ANNUAL REPORT 2021-2022

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TEZPUR UNIVERSITY A Central University

ANNUAL REPORT (2021-22)

(Approved by the *Board of Management* vide Resolution No. B.109/2022/6/2.1, dated 11.11.2022)



Specialized Knowledge Promotes Creativity

TEZPUR UNIVERSITY

Napaam, Tezpur – 784 028 Sonitpur, Assam

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(D. K. Bhattacharyya) Vice-Chancellor (Acting)



Tezpur University

(A Central University) Tezpur 784028, Assam India • Visitor's Best University Award 2016

- NIRF India Rankings 2016: 05
- Accredited with 'A+' Grade by NAAC
- THE Asia Rankings 2018: 100

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Professor D K Bhattacharyya Vice – Chancellor (Acting)

VICE-CHANCELLOR'S DESK

It is my pleasant duty to present the Annual Report of Tezpur University for the year 2021-2022. The detailed report that follows gives an account of our journey during the year, including the achievements of our students, research scholars, and members of faculty and staff. As Tezpur University completed 28 years on 21st January 2022, it is bolstered with a number of positive factors to catalyse further growth. In the year under report, i.e., 2021-2022, in spite of the adverse effects of the Covid-19 pandemic, the University could keep the academic trend on track by adopting alternative and innovative means of ICT enabled teaching-learning, holding examinations, evaluation and declaration of results on time. Classes of the intermediate and final year students were held offline from August 2021, except for the newly admitted students, whose classes were held online. Despite the adverse conditions, 1080 final semester students appeared in the Spring Semester examinations in the year 2021 and 97.59% of the students passed the examinations.

The 19th Convocation of the University was solemnised on 26th February 2022 with 1249 students graduating with B.Tech, M.Tech, M.A, M.Sc and Ph.D degrees. A total of 44 Gold Medals were awarded to the toppers of the UG and PG programmes of the year 2021 and 2 students were bestowed with the Best Graduate and Post-Graduate titles. His Excellency, the President of India, Shri Ram Nath Kovind graced the ceremony as the Chief Guest and delivered the Convocation address. His Excellency, the Governor of Assam & Chancellor of the University, Professor Jagadish Mukhi and Hon'ble Chief Minister of Assam, Dr Himanta Biswa Sarma, were also present at the ceremony and addressed the awardees.

Although the Tezpur University Entrance Examination (TUEE) could not be conducted in the year under report due to the Covid-19 pandemic, the selection and admission of candidates were completed by the best possible alternative means, except for the B.Tech, MBA and M.Sc. in Molecular Biology and Biotechnology programmes. Out of the 17644 applications received for various academic programmes, 1601 were admitted following the Govt. of India guidelines for reservation of seats for various categories. It is noteworthy that 46.33% of the admitted students were female. Being a residential institution, the students are all accommodated in the designated hostels for boys and girls.

After the admission process was completed, the total strength of students in the University stood at 4597 (as of December 2021) and the percentages of reserved category students were 24.79% (OBC-NCL), 11.16% (SC), 7.31% (ST), 5.57% (EWS) and 0.95% (PWD). The total number of foreign students in the University was 13. A total of 81.02% of the students were from the state of Assam, while 18.69% of students were from the rest of the country and abroad.

Many essential facilities have been made available on the campus for our students, faculty members and staff. The sports, games, cultural centres and other facilities, like gymnasium and yoga centres, provide ample scope for co-curricular activities to our students. The University Health Centre has been providing essential medical support to everyone residing on the campus. A good number of shopping complexes, cafeterias, banks, ATMs and a post office are located strategically across the campus for the convenience of its inhabitants.

As in the previous years, the University gave a special emphasis on research and development activities. During the year under report, 26 new projects were sanctioned making the number of externally funded ongoing projects 209 with a financial outlay of INR 7432.53 lakhs plus €105428.75 and £31,500. The ongoing research projects include 15 international collaborative projects. The University also earned approximately INR 2,06,36,080/- through consultancy projects during 2021-22.

Our students performed well in Academic, Co-curricular and Extension activities during the year. Around 238 students cleared NET/GATE/SET/SLET and other competitive examinations during the period. Furthermore, the students displayed their talents at various Zonal/State and National level tournaments/competitions.

Tezpur University, known for its state-of-the-art infrastructure, saw the creation and upgradation of a number of facilities in the year 2021-2022. These included the renovation of Academic Building No. I & II, and repairing and restoration of the damaged portions of the boundary wall among others. A new girls' hostel (named Jiri Women Hostel) with a capacity of 180 boarders has been constructed and made available. The University has also started 09 numbers of building projects, including Academic Buildings & Hostels under HEFA funding for INR 153.71 cr. The RFID system has been installed and made operational in the Central Library for better automation and surveillance. One of the key features of Tezpur University is the extensive use of solar power on campus. The 1MW capacity rooftop Solar Panels installed at various locations on the campus has resulted in a considerable reduction in the electricity bill paid by the University. A 40-capacity hostel has also been approved by AICTE under the CAFES scheme, the tendering process of which has been completed and the award of contract is in the final stage.

Over the years, Tezpur University has thrived to establish itself as one of the premier and sought-after higher educational institutions in the country. The University is determined to create an inclusive environment for its stakeholders and to create a modern centre of higher education and research in spite of the adverse challenges presented before it by the Covid-19 pandemic.

I thank the Annual Report committee for preparing this important document in both English and Hindi.

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(D. K. Bhattacharyya) Vice-Chancellor (Acting)

Date: 24.11.2022 *Place*: Tezpur

GIST OF THE ANNUAL REPORT 2021-22

University Profile

Name of the University State Address Year of Establishment Type of University	:	Tezpur University Assam Napam, Tezpur, District-Sonitpur, Assam-784028, INDIA 1994 Central and Unitary
Type of University		Central and Unitary

Vice-Chancellor	: Professor Vinod Kumar Jain
Pro Vice-Chancellor	: Professor Dhruba Kumar Bhattacharyya
Registrar	: Dr. Biren Das

Highlights of the Year

inglinghts of the Tear	
Academic Departments	: 27
Academic Centres	: 12
Academic Programmes	: 73
Students	: 4597
Female Students	: 2130
Male Students	: 2467
International Students	: 13
Teachers	: 273
Female teachers	: 74
Male teachers	: 199
Teachers (General)	: 145
Teachers (SC/ST/OBC)	: 128
Non-teaching employees	: 267
Female employees	: 32
Male employees	: 235
Non-teaching employees (General)	: 105
Non-teaching employees (SC/ST/OBC)	: 162
Total Departments under UGC-SAP DRS I	: NIL
Total Departments under UGC-SAP DRS II	: 03
Total Departments under DST-FIST	: 07
Departments under Centre of Excellence	: 01
Sponsored ongoing projects	: 209
New projects sanctioned	: 26
International collaborative research projects Ongoing)	: 15
Total amount earned through consultancy projects	: ₹2.06 cr
Journal paper published	: 492
<i>h-index</i>	: 94 (Web of Science)
Book chapters authored	: 146
Books authored	: 35
Seminar/Workshops organized by various Departments/Centres	: 101
Total number of students qualified NET, SLET, GATE, TET, AIBE	: 238
(Indicative)	
Patents	: 9 (Published-5, Granted-3)

STATISTICS OF THE YEAR

Employees (Teaching)

Category	Present as on 01-04-2021	Joined during 2021 – 2022	Left during 2021 – 2022	Present as on 31-03-2022
Professor	77	6	0	83
Associate Professor	36	3	7	32
Assistant Professor	148	13	3	158
Total	261	22	10	273

Employees (Non-Teaching)

Category	Present as on 01-04-2021	Joined during 2021 – 2022	Left during 2021 – 2022	Present as on 31-03-2022
Group-A	35	1	2	34
Group-B	56	0	0	56
Group-C	108	0	3	105
Group-C (MTS)	71	2	1	72
Total	270	3	6	267

SC/ST and Female/Male Employees (Teaching)

Category	SC	OBC	ST	Gen	Female	Male	Total
Professor	9	18	5	51	14	69	83
Associate Professor	3	6	3	20	5	27	32
Assistant Professor	26	44	14	74	55	103	158
Total	38	68	22	145	74	199	273

SC/ST and Female/Male Employees (Non-Teaching)

Category	SC	OBC	ST	Gen	Female	Male	Total
Group-A	5	9	3	17	3	31	34
Group-B	9	19	5	23	10	46	56
Group-C	19	40	12	34	15	90	105
Group-C (MTS)	12	24	5	31	4	68	72
Total	45	92	25	105	32	235	267

Students

			- 2
4597 Male Female Male Female Male Female Male Female Male	e Female	e Male	Female
⁴³⁹⁷ 2467 2130 1343 1233 289 221 170 165 639	496	29	15

*PWD candidates are included in the Table as per their category. So, it is to be counted separately

OVERVIEW OF TEZPUR UNIVERSITY

Tezpur University established on 21st January 1994 by an Act of Parliament of India, completed 28 years on 21st January 2022. The University, which started with only 57 students in 03 Departments, has transformed into a prestigious Higher Educational Institution and is swiftly emerging as one of the most sought-after universities in the eastern region of India for quality Higher Education.

To attain outstanding research, innovation and excellence in teaching and learning, the academic programmes offered at the University have a distinct focus on science, technology, management, humanities and social sciences, reflecting the mandated objects of the University. During the year reported (2021-22), students were admitted to 73 different programmes of study in 27 Departments. Classes of newly admitted students in the Academic session 2021-22 were conducted in online mode with a delay of a few days because of the Covid-19 pandemic. Classes of the Intermediate and final year students were held in offline mode from August 2021. The University also offered 06 programmes under ODL mode during the year reported. The University offered Academic programmes of study at the Under-Graduate (Degree/Diploma/Certificate), Integrated, Post-Graduate (Degree/Diploma) and Doctoral levels in four schools, viz. School of Engineering, School of Humanities & Social Sciences, School of Sciences and School of Management Sciences. The selection of candidates for admission was on a merit basis as the Tezpur University Entrance Examination (TUEE) could not be conducted due to the pandemic. The students in UG/PG programmes (except in B.Tech, MBA, M.Sc. in Molecular Biology and Biotechnology) were admitted provisionally considering the marks of the prefinal semester of qualifying examinations subject to the condition that they would submit the requisite pass certificates in subsequent months.

A total of 17644 applications were received through online mode for various programmes of studies. The number of candidates admitted to various programmes was 1601, of which 46.33% were female students. The University reserved seats for the OBC (NCL), SC, ST, EWS and PWD categories as per the Govt. of India rules. Twelve students were admitted under Defence Quota as per Govt. of India policy and 02 international students were admitted through ICCR sponsorship. The total number of foreign students on campus during this period was 13.

The 19th Convocation of Tezpur University was held on 26th February 2022 and His Excellency President of India, Shri Ram Nath Kovind, graced the ceremony as the chief guest and delivered his Convocation address. His Excellency Governor of Assam & Chancellor of the University, Shri Jagadish Mukhi and Hon'able Chief Minister of Assam, Dr Himanta Biswa Sarma, were also present at the ceremony and addressed the awardees. A total of 1249 students were eligible to receive their degrees and diplomas in the 19th Convocation. 10 Gold Medals were delivered to toppers of the year 2021 and 36 Gold Medals were awarded to other toppers of UG and PG programmes. The pass percentage of students in the latest completed academic year is 97.5%.

Tezpur University has a heterogenous pool of faculties from all over India. Currently, 66.9% faculties of Tezpur University are from Assam and 33.1% are from the rest of the country, of which 27% are female. The average percentage of full-time teachers with Ph.D./D.Sc. during the last five years is 91.08%.

Tezpur University has 136 ICT Enabled Classrooms, 17 Smart Classrooms, 46 Teaching Labs, 7 Teaching cum Research Labs, 33 Seminar Halls, 2 Audio-Visual Studios, 2 Audio Studios and 1 Video Lecture Recording Facility. The entire Tezpur University campus is wi-fi enabled and the available bandwidth of Internet connection through the National Knowledge Network (NKN) is 1 Gbps. The student-to-computer ratio in the University is 5.5:1. The Tezpur University Central Library has 1,25,576

nos print collections (books, back volumes, journals etc) and 14,440 nos e-resources (e-books, e-journals, online databases etc). There are 5 Reading Rooms of 700 capacity and 1 Digital Resource Centre of 42 capacity in the Central Library.

The University offers several pivotal amenities to the students, fraternity and other campus dwellers at a stonecast distance. A good number of shopping complexes and cafeterias are located strategically across the campus for the convenience of its inhabitants. Among others, Essential, Cafeteria, Shopping Complex, SOE Dhaba and Amenity are a few. The University also provides daily bus service for commuters and visitors to and from Tezpur town at regular intervals. The University campus also houses a pre-primary school named Takshashila Vidyapeeth that provides pre-primary education to the children of campus dwellers as well as the people staying around the University. The school, Kendriya Vidyalaya No. 4, located inside the Tezpur University campus provides primary and secondary level education to students amidst the sylvan and lush green environment of Tezpur University.

The University facilitated the establishment of a Yoga Centre in 2010 for an 'add on course' for students. In addition, currently, the Centre provides daily practice sessions in the morning in a blended mode for the campus dwellers as well as people from the nearby villages. Tezpur University has regional branches of two national banks namely State Bank of India and Panjab National Bank inside the campus. Two State Bank of India ATMs and one Axis Bank ATM are located at three judicious locations inside the campus. The University campus also offers a Post Office, a Health Centre with three residential Medical Officers, a state-of-the-art 816 sitting capacity auditorium named Kalaguru Bishnuprasad Rabha (KBR) Auditorium, a 180 sitting capacity Council Hall, a Community Hall and a Chandra Prabha Saikiani Bhawan for music and drama practice for the inhabitants. The students and fraternity can also enjoy modern sports infrastructures such as an indoor badminton stadium, two basketball courts, two tennis courts, two volleyball courts, a 23,800 sq m cricket cum football field with floodlights facility, a 2,442 sq m swimming pool and a high-end gymnasium with world-class Weider and Afton products.

The Tezpur University campus shelters the students in 7 boys' hotels and 9 girls' hostels. The married students of Tezpur University are accommodated in the Scholar's Hostel on the campus. The campus offers residential quarters to the employees of the University. The state-of-the-art Guest House of the University has well furnished rooms, a 30-seater Conference Room, a 40-seater Dining Hall and a 24-hour internet connection. The 13,125 sq. m Botanical Garden within the University campus has about 300 nos of different plant species and attracts school and college excursions all year round. Tezpur University campus also offers hospitality to VIP and VVIP guests at a VIP guest house named Niribili situated within the premises of the Vice-Chancellor's residence. Great personalities like the Presidents of India and top national and international scientists have stayed at Niribili. The University has 109 Home Guards and 44 lady security guards who keep the inhabitants safe 24x7.

A total of 25 high-end instruments are currently housed and maintained by the Sophisticated Analytical Instrumentation Centre (SAIC) to cater for the instrumental analytical needs of researchers. Apart from Tezpur University researchers, people from other institutions and industries within the north-east region and beyond are also allowed to use these facilities. The instruments housed by SAIC include a Transmission electron Microscope (TEM), Scanning Electron microscope (SEM), Raman Spectrometer and Bomb calorimeter.

The faculty members received several project grants from various national and international agencies including UGC, DST, DBT, MeitY, MoEF&CC, NEC, AICTE, DAE, DRDO, ISRO, ICMR, ICAR, CSIR, UNICEF and others. At present, a total of 209 externally funded research projects are ongoing with a financial outlay of INR 7432.53 lakhs plus €105428.75 and £31,500. The IPR Cell of the University constantly encouraged and guided researchers in filing nine patents and publishing five in the

mentioned year. During this time, three patents were granted to Pritam Deb and Kasmiri Deka for 'Nanocatalyst for bio-oil production', Brijesh Srivastava, Baby Z. Hmar and Dipsikha Kalita for 'A process for manufacturing turmeric powder from raw turmeric rhizomes' and Pritam Deb, Kakoli Bhattacharya and Devaborniny Parasar for 'Mesoporous secondary nanostructures as multifunctional heavy metal scavenger'. Four technologies were also transferred to three private companies working in the fields of food technology and water purification.

The students and faculty members continued their good work by bringing laurels to the University. Prof. D. K. Bhattacharyya of the Dept. of Computer Science and Engineering was included in the list of Top 2% Scientists in the Globe, published by Stanford University Professors in the PLOS Journal. Prof. Niranjan Karak of the Dept. of Chemistry was listed among the top world scientists in AD Scientific Index. Prof. Partha Pratim Dutta was nominated as Professional Honorary Member (ISES: Germany): in 2021-2022. Dr Anushabda of the Dept. of Hindi was awarded the Hindi Bharati Samman 2021 by Vishwa Hindi Sahitya Parishad, Delhi. Dr Biplob Sarkar of the Dept. of Applied Sciences received a Life Membership of the Astronomical Society of India. An industrial design was also granted to the University on 'Prosthetic hand' developed by Prof. Nayan Moni Kakoty of the Dept. of Electronics and Communication Engineering.

Our students during the mentioned period performed well in Academic, Co-curricular and Extension activities. Around 238 students cleared NET/GATE/SET/SLET and other competitive exams during the period. The students displayed their talents at various Zonal/State and National level tournaments/competitions.

In the NIRF ranking, the University maintained a healthy position among the top Higher Educational Institutions in India. The University ranked 73 (Overall) and 46 among universities in the 2021 rankings. On the global stage, the University featured in the 1001-1200 position in Times Higher Education (THE) University Rankings in 2021.

The University completed several building projects in the year 2021-22. These include the renovation of Academic Building No. I & II, repairing and restoration of the damaged portion of the boundary wall, boring of 02 nos deep tube wells for central water supply scheme among others. Besides these, the University has also started 09 nos of building projects which includes Academic Buildings & Hostels under HEFA funding for INR 153.71 cr.

In terms of other activities like extension and outreach, skill development efforts, placement reports, achievements, etc. carried out by the University and its brief accounts have been reported in different sections of this annual report.

