence of electronic media has declined over the years. For an academic institution, developing a vibrant culture around the library is the surest way of building academic scholarship.

4. The Practice

Since 2010, Tezpur University annually organizes a walk of all students to the Central Library in the beginning of the new academic session every year in order to inculcate the habit of reading books and visiting the library amongst the students. Senior functionaries and faculty members also join the students in this walk. Department wise walks to library are subsequently arranged in which library orientation programmes are organized at the behest of the Central Library.

5. Evidence of Success

Library visits by students have increased over the years. It is found to be an interesting way of introducing the students to the central library.

6. Problems encountered and Resources Required

No additional resources are required.

V.

1. Title of the Practice

Lecture on frontiers of knowledge, imagination and initiatives based on work of Nobel laureates of the year.

2. Objectives of the Practice

To provide the students a glimpse of the works leading to a Nobel Prize in various fields. To inculcate in them awareness and develop motivation towards high quality dedicated research work in frontier areas of knowledge.

3. The Context

The Nobel Prize is widely regarded as the most prestigious award available in the fields of literature, medicine, physics, chemistry, peace, and economics. The work leading to a Nobel Prize presents not only the highest level of human endeavour in the respective field or field of knowledge, but also it showcases the frontiers of human knowledge, imagination and initiatives. A discourse on the same is sure to provide a highly invaluable insight as well as a wealth of information to the students and young researchers.

4. The Practice

Tezpur University annually organizes a series of lectures on frontiers of knowledge, imagination and initiatives based on work of Nobel laureates of that particular year. Students attend the lectures as a part of academic assignment and submit an abstract of the lecture. Best write up and question for each lecture are awarded a cash prize and certificate of appreciation. The lecture series has been organized every year since

2013. Resources persons are invited from various departments of the university.

5. Evidence of Success

The lecture series has been quite popular with the students across the streams. Further, though the effect of the above practice cannot be quantified, it has been observed that the number of students of the university opting for a research career has increased over the years.

6. Problems encountered and Resources Required

Scheduling the talks for the entire university at the same time is sometimes met with difficulty due to concurrence of other academic schedules. Very limited additional resources required for the purpose.

VI.

1. Title of the Practice

Maintaining a smoke free campus

2. Objectives of the Practice

To maintain a pollution and smoke free environment

3. The Context

Smoking is a hazardous habit affecting the health of smokers besides posing serious threat to the health of other non-smokers. It is of utmost importance to maintain a smoke free environment for the benefit of all students, employees and other campus dwellers of the University.

4. The Practice

Tezpur University strictly maintains a smoke free campus and has declared the whole campus a '*No Smoking Zone*'. Proper signages are put in different locations to this effect.

5. Evidence of Success

One can never find any person smoking in any public place inside the campus. Pollution hazards created by cigarette smoke and cigarette buds are absent on the campus.

6. Problems encountered and Resources Required

Sometimes it gets difficult to ensure 100% compliance when new visitors are present in the campus who might otherwise be accustomed to heavy smoking.

VII.

1. Title of the Practice

Compulsory helmet for bikers

2. Objectives of the Practice

To ensure the safety of riders and pillion riders inside the campus.

3. The Context

Wearing of helmet is a good practice for ensuring the safety of the riders of two-wheelers as well as the pillion riders. This averts serious accidents and head injury which otherwise may turn fatal.

4. The Practice

The University strictly maintains the norm of wearing helmet by both the rider and pillion rider of two-wheelers. Riders not wearing helmet are denied access in the main gate itself. While inside the campus, non-compliance with this rule is penalized with fine.

5. Evidence of Success

It has inculcated the habit of wearing helmet even when anybody from the campus goes outside of the campus. This has definitely lessened the risks of fatal motor vehicle accidents.

6. Problems encountered and Resources Required

Reluctance and displeasure is often shown by some of the riders of two-wheelers for wearing helmet.

VIII.**1. Title of the Practice**

Performance based awards for employees

2. Objectives of the Practice

To increase efficiency of the administrative machinery.

3. The Context

Performance based reward and recognition is an important tool for maintaining a motivated workforce. This ensures proper alignment of the whole workforce towards the vision and mission of the University.

4. The Practice

Each year, the University gives Best Performer Awards to the employees of Group 'B', Group 'C' and Group 'C (MTS)' categories. The awards carry cash prizes and certificate of appreciation. Multiple awards in each category are presented on the Foundation Day celebrations of the University. Designated committees are constituted for recommending the names of awardees.