STATUTORY BODY: BOARD OF MANAGEMENT

Name/ Designation	Position	Note
Vice-Chancellor	Chairman	
Pro Vice Chancellor	Member	
Dr. A Nath, Assistant Professor, Dept. of Chemistry, GC	Member	Till 09-03-2022
College, Silchar, Assam		
Shri O R Shallam, Professor & Head (Retd.), Dept. of	Member	Till 09-03-2022
History, KNG College, Jowai, Meghalaya		
Shri B S Nanda, Associate Professor, Dept. of Political	Member	Till 09-03-2022
Science, Charuchandra College, Kolkata, West Bengal		
Dr. T David Singh, Associate Professor, Dept. of	Member	
Chemistry, Dept. of Basic Science and Humanities, NIT		
Manipur, Imphal		
Prof. Pradip Lingfa, Dept. of Mechanical Engineering,	Member	w.e.f. 10-03-2022
NERIST, Itanagar, Arunachal Pradesh		
Prof. Sudeshna Bhattacharjya, Department of Sanskrit,	Member	w.e.f. 10-03-2022
Gauhati University, Guwahati		
Dr. Milan Rani Jamatiya, Associate Professor, Dept. of	Member	w.e.f. 10-03-2022
Hindi, Tripura University, Agartala		
Dr. Joyanti Chutia, Former Director, IASST, Guwahati	Member	
Prof. P. K. Das, Dean, School of Humanities & Social	Member	Till 31-12-2021
Sciences		
Prof. Papori Baruah, Dean, School of Management	Member	w.e.f. 03-01-2022
Sciences		
Prof. M. K. Sarma, Dept. of Business Administration	Member	
Dr. Madhurima Goswami, Dept. of Cultural Studies	Member	T :11 05 01 0000
Dr. Heera Barpujary, Dept. of Business Administration	Member	Till 05-01-2022
Shri Rathijit Chakraborty, Dept. of Foreign Languages	Member	w.e.f. 12-01-2022
Alumni Representatives		
Dr. Barnali Das Deka, Tezpur, Assam	Special Invitee	
Dr. Dharma Saikia, Guwahati, Assam	Special Invitee	
Student Representatives	· · ·	·
Mr. Raktim Aabha Saikia, Research Scholar	Special Invitee	Till 08-06-2021
Mr. Jyotishpal Deka, President, TUSC	Special Invitee	Till 08-06-2021
Ms. Aarati Singh, Research Scholar	Special Invitee	Till 09-06-2021
Ms. Smitakshi Goswami, PG Student	Special Invitee	Till 09-06-2021
	^	
Finance Officer	Permanent Invitee	
Controller of Examinations	Permanent Invitee	
Registrar	Ex officio Secretary	

STATUTORY BODY: PLANNING BOARD

Name/ Designation	Position	Note
Vice-Chancellor	Ex-Officio Chairman	
Pro Vice Chancellor	Ex-Officio Member	
Dean, School of Humanities and Social Sciences	Ex-Officio Member	
Dean, School of Sciences	Ex-Officio Member	
Dean, School of Management Sciences	Ex-Officio Member	
Dean, School of Engineering	Ex-Officio Member	
Dean, Students' welfare	Ex-Officio Member	
Dean, Research and Development	Ex-Officio Member	
Dean, Planning & Development	Ex-Officio Member	
Dean, Academic Affairs	Special Invitee	
Six Teachers Nominated by the Academic Council		1
Prof Chandan Kumar Sarma, Dept. of Sociology	Member	
	Member	Till 07-04-2021
Prof. M. K. Sarma, Dept. of Business Administration Dr. P. Anbarasan, Dept. of Mass Communication &	Member	111107-04-2021
Journalism	Wiember	
Dr. T. R. Sarma, Dept. of Business Administration	Member	
*	Member	
Dr. S. I. Singh, Dept. of Computer Science & Engineering	Member	
	Member	w.e.f. 06-05-2021
Prof. D. K. Saikia, Dept. of Computer Science & Engineering	wiember	w.e.1. 00-03-2021
Prof. Chandana Goswami, Dept. of Business	Member	w.e.f. 06-05-2021
Administration	Wiember	w.c.i. 00-05-2021
One Representative of Ministry of Education	1	1
Joint Secretary (Central University), Ministry of	Member	
Education, Dept. of Higher Education, New Delhi		
One Representative of UGC		
Prof. S. B. Agrawal, Dept. of Botany, Faculty of Science,	Member	
Banaras Hindu University, Varanasi, Uttar Pradesh		
One Representative of NEC		1
Director (HRD & E), NEC, Nongrim Hill, Shillong-	Member	
793003	Wichioci	
One Representative of State Govt. of Assam		
Commissioner and Secretary, Dept. of Higher Education,	Member	
Govt. of Assam, Dispur, Guwahati-781006		
Two Nominees by the Board of Management		
Prof. Sashindra K. Kakoti, Dept. of Mechanical	Member	
Engineering, IIT Guwahati, Guwahati – 781 039		
Prof. Mohan Ch. Kalita, Dept. of Biotechnology, Gauhati	Member	
University, Guwahati – 781 014		
Controller of Examinations	Permanent Invitee	
Finance Officer	Permanent Invitee	
Librarian	Permanent Invitee	
Registrar	Ex-officio Secretary	

STATUTORY BODY: ACADEMIC COUNCIL

Name/ Designation	Position	Note
Vice Chancellor	Ex-officio Chairman	
Pro Vice Chancellor	Ex-officio Member	
Deans of Schools		
Dean, School of Management Sciences	Ex officio Member	
Dean, School of Humanities and Social Sciences	Ex officio Member	
Dean, School of Engineering	Ex officio Member	
Dean, School of Sciences	Ex officio Member	
Dean, Students' Welfare	Ex officio Member	
Dean, Research and Development	Special Invitee	
Dean, Academic Affairs	Special Invitee	
All Heads of Departments / Centres		
Head, Department of English	Ex officio Member	
Head, Department of Foreign Languages	Ex officio Member	
Head, Department of Cultural Studies	Ex officio Member	
Head, Department of Sociology	Ex officio Member	
Head, Department of Mass Communication and	Ex officio Member	
Journalism		
Head, Department of Education	Ex officio Member	
Head, Department of Social Work	Ex officio Member	
Head, Department of Hindi	Ex officio Member	
Head, Department of Law	Ex officio Member	
Head, Department of Assamese	Ex officio Member	
Head, Department of Business Administration	Ex officio Member	
Head, Department of Commerce	Ex officio Member	
Head, Department of Mathematical Sciences	Ex officio Member	
Head, Department of Physics	Ex officio Member	
Head, Department of Chemical Sciences	Ex officio Member	
Head, Department of Molecular Biology and	Ex officio Member	
Biotechnology		
Head, Department of Environmental Science	Ex officio Member	
Head, Department of Computer Science and Engineering	Ex officio Member	
Head, Department of Electronics & Communication	Ex officio Member	
Engineering		
Head, Department of Food Engineering & Technology	Ex officio Member	
Head, Department of Energy	Ex officio Member	
Head, Department of Mechanical Engineering	Ex officio Member	
Head, Department of Civil Engineering	Ex officio Member	
Head, Department of Electrical Engineering	Ex officio Member	
Head, Department of Design	Ex officio Member	
Head, Department of Applied Sciences	Ex officio Member	
Head, Computer Centre	Ex officio Member	
Head, Centre for Disaster Management	Ex officio Member	
Head, Women Studies Centre	Ex officio Member	
Head, Centre for Online and Distance Education	Ex officio Member	
Head, Centre for Inclusive Development	Ex officio Member	
Two Professors nominated by the Vice Chancellor	1	
Prof. Tarun K Maji, Dept. of Chemical Sciences	Member	Till 29-06-2021
Prof. C. L. Mahanta, Dept. of Food Engineering &	Member	w.e.f. 30-06-2021

Technology		
Prof. B. Konwar, Dept. of Molecular Biology and	Member	
Biotechnology		
Two Associate Professors Nominated by the Vice Chan	cellor	
Dr. Dambarudhar Mohanta, Dept. of physics	Member	
Bhim Pd. Sarmah, Dept. of Mathematical Sciences	Member	
Two Assistant Professors Nominated by the Vice Chan	cellor	
Dr. Riku Chutia, Dept. of Electronics and	Member	
Communication Engineering		
Dr. Reetamoni Narzary, Dept. of English	Member	
Three Nominees of the Board of Management		
Prof. N. C. Talukdar, Former Director, IASST, Guwahati,	Member	
Assam		
Prof. Desmond L Kharmawphlang, Dept. of Culture &	Member	Till 28-10-2021
Creative Studies, North-Eastern Hill University (NEHU)		
Umshing Mawkynroh, Shillong 793022, Meghalaya		
Prof. Anup Kumar Gogoi, Dept. of Electronics and	Member	Till 28-10-2021
Electrical Engineering (EEE), IIT Guwahati, Guwahati –		
781039, Assam		
Prof. Gautam Baruah, Director, IIIT Guwahati, Guwahati,	Member	w.e.f. 29-10-2021
Assam		
Prof. Ajanta Buragohain Rajkonwar, Vice – Chancellor,	Member	w.e.f. 29-10-2021
Assam Women's University, Jorhat, Assam		
One Representative of UGC	1	
Prof. Madhoolika Agrawal, Fellow of National Academy	Member	
of Sciences, CAS Department of Botany, Banaras Hindu		
University, Varanasi, Uttar Pradesh		
One Representative of Ministry of Education	1	
Vacant		
One Representative of NEC		
Director (HRD & E), North Eastern Council (NEC),	Member	
Shillong-793003		
One Representative of State Govt. of Assam		
Commissioner & Secretary / Principal Secretary In-	Ex-officio member	
charge, Department of Higher Education, Govt. of		
Assam, Guwahati-781006		
Controller of Examinations	Ex-officio Member	
Librarian	Ex-officio Member	
Registrar	Ex-officio Secretary	

STATUTORY BODY: FINANCE COMMITTEE

Name/ Designation	Position	Note
Vice Chancellor	Chairman	
Pro Vice-Chancellor	Member	
Joint Secretary and Financial Advisor, MoE, or his/her	Member	
nominee from Finance Bureau of MoE Not below the		
rank of Deputy Secretary		
Joint Secretary (CU&L) of MoE, or his/her nominee not	Member	
below the rank of Joint Secretary to the Govt. of India		
Joint Secretary (CU), UGC or any other Joint Secretary	Member	
level officer nominated by the Chairman, UGC		
Mr. S Vasum, IAAS, Deputy Controller & Auditor	Member	
General of India (Retired), Dimapur, Nagaland		
Shri B. Paul Muktiah, Chairman and Managing Director,	Member	Till 22-07-2021
North Eastern Development Finance Corporation ltd.,		
NEDFi House, Dispur, Guwahati – 781 006		
Prof. Ramesh Kumar Pandy, Vice Chancellor, Shri Lal	Member	w.e.f. 23-07-2021
Bahadur Shastri National Sanskrit University, New Delhi		
- 110016		
Prof. M. K. Sarma, Department of Business	Member	
Administration		
Finance Officer	Ex officio Secretary	

STATUTORY BODY: BUILDING COMMITTEE

Name/ Designation	Position	Note
Vice Chancellor	Ex officio Chairman	
Pro Vice Chancellor	Member	
Prof. S. K. Sinha, Dean, School of Engineering	Member	
Prof. Utpal Kumar Das, Dean Planning & Development	Member	
Prof Utpal Sarma, Department of Computer Science &	Member	
Engineering		
Prof. R. R. Hoque, Department of Environmental Science	Member	
Finance Officer	Ex officio Member	
Head, Department of Civil Engineering	Ex officio Member	
Chief Engineer, PWD (Bld), Assam, or his/her nominee	Ex officio Member	
who is not below the rank of Supdt. Engineer		
Er. Alok Ranjan Borah, Superintendent Engineer (Retd)	Member	
Superintendent Engineer (Electric), PWD (Elect),	Ex officio Member	
Guwahati Electric Division Guwahati, Assam		
Superintendent Engineer (PHE), Tezpur Circle, Assam	Ex officio Member	
Executive Engineer, Tezpur University	Ex officio Member	
Shri Amal Barman, Deputy Director, Office of the Chief	Member	
Engineer (Bldg), Guwahati, Assam		
Mr. D Saikia, Sr. Architect, PWD, Assam	Member	
Assistant Horticulturist, Tezpur University	Ex officio Member	
Registrar, Tezpur University	Ex officio Member	
	Secretary	

GENERAL ADMINISTRATION

About the General Administration

General Administration of the University looks after the entire administrative works of the University. The section is comprised of HR, Establishment, Store & Purchase, Receipt & Dispatch etc. The section provides all administrative support to the Academic Departments, Centres, Cells of the University for better performance. Various Statutory Bodies' meetings are coordinated by the General Administration section. It also organizes various/occasional programmes in the University. All correspondence with Ministry of Education, University Grants Commission, State Government and all other Institutes are coordinated by the section. All internal Notifications, Orders and Circulars etc. are also issued from this section. This section also deals with RTI matters and Official Language Implementation. All correspondence for organizing various programmes like Seminars, Workshops by various Departments, Centres and Cells are routed through General Administration Section. The section is responsible for proper implementation of various Guidelines issued by the Ministry of Education and University Grants Commission from time to time. Establishment Section looks after all the recruitment related matters and service related matters of Teaching and Non-Teaching Employees of the University, including promotions. This section also organizes in-house Training / Orientation Programs for the Non-Teaching Employees of the University. The Store & Purchase Section looks after the Purchase and Store related matters for the entire University. All media and Public related works are done by PRIO who is attached with General Administration Section.

Designation	Name	Highest	<email></email>	Date of holding
		Qualification	@tezu.ernet.in	the current
		(Institute)		position
Vice-Chancellor	Prof. Vinod Kumar Jain	D.Phil	vc	22/02/2018
Secretary to VC	Arun Bhagawati	MA	secretariat	12/06/2017
Lower Division Clerk	Bitopan Mazumdar	M.Com	b2pan94	23/02/2021
Driver	Debojit Saikia	Class X	debo345	14/02/2018
Multi-Tasking Staff	Umesh Roy	Class VIII	umesh	06/03/2018
	Kishor Basfor	Class II	kishor	01/01/2006
	Hiteshwar Hazarika	HSSLC	hites	24/05/2017
	Nakul Deka	Class IX	nakuld	01/06/2008

Pro-VC's Office: Officers and Staff Members

Designation	Name	Highest	<email></email>	Date of holding
		Qualification	@tezu.ernet.in	the current
		(Institute)		position
Pro VC	Prof. Dhruba Kumar Bhattacharyya	PhD	pvc	01/04/2021
Stenographer	Baby Newar	MA	baby	13/06/2018
Driver	Moloy Das	Class IX	moloy	01/01/2021
MTS	Kanak Das	Nil	kanak	14/06/2018

Registrar's Office: Officers and Staff Members

Designation	Name	Highest Qualification	<email> @tezu.ernet.in</email>	
		(Institute)		position
Registrar	Biren Das	PhD	registrartu	22/07/2013

Joint Registrar	Hridoy Saikia	MBA	hridoy	29/03/2016
UDC	Bidisha Baishya	M.Com	bidisha	28/02/2020
Driver	Joy Chandra Singha	Class IX		01/01/2021
MTS	Hemanta Kumar Gogoi	HSLC	hemantag	15/10/2014

Establishment Section: Officers and Staff Members

Designation	Name	Highest	<email></email>	Date of holding
		Qualification	@tezu.ernet.in	the current
		(Institute)		position
Assistant Registrar (Officiating)	Deba Kumar Bharali	BSc	dkrb	07/04/2022
	Debojyoti Dutta	BA	djd	24/01/2018
	Mohan Bahadur Sewa	B.Com	mbs	17/10/2012
Section Officer	Jinu Keot	MA	jinu	02/07/2014
	Partha Pratim Choudhury	BA	parpc	01/04/2010
	Anupal Das	BSc	baap	07/04/2022
	Bornalee Das	MA	blee_sb	10/09/2013
	Anupam Das	MA	anupamd	08/06/2015
UDC	Bhrigu Das	MA	bhrigu	21/10/2020
	Bhaskar Bhattarai	MA	bhattarai	09/11/2020
Stenographer	Mridula Das	BA	mridulad	24/06/2013
	Gambhir Bahadur Chetry	Class IX	gambhir	22/03/2017
MTS	Anjan Baruah	Class IX	Anjan123	30/11/2021
	Kumud Hajwari	HSLC	kajwari	01/12/2015

General Administration: Officers and Staff Members

Designation	Name	Highest Qualification (Institute)	<email> @tezu.ernet.in</email>	Date of holding the current position
Assistant Director (Official Language)	Kul Prasad Upadhyay	PhD	kul	29/06/2012
Security Officer	Nalini Kanta Sarmah (Retd. Supdt. of Police)	BSc	nalini	01/10/2012
Public Relations & Information Officer	Samaresh Barman	MA	samaresh/prio	01/12/2016
Section Officer (SC/ST Cell)	Samar Kakati	B.Com	sk	02/03/2020
Junior Translation Officer	Rekha Rani Bezbaruah	MA, B.Ed	rekharb	01/04/2013
Hindi Typist	Simimoyee Devi	MA	simi	02/03/2020
Driver	Tilak Chandra Das	Class VI	tilakd	21/10/2019
MTC	Puspa Kanta Chetry	HSLC	puspakt	20/08/2018
MTS	Rekha Das	HSLC	rekha2	16/09/2019

Store and Purchase Section: Officers and Staff Members

Designation	Name	Highest Qualification	<email> @tezu.ernet.in</email>	
		(Institute)		position
Assistant Registrar	Upakul Sarmah	PhD	upakul	02/06/2014

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Section Officer	Pranjal Kumar Borah	BA	poll	01/01/2018
Assistant	Santonu Sarmah	BSc, B.Ed	santonu	09/06/2020
MTS	Samojit Nath	MA	samojit	20/09/2018
	Santosh Chetri	HSLC	santosh	30/12/2020
	Bhupen Basumatari	Class X	bhupenb	21/03/2017

FINANCE SECTION

The Annual Accounts of the University are maintained in five parts: Part-I deals with Recurring and Salary Funds, Part-II for transactions related to Funds under Non-Recurring and Other Schemes, Part-III for Earmarked Funds and Extramural Research Projects, Part-IV for transactions related to Debts and Deposits Account and Part-V for maintenance of Provident Funds. The accounts for the year 2021-22 have been prepared in such formats as prescribed by the Ministry of Education, Govt. of India, on double entry book-keeping system of accounting on accrual basis with relevant Indian Accounting Standards.

Opening balance at the beginning of the financial year 2021-22 was Rs. 4297.78 lakh. During the year 2021-22, the University received a total amount of Rs.10697.35 lakh under Grants-in-aid: Recurring, Salary, Creation of Capital Assets. The University also generated Rs.1731.81 lakh as Internal Receipts which is a part of Grants-in-Aid: Recurring. Thus, the total fund available during the year was Rs.16726.94 lakh. Against the same, an amount of Rs.15392.46 lakh was spent during the year 2021-22 and Rs 89.99 lakh was Pull back by RBI on 31.03.2022, leaving an unspent balance of Rs. 1244.49 lakh as on 01.04.2022. In addition, University has received Rs 1436.16 lakh towards grants for Extramural Research Projects, out of which Rs 2254.64 lakh was utilized for such research projects.