5. Evidence of Success

The performance based awards are presented every year by the invited dignitaries on the Foundation Day. Employees remain enthusiastic and wait with anticipation for the declaration of the awards.

6. Problems encountered and Resources Required

Awards are always limited in number and sometimes resentment is witnessed in case of the non-winners.

IX.**1. Title of the Practice**

Employee Satisfaction Survey (ESS) among non-teaching staff

2. Objectives of the Practice

To listen and understand the voice of the employees regarding the administrative mechanism of Tezpur University

3. The Context

It is important to ensure that the employees of an organization are satisfied in their all-round working environment, which can only bring out the best in them. This is true in case of a University too, as the non-teaching staff deal with cross section of the stakeholders viz. students, parents, teachers, prospective students and parents, vendors, society representatives etc. The issue of Employee Satisfaction is therefore very crucial to ensure an effective environment in the University.

4. The Practice

- Since inception, Tezpur University has been following employee friendly policies. It is proved by the fact that the attrition rate of the University is almost nil or very negligible.
- University carries out an Employee Satisfaction Survey to ascertain the views on various aspects of the job at hand, the work environment, relationship with immediate superior, working time and attendance, career growth and training etc.
- Employees give their opinion anonymously in a questionnaire provided to them.
- The exercise is carried out in a very organized way and employees were briefed about the purpose of the survey and about the details of the questionnaire so that they could respond in the right spirit.
- Third party is involved in data entry and analysis.

5. Evidence of Success

During the first such exercise in December, 2015, altogether 251 non-teaching staff participated in the survey. This included 32 Group A, 54 Group B, 96 Group C and 69 MTS staff. The high overall satisfaction measures of 91 percent of the total employee respondents indicate a healthy work environment.

The comments of the employees are expected to help the University in improving the general administration in the days to come.

6. Problems encountered and Resources Required

The exercise is a massive one requiring to be carried out without affecting the working of the university. Hence, the timing of the survey was kept at the last office hour and also carried out batch-wise so that University's work goes unaffected.

A software needs to be designed so that employees can put their views online without divulging their identity.

X.

1. Title of the Practice

Training Needs Identification (TNI) for non-teaching staff

2. Objectives of the Practice

To know from employees about their opinion on the topics on which they wish to get trainings

3. The Context

Training is a very crucial tool for upgradation of knowledge as well as for enhancing skills and aptitude of an employee. However, in many cases it is seen that an employee is sent to training or imparted training on a topic which may not be useful/ may not interest him/her as it does not relate to the real work situation. It helps to know from the employee directly on their requirement of training for better performance in the current position and in career growth. Though each employee, while submitting the APAR, requires mentioning the topics on which he/she desires to be trained, yet there is a need for an organized environment to know from the employees about their perceived requirement of training, which can then be clustered for easier delivery.

4. The Practice

- The employees are invited to a place to discuss the issue and all are requested to mention the trainings they took since they joined Tezpur University as well as the topics on which they wished to take trainings.

5. Evidence of Success

This practice is newly introduced which is expected to

- Identify the training needs of the employees in a more objectively
- Help in the preparation of a Training Calendar and to structure a schedule of training topics customized to each employee.

6. Problems encountered and Resources Required

- Even though, it is an accepted fact the trainings should be provided to all employees, but for an organization where there is dearth of non-teaching staff, in many cases, it may not be possible to spare an employee for longer duration course. The University therefore has to resort to organizing shorter in-house training programmes during weekends so that normal office works are not affected.
- For any such kind of programme, substantial fund is required, which needs to be earmarked separately in the annual budget.

7. Notes

The process may be structured in a time bound schedule, to be carried out every two year or so.

XI.

1. Title of the Practice

Anniversary Teacher Award

2. Objectives of the Practice

- To promote quality and innovative teaching
- To recognize outstanding research contributions of faculty
- To promote a culture of scholarship and innovation

3. The Context

The University, in order to recognize the contributions of faculty has instituted the '*Anniversary Teacher Award*' to the faculty members who

have made significant contribution towards innovative teaching that has impacted society, conducted quality research that has added new knowledge in a particular domain, has industrial applications and whose efforts have been nationally and internationally recognized.

4. The Practice

With effect from 2016, the awards are to be presented to the faculty members of 'Assistant Professor' and 'Associate Professor' categories on the Foundation Day of the University. Separate awards for each School under both categories have been instituted. Each award carries a cash prize, a citation and a grant for teaching, research and outreach activities. A Standing Committee with one external member of repute is entrusted to select the Anniversary Teacher in each category.

5. Evidence of Success

The awards are expected to provide an impetus to quality teaching and research which in turn benefits the institution and the society at large.

6. Problems Encountered and Resources Required

Formulation of norms for separates schools may have to be formulated separately.

Nominal resources are required to be made available by the university.

XII.

1. Title of the Practice

Use of biogas

2. Objectives of the Practice

Promote use of clean and green energy; to maintain a waste free hygienic environment

3. The Context

Producing green energy out of waste material provides a source of clean renewable energy, but also seeks to address the waste management problem.

4. The Practice

A bio-gas plant has been operational since 2013, with a capacity of 50m³, capable of handling 150-200 Kg of waste per day. The output is transferred to the hostel kitchen through piping installations. A parallel plant for converting the output into vermi-compost is being constructed.

5. Evidence of Success

Currently, the output has been able to substitute 8/10 LPG cylinders per month for the hostel which is expected to go up once more plants are installed.

6. Problems Encountered and Resources Required

Initial installation cost requires to be supported. Technical know-how is available in-house.

TEZPUR UNIVERSITY
NAPAAM, TEZPUR (ASSAM)
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH 2015

INCOME	SCHEDULE	Current Year (Amount in ₹)	Previous Year (Amount in ₹)
Academic Receipts	9	111086192	78017082
Grants/Subsidies	10	560022645	548510427
Income from Investments	11	2763400	14919702
Interest Earned	12	1932201	9748997
Other Income	13	24606578	67681827
Prior Period Income	14	0	0
TOTAL(A)		700411016	718878035
EXPENDITURE	SCHEDULE	Current Year (Amount in ₹)	Previous Year (Amount in ₹)
Staff Payment & Benefits (Establishment Expenses)	15	414388516	366213951
Academic Expenses	16	15326547	15651202
Administrative & General Expenses	17	159331813	161743270
Transportation Expenses	18	7445263	7513466
Repairs & Maintenance	19	17822233	12688635
Finance Costs	20	141520	125151
Depreciation & Amortisation	4	78718302	204923818
Other Expenses	21	0	56806974
Prior Period Expenses	22	15197027	337462
TOTAL(B)		708371222	826003928
Balance being excess of income over expenditure(A-B)		-7960206	-107125893
Transfers to/From Designated Fund			
Building Fund			
Other (specify)			
Balance being Surplus/(Deficit) Carried to Capital Fund		-7960206	-107125893

TEZPUR UNIVERSITY
NAPAAM, TEZPUR (ASSAM)
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH 2014

Sl	Particulars	Schedule No.	Current Year				Previous Year	
			Unrestricted Funds			Restricted Fund	Total (Amount in ₹)	Total (Amount in ₹)
			Corpus Fund	Designated fund	General Fund (Amount in ₹)			
	<u>INCOME</u>							
	(i) Academic Receipts	11			77,978,582		77,978,582	65,892,924
	(ii) Grants & Donations	12	-	-	548,510,427	-	548,510,427	544,442,821
	(iii) Income from investments	13			14,919,702		14,919,702	11,560,634
	(iv) Other Incomes	14			77,469,324		77,469,324	29,003,365
	TOTAL (A)		-	-	718,878,035	-	718,878,035	650,899,744
	<u>EXPENDITURE</u>							
	(i) Staff Payables and Benefits	15			366,213,951		366,213,951	312,431,995
	(ii) Academic Expenses	16			15,651,202		15,651,202	27,552,588
	(iii) Administrative and General Expns	17	-	-	161,743,270	-	161,743,270	132,971,042
	(iv) Transportation Expenses	18			7,513,466		7,513,466	6,851,643
	(v) Repairs & Maintenance	19			12,688,635		12,688,635	9,394,648
	(vi) Financial Costs	20			1,25,151		1,25,151	122,349
	(vii) Other Expenses	21			262,068,253		262,068,253	323,942,863
	TOTAL (B)		-	-	826,003,928	-	826,003,928	813,267,127
	Balance Being excess of Income over Expenditure (A-B)		-	-	(107,125,893)	-	(107,125,893)	(162,367,383.44)
	B) Transfer to/from Designated Fund/Building Fund		-	-	-	-	-	-
	Others (specify)							
	Balance being Surplus/Deficit Carried to General Fund		-	-	(107,125,893)		(107,125,893)	(162,367,383)
	Notes on Accounts	22						