				(Rup	ees in Lakh)
RECEIPTS			EXPENDITURE		
Particulars	Amount	Total Amount	Particulars	Amount	Total
					Amount
A) Opening Balance		4297.78	A) Expenditure		
B) Grants Received			I. Recurring	4351.48	
			Expenditure		
I. Grants-in-Aid	1547.31				
(Recurring)			II. Salary Expenditure	8859.09	
II. Grants-in-Aid	7400.04		III. Expenditure for		
(Salary)			Creation of Capital	2181.89	
			Assets		
III. Grants-in-Aid	1750.00				
(Creation of Capital					15392.46
Assets)		10697.35			
			Pull back by the RBI		
					89.99
		1721.01	Closing Balance		1244 40
C) Internal Receipts		1731.81			1244.49
Grand Total:		16726.94	Grand Total:		16726.94

The following statement represents the Receipts and Expenditure for the year 2021-22 at a glance.

Officers and Staff Members

Designation	Name	<email></email>	Date of holding the
		@tezu.ernet.in	current position
Finance Officer	Dr. Braja Bandhu Mishra	fotu	
Deputy Registrar	Kumarjit Dutta	kumarj	
Assistant Finance Officer (Officiating)	Sarat Chandra Konwar	saratk	
Internal Audit Officer	Niranjan Das	niraj	

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(Officiating)			
Junior Accountant	Biswajit Saha	bishu	
	Kandarpa Das	kandarpa	
	Apurba Medhi	apurbam	
	Alakananda Baishya	alka	
	Utpal Pal	utpaltu	
Upper Division Clerk	Lakhya Jyoti Gogoi	lakhyag	
	Deniel Bori	deniel	
	Brindabon Borah	brind	
	Durlav Pegu	durlav	
Stenographer	Kalyan Konch	kkonch	
Driver	Sarat Chandra Sarma	saratch	
Multi-Tasking Staff	Manoj Chakraborty	manojc	
	Ananda Rabha	rabhaa	
	Bharat Chandra Bhuyan	bharat	
	Bikash Jyoti Das	bikids	

ACADEMIC SECTION

About the Section

The Academic Section deals with examinations, result declarations and other academic matters. This office also got involve in various committees viz, Academic Council, Research Committee, Students Disciplinary Committee, Anti Ragging Committee, etc and took action on the decisions of the committees. The Academic Council meetings were organised with Controller of Examinations as Member Secretary on 23.09.2021 and 20.02.2022 and Research Committee meeting on 07.05.2021 and 28.03.22.

Designation	Name	<email></email>	Date of holding the
		@tezu.ernet.in	current position
Controller of Examinations	Dr. Lakhi Boral	boral	30/01/2019
Deputy registrar	Anamika Pegu (Officiating)	anamikapegu	07/04/2022
Assistant Registrar	Sobhan Mahanta	soma	17/05/2019
Section Officer	Biren Sharma	birens	17/05/2019
Assistant	Ajanta Pathak	pathaka	12/06/2013
	Dwipendra Ch. Das	rdas	01/05/2013
Steno (Gr. II)	Arunjyoti Das	arundas	28/04/2021
LDC	Prohelika Hazarika	rimjhim	26/07/2018
MTS	Debajyoti Saikia	debajyoti	01/01/2008
	Bhola Sharma	bhola14	01/04/2021
	Rupjyoti Das	rupjyoti	26/10/2015

Officers and Staff Members

Programme of Study

During 2021-22, 73 different programmes were offered for admission in 27 Departments. The programs were:

- *Ph.D Programmes*: Chemical Sciences, Environmental Science, Molecular Biology & Biotechnology, Mathematical Sciences, Physics, Computer Science & Engineering, Civil Engineering, Electronics & Communication Engineering, Energy, Food Engineering & Technology, Mechanical Engineering, Electrical Engineering, Applied Sciences, Business Administration, Commerce, English, Hindi, Mass Communication and Journalism, Education, Sociology, Social Work, and Multidisciplinary Research.
 - A new Centre for Multidisciplinary Research was established for offering PhD programme in conformity with the NEP-2020.
- *M.Tech. Programmes*: Information Technology, Electronics Design & Technology, Bioelectronics, Food Engineering & Technology, Mechanical Engineering, Civil Engineering, Energy Technology, Computer Science & Engineering.
- *M.Sc. Programmes*: Physics, Chemistry, Mathematics, Molecular Biology & Biotechnology, Environmental Science.
- *M.A. Programmes*: English, Linguistics & Language Technology, Cultural Studies, Mass Communication & Journalism, Sociology, Hindi, Social Work, Education, Communication for Development and Assamese.
- 5-years Integrated M.Sc. Programmes: Physics, Chemistry, Mathematics and Life Science.
- 5-years Integrated M.Com. Programme: Commerce
- 5-year Integrated M.A. Programme: English.

- 4-year Integrated B.Sc.B.Ed. Programmes: Physics, Chemistry and Mathematics.
- *B.Tech. Programmes*: CSE, ECE, EE, ME, Civil, Food Engineering and Technology (FET), and Lateral entry in EE and FET.
- *Other Professional programmes*: MBA, MBA (Executive), MCA, LLM, M. Com, Master of Tourism and Travel Management (MTTM)), B.Ed and Master of Design (M.Des). M. Des was a new programme offered under Department of Design.
- *PG Diploma Programmes*: P.G. Diploma in Translation (Hindi), P.G. Diploma in Women's Studies, P.G. Diploma in Child Rights and Governance.
- *Certificate Programmes*: 1-year certificate in Chinese and one semester certificate in NSE Certified Capital Market Professional. The NSE Certified Capital Market Professional (NCCMP) programme was offered as self-financing Part Time course.

Admission

Selection of candidates for admission was on merit basis this year, like in the year 2020-21, as the entrance examination could not be conducted due to covid-19 pandemic. The students in UG/PG programmes (except in B. Tech, MBA, M.Sc. in Molecular Biology and Biotechnology programme) were admitted provisionally considering the marks of the prefinal semester of qualifying examinations subject to the condition that they would submit the necessary pass certificates in subsequent months.

For B. Tech., selection for admissions was made based on All India Rank (CRL) of the JEE (Main) conducted by the NTA. Sixty percent of the total seats were filled up by the candidates of NE states on the production of Permanent Residence Certificate (PRC) issued by the Competent Authority of NE states. Counselling and admission of the shortlisted candidates for NE reserved seats were held at Tezpur University, and reservation was followed as per GoI rules. Admission to the remaining seats was made through the Central Counselling conducted by the JoSAA.

GATE-qualified candidates were directly admitted to the M. Tech. Programmes based on merit of GATE scores. Some Non-GATE candidates were also admitted to the M. Tech programmes based on the performance in the online test. For admission to MBA program, candidates were selected based on the score of National tests such as MAT/CAT/XAT/ATMA/GMAT/CMAT and Personal Interview. Admission to M. Sc. in Molecular Biology and Biotechnology was made based on the score of GAT-B - 2021 conducted by NTA.

Candidates of PhD programmes were selected based test conducted by the concerned Departments online.

Twelve students were admitted under the Defence Quota as per Govt of India policy and 02 international students were admitted through ICCR on a supernumerary basis. The number of foreign candidates sharply declined this year due to Covid-19 pandemic.

A total of 17644 applications were received through online mode for various programmes of studies. The number of candidates admitted to various programmes was 1601 out of intake 1993, of which 46.33% were female students. The University reserved seats for the OBC (NCL), SC, ST, EWS and PWD categories as per the Govt. of India rules.

As on December 2021, the total strength of the students in the university was 4597 and the percentage of reserved category students on the campus were 24.79% (OBC-NCL), 11.16% (SC), 7.31% (ST), 5.57% (EWS) and 0.95% (PWD). The total number of foreign students at the University was 13.

Overall, 81.02% of the students were from the state of Assam, while 18.69% students were from the rest of the country.

Classes, Examinations and Results

Classes of newly admitted students in the Academic session 2021-22 were conducted online from 5th October 2021 for MBA, M. Des and PhD programmes and from 21st October 2021 for other programmes (except B. Tech). B. Tech classes started on 1st December 2021. The delay in starting the new session was due to effect of Covid-19 pandemic. However, the classes of the second semester were conducted in offline mode w.e.f 10th March 2022. The classes of second semester B. Tech were further delayed. Classes of the Intermediate and final year students were held in offline mode from the August 2021, and their next semester started as per scheduled date.

The Spring Semester (Even Semester) End Examinations, 2021 were conducted during the period from 04.06.2021 to 30.06.2021, and the results were declared on 31.07. 2020. The Autumn Semester (Odd Semester) End Examinations, 2021 (except first semester) were conducted during 9.12.2021 to 20.12.2021, and the results (except 1st semester) were declared on 07.01.2022. The examination of the first semester it was conducted during 16.02.2022 to 04.03.2022 and results were declared on 16.03.2022. The delay in declaring the results of the first semester students was due to delay in starting the academic session, which started on 5th October 2021, due to covid_19 pandemic.

As many as 1080 nos. of final (last) semester students appeared in the Spring semester examinations in the year 2021, and 97.59% of the students passed the examinations.

Convocation

The 19th Convocation was held on 26.02.2022 and His Excellency President of India Shri Ram Nath Kovind graced the Convocation ceremony as the Chief Guest and delivered Gold medals to ten toppers of the year 2021 and delivered his Convocation address. His Excellency, Governor of Assam & Chancellor Shri Jagadish Mukhi and Honourable Chief Minister of Assam, Dr. Himanta Biswa Sarma, were also present at the ceremony and addressed to the dignitaries and awardees.

A total of 1249 passed-out students, including passed out from Centre for Open and Distance Learning, were eligible to receive the degrees and Diplomas in the Convocation. The Honourable President of India awarded gold medals to the ten best toppers from all the schools. In addition to this, 36 Gold Medals were awarded to other toppers of UG and PG programmes in the Convocation. The Best Graduate medal was awarded to Mr. Pushpak Jalan (Roll no. CSB17002) of B. Tech in Computer Science & Engineering programme and the Best Postgraduate medal was awarded to Mr. Vivek Gupta ((Rollno.FEM19007) of M. Tech Food Engineering & Technology programme. There were 63 students who were awarded PhD degrees in the Convocation.

Free Studentship and Fellowship/Scholarship

As many as 23 (twenty-three) students belonging to the BPL family were awarded free studentship in the Autumn Semester 2021. As per the free studentship guidelines, they were exempted from paying any fees except a Caution deposit, Medical Insurance fees and hostel menial Charge and hostel mess advance.

Fresh applications for non-NET fellowship were also scrutinized, and 150 PhD students were awarded the non-NET fellowship. During the year as many as 390 PhD students (fresh and continuing) availed the non-NET fellowship from the University. Forty-two students of M. Tech programmes have received a GATE scholarship in the year 2021-22. Fifty-two students of M. Sc in Molecular Biology and Biotechnology were awarded DBT Stipend. Applications of many students were forwarded to NSP for Ishan Uday Scholarship, Post Metric Scholarship for SC, ST and OBC students, Merit cum means

scholarship, Post Metric scheme for minority students, PG scholarship for university rank holders, etc. for award of the scholarship, however, no information was received from the funding agencies about exact number of recipients of the scholarship.

INTERNAL QUALITY ASSURANCE CELL

About the Cell

As mandated by NAAC (National Assessment and Accreditation Council), Tezpur University Internal Quality Assurance Cell (TU IQAC) is engaged in a series of activities required to foster the spirit of quality among the individuals and Departments/Sections of the University. Besides working for assured quality assessment for the career advancement of faculty members, IQAC also carries out capacity-building activities to support quality teaching-learning and assist feedback and mentoring exercises. IQAC meetings are organized at regular interval for deliberations on significant issues concerning quality with monitoring of the follow-up actions. University's annual activities are appropriately accounted for in the Annual Quality Assurance Report (AQAR) prepared by IQAC.

Notable activities of the Cell

- NAAC Sponsored State Level One-Day Workshop on "*Challenges in revised NAAC assessment and accreditation framework*." The Director, IQAC, Tezpur University deliberated in the event organized by Arya Vidyapeeth College, Guwahati, Assam, on 26 June 2021.
- The 1st meeting of IQAC Committee was held on 07 July 2021, where several important matters were discussed.
- On Engineer's Day, held on 15 September 2021, the Director of IQAC, Tezpur University, deliberated on "*Quality aspects of engineering projects*."
- Orientation Program for Screening and Verification of the Annual PBAS of the Faculties was held on 23 December 2021.
- Awareness and Sensitization Program on "*Good Academic Research Practices*" was organized for Research Scholar and students during Nov-Dec 2021, in collaboration with the Departments under various Schools of Tezpur University.
- The 2nd meeting of IQAC Committee was held on 19 January 2022, where several important matters were deliberated.
- Annual Quality Assurance Report (AQAR) for the year 2020-2021 was submitted to NAAC on 21/01/2022.
- National Level Workshop On "*NAAC Revised Accreditation Framework (RAF): Its Relevance in the Present Higher Education Paradigm in India.*" The Director of IQAC, Tezpur University, deliberated in the event organized by Srikishan Sarda College, Hailakandi, Assam-788151 on 01 March 2022.
- Orientation meeting on Preparation for the forthcoming NAAC Peer Team visit was held on 10 March 2022.

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the current position
Director	Debendra Chandra Baruah	baruahd	01-11-2017
Data Consultant	Santanu Mahanta	santanu	05-07-2016

Officers and Staff Members

INTERNATIONAL STUDENTS OFFICE

About the Office

International Office of Tezpur University was established in February 2013. It was rechristened as the International Students Office on July 28, 2021, vide BoM resolution no 102/2021/3/2.2. The International Students Office is run by a part-time Director who is assisted by a Coordinator and an Assistant Coordinator. The International Students Office handles the admission of international students and organizes talks and seminars on overseas education and research opportunities.

Activities

The activities of the International Students Office continued to be impacted by COVID-19, which saw a downturn in the number of international students seeking admission. A few students were admitted via the newly established Indian Council for Cultural Relations (ICCR) admission portal. These students initially attended online classes along with their Indian counterparts before arriving on the campus later in the academic year. All international students present on campus were vaccinated on June 22 (also subsequently) in the university's Health Centre. On June 25, International Students Office called a meeting of Deans and Heads to discuss the processing of ICCR applications and how to increase the number of international students.

The Director of the International Students Office also attended an online meeting organized by Director General, ICCR on July 2 to discuss admission matters. A function was organized by the office to give away certificates to passing-out students on August 9. Another function was organized to welcome new international students (those joining after the lifting of lock-down) on December 8.

Designation	Name	Highest	<email></email>	Date of holding the
		Qualification	@tezu.ernet.in	current position
Director	Prof. P. K. Das	PhD	tuiso	28-07-2021
Coordinator	Ratan Boruah	PhD	rboruah	28-07-2021
Assistant Coordinator	Krishna Das	PhD	krishnadas	28-07-2021
Multi-Tasking Staff	Ranjit Saikia	Matric	saikia	28-07-2021

Officers and Staff Members

OFFICE OF THE PROCTOR

About the Office

The Proctor's office was established on 24-09-2018. The primary function of this office is to look after matters related to regulations on discipline and proper conduct of students of Tezpur University.

Designation	Name	Highest Qualification (Institute)	<email> @tezu.ernet.in</email>	Date of holding the current position
Chief Proctor	Prof. Sankar Chandra Deka	Ph.D	sankar	24-09-2018
Proctor	Prof. Raza Rafiqul Hoque	Ph.D	rrh	24-09-2018
Proctor	Prof. Joya Chakraborty	Ph.D	jc	24-09-2018

Officers and Staff Members

Significant Activities

The proctor office look after the matters related to regulations on discipline and proper conduct of students of Tezpur University. There are no significant activities performed by the office like outreach/extension activities, events organized etc.

REPORT OF THE DEAN, RESEARCH AND DEVELOPMENT

About the Office

The office of the Dean, R&D facilitates the implementation and smooth creation of extramural research projects funded by the various Government and non-Government funding agencies like UGC, DST, DBT, MeitY, MoEF&CC, NEC, AICTE, DAE, DRDO, DRL, ISRO, ICMR, ICAR, CSIR, INSA, ASTEC, UNICEF, IUAC, Ministry of Earth Science, Ministry of Food Processing Industries, MNRE, ONGC and others. This office takes responsibility for advertisement and appointment of project staff; permits conduct of field trips/visits as required by the project staff and PIs and/or Co-PIs; grants permission to attend workshops/seminars/symposiums/ conferences as well as to visit different research laboratories by using the project grant. In addition to managing extramural research projects such as UGC-SAP, UGC-BSR startup grants, DST-FIST and DBT funded schemes. Dean R&D also facilitates the Tezpur University Ethical Committee, Tezpur University Animal Ethical Committee and Tezpur University Biosafety Committee meetings. This office has also been involved in implementation of projects approved by ONGC-CPBT, an example of Academy-Industry collaboration at Tezpur University.

Designation	Name	<email></email>	Date of holding the
		@tezu.ernet.in	current position
Dean	Prof. Niranjan Karak	nkarak	01/04/2019
Section Officer	Himadri Das	himdas	02/05/2013
Assistant	Raj Kumar Das	raj	06/03/2020
MTS	Dharanidhar Bania (up to 21/10/2021)	baniad2	16/09/2019
	Partha Pratim Basumatary	parthab	22/10/2021
	(w.e.f. 22/10/2021)		

Officers and Staff Members

Research Projects (both Ongoing and New)

It may be mentioned that the Dean R&D keeps the account of R&D activities of the University, liaisons between the researchers of the University and the funding agencies, facilitates R&D activities and contributes towards creating a conducive atmosphere for research activities. During the year 2021-2022, this office has forwarded 94 research proposals for consideration of approval to the funding agencies. At present a total of 209 externally funded research projects are ongoing with a financial outlay of Rs. 7432.53 lakhs plus €105428.75 and £31,500. During the year 2021-2022, 26 new projects were sanctioned. The ongoing research projects include 15 international collaborative projects of which 2 projects are under Indo-UK, 2 with Indo-Russian, 1 with Indo-Brazil, 2 with Nottingham University, 1 with CEFIPRA (Indo-French), 1 with Indo-German, 1 with Indo-Hungary, 2 with Indo-ASEAN, 1 with Indo-Sweden, 1 with ERASMUS (Indo-Greece-Italy) and 1 with Indo-Bulgaria. During this period, three departments were supported by DRS-II under the UGC-SAP. The faculty members have published several research papers in peer-reviewed national and international journals. Further, these projects have augmented the research skills of the project staff and have created trained manpower to cater to the need of society.