TEZPUR UNIVERSITY
NAPAAM, TEZPUR (ASSAM)
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH 2013

INCOME	SCHEDULE	CURRENT YEAR	PREVIOUS YEAR
		(Amount in ₹)	(Amount in ₹)
Grants	12	544,442,821.00	456,819,688.00
Fees/ Subscriptions	13	60,872,373.00	44,421,452.00
Income from Investments	14	11,560,633.88	7,744,982.00
Interest Earned	15	12,129,784.90	14,116,684.00
Other Income	16	18,789,772.86	20,763,523.00
TOTAL		647,795,385.64	543,866,329.00
EXPENDITURE			
Establishment Expenses	17	310,466,660.00	259,649,088.00
Other Administrative Expenses	18	163,607,881.96	141,846,230.78
Expenditure on Grants	19	122,301,167.00	211,265,707.00
Depreciation		216,227,482.13	192,195,406.55
TOTAL		812,603,191.09	804,956,432.33
BALANCE BEING SURPLUS/ (DEFICIT)		(164,807,805.45)	(261,090,103.33)
PRIOR PERIOD ADJUSTMENTS	20	2,440,422.00	(366,141.00)
BALANCE BEING SURPLUS/ (DEFICIT) TRANSFERRED TO CAPITAL FUND		(162,367,383.45)	(261,456,244.33)
SIGNIFICANT ACCOUNTING POLICIES	21		
CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS	21		

TEZPUR UNIVERSITY
NAPAAM, TEZPUR (ASSAM)
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH 2012

INCOME	SCHEDULE	CURRENT YEAR (Amount in ₹)	PREVIOUS YEAR (Amount in ₹)
Grants	12	456,819,688.00	294,388,329.00
Fees/ Subscriptions	13	44,421,452.00	30,685,512.00
Income from Investments	14	7,744,982.00	2,434,174.00
Interest Earned	15	14,116,684.00	17,121,419.53
Other Income	16	20,763,523.00	9,771,651.00
TOTAL		543,866,329.00	354,401,085.53
EXPENDITURE			
Establishment Expenses	17	259,649,088.00	217,672,808.00
Other Administrative Expenses	18	141,846,230.78	107,556,436.05
Expenditure on Grants	19	211,265,707.00	157,297,699.00
Depreciation		192,195,406.54	152,861,314.04
TOTAL		804,956,432.32	635,388,257.09
BALANCE BEING SURPLUS/ (DEFICIT)		(261,090,103.32)	(280,987,171.56)
PRIOR PERIOD ADJUSTMENTS	20	(366,141.00)	(810,148.27)
BALANCE BEING SURPLUS/ (DEFICIT) TRANSFERRED TO CAPITAL FUND		(261,456,244.32)	(281,797,319.82)
SIGNIFICANT ACCOUNTING POLICIES	21		
CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS	21		

Annexure-II**TEZPUR UNIVERSITY CONSULTANCY POLICY:**

Tezpur University encourages the faculty members to undertake consultancy projects as a part of their academic duties. Such projects, in addition to providing financial incentives to the individuals enrich his / her professional knowledge. Moreover, consultancy projects augment the university resources, promote university academy alliance and contribute to the social development.

- Each Consultancy Project will have a Principal Consultant who will be responsible for
 - Formulating the project proposal which may include (a) planning of the work to be done, (b) estimating costs according to guidelines provided in a later section, and (c) identifying other consultants, if necessary.
 - Execution of work.
 - Handling all communications with the clients after the project has been accepted.
 - Writing of intermediate and final reports according to the project proposal.
 - Making recommendations to the Dean of Research and Development (DORD) regarding expenditure from the project funds and disbursement of funds to participants in the consultancy project.
- Appointment of Principal Consultant: Industrial organizations usually approach the Institute for consultancy work through a faculty member or a functionary of the Institute (i.e. Head, Dean or Director). When a faculty member is approached for the work, he will be the Principal Consultant. If he does not wish to be the Principal Consultant or if the project is referred to a functionary, Principal Consultant would be identified through appropriate discussions and appointment will be made by DORD.
- The project proposal prepared by the Principal Consultant will be forwarded to the client by the Dean of Research and Development.
- In extreme emergencies, a consultant may take up an assignment with intimation to the DORD, and then seek approval.
- The Institute normally requires the cost of the project to be deposited by the client, in full, before the work commences. However, based on needs of the client and circumstances, the Institute may permit commencement of work with payment to be made as per agreed upon milestones.
- All payments from clients will be received by the Institute and expenditure and disbursements made through normal Institute procedures.
- After the initial deposit has been made by the client, R&D Office will assign a job number to the project and inform the same to the client, Principal Consultant and the Head of the concerned Department. This completes the process of initiation of a consultancy project. The above job number must be quoted in all subsequent correspondence.
- The Project file will be closed with the submission of the final project report and disbursement of fees to consultants and others.