Consultancy Works

The office also facilitates consultancy projects of faculty as per the TU guidelines. Total amount earned through consultancy projects during 21-22 was approximately INR 2,06,36,080/-. This amount was earned as consultancy fee by individual faculty and the departments of various Schools.

Fellowship

In addition, the office also deals with various fellowship matters such as UGC-NET JRF, NFOBC, NFST, NFST, MANF, DS Kothari, SVSGC, CSIR-JRF/SRF, DST-INSPIRE, DBT-JRF etc. Different fellowships received during 21-22 are as follows:

Name of Fellowship	Number of Recipient Students
UGC-NET (JRF)	09
NFST	06
CSIR-JRF	06
CSIR-SRF	02
NFSC	02
MANF	01

REPORT OF THE DEAN, STUDENTS' WELFARE

About the Office

The office of the Dean Students' Welfare provides ample scope, opportunities, and facilities for the allround development of personality and leadership qualities among the students. The University has a vibrant student community actively involved in sports, cultural, literary, and other extra-curricular activities.

Students Discipline

The office of the Dean, Students' Welfare has been looking after the matters of students' discipline. Like the previous years, the Anti-Ragging committees and Anti-Ragging squads continued their constant vigil to keep the University Ragging Free. As a result, there has been no disruption of academic activities because of students' unrest in the last year. This was made possible because of the efficient and dedicated grievance redressal mechanism in place in the university, both online and offline.

Students Activities

The student community of the University is proactive in pursuing sports, cultural, literary, and other extra-curricular activities. Sports and cultural events are organized regularly on the campus, wherein we can see the spontaneous participations of a large number of students. A brief note on the cultural and sports activities of the university are as follows:

The cultural section of the university is quite resourceful and very proactive in nurturing the talents of the students by providing the best facilities. Music Practice Room is available at the Students' Activity Centre. Kalaguru Bishnu Prasad Rabha Auditorium, Community Hall, and Chandra Prabha Saikiani Bhawan are some of the facilities for practice and performance. There are different instruments like Guitar, Drum Set, Synthesizer, Dhol, Bor Dhol, Kobi Dhol, Madol, Doba, Pepa, Bahi, Gogona, Kham, Khol, etc. are available for the use of students.

Sports Activities

The University has crated impressive facilities and support systems to encourage the students to take up sports and games along with their studies. Some of the major facilities which are in place are as follows:

- Football ground with floodlights facility
- One 400-meter track cum cricket field with floodlights facility
- Two Basketball courts with floodlights facility
- Two Volleyball courts with floodlights facility
- One Tennis court with floodlights facility
- One Indoor Stadium (Badminton Court with YY Yonex Synthetic Mat)
- A gymnasium with world class Weider products, USA, and Afton product
- One Swimming Pool

Annual Meet 2021-2022

The Annual Meet 2021-2022 of Tezpur University was organized by the Students Council from 5th March 2022 to 20th March 2022. There were both group and individual competitions. The group competitions were either Inter-Departmental or Inter-Hostel. Some of the major competition events were Dances, Drama, Song, Literary, Debate, Photography, Fine Arts, Wall Magazine, Cultural procession, etc.

Event	Position	Name (Hostel)
Music	Best Singer	Ankita Konwar (DWH)
Dance	Best Dancer	Akaash Ranjan Phukan (CMH)
	Best Actor	Sashreek Ganguli (SCVRMH)
Skit	Best Actress	Pratyashi Baishya (NWH)
<i>SKII</i>	Best Supporting Actor	Satyajit Borah (KMH)
	Best Supporting Actress	Anamika Nath (PMCWH)
	Best Comedian	Karan Kumar Das (PMH)
	Script Writer (Appreciation For Original)	Angshuman Hazarika (NMH)
	Best Supporting Actor	Satyajit Borah (KMH)
	Best Supporting Actress	Anamika Nath (PMCWH)
One Act Play	Best Director	Abhijit Deka (KMH)
	Best Actor	Chiranjeeb Batsyas (CMH)
	Best Actress	Chiyangshi Phukon(DWH)
	Judge Special Award	Samiran Adhikary (CMH)
	Judge Special Award	Juganta Janam Gogoi (NMH)
	Best Dhulia	Abhijeet Gogoi (SCVRMH)
Bihu	Best Pepabadak	Ashish Bordoloi (KMH)
Diriu	Best Bihua	Abhinab Dutta (NMH)
	Best Bihuwati	Trishna Ray (KWH)

Best Performers of Annual Meet 2021 -2022 in Cultural/Literary/Visual Arts

Sports Activity

The 24th Annual Meet, 2021-22 of Tezpur University was started in the month of March 2022 with Football, Cricket, Archery, Volleyball, Basketball, Badminton, Table Tennis, Chess, Kho Kho, Kabaddi, Carrom, Lawn Tennis Competitions. Finally, the concluding session was held from 5th March 2022 to 20th March 2022 with Track & Field events, Weightlifting, Powerlifting, Best Physique, Arm Wrestling, Tug of War, Cycling and Half Marathon along with March Past Competitions.

Vice Chancellor, Prof. Vinod Kumar Jain lighted the main lamp followed by hoisting of the University flag. Earlier the Assistant Director of Physical Education, Mr. R.R Singh handed over the torch to Professor Jain, which was carried by the Assistant Director of Physical Education (ADPE) along with the captains of the winning teams, Outdoor and Indoor Games Secretary. Major Gen Sanjay Sajjanhar, COS HQ 4 Corps, Mission Charali graced the Inaugural

Year	Date	Event	Venue	AIU/Others	Achievement
	22^{nd} to 26^{th}		Kalinga Institute	AIU Inter Zonal	
2021	December	Swimming	of Social	Swimming Tournament	Participate
	2021		Sciences (KISS)	(M/W) 2021-22	
	24^{th} to 28^{th}			AIU All India Inter	
2022	February	Arabamy	Chandigarh	Zone Archery	Participate
2022	2022	Archery	University	Tournament (M/W)	Farticipate
	2022			2021-22	

Events Organized by Students' Activity Centre, Tezpur University

SI No.	Event	Date	
1	Yoga Day	21 st June 2021	
2	Art of Leaving	21-23 July 2021	
3	Independence Day (Online painting)	15 th August 2021	
4	Cricket Match (Faculty/Staff)	15 th August 2021	
5	Fit India Movement	29 th August 2021	

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6	Celebration of Swarnim Vijay Varsh	September 2021
7	Unity Day	2 nd October 2021
8	Inauguration of basketball court	1 st December 2021
9	Republic Day	26 th January 2022
10	Inauguration of cricket Ground	20 th February 2022

Overall Best Performers of 24th Annual Meet 2021-22 (Sports)

Sl. No.	Game	Name of Best Player (Hostel)		
1	Kabaddi (Men)	Narottam Gogoi (NMH)		
2	Kabaddi (Women)	Budagam Poojitha		
3	Volleyball (Men)	Saurab Debnath (PMH)		
4	Volleyball (Women)	Stanzin Tsangyang (PWH)		
5	Basketball (Men)	Chandrim Konwar (KMH)		
6	Basketball (Women)	Aditi Gogoi (SWH)		
7	Best Athlete (Man)	Surjit Kumar Yengkhom (NMH)		
8	Best Athlete (Woman)	Daisy Basumatary (KWH)		
9	Strong Man, 2021-22	Kaustav Das (NMH)		
10	Strong Women, 2021-22	N. Sophia Devi (PMCWH)		
11	Best Lifter (Man)	Awanish Singh (SCVRMH)		
12	Best Lifter (Women)	N . Sophia Devi (PMCWH)		
13	Champion Of The Champion (Yoga)	Nipona Shill (SWH)		
14	Champion Of The Champion 2021-22 (Men)	Dipankar Nath (MBA)		
15	Champion Of The Champion 2021-22 (Women)	Priyanka Saikia (PWH)		
16	Mr. Tu (Men Model Physique 2021-22)	Rajat Shubro Bose (SCVRMH)		
17	Mr. Tu 2021-22	Deepankaj Bhattacharya (SCVRMH)		
20	Best Commander Men (March-Past)	Biliphang Basumatary (KMH)		
21	Best Commander Women (March-Past)	Jugami Brahma (DWH)		

Officers and Staff Members

Designation	Name	<email> @tezu.ernet.in</email>	Date of holding the current
		@tezu.ernet.m	position
Dean	Prof. Dhanapati Deka	dsw	01-02-2017
Associate Dean (Sports)	Prof. Manabendra Mandal	adsw14	28-11-2014
Associate Dean (Cultural & Lit.)	Dr. Juri Gogoi Konwar	jgkon	30-03-2016
Assistant Director of Physical Education	Mr. Rajkumar Raju Singh	rrsingh	20-07-2018
Sports Officer	Mr. Bahniman Sarmah	bahinam	01-01-2021
Clinical Psychologist	Mr. Asish Pratim Bora	asishpb	01-02-2022
Senior Administrative Assistant	Dr. Swagat Chutia	swagat.energy	17-01-2022
Office Assistant	Mr. Saurav Jyoti Borah	sborah	02-01-2017
Multi-Tasking Staff (MTS)	Mr. Dudu Tamuli	dtamili	20-05-2013
	Mr. Jiban Damai	jiban	03-04-2017
	Mr. Biren Bora	biren73	30-09-2019
	Mr. Sahed Ali	sahedali21	17-03-2017

TRAINING & PLACEMENT CELL (ENGINEERING)

About the Cell

The Training and Placement Cell acts as an effective institutional arrangement primarily aimed at training and placement of students in the best-known corporate entities in the country. It establishes linkages with various corporate and facilitates placement events on campus as well as off campus. One of the major activities of the Cell is to groom the students to make them industry ready and enhance their chances of employability. The Cell is also playing an active role in placing many students through Internships, initially with a stipend and later regularized in the payroll of the company. During the reporting period, 07 technical training sessions with durations ranging from a week to fortnight, and 06 career counselling sessions by industry experts were organized by the Training & Placement Cell of SoE. The Placement Cell of the School of Engineering had another successful year of placement for the batch of 2022, wherein 41 organizations participated, and the highest salary package offered was USD 48000 P.A by Blockswap. The other organizations where our students got placed are Oil India Limited, Antares Technologies, Techvariable, Maventic, KEC International, Cognizant Technologies Solution, Wipro Ltd, Zaloni Technologies, TCS, Betsol Software Pvt. Ltd. and Capgemini Technology Services India Ltd, Alstom, Amazon, Indradhanush Gas Grid Limited, IQVIA, ITC infotech Limited, Tata Technologies Ltd, L&T Technology, L&T Limited, Federal Bank etc.

workshop/symposium/semmar/mvneu Taik etc. Organizeu		
Title of Event/Talk	Resource Person	Data/Period
An Interactive session by Ambassador Dr. Deepak Vohra as guest	Ambassador Dr.	08-11-2021
speaker on the topic "Our world in 2025 with India Perspective" at	Deepak Vohra	
T&P Cell, SoE Deans Gallery 3:30 PM on 08 th Nov. 2021. Total 256		
nos students and Faculty attended the session.		
A webinar by Dr. Pradeep Kumar Ramancharla, Professor &	Dr. Pradeep	24-11-2021
Registrar, IIIT Hyderabad on the topic "Life Beyond Smart Living"	Kumar	
at T&P Cell Deans Gallery on 24 th Nov. 2021. Total 91 students	Ramancharla	
attended the webinar.		
A Webinar by Ministry of MSME, Govt. of India on the topic "To	MSME Officials	01-12-2021
Motivate for a Career in the field of Entrepreneurship" at T&P Cell		
Deans Gallery on 01 st Dec 2021. Total 114 nos students attended the		
webinar.		
A workshop on "Empowered Communication" by Ambassador Dr.	Ambassador Dr.	24-12-2021
Deepak Vohra on 24 th Dec 2021 at Training and Placement Cell,	Deepak Vohra	
SoE Deans Gallery. Total 45 nos students participated on the		
workshop.		
A workshop on "TRUST" by Ambassador Dr. Deepak Vohra on 25 th	Ambassador Dr.	25-12-2021
Dec 2021 at Training and Placement Cell, SoE Deans Gallery. Total	Deepak Vohra	
17 nos students participated on the workshop.		
A workshop on "Being Interview" by Ambassador Dr. Deepak	Ambassador Dr.	26-12-2021
Vohra on 26 th Dec 2021 at Training and Placement Cell, SoE Deans	Deepak Vohra	
Gallery. Total 18 nos students participated on the workshop.		

Workshop/Symposium/Seminar/Invited Talk etc. Organized

Distinguished Visitors

Name of the Visitor	Designation	Organization/Company	Date/Period
Shri Ajit Thakur	CEO	Indradhanush Gas Grid Ltd.	12-03-2022

Name of the	Designation Offered	No. of	Academic	Department
Organization/ Company		Students Placed	Programme	
Accolite Digital	Internship	01	B-Tech CSE	CSE
Allegion	Graduate Engineer Trainee	06	B-Tech CSE MCA	CSE
Alstom	Graduate & Post graduate Engg. Trainee	09	B-Tech CSE, ECE, M-Tech ELDT, ME	CSE, ECE
Amazon India	Software Developer Engineer	01	B-Tech CSE	CSE
Amul	Territory Sales In-Charge	02	B-Tech FET	FET
Antares Tech	Internship	03	MCA	CSE
Betsol	Associate Software Engineer	05	B-Tech CSE, M- Tech IT	CSE
Blockswap	Engineer	01	B-Tech CSE	CSE
Brainayan	Software Engineering	01	B-Tech CSE	CSE
Capgemini Technologies	Analyst, Senior Analyst	13	B-Tech CSE, EE, ECE, Civil, MCA	CSE, EE, ECE, Civil
CDAC	Internship	05	B-Tech CSE, M- Tech IT	CSE
Cognizant Technologies	Analyst Trainee	44	B-Tech EE, CSE, ECE, ME, Civil, MCA, M-Tech IT	EE, CSE, ECE, ME, Civil
CoinDCX	Internship	01	B-Tech CSE	CSE
Cordis	Software Engineer Intern	02	MCA	CSE
Federal Bank	Junior Management Grade I	09	M-Tech ELDT, Bio, ME B-Tech Civil, ECE	ECE, ME, Civil
IGGL	Engineer	01	B-Tech ECE	ECE
IQVIA	Associate Software Developer	09	B-Tech CSE, ECE, CSE, EC MCA, M-Tech CSE	
ITC Infotech	Associate IT Consultant	18	B-Tech CSE, EE, Civil, ECE, ME ME	
KEC International	Engineer	04	B-Tech EE	EE
L & T Limited	Graduate Engineer Trainee	04	B-Tech ECE, EE, ME	ECE, EE, ME
L&T Technology Services	Post Graduate Engineer Trainee	08	M-Tech CSE, IT	CSE
Maventic	Internship	01	B-Tech CSE	CSE
Netenrich Technologies	Internship	01	MCA	CSE
Oil India Limited	Sr. Engineer	03	B-Tech ME	ME
Paralaxion	Associate Software Engineer	01	MCA	CSE
Prasuma	Trainee	03	M-Tech FET	FET
RDC Concrete		01	B-Tech Civil	Civil
Saint Gobain	Engineer	03	B-Tech ME, Civil	ME, Civil
Sanmar Group	GET	01	B-Tech ME	ME
Siemens Technology and Services	Internship	01	B-Tech CSE	CSE
Software AG	Internship	02	MCA	CSE

Tata Technologies	Graduate Engineer Trainee	07	B-Tech ME	ME
TCS	Assistant System Engineer-	09	B-Tech CSE, ECE,	CSE, ECE
	Trainee		MCA	
Team Lease	Internship	01	B-Tech CSE	CSE
Tech Variable	Junior Programmer Analyst	02	MCA	CSE
Velocity	SDE	03	B-Tech CSE	CSE
VKV	Faculty	01	M-Tech IT	CSE
Vodafone	Internship	01	MCA	CSE
WazirX	Software Development	01	B-Tech CSE	CSE
	Engineer			
Wipro	Project Engineer	24	B-Tech Civil, ECE,	Civil, ECE,
			CSE, EE, ME	CSE, EE, ME
Zaloni Technologies	Associate Software Engineer	05	B-Tech CSE, MCA	CSE

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the
			current position
Professor-in-Charge	Sarat Saharia	Sarat	22-09-2021
Deputy Director	Pijush Chandra Das	pijush	11-11-2016
Multi Tasking Staff	Mr. Nayan Jyoti Kalita	nayank@tezu.ernet.in	29-04-2018

TRAINING & PLACEMENT CELL (NON-ENGINEERING)

About the Cell

The Placement Cell (Non-Engineering) of Tezpur University creates a platform where students can showcase their talents, which different organizations seek to explore and utilize. Starting from 1996, we have successfully placed several students who have appeared for placement processes.

While the Covid-19 pandemic continues to affect the economy and job market, the Training and Placement cell (Non- Engineering) of Tezpur University has continued its streak of growth in Placement Season 2021-22. The Cell hosted 44 Organizations and conducted recruitment drives for our students in online and offline modes. The placement opportunities were complemented by lucrative pay packages. Each year, we invite companies from various fields to make more options available to all Non-engineering Students of our university. The placement cell maintains a constant contact with students and notifies upcoming webinars, Placement Preparation trainings, skill building workshops, and on, off and pool campus recruitment processes. As we move ahead, we will continue to support our students through various initiatives to ensure that once they graduate, they have some direction to move their careers forward.

Workshop/Sym	posium/Sen	ninar/Invited	Talk e	tc.Organized
······································				

Title of Event/Talk	Data/Period
Online session on Fulbright-Nehru and other Fulbright fellowships in association with Fulbright Commission in India.	19-04-2021
EducationUSA India is presenting a series of webinars "Hallmarks of U.S. higher education"	30-06-2021
Webinar series on 'Career and academic prospects after MBBT" in collaboration with Department of MBBT	
Talk 1: Opportunities and Job roles in Pharmaceutical Sector by Ishani Goswami (Batch 2014-16) Novo Nordisk A/S, Bangalore	03-07-2021
Talk 2: Career Opportunities in Human Data Analytics, Namrata Borthakur (Batch 2014-16) IQVIA India, Gurugram	
Talk 3: Excitement of Microbiologist in Industry, Abhisweta Bhatt (Batch 2016-18) Havells India Limited, Haridwar	4-07-2021
Talk 4: Industrial Training after Master program in Life Sciences Bandana Singha (Batch 2018-20)	
Dr.Reddy's Laboratories, Hyderabad	5-07-2021
Talk 5: Sensing the second messengers: Mechanistic insights into how bacteria signal through second messengers, Dr. Badri Nath Dubey (Batch 2004-06) Staff Scientist CSSB-Centre for Structural systems biology, Deutsches, Hamburg	5-07-2021
Talk 6: Academic career prospects after master program in life sciences and share my own story about the excitement in science and prospects of doing a Ph.D. in Europe, Dr.Badri Nath Dubey (Batch 2004-06) Staff Scientist CSSB-Centre for Structural systems biology, Deutsches, Hamburg	17-07-2021
Talk 7: How to apply for a PhD abroad- A Personal Reflection and Experience, Bondita Dehingia (Batch 2015-17) Graduate Student, Dioscuri Center of Chromatin Biology and	

Epigenomics Nencki Institute		
Webinar on "Identify your strength to Navigate from Today's uncertainties" by Dr.Giri	27-08-2021	
Shankar, Behavioral scientist GS ventures.		
DAAD Organised a combined E-Visit and presented on DAAD scholarship	17.00.2021	
programmes to some of the Universities in NorthEast India	17-09-2021	
Pre-placement Grooming Programme (Resume Writing, Group Discussion) Resource	18-09-2021	
Person: Dr Ajit Kumar Naik, Sr.Consultant - Brainayan		
Pre-placement Grooming Programme (Presentation Skills, Interviewing Skills)	25-09-2021	
Resource Person: Dr Ajit Kumar Naik, Sr.Consultant - Brainayan		
Pre-placement Grooming Programme (Mock GD & Interview) for School of HSS &		
Science students Resource Person: Dr Ajit Kumar Naik, Sr.Consultant - Brainayan		
Pre-placement Grooming Programme (Mock GD & Interview) for School of	03-10-2021	
Management Science students Resource Person: Dr Ajit Kumar Naik, Sr.Consultant -		
Brainayan		
Webinar on Leadership in Education for the 21st century by The Teach for India	01-11-2021	
Fellowship Resource Person: Puja Sarkar -TFI Fellow-2018, Denim Barugohain - TFI		
Fellow-2019, (TU Alumni)		
Webinar on " Career Choices in the world of Communication: Let's get Candid with	24-02-2022.	
Parash" Ms. Parash Deori (TU alumna), Director - Millennial Board, Adfactors PR.		

Distinguished Visitors

Name of the Visitor	Designation	Organization/Company	Date/Period
Dr.Giri Shankar	Behavioral Scientist	GS ventures.	27-08-2021
Ms. Parash Deori.	Director - Millennial Board	Adfactors PR	24-02-2022

Notable Placement

Name of the Organization/ Company	Designation Offered	No. of Students Placed	Academic Programme	Department/Centre
Indian Political Action Committee	Political Analyst	1	MA	Mass Communication & Journalism
Intellipaat	Inside sales Manager	2	MA	Mass Communication & Journalism
Source one management Service	HR Recruiter	1	MBA	Business Administration
Havells India Ltd.	Microbiologist	1	M.Sc	MBBT
Vitra.ai	Data Associate- Linguistic Expert	1	MA	Mass Communication & Journalism
Kuhipat communications and technology Pvt. Ltd	Digital marketing manager	2	MBA	Business Administration
Jubilant Foodwork Limited	HR Trainee	1	MBA	Business Administration
Jettwings Business School	Tourism Faculty	1	MTTM	Business Administration
Vivo	VBA service Executive	1	MBA	Business Administration
Piramal Foundation	Gandhi Fellow	2	MA	Social Work & Mass Communication & Journalism
Aaranyak	Project Officer- Trainee	2	MTTM	Business Administration
Accenture	Platform Advisory	13	MBA	Business

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	Associate			Administration
Asian Paints	Project Sales Officer	1	MBA	Business
				Administration
Azim Premji Foundation	Associate	1	MA	Linguistics
Bharti Airtel	Executive Trainee	1	MBA	Business
				Administration
Fin-Advisors	Junior Research Analyst	1	MBA	Business
				Administration
HDFC AMC	Sales/client service	1	M.Com	Commerce
Hindustan Unilever	Executive Trainee-	1	MBA	Business
	Customer Development			Administration
ITC Limited	Logistics Trainee-IA2/	4	MBA	Business
	Sales Trainee			Administration
Landmark Group	Management Trainee	3	MBA	Business
-	_			Administration
MRF	Territory Sales	2	MBA	Business
	Supervisor			Administration
Perfetti Van Melle	Sales DSE	1	MBA	Business
				Administration
SBI Life Insurance	Sales	5	MBA	Business
				Administration
SRVA Education	Assistant Manager	3	MBA	Business
	(Admission)			Administration
Teach for India	Fellow	1	M.Sc	Environmental
				Science/
				Sociology/Linguistics
UDAAN	Area lead Sales	3	MBA	Business
				Administration
Vodafone idea Limited	Management Trainee/	3	MBA	Business
	Territory Sales Manager			Administration
Edelweiss Wealth	Wealth Manager	1	MBA	Business
Management				Administration
TATA Consultancy	Management Trainee	3	MBA	Business
Services				Administration
Vivekananda Kendra	Teacher	5	Int.B.Sc	Chemistry/ Education
Vidyalayas			B.Ed/B.Ed	
Federal Bank	Junior Management	2	M.Com	Commerce
	Grade			
Accenture	Application	2	Int.M.Com/	Commerce
	Development Associate		M.com	
MSL Group	Intern/ Management	2	M.A	Mass Communication
	associate			& Journalism
Aurigene	Technical Trainees	4	Int M.Sc/	Chemical Science
Pharmaceutical Service			M.Sc	

Officers and Staff Members

Designation	Name	<email></email>	Date of holding the
		@tezu.ernet.in	current position
Professor in charge	Prof. Chandan Goswami	chand	28-03-2022
Training and Placement Officer	Deena Davy	deena	09-08-2012
Office Assistant	Sidhant Saikia	tnp	26-04-2021

REPORT OF THE DEAN, SCHOOL OF ENGINEERING

About the School

The School of Engineering (SoE) of Tezpur University was established in the year 2006 with the introduction of B.Tech. programmes in three disciplines. There are now nine Departments in the School of Engineering:

- CE (Civil Engineering)
- CSE (Computer Science and Engineering)
- ECE (Electronics and Communication Engineering)
- EE (Electrical Engineering)
- FET (Food Engineering and Technology)
- ME (Mechanical Engineering)
- Energy
- Design
- Applied Science

Six constituent Departments (CE, CSE, ECE, EE, FET and ME) of the school are offer B.Tech programmes, while the Departments of CSE, ECE, ME, FET, ENERGY and CE are offer Master of Technology programmes also. MCA programme is also offered by the CSE Department. Except the Departments of Electrical Engineering, Design and Applied Science, all other Departments offer PhD programmes also. This school strives to produce skilled professionals at UG, PG, and Doctoral levels. The Departments are actively pursuing externally funded research projects, and both faculty and students are engaged in developing innovative technologies.

The school has been proactive in strengthening the teaching and learning experiences of students to enhance the knowledge and employability of its graduates. The school has judiciously used the funds received from the AICTE-NEQIP grant in developing and augmenting classroom and laboratory facilities and enhancing faculty quality so that the overall learning process is able to keep pace with the changing global scenario of technical education.

Department	Academic Programmes Offered	Student Intake
Civil Engineering	B.Tech	68
	M.Tech	11
	PhD	Variable
Computer Science and Engineering	B.Tech	68
	M. Tech. (CSE)	18
	M. Tech. (IT)	18
	MCA	60
	PhD	Variable
Electronics and Communication	B.Tech	68
Engineering	M.Tech in Electronics Design & Technology	35
	M.Tech in Bioelectronics	19
	PhD	Variable
Electrical Engineering	B.Tech	38
	PhD	Variable
Food Engineering and Technology	B.Tech	56
	M.Tech	23

Departments and Academic Programmes Offered

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	PhD	Variable
Mechanical Engineering	B.Tech	68
	M.Tech	22
	PhD	Variable
Energy	M.Tech	35
	PhD	Variable
Design	M.Des (Master of Design)	10
Applied Science	Ph.D	Variable

Important Activities

During this reporting period, due to the COVID-19 pandemic, many significant works and activities could not been performed practically. Some important activities organized in the school are mentioned below:

- Total 07 students have enrolled for AICTE Doctoral Fellowship (ADF) of the academic year 2021-2022
- One Ph.D Scholar admitted under the QIP Scheme for the academic year 2021-2022.
- Total 218 students from the different streams of the School of Engineering 2021-22 batch have been recruited by 41 companies.
- Total 06 Workshops related to career counseling were organized by the Training & Placement Cell of SoE.
- Total 07 technical training session were organized by the Training & Placement Cell of SoE.

Designation	Name	Highest Qualification (Institute)	<email> @tezu.ernet.in</email>	Date of holding the current position
Sr. Technical Assistant	Jibon C. Das	Diploma (SCTE, Assam)	djibon	27-07-2012
DC	Uttam Roy	MA (Tezpur University)	uttamroy	11-07-2014
MTS	Durlav Mahanta		duma	20-05-2013

Officers and Staff Members

DEPARTMENT OF APPLIED SCIENCES

About the Department

The Department of Applied Sciences was established in 2019. It aims to provide high-quality teaching of basic science subjects to engineering students. The teachers are dedicated to provide individual attention to the students to develop a strong foundation for their respective future careers by nurturing their analytical abilities and critical thinking. The department provides well-equipped laboratory facilities to the students as a part of their curriculum. The department aspires to establish its name in research with world-class and high-impact outputs in the frontiers of applied sciences in interdisciplinary areas. Notably, the department possesses some highly motivated junior faculty members with research experience from various premier institutes in India and abroad. Their research interests encompass diverse areas of applied and fundamental sciences, spanning fields like astrophysics, condensed matter physics, materials chemistry, and pure and applied mathematics. The faculty members are currently focused on establishing their own research groups to pursue research on their respective thrust areas.

Academic Programmes and Student Intake

Academic Programme	Student Intake	
Ph.D.	Variable (admitted 06 in 2021-22)	

Thrust Research Areas of the Department/Centre

- Algebraic graph theory, operation research, harmonic analysis.
- Metal organic frameworks, porous organic polymers, polymer synthesis.
- High energy astrophysics, low-dimensional material physics.

Major Equipment available

- Immersion cooler.
- Frost free refrigerator.

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
Professor	Rajib Haloi	Ph. D. (IIT, Kanpur)	Differential Equations, Harmonic Analysis.	rhaloi	16-12-2021
Associate Professor	Dhrubajyoti Haloi	Ph. D. (IIT, Kharagpur)	Polymer Synthesis & Characterization, Chemical Modification of Polymer, Polymer Composite.	djhaloi	24-03-2022
	Bijoy Krishna Debnath	Ph. D. (NIT, Agartala)	Operations Research	bijoy91	26-11-2019
Assistant Professor	Somnath Paul	Ph. D. (Tezpur University)	Spectral Graph Theory	som	09-08-2021
	Saona Seth	Ph. D. (IIT, Kanpur)	Functional organic and metal-organic polymers, energetic	saonas	30-12-2019

[
			materials, Materials		
			for energy and		
			environmental		
			applications.		
		Ph. D.	Low-dimensional	pkgogoi	
		(National	Material Physics,		
		University of	Optical Spectroscopy,		
	Pranjal Kumar	Singapore)	Electron Energy Loss		06-01-2020
	Gogoi		Spectroscopy,		00 01 2020
			Scanning		
			Transmission Electron		
			Microscopy.		
		Ph. D.	Theoretical modeling	biplobs	
		(IIT, Guwahati)	of astrophysical flows,		
	Biplob Sarkar		study of X-ray		30-01-2020
	Dipioo Sarkar		binaries, X-ray data		30-01-2020
			analysis and		
			interpretation.		
	Subhadip	Ph. D.	Computational	subh.raychaudh	28-03-2022
	Raychaudhuri	(University of	Biology, Biophysics,	uri@gmail.com	
		Rochester)	Condensed Matter		
			Physics & Material		
			Science.		
	Arijit Patra	Ph. D.	Reliability Theory,	arijitpatramath	29-09-2021
		(Rajiv Gandhi	Stochastic Ordering	@gmail.com	
		Institute of	and Ageing.		
		petroleum			
		Technology,Uttar			
Guest		Pradesh)			
Faculty	Jutirekha	Ph. D.	Algebra and Graph	jutirekha	16-01-2021
	Dutta	(Tezpur	Theory		
		University)			
	Nand Kishor	Ph. D.	Atmospheric	nkgour1	01-10-2021
	Gour	(Deen Dayal	Chemistry &		
		Upadhyay	Catalysis.		
		Gorakhpur			
		University)			
	Rasna Devi	Ph. D.	Catalysis, Inorganic	rasna	01-10-2021
		(Tezpur	synthesis and		
		University)	application.		

Officers and Staff Members

Designation	Name	<email></email>	Date of holding the
		@tezu.ernet.in	current position
Technical Assistant (Contractual)	Janardan Boruah	jboruah	27-10-2021
Technical Assistant (Contractual)	Udeshna Sharma	udeshna	27-10-2021

Major Research and Development Findings

Faculty/	Salient Research Findings
Researcher	
Dr. Bijoy	Developed a fuzzy economic production quantity (FEPQ) inventory model of
Krishna Debnath	sustainable items with time and stock dependent demand under trade credit policy.

Dr. Saona Seth	Our research group has developed a number of porous organic and metal-organic polymers with tunable functionalities and porosity for applications in chemical separation, catalysis etc.
Dr. Biplob	We have investigated the results of an observation of low mass X-ray binary GX 3+1 with AstroSat's Large Area X-ray Proportional Counter (LAXPC) and Soft X-ray Telescope (SXT) instruments on-board for the first time. We provide a new estimation of the source distance, which is ~ 9.3 ± 0.4 kpc, calculated for an isotropic burst emission.
Sarkar	We have also investigated the broadband results from the study of a neutron star low-mass X-ray binary 4U 1608-52, which was observed for an exposure time of around 40 ks with AstroSat. Our timing analysis revealed a positive correlation of the fractional r.m.s power with energy bands of increasing energies and also we found significant evolution in the photon index with the X-ray flux.

Research Projects (both Ongoing and New)

Project Title	Funding Agency	Amount	Duration	Investigator(s)
		(in INR)		
Developing Polymers of Intrinsic	SERB-DST	26.5 lakhs	December,	Dr. Saona Seth
Microporosity (PIMs) as Solid			2020– ongoing	
Matrix for Potential Application in				
Separations of Hydrocarbons				
Molecular Level Engineering of	UGC	10 lakhs	August,	Dr. Saona Seth
Polymers of Intrinsic Microporosity			2020– ongoing	
to Modulate the Properties				
Investigation of the accretion flow	Department of	4.77 lakhs	November,	Dr. Biplob
properties of black hole binaries	Space, Government		2020– ongoing	Sarkar
with AstroSat	of India			
Spectrum of magnetized dissipative	UGC	8 lakhs	December,	Dr. Biplob
accretion flow around a rotating			2021– ongoing	Sarkar
black hole with thermal conduction				
and hydrodynamical winds				

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Pal, S., and Haloi, R. (2021). Existence and uniqueness of solutions to the damped Navier-Stokes equations with Navier boundary conditions for three-dimensional incompressible fluid, *Journal of Applied Mathematics and Computing*, 66 (1), 307-325.
- Debnath, B.K, Majumder, P., and Bera, U.K. (2021). A fuzzy economic production quantity model of sustainable items with time and stock dependent demand under trade credit policy. *International Journal of Operations research*, 41(1): 27-52.
- Paul, S. (2022). Distance Laplacian spectra of joined union of graphs. *Asian-European Journal of Mathematics*, 15 (2): 2250039.
- Das, B., Sarkar, B., and Nath, A. (2021). Looking At The High-energy X-ray Universe- An Overview. *Journal of the Maharaja Sayajirao University of Baroda*, 55(2):224-231.
- Yu, S. H., Gogoi, P. K., Rath, A., Dai, H., Cavin Ng, Z. Q., Suenaga, K., Pennycook, S. J. and Chua, D. H. C. (2021). In-situ Derived Highly Active NiS₂ and MoS₂ Nanosheets on NiMoO₄ Microcuboids via Controlled Surface Sulfidation for High-current-density Hydrogen Evolution Reaction, *Electrochimica Acta*, 389: 138733.
- Mondal, B. and Gogoi, P. K. (2022). Nanoscale hetero-structured materials based on metal oxides for chemiresistive gas sensor, *ACS Applied Electronic Materials*, 4(1):59-86.

Publication of Books

• Paul, S. (2021). *Combinatorics And Graph Theory- Notes & References*. Purbayon Publications, Guwahati, India, 1st edition.

Publication of Book Chapters

- Paul, S. (2022). A note on integral graphs, *Current Topics in Mathematics*, pages 260–266, ISBN:978-93-91064-75-4, Mahaveer Publications, Dibrugarh, Assam.
- Sarkar, B. (2022). An Effective Curriculum and Activity Based Teaching-learning in College Education, In Sahu, N., and Khare, P. S., editors, *Emerging Trends and Research in Educational Technology*, pages 137-145, ISBN:978-93-91002-99-2, ABS Books, Delhi-110086.