Utilisation of the resources generated *.

The resources earned by a teacher through consultancy should be divided between the teacher and the institution in the manner give below.

- Amount received up to 30% of the monthly gross salary (basic salary + grade pay + DA + Academic Allowance) – No sharing, entire amount to go the teacher concerned.
- Amount received beyond 30% and up to the monthly gross Salary – Sharing of the money beyond 30% in the ratio of 70:30 between the teacher and the institution respectively.
- Amount received beyond the monthly gross salary – To be shared in the ratio of 50:50 of the amount of the money received beyond the gross salary between the teacher and institution.

SERVICE TAX ON CONSULTANCY FEES

Service Tax is compulsory on all consultancy services. The rate of service Tax in force now is *12.24% of the total consultancy fees. Service Tax is to be paid by the party which obtains the services i.e. the clients. So, it is essential that the coordinators of the consultancy projects inform the clients the amount payable by the clients as Service Tax in addition to the consultancy charge. For example, if the consultancy fee charged to the clients is ₹ 100/-, the clients will also pay an additional amount of ₹ 10.20 as Service Tax so collected will be deposited in to the Govt. accounts of central Excise Department.

**as per prevalent GOI rate*

ADDITIONAL POINTS OF THE GUIDELINES FOR ROUTINE AND TIME BOUND CONSULTANCY PROJECTS INVOLVING THE WHOLE DEPARTMENT

- For consultancy works a Faculty in-charge shall be selected by the concerned Departments for a tenure of 6 months.
- The client shall first approach the HoD with a letter detailing the requirement.
- The HoD in consultation with the Faculty in-charge of Consultancy and Technical Officer will indicate in writing the Fee and Service charge for the work.
- The client will deposit the fee and bring the receipt to the Department.
- The Department shall retain a copy of the receipt, take over the materials and samples deposited by the client (if any) and give a tentative date of handing over the final recommendation.
- HoD will send an intimation to DORD with a copy of the client's letter.
- HoD or Faculty in-charge of Consultancy will then assign the appropriate group of faculty (on rotation basis) for the job. The Technical Officer will be responsible for scheduling and conducting the laboratory tests under the direction of the faculty assigned. The Technical Officer will assign the Technical Assistants as required.
- The Technical Officer shall sign the laboratory test reports.

- The Faculty assigned will analyse the results, make the recommendations and prepare the final report. A Synopsis of the report will also be prepared by the faculty assigned in consultation with the Faculty in-charge of the Consultancy. He/She will sign the final report and the synopsis and submit them to the HoD.
- The HoD will forward the Report and Synopsis to DORD.
- The Faculty in-charge of Consultancy will inform the client about the completion of the job assigned and deliver the report.
- The break-up of the revenue earned from the consultancy services will be as follows :
 - 25% to the University.
 - 20% to the concerned Departments (This will include the cost of consumables, labour, travel and other expenditure incurred for the work).
 - 55% to the consultant group.
- Separate Bank accounts shall be opened to be operated by the HOD of the concerned Departments and Deputy Registrar (Finance) jointly.
- The distribution of the Consultancy share amongst the faculty and laboratory staff involved is as follows :
 - 10% of the Consultancy share shall be equitably distributed amongst the Technical Assistants involved in the work.
 - The balance 90% of the share shall be equitably distributed amongst the faculty involved including Technical Officer.