Name of Faculty/Staff Member	Purpose of Attending	Title of Event	Date/ Period	Organizer and Venue
Pranjal Kumar Gogoi	Co- Convenor (Organizer)	Workshop on Importance of Japanese Language for Indian Students	13-07-2021	Indian JSPS Alumni Association & Tezpur University (Online)
	Session Chairing	Emerging Trends in High Energy Astrophysics (ETHEAP)	16-03-2022	Department of Applied Sciences, Tezpur University in collaboration with Indian Association of Physics Teachers (IAPT) RC-17 as a part of Prof. D. P. Khandelwal Birth Centenary Celebrations (Online)
	Oral	National Conference on Current Perspectives of Environmental Science and Technology	01-03-2022	Department of Environmental Science, Tezpur University in association with inSCIgnis 2022, Tezpur University
Biplob Sarkar	Paper presentation	National Conference on Emerging Trends in Physics (NCETP 2021)	16-06-2021	Department of Physics, Tezpur University, Assam, India (Online)
	Paper presentation	National Conference on "Emerging Trends in Physical Sciences (ETPS- 2021)"	27-09-2021 to 01-10- 2021	Department of Physics, ICFAI Science School, The ICFAI University Tripura (Online)
	Paper presentation	National Conference on "Advanced Materials, Technology, Applications Education" [AMTAE- 2021]	16-10- 2021	Department Of Physics, Hon. Balasaheb Jadhav Arts, Commerce & Science College, Ale, Pune (Online)
	Paper presentation	27th International Conference of International Academy of Physical Sciences on Advances in Relativity and Cosmology	26-10-2021 to 28-10- 2021	Department of Mathematics, Birla Institute of Technology and Science Pilani, Hyderabad Campus, Hyderabad, India (Online)
	Paper presentation	North-East Meet Of Astronomers-VII	27-01- 2022 to 29-01-	Department Of Physics, Rajiv Gandhi University, Rono Hills, Arunachal Pradesh in

Conference/Workshop/Symposium/Seminar etc. Attended

			2022	Association with Inter
			2022	University Centre for
				Astronomy and Astrophysics
				(IUCAA), Pune (Online)
	Paper	21st National Space	31-01-2022	IISER Kolkata, India (Online)
	presentation	Science Symposium	to 04-02-	HSER KOIKata, India (Onnie)
	presentation	Science Symposium	2022	
	Paper	One Day National	01-03-2022	Department of Physics in
	presentation	Symposium on the	01 05 2022	association with inSClgnis '22,
	presentation	occasion of National		Tezpur University, Assam, India
		Science Day		(Offline)
	Convener	Emerging Trends in High	16-03-2022	Department of
		Energy		Applied Sciences, Tezpur
		Astrophysics		University in collaboration with
		(ETHEAP)		Indian
				Association of Physics Teachers
				(IAPT) RC-17 as a part of Prof.
				D. P. Khandelwal Birth
				Centenary Celebrations
				(Online)
Somnath Paul	Paper	36th Annual Conference	05-08-2021	Department of Mathematics,
	presentation	of Ramanujan	to 07-08-	Amrita Vishwa Vidyapeetham,
		Mathematical Society	2021	Coimbatore, India
	Paper	Weekly seminar on	16-07-2021	Department of Mathematics, IIT
	presentation	"Graphs, Matrices and		Kharagpur, Kharagpur, West
		Applications"		Bengal.
	Paper	International Conference	14-03-2022	Department of Mathematics,
	presentation	on Algebra and Discrete	to 15-03-	Fatima Mata National College
		Mathematics, ICADM-	2022	(Autonomous), Kollam, Kerala,
		2022		India.
	Paper	International Conference	02-03-2022	Department of Mathematics,
	presentation	on Mathematical	to 04-03-	The Gandhigram Rural Institute
		Modelling, Applied	2022	(Deemed to be University),
		Analysis and		Gandhigram, Tamil Nadu, India
		Computational		
		Intelligence		
		(ICMMAACI-2022)		

Invited Talk

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue
Rajib haloi	Brief introduction to functional differential equations	Departmental seminar	22-03-2022	Dept. of Mathematics, Tihu college, Assam.
Pranjal Kumar Gogoi	Watching and Understanding the Atomic World Using Electrons	Orientation Program for B.Tech. Students (2021)	27-10-2021	Girijananda Chowdhury Institute of Management and Technology, Guwahati (Lecture was delivered online)
Somnath Paul	Integral Graphs- History & Recent developments	Departmental seminar	01-03-2022	Division of Mathematics, School of Advanced Sciences, Vellore Institute

				of Technology, Chennai, Tamil Nadu
	Graph Theory - Introduction and Applications	Departmental seminar	04-03-2022	Association of Mathematics, Shift-II, Sacred Heart College (Autonomous), Thirupatur, Tamil Nadu.
Saona	Towards	1st International	29-07-2021	School of Chemical
Seth	Development of	Conference on	to 30-07-	Sciences, NISER
	Tailored Energetic	Emerging Porous	2021	Bhubaneswar in association
	Materials Utilizing	Materials		with VIT Vellore and IIT
	the Chemistry of			Jammu
	Coordination			
	Polymers			
Bijoy K.	Magic of Geometry	Popular talk	28-12-2021	Tripura Mathematical
Debnath	in Algebra			Association (TMA),
				Agartala, Tripura.

Awards/Honours/Notable Achievements

	Designation of Awardee	Achievement	Event/Awarded by
Biplob	Faculty	Received Life Membership	Astronomical Society of India, Regd. Office:
Sarkar	member	of the Astronomical Society	Department of Astronomy, Osmania
		of India	University, Hyderabad-500 007, India

Other Significant Activities of the Department

- 1-day Online Conference on Emerging Trends in High Energy Astrophysics (ETHEAP) organized by The Department of Applied Sciences, Tezpur University in collaboration with Indian Association of Physics Teachers (RC -17) As a part of Prof. D.P. Khandelwal Birth Centenary Celebrations on March 16th, 2022.
- Two days international conference on "Emerging trends in pure and applied Mathematics" organized by Department of Applied Sciences in association with Department of Mathematical Sciences held during March 12-13, 2022, in blended mode.

DEPARTMENT OF CIVIL ENGINEERING

About the Department

The department of Civil Engineering of Tezpur University was established in 2009 under the School of Engineering to offer B. Tech. Degree. A Ph.D. Programme was started in the spring of, 2011, and the M. Tech. Programme of the department was started in Autumn 2018. The Department aims to provide quality education, research and professional experiences that enable its graduates to become leaders in their professional careers, pursue excellence in research, serve the profession, community and nation, and compete internationally.

Academic Programmes and Student Intake

Academic Programme	Student Intake
B.Tech	68
M.Tech	11
Ph.D.	Variable

Thrust Research Areas of the Department

Development of methods/ techniques which are easily acceptable and adaptable to communities at an affordable cost especially for the people living in rural and semi-urban areas of Northeastern Region of India in terms of

- Safe drinking water, sanitation
- Roads, soil stabilization
- Landslide mitigation, riverbank protection

Major Facilities/Equipment available

The Department has the following Laboratory facilities

- Computational Laboratory
 - MatLab and Simulink R2011b
 - Civil FEM for Ansys,
 - version 12.1 Plaxis 2D
 - ETABS Version 9
 - AutoCAD
 - SAP 2000, v-20
- Core Departmental Laboratories
 - Geotechnical Engg. Laboratory-I
 - Consolidation Apparatus
 - Triaxial Apparatus
 - Pore Pressure Apparatus
 - Laboratory Vane Shear Apparatus
 - In-Situ Vane Shear Apparatus
 - Swell Test Apparatus
 - Electronic Balance
 - Laboratory Permeability Apparatus
 - Relative Density Apparatus
 - Drying Oven
 - Shrinkage Limit Testing Apparatus

- Moisture Meter
- Consolidation Apparatus (with three gang)
- Motorized Sieve Shaker
- Standard Penetration Test Set up
- Environmental Engg. Laboratory -I
 - pH Meter
 - Conductivity Meter
 - Turbidity Meter
 - Spectrophotometer
 - Flame Photometer
 - Jar Test Apparatus
 - COD Reactor
 - BOD Incubator
 - Magnetic Stirrer with Hot Plate
 - Drying Oven
 - High Sensitivity Balance
 - Refrigerator
 - Muffle Furnace
- Water Resources Laboratory
 - Hydraulics Bench
 - Cavitation Apparatus
 - Laminar Flow Table
 - Darcy's Law Apparatus
 - Reynolds's Apparatus
 - Orifice & Mouthpiece
- Structural Engg. & NDT Laboratory
 - Compression Testing Machine
 - Sieve Shaker
 - Vicat Apparatus
 - Compaction Factor Apparatus
 - Desiccators
 - Slump Test Apparatus
 - Le Chatelier Apparatus
 - Specific Gravity Bottle
- Transportation Engg. Laboratory
 - CBR Machine
 - Ring & Ball Apparatus
 - Aggregate Crushing Value Apparatus
 - Hot Plate
 - Ductility Testing Machine
 - Los Angeles Abrasion Testing Machine
 - Impact Testing Machine

- Surveying Laboratory:
 - Total Station
 - Electronic Theodolite
 - Vernier Theodolite
 - Autolevel
 - Digital Planimeter
 - Plane Table and accessories
 - Prismatic compass
 - Measuring chain
 - Measuring Tape
 - Ranging rod
 - Cross staff
- Geotechnical Engg. Laboratory-II
 - Direct Shear Apparatus
 - Unconfined Compression Apparatus
- Environmental Engg. Laboratory-II
 - Atomic Absorption Spectrophotometer
 - UV-Visible Spectrophotometer

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
Professor	Utpal Kumar Das	Ph.D. (Gauhati University)	Geotechnical Engineering	ukrdas	26-08-2015
Associate Professor	Kamal Uddin Ahamad	Ph.D. (IIT Guwahati)	Environmental Engineering	kahamad	18-11-2019
	Ankurjyoti Saikia	Ph.D. (Tezpur University)	Geotechnical Engineering	asaikia	01-10-2009
	Binanda Khungur Narzary	Ph.D. (Tezpur University)	Transportation Engineering	binanda	10-08-2012
	Debaraj Bailung Sonowal	M.Tech (IIT Roorkee)	Structural Engineering	bailing	16-08-2012
	Shailen Deka	Ph.D. (IIT Guwahati)	Geotechnical Engineering	deka.s	03-09-2012
Assistant Professor	Jayanta Deori Bharali	M.Tech (IIT Guwahati)	Transportation Engineering	jdb	25-08-2014
	Rituraj Buragohain	M.Tech (IIT Guwahati)	Water Resources Engineering	rbgn	16-01-2017
	Karabi Bharadwaj	M.Tech (NIT Silchar)	Structural Engineering	karabi	03-04-2017
	Arunav Chakraborty	Ph.D. (Gauhati University)	Geotechnical Engineering	aru243	18-11-2019
		Ph.D (IIT Kanpur)	Hydraulics and water resources engineering	hmedhi	29-11-2021

Guest Faculty	Moumita Goswami	M.Tech (Tezpur University)	l (t eotechnical	moumitagoswa mi65@gmail.co m	11-02-2022
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Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the
			current position
Technical Officer	Chirajyoti Doley	chirajd	22-08-2012
	Iseng Thawmung	iseng	01-10-2010
Technical Assistant	Puspajyoti Kalita	pjk	11-07-2011
	Jahnu Baruah	jahnu	22-08-2011
Lower Division Clerk	Parama Nanda Chauhan	chauhan	01-06-1995
Multi Tasking Staff	Dipak Deka	dipak2	31-12-1995

Major Research and Development Findings

Faculty/	Salient Research Findings				
Researcher					
Dr. Kamal Uddin Ahamad	 Estimation of Equivalent Modulus of Fine-Grained Subgrade Soil from Numerical Model. Dual Mode Smartphone Based Sensing for Accurate Estimation of Sulphate and Chloride in Water. Prediction of Lake Eutrophication using ANN and ANFIS by artificial simulation of Lake Ecosystem. Lake Eutrophication: Causes, Concerns and Remedial Measures. 				
Dr. Binanda Khungur Narzary	 Estimation of Equivalent Modulus of Fine-Grained Subgrade Soil from Numerical Model. Prediction of Lake Eutrophication using ANN and ANFIS by artificial simulation of Lake Ecosystem. 				
Dr. Utpal Kumar Das	 Response of Square Footing on Geocell-Reinforced Sand Bed Under Static and Repeated Loads. Load-Settlement Behaviour of Geotextile-Based Geocell Reinforced Sand Bed. 				
Ms. Karabi Bharadwaj	 Parametric Study on the Variation of Time Period of RC MRF Buildings. Comparative Study on Static and Dynamic Analysis of RC Buildings of Different Heights in Different Seismic Zones. 				
Dr. Arunav Chakraborty	 Prediction of California Bearing Ratio (CBR) from Index Properties of Fine-Grained Soil. The Application of Statistics and Fuzzy Logic in Predicting Slope Stability. 				
Dr. Hemanta Medhi	• A Methodological Comparison on Spatiotemporal Prediction of Criteria Air Pollutants.				

Research Projects (both Ongoing and New)

Project Title	Funding	Amount	Duration	Investigator(s)
	Agency	(in INR)		
Development of plastiminous	AICTE under	18,40,000	3 years	Dr. Binanda K.
concrete from waste plastic for road	RPS-NER		-	Narzary and Dr.
construction in Northeast India	Scheme			Kamal Uddin Ahamad
Response of Geocell Reinforced	AICTE-Major	20,75,000	3 years	Prof. Utpal Kumar Das
Soil Foundation under Static and	Research		-	_
Cyclic Loading	Project			
	-			

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Narzary, B. K. and Ahamad K. U. (2021). Estimation of Equivalent Modulus of Fine-Grained Subgrade Soil from Numerical Model. *Journal of Transportation Engineering, Part B: Pavement*. https://doi.org/10.1061/JPEODX.0000246.
- Hatiboruah, D., Talukdar, B., Ahamad, K.U., and Nath, P. (2021). Dual Mode Smartphone Based Sensing for Accurate Estimation of Sulphate and Chloride in Water. *IEEE Sensors Journal*. https://doi.org/10.1109/JSEN.2021.3088502.
- Bhagowati, B., Talukdar, B., Narzary, B.K., and Ahamad, K.U. (2022). Prediction of Lake Eutrophication using ANN and ANFIS by artificial simulation of Lake Ecosystem. *Modeling Earth Systems and Environment*. https://doi.org/10.1007/s40808-022-01377-8
- Singh, P., Vaishya, R.C., Soni, P. and Medhi, H. (2022). A Methodological Comparison on Spatiotemporal Prediction of Criteria Air Pollutants. *Asian Journal of Atmospheric Environment*. https://doi.org/10.5572/ajae.2021.087
- Chakraborty, A. and Goswami, A. (2021). Prediction of California Bearing Ratio (CBR) from Index Properties of Fine-Grained Soil. *Geotechnical Engineering Journal*. 52(4), pp. 57-64.
- Doley, C., Das, U.K., and Shukla, S. (2021). Response of Square Footing on Geocell-Reinforced Sand Bed Under Static and Repeated Loads. *International Journal of Geosynthetics and Ground Engineering*. https://doi.org/10.1007/s40891-021-00336-0
- Doley, C., Das, U.K., and Shukla, S. (2022). Load-Settlement Behaviour of Geotextile-Based Geocell Reinforced Sand Bed. *Geotechnical Engineering Journal*. 53(1), pp. 11-17.

Publication of Book Chapters

- Bhagowati, B., Talukdar, B., and Ahamad K. U. (2021). Lake Eutrophication: Causes, Concerns and Remedial Measures. In *Emerging Issues in the Water Environment during Anthropocene*, pages 211–222, Springer.
- Saharia, R., Bhuyan, D., Chowdhury, S., Bharadwaj, K. (2022). Comparative Study on Static and Dynamic Analysis of RC Buildings of Different Heights in Different Seismic Zones. In *Recent Advances in Earthquake Engineering*. Springer.
- Sarma, S., Sundar Das, T., Bora, A., Bharadwaj, K. (2022). Parametric Study on the Variation of Time Period of RC MRF Buildings. In *Recent Advances in Earthquake Engineering*. Springer.
- Chakraborty, A., and Goswami, A. (2022). The Application of Statistics and Fuzzy Logic in Predicting Slope Stability. In *Recent Advances in Civil Engineering*, pages 137–147, Springer.

Name of	Purpose of	Title of Event	Date/Period	Organizer and Venue
Faculty/ Staff Member	Attending			(Online/Offline)
Dr. Arunav Chakraborty	Paper- presentation	Sustainable Construction Technologies and Advancements in Civil Engineering, ScTACE 2021	14-10-2021 to 16-10-2021	Department Of Civil Engineering, Shri Vishnu Engineering College For Women (Online)
Mr. Debaraj Bailung Sonowal	Participation	Feasibility of stone dust as a construction material for affordable housing	22-05-2022 to 22-05-2022	IIT Guwahati (Offline)

Conference/Workshop/Symposium/Seminar etc. Attended

Invited Talk			1	
Name of	Title of the Talk	Title of the Event	Date	Organizer and Venue
Faculty				
Member				
Dr. Arunav	Soil Testing and	"One-day Regional	13-09-2021	Government of Assam
Chakraborty	Foundation designing	Training on Pipeline		Office of The Executive
		Material and its types		Engineer (PHE): Tezpur
		with special focus on		Division No. I: Tezpur
		HDPE-reg"		(Online)
	Soil Exploration and	One Day National Level	22-03-2022	Department of Civil
	In-Situ Testing	Technical Webinar		Engineering, St. Joseph
				University, Nagaland
Dr. Hemanta	Estimation of flood	Drought and Flood	18-04-2022	Department of Civil
Medhi	quantile incorporating	Analysis and their		Engineering, MNNIT
	stream network	Management (DAM-		Allahabad
	connection information	2022)		& National Institute of
				Disaster Management,
				Govt. of India, New
				Delhi
				Venue: MNNIT
				Allahabad (Online)
	Flood Estimation and	Disaster Management	07-03-2022	National Institute of
	Protection Techniques	and Sustainable		Technical Teachers
		Development		Training & Research,
				Chandigarh (Online)
Mr. Debaraj	Earthquake resistant	Seminar on Work	15-12-2021	Military station, Tezpur
Bailung	design and construction	Management and Re		
Sonowal		Invigorating the PMGs		
Dr. Shailen	Cost Benefit Analysis	Seminar on Work	15-12-2021	Military station, Tezpur
Deka	& Re-invirogating the	Management and Re		
	aspect of Project	Invigorating the PMGs		
	Management			

Awards/Honours/Notable Achievements

Name of	Designation of Awardee	Achievement	Event/Awarded by
Awardee			
Dr. Arunav	Faculty Member	Best paper	Sustainable Construction Technologies
Chakraborty		award	and Advancements in Civil Engineering,
			ScTACE 2021. Awarded by Department
			of Civil Engineering, Shri Vishnu
			Engineering College For Women.

Other Significant Activities of the Department

- Poster presentation competition on "Good Academic Research Practices" for B. Tech, M. Tech and Ph.D. on 30-11-2021.
- One-Day Poster Presentation Event on Recent Trends in Civil Engineering for B. Tech, M. Tech on 23-05-2022.
- 3-Day Student Workshop on Surveying and Designing of Road & Dept. of Civil Engineering for B. Tech from 09-03-2022 to 11-03-2022.

Invited Talk

• 3-Day Skill development programme on Field Surveying Techniques for B. Tech from 06-12-2021 to 08-12-2021.