Annexure-III

Consultancy Works undertaken by the University during the last four years

Sl. No.	Name of the Work & Organization	Department	Amount (₹)	Date
1.	Conducting Socio Economic Survey at 220KV Mariani Sub - Station in Jorhat District of Assam, Department of Forest, Government of Assam.	Prof. (Mrs) C. Goswami Business Administration	56,490	24/03/2011
2.	3 rd Party Monitoring of Remote Village Electrification Programme Dhemaji FDA, Department of Forest, Government of Assam.	Prof. S.K Samadarshi Energy	74,356	12/08/2011
3.	3 rd Party Monitoring of Remote Village Electrification Programme Morigaon FDA, Department of Forest, Government of Assam.	-do-	1,17,128	15/12/2011
4.	Development of Software Application of Assam Police, Assam Police, Government of Assam.	Dr. U. Sharma Computer Science & Engineering	60,000	24/01/2012
5.	Conducting Feasibility Studies of NGOs for Setting up State Resources Centres in the State of Assam, MHRD, Government of India.	Prof. S.S Sarkar Prof. P. Baruah Business Administration	92,825	06/02/2012
6.	The Challenges on the Implementation of the New Performance Management System, Assam Gas Company Limited (AGCL), Duliajan	-do-	50,000	26/03/2012
7.	Construction and Installation of DBT Nodal Cell, DBT, Government of India	Prof. N. Sarma Computer Science & Engineering	5,57,992	17/02/2012
8.	A Hand-Holding Exercise for Setting up of Key Performance Indicators and Performance Appraisals at Assam Gas Company Limited (AGCL), Duliajan	Prof. P. Baruah Business Administration	70,000	20/06/2012
9.	Consultancy Work regarding Verification of Structural Stability of Bunkers at 235 Engineer Regiment, Indian Army	Dr. U. K. Das Civil Engineering	56,180	29/04/2013
10.	Testing of Cement, RCC Cubes for the work of construction of Hospital Building at LGBRIM, Tezpur	-do-	6,180	05/06/2013
11.	Mix Design M-30 Grade of Concrete at AFS, Tezpur	-do-	11,236	05/06/2013

12.	Mix Design M-25 Grade of Concrete at AFS, Tezpur	-do-	11,236	03/06/2013
13.	Mix Design M-20 Grade of Concrete at T.U Campus	-do-	11,236	05/06/2013
14.	Consultancy Works for M/S Asian Paints Limited, Mumbai	Prof. N. Karak Chemical Sciences	10,00,000	28/06/2013
15.	Consultancy Work for M/S Gannon Dunkerely and Company Limited at Power Grid Corporation of India Limited	Dr. U. K. Das Civil Engineering	53,034	17/09/2013
16.	Consultancy Work for HVDC Project at Biswanath Chariali	-do-	500	12/09/2013
17.	Consultancy Work for M/S Varni Builders, Tezpur	-do-	5,625	03/09/2013
18.	Consultancy Work for M/S Adhunik Cement Limited at Umsoo Mutang	-do-	3,933	02/09/2013
19.	Testing of Water Samples at LGBRIMH, Tezpur	Civil Engineering	5,955	25/07/2013
20.	Consultancy Works for Power Grid Corporation of India Limited	-do-	1,53,147	01/10/2013
21.	Consultancy Work for Power Grid Corporation of India Limited	Prof. S.S Sarkar Business Administration	1,80,000	15/05/2013
22.	Consultancy Works for M/S Gannon Dunkerley & Co. Ltd., Biswanath Chariali	Dr. U. K. Das Civil Engineering	6,742	19/11/2013
23.	Consultancy Work for HVDC Project at Biswanath Chariali	-do-	1,23,371	13/11/2013
24.	Consultancy Work for Power Grid Corporation of India Limited	-do-	1,75,282	06/12/2013
25.	Consultancy Work for HVDC Project at Biswanath Chariali	-do-	44,551	17/12/2013
26.	Website Restructure/Re-designing at NERIWALM, Tezpur	Prof. N. Sarma Computer Science and Engineering	45,000	27/12/2013
27.	Consultancy work for M/S ESS Foundation Pvt. Ltd., Guwahati	Dr. U. K. Das Civil Engineering	20,000	05/05/2014
28.	Consultancy work for M/S NF Railway, North Lakhimpur	-do-	29,326	05/05/2014
29.	Consultancy work for M/S Mittal Infra Projects Limited, IAF Campus, Tezpur	-do-	2,809	05/05/2014
30.	Technical Evaluation of Samples of Tablet Computer and Laptop for Anundoram Barooah Award and CM's Special Scheme, Government of Assam	Prof. N. Sarma Computer Science and Engineering	50,000	17/07/2014
31.	Consultancy work for M/S HSCC (India) Limited at	Dr. U. K. Das Civil Engineering	3,000	19/08/2014