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
GATE	17	B. Tech

Notable Placement of Students

Name of Student	Academic	Placement	Company/	Mode of
	Programme	Designation	Organization	Selection
Sahanur Islam	B. Tech	Technical officer	Jal Jeevan	Off-Campus
Prerana Sarmah	B. Tech	Technical officer	Jal Jeevan	Off-Campus
Ansuman Kakati	B. Tech	Technical officer	Jal Jeevan	Off-Campus
Angshuman Nath	B. Tech	Technical officer	Jal Jeevan	Off-Campus
Ankita Bora	B. Tech	Technical officer	Jal Jeevan	Off-Campus
Rajdeep Saharia	B. Tech	Technical officer	Jal Jeevan	Off-Campus
Tuhinangshu Bhuyan	B. Tech	Technical officer	Jal Jeevan	Off-Campus
Abhisekh Barah	B. Tech	Programmer Analyst	Cognizant	On-Campus
Shraddha Sinha	B. Tech		KEC International Ltd	On-Campus
Sneha Talukdar	B. Tech		KEC International Ltd	On-Campus
Kumkum Bhuyan	B. Tech		KEC International Ltd	On-Campus
Dheeraj Malviya	B. Tech	Project Engineer	Wipro	On-Campus
Atul Mehta	B. Tech	Programmer Analyst	Cognizant	On-Campus
Vepuri Shalom Christie	B. Tech	Management trainee	Saint-Gobain	On-Campus
Animesh Anand	B. Tech	Project Engineer	Wipro	On-Campus

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic Programme (in TU)	Name of other Institute	Enrolled Academic Programme
Tridib Sundar Das	B. Tech	NIT Silchar	M. Tech
Rajibul Awal	B. Tech	Zamia Millia Islamia	M. Tech
Shemin A. Majumder	B. Tech	NIT Silchar	M. Tech
Abhisekh Barah	B. Tech	IIM Amritsar	MBA (in Business Analytics)
Vinay Panwar	B. Tech	NITK Surathkal	M. Tech
Parishmita K. Deori	B. Tech	NIT Silchar	M. Tech

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

About the Department

The vision of the Department is to be a dedicated centre of learning and research in computer science and engineering. It is committed to creating competent professionals capable of taking leading roles in industry, academia, and application areas of the field. A High-Performance Computing Centre was established in the Department in June 2015 to provide high-end computing facilities to scientific researchers from the North-East region. The Department has been recently recognized as a Centre of Excellence in Machine Learning and Big Data Analytics by MHRD, Government of India, under FAST. The Department is also recognized by UGC under Special Assistance Programme (SAP DRS Phase II). During 2005-2009 and 2018-2023 the Department received support from the Department of Science and Technology (DST), Govt. of India, under its FIST- Programme. The Department has also been recognized as an ISEA member, MeitY, GoI and BRICS-NU Member. The B. Tech. Programme of the Department of Computer Science & Engineering is accredited by the National Board of Accreditation (NBA).

Academic Programmes and Student Intake

Academic Programme	Student Intake
M.Tech (IT)	28
M Tech (CSE)	18
MCA	45
B Tech	60
Ph.D	Variable (admitted 12 in 2021-22)

Thrust Research Areas of the Department

- Computer and Network Security
- Biomimetic & Cognitive Robotics
- Bioinformatics
- Machine learning and Soft computing
- Big Data Analytics
- Mobile and Wireless Networking
- Image Processing & Pattern Recognition
- Information Retrieval Systems
- Natural Language Processing
- Speech Processing
- Workflow analysis
- Computer Vision
- Algorithms and Optimization Techniques
- Software Defined Networking and Cloud Computing
- Cognitive Radio Networks
- 5G and B5G

Major Facilities/Equipment available

- High Performance Computing Center (Supercomputer "Param Shavak")
- Cluster Computing Facility with Storage
- Interactive Smart classroom
- Embedded System Trainer Lab (8085 & Arm) Processor Based (2 Nos)

- Benchmark Lan Trainer/I-Security
- IBM X3550 M3 Server
- AR / VR (Augmented Reality and Virtual Reality) Equipment
- USRP Device with different antennas
- IoT Equipments with Sensors

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
Professor	Dilip Kumar	PhD (IIT	Mobile Computing,	dks	18-03-1997
	Saikia	Kharagpur)	Computer Networks		
	Dhruba Kumar	PhD (Tezpur	Machine Learning,	dkb	14-06-2006
	Bhattacharyya	University)	Network Security and Bioinformatics		
	Smriti Kumar	PhD (Tezpur	Workflow Automation,	smriti	13-09-2007
	Sinha	University)	Semi-structured Databases		
	Utpal Sharma	PhD (Tezpur	Natural Language	utpal	16-12-2013
		University)	Processing		
	Nityananda	PhD (IIT	Mobile Networks,	nitya	09-03-2013
	Sarma	Guwahati)	Networks Security		
	Bhogeswar	PhD (Tezpur	Data Mining, Image	bgb	
	Borah	University)	Processing		
	Sarat Saharia	PhD (Tezpur University)	Image processing, Pattern Recognition	sarat	31-08-2016
	Bhabesh Nath	PhD (Tezpur University)	Data Mining, Artificial Neural Network	bnath	20-10-2020
Associate Professor	Siddhartha Sankar Satapathy	PhD (Tezpur University)	Networking, Bioinformatics	ssankar	26-08-2014
	Sajib Kumar Deka	PhD (Tezpur University)	Computer Networks, Cognitive Radio Networks	skdeka	18-0902019
	Debojit Boro	PhD (Tezpur University)	Mobile Computing	deb0001	18-11-2019
Assistant Professor	Rosy Sarmah	PhD (Tezpur University)	Data Mining	rosy8	24-08-2021
5	S Ibotombi Singh	PhD (Tezpur University)	Data Mining	sis	01-08-2004
	L Basantakumar Singh	M. Tech (Tezpur)	Pattern Recognition	lbsingh	15-01-2009
	Arindam Karmakar	PhD (ISI, Kolkata)	Computational geometry	arindam	10-08-2011
	Sanghamitra Nath	PhD (Tezpur University)	Natural Language Processing, Data Mining	snath	09-09-2011
	Swarnajyoti Patra	PhD (Jadavpur University)	Pattern Recognition, Evolutionary Computing, Neural Networks	swpatra	19-03-2013

	Shobhanjana	PhD (Tezpur	Knowledge	kalitas	06-01-2017
	Kalita	University)	Representation &		
			Reasoning		
	Nabajyoti Medhi	PhD (NIT	Knowledge	nmedhi	16-05-2017
		Meghalaya)	Representation &		
			Reasoning		
Guest	Monisha Devi	M. Tech	Cognitive Radio	magna	17.01.2020
Faculty		(Tezpur University)	Networks		
	Ramcharan	PhD (Tezpur	Network Security	rambaishyafromho wly@gmail.com	03-09-2020
	Baishya	University)			
	Md. Faiz lqbal	PhD		faiziqbalfaiz066	24-09-2021
	Faiz	(NERIST)		@gmail.com	
	Habila	PhD (NIT		habilabasumatar	24-09-2021
	Basumatary	Agartala)		y6@email.com	
Adjunct	Jugal Kumar	PhD	Artificial Intelligence,	jkalita@uccs.edu	20-02-2019
Faculty	Kalita	(University of	Bioinformatics,		
		Pennsylvania,	Information Retrieval,		
		USA)	Computer Security		
	Bhabani P Sinha	PhD	Microprogramming,	bhabani@isical.a	20-02-2019
		(University of	Computer Arithmetic,	c.in	
		Calcutta)	Fault Diagnosis, Graph		
			Algorithms, Parallel		
			Architectures and		
			Algorithms, Wireless		
			Networks & Mobile		
			Computing		

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the current position
System Analyst	Dr. Pranabjyoti Dutta	pjd	01-02-1996
	Dr. Rajib Goswami	rgos	20-03-1997
	Dr. Debasish Das	ddas	06-06-1997
Technical Officer	Gautam Kumar Das	gautamd	05-08-2011
Technical Assistant	Ajay Kumar Sharma	ajay	27-09-2004
Laboratory Assistant	Arun Chetri	arunch	12-12-2007
	Arup Kumar Sarkar	arupks	07-09-2018
Assistant	Pranati Boro	pranati	27-09-1996
MTS	Golap Baruah	golapb	01-06-1995

Major Research and Development Findings

Faculty/ Researcher	Salient Research Findings
	1. Segmented Gall Bladder CT images using rough entropy thresholding with
	contours,
	2. Lung CT image segmentation of Covid patients and Identified Gallstones
Rosy Sarmah	and segmented gallbladder from Gall Bladder CT and USG images using
	Rough Density based Segmentation,
	3. Devised a denoising method for CT images,
	4. A Novel triclustering algorithm (PoPTric) for GST transcriptomic data,

	5. Rank-preserving biclustering algorithm: a case study on miRNA breast
	cancer
	Large scale inslico polymerphism analysis in tRNA genes revealed the role of
Siddhartha Sankar	the secondary structure of tRNA molecule is what drives the different
Satapathy	substitutions in its gene sequence. This finding is published in the journal of
	molecular evolution.

Research Projects (both Ongoing and New)

Project Title	Funding	Amount	Duration	Investigator(s)
	Agency	(in INR)		
Development of Secured and Reliable Spectrum Allocation Schemes for Next-generation Elastic Optical Networks	MeitY, Govt. of India	86,31,624.00	2021 - 2024	Prof. N. Sarma Co-Investigator - Dr. S. K. Deka
Developments of semantic- aware structure preserving image filtering techniques	SERB	38,87,664.00	2021 - 2024	Dr. S Patra
Randiomics with Machine Learning Methods towards Prediction of Gall Bladder Cancer.	Indian Council of Medical Research (ICMR)	18,07,448.00	2020 - 2022	Dr. R. Sarmah Co Investigator - Dr. D. Boro
Ensuring QoS in Internet of Medical Things {IoMT) using Software-Defined Networking (SDN)	Tezpur University & MEITY	36,39,433.00	2020 - 2022	Dr. N. Medhi Co-Investigators - Prof. D.K. Saikia, Dr. S.K. Deka
Methods for the automatic generation of attribute profiles from hyperspectral data.	AICTE	17,10,000.00	2019-2022	Dr. S Patra
DST-FIST	DST, Govt of India	44,00,000.00	2018-2023	Prof. N. Sarma Co-Investigators - Dr. S. Saharia, Dr. S. K. Deka, Dr. S. S. Satapathy, Prof. U. Sharma

Publications by Faculty and Staff Members Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Ahmed, S. A., and Nath, B. (2021). ISSP-tree: an improved fast algorithm for constructing a complete prefix tree using single database scan. *Expert Systems with Applications*, 185:115603.
- Ahmed, S. A., and Nath, B. (2021). Identification of adverse disease agents and risk analysis using frequent pattern mining. *Information Sciences*, 576:609-641.
- Borah, A., and Nath, B. (2021). An Efficient Method for Mining Rare Association Rules: A Case Study on Air Pollution. *International Journal on Artificial Intelligence Tools*, 30(4):2150018.
- Borgohain, U., Borkotokey, S., and Deka, S.K. (2021). A Coalition Formation Game for Cooperative Spectrum Sensing in Cognitive Radio Network under the Constraint of Overhead. *International Journal of Communication Networks and Information Security*, 13(3):431-438.
- Chauhan, P., Deka, S.K., Chatterjee, B.C., and Sarma, N. (2021). Utility driven cooperative spectrum sensing scheduling for heterogeneous multi-channel cognitive radio networks. *Telecommunication Systems*, 78(1):25-37.

- Chowdhury, H.A., Barah, P., Bhattacharyya, D.K., and Kalita, J.K. Identification of potential Parkinson's disease biomarkers using computational biology approaches. *Network Modelling Analysis in Health Informatics and Bioinformatics*, 10(1):1-16.
- Chowdhury, H.A., Bhattacharyya, D.K., and Kalita, J.K. (2021). UIFDBC: Effective densitybased clustering to find clusters of arbitrary shapes without user input. *Expert Systems with Applications*, 186. DOI: https://doi.org/10.1016/j.eswa.2021.115746.
- Chowdhury, H.A., Bhattacharyya, D.K., and Kalita, J.K. (2021). UICPC: Centrality-based clustering for scRNA-seq data analysis without user input. *Computers in Biology and Medicine*, 137:104820.
- Devi, M., Sarma, N., and Deka, S.K. (2021). A centralized model enabling channel reuse for spectrum allocation in cognitive radio networks. *Cybernetics and Information Technologies*, 21(2):183-200.
- Devi, M., Sarma, N., and Deka, S.K. (2021). A Double Auction Framework for Multi-Channel Multi-Winner Heterogeneous Spectrum Allocation in Cognitive Radio Networks. *IEEE Access*, 9: 72239-72258.
- Devi, M., Sarma, N., and Deka, S.K. (2021). Multi-Winner Spectrum Allocation in Cognitive Radio Networks: A Single-Sided Auction Theoretic Modelling Approach with Sequential Bidding. *Electronics*, 10(5):602.
- Devi, N., and Borah, B. (2021). A novel mutual information-based feature selection approach for efficient transfer learning in aerial scene classification. *International Journal of Remote Sensing*, 42(1):1-15.
- Hadem, P., Saikia, D.K., and Moulik. S. (2021). An SDN-based intrusion detection system using SVM with selective logging for IP traceback. *Computer Networks*, 191:108015. DOI: https://doi.org/10.1016/j.comnet.2021.108015.
- Hadem, P., Saikia, D.K., and Moulik.S. (2021). I-SMITE: an IP traceback mechanism for inter-AS SDN networks using BGP. *International Journal of Security and Networks*, 16(3):163-173.
- Hijam, D., and Saharia, S. (2022). On developing complete character set meitei mayek handwritten character database. *The Visual Computer*, 38(2):525-539.
- Hussain, M., Ahmed, N, Ahmed, M., Iqubal, Z., and Sarma, N. (2022). QoS Provisioning in Wireless Mesh Networks: A Survey. *Wireless Personal Communications*, 122(1):157–195.
- Kharkongor, C., and Nath, B. (2021). Itemset representation and mining the rules for huntington's dataset. *Emerging Science Journal*, 5(3):380-391.
- Mandal, K., Sarmah, R., Bhattacharyya, D. K., Kalita, J. K. and Borah, B. (2021). Rankpreserving biclustering algorithm: a case study on miRNA breast cancer. *Medical & Biological Engineering & Computing*, 59(4):989-1004.
- Mohanta, M.P., Behera, D., Das, D., Mishra, P.K., Satapathy, S.S., Patnaik, L., Badapanda, S., and Prakash, G. (2021). Is Immunomodulatory Property of Hydroxychloroquine Beneficial for Severe COVID-19? A Hospital Based Retrospective Observational Study. *Advances in Bioscience and Clinical Medicine*, 9(2):27-30.
- Patowary, P., and Bhattacharyya, D. K. (2021). PD_BiBIM: Biclustering-based biomarker identification in ESCC microarray data. *Journal of Biosciences*, 46(3):1-18.
- Patowary, P., Bhattacharyya, D.K., and Barah, P. (2022). SNMRS: An advanced measure for Coexpression network analysis. *Computers in Biology and Medicine*, 143. DOI: https://doi.org/10.1016/j.compbiomed.2022.105222
- Rahman, N., and Borah, B. (2021). An unsupervised method for word sense disambiguation. *Journal of King Saud University-Computer and Information Sciences*, 6. DOI: https://doi.org/10.1016/j.jksuci.2021.07.022.

- Roy, A., and Sarma, N. (2021). A synchronous duty-cycled reservation-based MAC protocol for underwater wireless sensor networks. *Digital Communications and Networks*, 7(3): 385-398.
- Roychoudhury, P., Roychoudhury, B., and Saikia, D. K. A secure Device-to-Device communication scheme for massive Machine Type Communication. *Computers & Security*, 108. DOI: https://doi.org/10.1016/j.cose.2021.102370.
- Roy, N., Kshattry, M., Mandal, S., Jolly, M.K., Bhattacharyya, D.K., and Barah, P. An integrative systems biology approach identifies molecular signatures associated with gallbladder cancer pathogenesis. *Journal of clinical medicine*, 10(16):3520.
- Sarmah, T., and Bhattacharyya, D.K. A study of tools for differential co-expression analysis for RNA-Seq data. *Informatics in Medicine Unlocked*, 26:100740.
- Sen, P., Aziz, R., Deka, R.C., Feil, E.J., Ray, S.K., and Satapathy, S.S. (2021). Stem region of tRNA genes favors transition substitution towards keto bases in bacteria. *Journal of Molecular Evolution*, 90(1):114-123.

Publication of Books

• Barah, P., Bhattacharyya, D. K., and Kalita, J. K. (2021). *Gene Expression Data Analysis: A Statistical and Machine Learning Perspective*. Chapman and Hall/CRC, New York, 1st edition. eBook ISBN: 9780429322655.

Publication of Book Chapters

- Basumatary, N., Nath, B., and Sarma, N. (2021). A Proposal for Predicting Missing Values in a Spectrum Dataset Using Supervised Learning. In Maji, A.K., Saha, G., Das, S., Basu, S., Tavares, J.M.R.S., editors, *Proceedings of the International Conference on Computing and Communication Systems. Lecture Notes in Networks and Systems*, volume 170, ISBN: 978-981-33-4083-1. Springer, Singapore.
- Chutia, D., Chouhan, A., Nishant, N., Singh, P. S., Bhattacharyya, D. K., and Raju, P. L. N. (2021). Image Processing Using Artificial Intelligence: Case Study on Classification of High-Dimensional Remotely Sensed Images. In Sharma, L., and Garg, P. K., editors, *Artificial Intelligence*, volume 1, pages 39-49, eBook ISBN: 978100314035. Chapman and Hall/CRC, New York.
- Deka, R. K., Bhattacharyya, D. K., and Kalita, J. K. (2021). Ddos attacks: Tools, mitigation approaches, and probable impact on private cloud environment. In Jan, T., and Chishti, S. M. A., editors, *Big Data Analytics for Internet of Things*. Volume 1, pages 285-319, ISBN: 9781119740759. John Wiley & Sons, Inc.
- Deka, R. K., Kalita, K.P., Bhattacharyya, D.K., and Boro, D. (2021). A Smart Feature Reduction Approach to Detect Botnet Attack in IoT. In: Bora, P.K., Nandi, S., Laskar, S. editors, *Emerging Technologies for Smart Cities. Lecture Notes in Electrical Engineering*, volume 765, pages 17-23, ISBN: 978-981-16-1549-8. Springer, Singapore.
- Hoque, N., Bhattacharyya, D.K., and Kalita, J.K. (2021). KNN-DK: A Modified K-NN Classifier with Dynamic k Nearest Neighbors. In Bansal, J.C., Fung, L.C.C., Simic, M., Ghosh, A., editors, *Advances in Applications of Data-Driven Computing. Advances in Intelligent Systems and Computing*, vol 1319, pages 21–34, ISBN: 978-981-33-6918-4. Springer, Singapore.
- Jitani, N., Singha, B., Barman, G., Talukdar, A., Choudhury, B. K., Sarmah, R. and Bhattacharyya, D. K. (2021). Gallbladder CT Image Segmentation by Integrating Rough Entropy Thresholding with Contours. In Gandhi, T.K., Konar, D., Sen, B. and Sharma, K., editors,

Advanced Computational Paradigms and Hybrid Intelligent Computing, volume 1373, pages 651-659, ISBN: 978-981-16-4368-2. Springer, Singapore.