	LGBRIMH, Tezpur			
32.	Consultancy Works for M/S Gannon Dunkerley & Co. Ltd., Biswanath Chariali	-do-	30,337	15/09/2014
33.	Consultancy Work for HVDC Project at Biswanath Chariali	-do-	16,910	09/12/2014
34.	Mix Design M-25 Grade Concrete with Admixture at M/S K.K Traders, Tezpur	-do-	12,247	28/11/2014
35.	Mix Design M-25 Grade Concrete with Admixture at M/S K.K Traders, Tezpur	-do-	11,236	28/11/2014
36.	Consultancy Work at Garrison Engineer, Tezpur	-do-	563	09/12/2014
37.	Consultancy work for M/S HSCC (India) Limited at LGBRIMH, Tezpur	-do-	14,214	09/12/2014
38.	Consultancy Work at AGE B/R (P), Misamari, Tezpur	-do-	11,236	09/12/2014
39.	Consultancy Work at AGE B/R (P), Misamari, Tezpur	-do-	1,011	09/12/2014
40.	Consultancy Work at AGE B/R (P), Misamari, Tezpur	-do-	11,236	09/12/2014
41.	Consultancy work for M/S GM STAT Cement, Guwahati	-do-	35,000	09/12/2014
42.	Consultancy work for M/S ESS Foundation Pvt. Limited, Guwahati	Mr. D.B Sonowal Civil Engineering	30,338	29/12/2014
43.	Consultancy work for M/S ESS Foundation Pvt. Limited, Guwahati	-do-	30,338	29/12/2014
44.	Consultancy work for M/S ESS Foundation Pvt. Limited, Guwahati	-do-	30,338	29/12/2014
45.	Consultancy work for M/S ESS Foundation Pvt. Limited, Guwahati	-do-	30,338	29/12/2014
46.	Consultancy Work at AGE B/R (P), Misamari, Tezpur	Dr. U. K. Das Civil Engineering	12,247	11/02/2015
47.	Consultancy Work for Power Grid Corporation of India Limited	-do-	18,539	11/02/2015
48.	Consultancy Work at AGE B/R (P), Rangiya	-do-	22,472	11/02/2015
49.	Consultancy Work at AGE B/R (P), Tezpur	-do-	33,708	11/02/2015
50.	Website Restructure/Re-designing at NERIWALM, Tezpur	Prof. N. Sarma Computer Science and Engineering	45,000	12/02/2015
51.	Consultancy Work at AGE B/R (P), Tezpur	Dr. U. K. Das Civil Engineering	11,236	10/03/2015
52.	Consultancy Work for Power Grid Corporation of India	-do-	1,09,832	10/03/2015

	Limited			
53.	Consultancy Work for Power Grid Corporation of India Limited	-do-	41,573	09/06/2015
54.	Consultancy Work for Power Grid Corporation of India Limited	-do-	13,146	09/06/2015
55.	Consultancy Work for GE(I)(P) AF Tezpur, MES	-do-	3,400	09/06/2015
56.	Consultancy Work for M/S Devi Energies Pvt. Ltd.	-do-	1,124	11/06/2015
57.	Consultancy Work for Power Grid Corporation of India Limited	-do-	36,629	11/06/2015
58.	Consultancy Work for Power Grid Corporation of India Limited	-do-	18,990	11/06/2015
59.	Consultancy Work for Power Grid Corporation of India Limited	-do-	19,386	03/07/2015
60.	Consultancy Work for Power Grid Corporation of India Limited	-do-	1,18,788	03/07/2015
61.	M/S Gamon India Limited	-do-	1,37,416	03/07/2015
62.	M/S S.A Infrastructure Consultants Pvt. Ltd.	-do-	24,000	03/07/2015
63.	M/S S.A Infrastructure Consultants Pvt. Ltd.	-do-	40,045	03/07/2015
64.	Consultancy Work for Power Grid Corporation of India Limited	-do-	1,140	23/07/2015
65.	Consultancy Work for Power Grid Corporation of India Limited	-do-	84,132	23/07/2015
66.	Consultancy Work at AGE B/R (P), Tezpur	-do-	11,236	23/07/2015
67.	Consultancy Work at AGE B/R (P), Tezpur	-do-	13,800	23/07/2015
68.	NEEPCO Limited, Kimi	Dr. M. Kumar Environmental Science	50,000	11/09/2015
69.	Consultancy Work at M/S Megha Enterprise	Dr. S. Deka Civil Engineering	25,992	15/10/2015
70.	Consultancy Work at M/S AGE B/R (Project), Misamari	-do-	27,360	15/10/2015
71.	Consultancy Work at M/S Ganapati Construction	-do-	17,157	15/10/2015
72.	Consultancy Works at M/S Amrit Cement Limited	-do-	11,172	15/10/2015
		Total	₹ 42,91,996	

Annexure IV

List of court cases from 2011 to April, 2015

Sl No	Title of Suit	Petitioner	Against	Month & Year	Critical points	Status
1.	Money Suit No. 4	Tezpur University	Edinor Sambad News Paper	March, 2013	Defamation case	Hearing
2.	Money Suit No. 5	-do-	Assamiya Pratidin New Paper	March, 2013	-do-	-do-
3.	Money Suit No. 6	-do-	Assomia Khabar	March, 2013	-do-	-do-
4.	Money Suit No. 7	-do-	Dr. R. Dayal Yadav	March, 2013	-do-	Dismissed
5.	Money Suit No.	-do-	News Times Assam	December, 2013	-do-	Cross examination

Sl No	Writ Petition No. / Year	Court	Petitioner	Issue	Whether Counter filed or not	Status/Verdict of the court
1.	WP (C) No.1138/2011	Gauhati High Court	Mr. Prafulla Saikia	Anomaly of Pay scale. (Reduction of pay scale vide order dated 14.06.2001 issued by Registrar, TU)	Settled	Mr. P. Saikia, the petitioner was allowed to retain the pay scale drawn prior to the order.
2.	WP (C) No.4616/2012	Gauhati High Court	Mr. Dhiren Kumar Kalita	Vacation of official residence	Disposed off	Disposed off
3.	WP (C) No.5000/2012	Gauhati High Court	Ranjit Saikia	Suspension of termination order.	Filed	Pending
4.	WP(C) No.4673/2010	Gauhati High Court	Manirul Husaain	Appointment of Dr. Chandan K. Sarma as Professor in the Department of Sociology.	Filed	Pending
5.	WP(C) No.6352/2012	Gauhati High Court	Manirul Husaain	To declare the appointment of Prof. Mihir K. Chaudhuri as VC for the second term.	Filed	Pending Hearing stage
6.	WP(C) No.6558/2013	Gauhati High Court	C.S.H.N. Murthy	Suspension of termination order on the charges of sexual harassment.	Filed	Hearing stage
7.	WP(C) No.1734/2014	Gauhati High Court	Upasana Das	Suspension of termination order due to poor performance during probation period.	Filed	Hearing stage
8.	WP(C) No.661/2015	Gauhati High Court	Tapas Medhi	Appointment of Assoc. Professor in the Dept. of MBBT	Filed	Pending
9.	WP(C) No.5836/2014	Gauhati High Court	Ganga Das	Reinstatement of service	Not filed	Pending
10.	PIL by Nibanuya Mukti Parishad	Gauhati High Court	Nibanuya Mukti Parishad	Appointment of employees	Till date not admitted	N/A
11.	WP(C) No.2592/2015	Gauhati High Court	Tapas Medhi	Appointment of Assoc. Professor in the Dept. of MBBT	In process	



Tezpur University
(a Central University)
Tezpur 784 028, Assam, India

Phone : 03712-267003(O), 267093(R)
Fax : 03712-267006
E-mail : mkc@tezu.ernet.in

Professor Mihir K. Chaudhuri, FASc, FNA
Vice-Chancellor

No. F. 29-1/97(GA-I) (Vol-II)/

Date 07 January 2016


Declaration by the Head of the Institution

I certify that the data included in this Self Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the Institution after internal discussions, and no part thereof has been outsourced.

I am aware that the peer team will validate the information provided in this SSR during the peer team visit.

Place: Napaam, Tezpur
Date: 07.01.2016


Mihir K. Chaudhuri
Vice Chancellor

Seasonal visitors

Courtesy: Dr. Juri Gogoi Konwar

Adjutant Stork



Courtesy: Prof. S. K. Dutta

Wild Ducks





Courtesy: Flt. Lt. Pramod Kumar Singh



TEZPUR UNIVERSITY

(A Central University)

Napaam, Tezpur, Assam (India) Pin - 784 028

Phone: +91-3712-267007/8/9 Fax: +91-3712-267005/6 Email: admn@tezu.ernet.in

Web: <http://www.tezu.ernet.in>