- Ray, K., Saharia, S., and Sarma, N. (2021). A Study on Classification Accuracy of Different Features in Identification of Parasite Eggs from Microscopic Images of Fecal Samples. In Maji, A.K., Saha, G., Das, S., Basu, S., Tavares, J.M.R.S., editors, *Proceedings of the International Conference on Computing and Communication Systems. Lecture Notes in Networks and Systems*, 170, ISBN: 978-981-33-4083-1. Springer, Singapore.
- Sarmah, U., Bhattacharyya, D.K. (2022). Cost-Effective Detection of Cyber Physical System Attacks. In Dehuri, S., and Chen, Y. W., editors, *Advances in Machine Learning for Big Data Analysis. Intelligent Systems Reference Library*, volume 218, pages 33-69, ISBN:978-981-16-8929-1. Springer, Singapore.

Publication of Articles in Conference Proceedings

- Bardalai, P., Medhi, N., Bargayary, B., and Saikia, D. K. (2021). Open HealthQ: OpenFlow based QoS management of Healthcare Data in a Software-Defined Fog environment. In *IEEE International Conference on Communications* (ICC 2021), pages 1-6, Montreal, QC, Canada. IEEE.
- Bhowmick, A., Saharia, S., and Hazarika, S. M. (2021). Enhancing label transfer in nonparametric scene parsing by superpixel-based dense alignment. In *Proceedings of the Twelfth Indian Conference on Computer Vision, Graphics and Image Processing* (ICVGIP-2021), Pages 1-9, Jodhpur, India. Association for Computing Machinery, New York, United States.
- Borkakoty, H., and Sharma, U. (2021). A Naive Extractive Text Summarizer for Assamese Language. In *Third International Conference on Inventive Research in Computing Applications* (ICIRCA 2021), pages 1712-1717, Coimbatore, India. IEEE.
- Devi, M., Sarma, N., and Deka, S. K. (2021). Spectrum Auction Mechanism Based on Concurrent Bidding for Channel Allocation in Ad Hoc CRNs. In *IEEE 18th India Council International Conference* (INDICON-2021), pages 1-7, Guwahati, Assam, India. IEEE.
- Dutta, P. E., Neog, H., and Medhi, N. (2021). Health Monitoring in Internet of Medical Things (IoMT) using Machine Learning (ML) Approaches. In *IEEE Globecom Workshops* (GC Wkshps 2021), pages 1-6, Madrid, Spain. IEEE.
- Goswami, S., Singh, R., Saikia, N., Bora, K. K., and Sharma, U. (2021). TokenCheck: Towards Deep Learning Based Security Vulnerability Detection in ERC-20 Tokens. In *IEEE Region 10 Symposium* (TENSYMP 2021), pages 1-8, Jeju, Republic of Korea. IEEE.
- Saharia, D., Boruah, M. R., Pathak, N. K., and Sarma, N. (2021). An Ensemble based Modulation Recognition using Feature Extraction. In *International Conference on Intelligent Technologies* (CONIT-2021), pages 1-6, Hubli, India. IEEE.
- Sarkar, T., and Kalita, S. (2021). A Weighted Critic Update Approach to Multi Agent Twin Delayed Deep Deterministic Algorithm. In *IEEE 18th India Council International Conference* (INDICON 2021), pages 1-6, Guwahati, Assam, India. IEEE.
- Singh, P., Kumar, R., Kannaujia, S., and Sarma, N. (2021). Adaptive Replacement Cache Policy in Named Data Networking. In *International Conference on Intelligent Technologies* (CONIT-2021), pages 1-5, Hubli, India. IEEE.
- Singh, P., and Sarma, N. (2021). Adaptive Replacement Cache with Quality of Service for Delay Sensitive Applications in Named Data Networking. In *IEEE 18th India Council International Conference* (INDICON-2021), pages 1-6, Guwahati, Assam, India. IEEE.

Name of	Purpose of	Title of Event	Date/Period	0
Faculty/Staff Member	Attending			Venue (Online/ Offline)
Dr. S. S.	Organizing	National Workshop on Recent	21-02-2022-	Dept. of CSE,
Satapathy	Committee	Trends in Computer	25-02-2022	Tezpur
		Applications in Academia and		University
		Industry		(Online)
Dr. S. K. Deka	Resource Person and	1	21-02-2022-	Dept. of CSE,
	Organizing	Trends in Computer	25-02-2022	Tezpur
	Committee	Applications in Academia and		University
		Industry		(Online)
Dr. Rosy	Resource Person	National Workshop on Recent	21-02-2022-	Dept. of CSE,
Sarmah		Trends in Computer	25-02-2022	Tezpur
		Applications in Academia and		University
		Industry		(Online)
Dr. Nabajyoti	Organizing	National Workshop on Recent	21-02-2022-	Dept. of CSE,
Medhi	Committee	Trends in Computer	25-02-2022	Tezpur
		Applications in Academia and		University
		Industry		(Online)
Dr. Rosy	Resource Person	Online STTP On Recent	25-10-2021-	Kaziranga
Sarmah		Advancements in AI & Machine	30-10-2022	University,
		Learning		(Online)
Dr.	Organizing	National Workshop on Recent	21-02-2022-	Dept. of CSE,
Shobhanjana	Committee	Trends in Computer	25-02-2022	Tezpur
Kalita		Applications in Academia and		University
		Industry		(Online)
Dr.	Organizing	National Workshop on Recent	21-02-2022-	Dept. of CSE,
Swarnajyoti	Committee	Trends in Computer	25-02-2022	Tezpur
Patra		Applications in Academia and		University
		Industry		(Online)
Dr. Debojit	Organizing	National Workshop on Recent	21-02-2022-	Dept. of CSE,
Boro	Committee	Trends in Computer	25-02-2022	Tezpur
		Applications in Academia and		University
		Industry		(Online)
	Resource Person	National Workshop on Recent	21-02-2022-	Dept. of CSE,
Baishya		Trends in Computer	25-02-2022	Tezpur
		Applications in Academia and		University
		Industry		(Online)

Conference/Workshop/Symposium/Seminar etc. Attended

Invited Talk

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue
Dr. Rosy Sarmah	Machine Learning in Medical Images	Online STTP On Recent Advancements in AI & Machine Learning	25-10-2021- 30-10-2021	Kaziranga University, (Online)
Dr. Rosy Sarmah	Machine Learning in Healthcare	Recent Trends in Computer Applications in Academia and Industry	21-02-2022- 25-02-2022	Dept. of CSE, Tezpur University (Online)

Awards/Honours/Notable Achievements

Name of	Designation of	Achievement	Event/ Awarded by
Awardee	Awardee		
Prof. D. K.		Included in the list of Top 2 percent Scientists	
Bhattacharyya		in the Globe published by Stanford University	Professors in the
		Professors in the PLOS Journal, August, 2021	PLOS Journal
Dr. S. K. Deka	Faculty member	Senior Member IEEE (SMIEE)(93978071)	IEEE
Dr. S. K. Deka	Faculty member	Fellow of IETE (IETE/F-236527)	IETE

Other Significant Activities of the Department (e.g., outreach/extension activities, events organized, etc.)

 National Workshop on Recent Trends in Computer Applications in Academia and Industry. Organized by Department of Computer Science & Engineering, Tezpur University. From 21st - 25th February 2022.

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme	
NET- JRF/LS	03	PhD	
NET- JRF/LS	02	M. Tech (IT/CSE)	
GATE	24	B. Tech (CSE)	

Notable Placement of Students

Name of Student	Academic	Placement Designation	Company/	Mode of
	Programme		Organization	Selection
Kaushik Kumar	B-Tech CSE	Software Development	Amazon India	Off-Campus
Bora		Engineer		_
Subhasish	B-Tech CSE	Software Development	WazirX	Off-Campus
Goswami		Engineer		
Adittya Dey	B-Tech CSE	Software Engineer	Velocity	On-Campus
Nayanjeet Saikia	B-Tech CSE	Software Engineer	Velocity	On-Campus
Rabijit Singh	B-Tech CSE	Software Engineer	Velocity	On-Campus
Abhijit Sarmah	MCA	Associate Software Developer	IQVIA	On-Campus
Milan Mandal	B-Tech CSE	Associate Software Developer	IQVIA	On-Campus
Nishant Bora	B-Tech CSE	Associate Software Developer	IQVIA	On-Campus
Nistha Roy	Mtech	Associate Software Developer	IQVIA	On-Campus
Upam Sarmah	B-Tech CSE	Associate Software Developer	IQVIA	On-Campus
Sandeep Kumar Vishwas	Sandeep Kumar M-Tech Junior Management Grade		Federal Bank	Off-Campus
Siddartha Das	M-Tech IT	Junior Management Grade I	Federal Bank	Off-Campus
Manab Kalyan Saha	MCA	Software Dev.	Allegion	On-Campus
Mohit Singh	MCA	Graduate Engineer Trainee	Allegion	On-Campus
Pradhan				
Arindam Kashyap	MCA	Graduate Engineer Trainee	Allegion	On-Campus
Himanshu Gupta	B-Tech CSE	Graduate Engineer Trainee	Allegion	On-Campus
Kamalesh Sekhar	MCA	Global IT	Allegion	On-Campus

Bharadwaj				
Barbie Duarah	B-Tech CSE	Graduate Engineer Trainee	Alstom	Off-Campus
Hirokjyoti Dutta	B-Tech CSE	Graduate Engineer Trainee	Alstom	Off-Campus
Bijoy Mogor	M-Tech CSE	Software Engineer	Betsol	Off-Campus
Binay Sharma	B-Tech CSE	Software Engineer	Betsol	Off-Campus
Ankit Kumar	B-Tech CSE	Senior Analyst	Capgemini	On-Campus
Mishra	D-Tech CSE	Semor Analyst	Capgemini	On-Campus
Deepjyoti	MCA (2 yr)	Analyst	Capgemini	On-Campus
Hazarika	WICK (2 yr)	Anaryst	Capgennin	On-Campus
Reco Das	MCA-3 Year	Analyst	Capgemini	On-Campus
Subham Dey	B-Tech CSE	Analyst	Capgemini	On-Campus
Sumit Ghosh	MCA (2 yr)	Analyst	Capgemini	On-Campus
Aasurjya Bikash	B-Tech CSE	Analyst Trainee	Cognizant Technologies	On-Campus
Handique	D Teen CDL	T maryst Trance	Cognizant reenhologies	On Campus
Debayan	MCA	Analyst Trainee	Cognizant Technologies	On-Campus
Chakravorty	WICH I	Thanyst Humee	cognizant reennologies	On Campus
Diptangshuman	MCA	Analyst Trainee	Cognizant Technologies	On-Campus
Das		Thangst Trance		on campus
Himanshu	MCA (2 yr)	Analyst Trainee	Cognizant Technologies	On-Campus
Chauhan		Thangst Trance		on campus
Hiranmoyee	MCA	Analyst Trainee	Cognizant Technologies	On-Campus
Dehingia				on campus
Ishika Sharma	MCA (2 yr)	Analyst Trainee	Cognizant Technologies	On-Campus
Kasturi Bora	MCA-2	Analyst Trainee	Cognizant Technologies	On-Campus
	Year			on campus
Meghna Roy	B-Tech CSE	Analyst Trainee	Cognizant Technologies	On-Campus
Neha Kumari	MCA (2 yr)	Analyst Trainee	Cognizant Technologies	On-Campus
Ojosmita	MCA (2 yr)	Analyst Trainee	Cognizant Technologies	On-Campus
Bachistha	- () /			· · · ·
Goswami				
Prince Singh	MCA (2 yr)	Analyst Trainee	Cognizant Technologies	On-Campus
Rituraj Harsh	MCA (2 yr)	Analyst Trainee	Cognizant Technologies	On-Campus
Sajjadul Islam	M-Tech IT	Analyst Trainee	Cognizant Technologies	On-Campus
Samrat Roy	MCA-2	Analyst Trainee	Cognizant Technologies	On-Campus
•	Year	-		
Sanjeev Prasad	MCA (2 yr)	Analyst Trainee	Cognizant Technologies	On-Campus
Satyajit Das	MCA	Analyst Trainee	Cognizant Technologies	On-Campus
Saurabh Kumar	B-Tech CSE	Analyst Trainee	Cognizant Technologies	On-Campus
Singh		-		-
Siripurapu Pavan	B-Tech CSE	Analyst Trainee	Cognizant Technologies	On-Campus
Kumar				-
Aditya Nath	B-Tech CSE	Associte IT Consultant	ITC Infotech	On-Campus
Ankit Agarwal	B-Tech CSE	Associte IT Consultant	ITC Infotech	On-Campus
Anupam Chetia	B-Tech CSE	Associte IT Consultant	ITC Infotech	On-Campus
Avishek Dutta	B-Tech CSE	Associte IT Consultant	ITC Infotech	On-Campus
Gautam Baishya	B-Tech CSE	Associte IT Consultant	ITC Infotech	On-Campus
Krishna Prabhakar	B-Tech CSE	Associte IT Consultant	ITC Infotech	On-Campus
Masud Ahmed	B-Tech CSE	Associte IT Consultant	ITC Infotech	On-Campus
				<u> </u>
Utkarsh Anand	B-Tech CSE	Associte IT Consultant	ITC Infotech	On-Campus
Utkarsh Anand Abhishek Kumar	B-Tech CSE M-Tech CSE	Associte IT Consultant Software Engineer	L&T Technology Services	Off-Campus
				^

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Indrani Kashyap	M-Tech CSE	Software Engineer	L&T Technology Services	Off-Campus
Jublee Gogoi	M-Tech IT	Software Engineer	L&T Technology Services	Off-Campus
Rasel Ahmed	M-Tech IT	Software Engineer	L&T Technology Services	Off-Campus
Suman Kumar	M-Tech IT	~		· · · · ·
	M-Tech II	Software Engineer	L&T Technology Services	Off-Campus
Chaudhury	M Tash IT	Coffeenant Englisher	L OT Taskaslass Comisso	Off Commune
Wajid Rahman	M-Tech IT	Software Engineer	L&T Technology Services	Off-Campus
Manab Boro	MCA	Associate Software	Paralaxion	Off-Campus
		Engineer		
Harshita Yadav	MCA (2 yr)	Assistant System Engineer-	TCS	On-Campus
		Trainee		
Koushik Kumar	MCA (2 yr)	Assistant System Engineer-	TCS	On-Campus
Borah		Trainee		
Latashree Gogoi	MCA	Assistant System Engineer-	TCS	On-Campus
		Trainee		
Mintu Moni Kurmi	MCA (2 yr)	Assistant System Engineer-	TCS	On-Campus
	_	Trainee		_
Nikita Agarwal	MCA	Assistant System Engineer-	TCS	On-Campus
		Trainee		-
Sumit Baruah	MCA (2 yr)	Assistant System Engineer-	TCS	On-Campus
		Trainee		1 I
Abdul Munyeem	B-Tech CSE	Project Engineer	Wipro	On-Campus
Siddique		5 6	1	1
Ankush Kumar	B-Tech CSE	Project Engineer	Wipro	On-Campus
Dipankar Chetry	B-Tech CSE	Project Engineer	Wipro	On-Campus
Nitish Kumar	B-Tech CSE	Project Engineer	Wipro	On-Campus
Owashim Akram	B-Tech CSE	Project Engineer	Wipro	On-Campus
Suraj Sarmah	B-Tech CSE	Project Engineer	Wipro	On-Campus
Agrajit Neog	MCA (2 yr)	Associte Software Engineer	Zaloni Technologies	On-Campus
Moloy Writ Saikia	B-Tech CSE	Associte Software Engineer	Zaloni Technologies	On-Campus

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic	Name of other Institute	Enrolled
	Programme (in TU)		Academic
			Programme
Riya Saha	M. Tech in IT	Queens University Belfast	PhD
Debabrata Khargharia	M. Tech in IT	NIT, Silchar	PhD
Rishang Kumar Brahma	M. Tech in CSE	Tezpur University	PhD
Dipti Deb	M. Tech in CSE	Tezpur University	PhD
Abhijit Gogoi	M. Tech in IT	Tezpur University	PhD
Dilwar Hussain Barbhuiya	M. Tech in IT	Tezpur University	PhD
Subham Pandey	M. Tech in IT	IIT BHU	PhD
Punam Sarmah	M. Tech in IT	Tezpur University	PhD
Narendra Yadav	MCA	IIT Jodhpur	M. Tech
Sandeep Kumar Prajapati	MCA	Tezpur University	MBA
Swarnabh Kashyap	B. Tech in CSE	Rochester Institute of Technology	MS, Data Science
Shivam Ayengia	B. Tech in CSE	Delhi School of Economics	MBA
Ankit Kumar	B. Tech in CSE	NIT, Surathkal	M. Tech
Astha Borkataky	B. Tech in CSE	IIIT Banglore	M. Tech
Dikshita Medhi	B. Tech in CSE	Chirst University, Banglore	MBA
Tiasha Bhowmik	B. Tech in CSE	BITS, Pilani	M. Tech
Sagar Biswas	B. Tech in CSE	IIT Bombay	M. Tech
Shibani Das	B. Tech in CSE	IIT Indore	M. Tech

Ramyanee Kashyap	B. Tech in CSE	IIIT Delhi	M. Tech
Madhuryya Kashyap	B. Tech in CSE	Tezpur University	M. Tech
Sandeep Dev Misra	B. Tech in CSE	IIIT, Hyderabad	M. Tech
Aditya Goswami	B. Tech in CSE	FORE School Of Management,	MBA
		New Delhi	
Gaurav Kumar	B. Tech in CSE	IIT Guwahati	M. Tech
Masood Rahman	B. Tech in CSE	Symbiosis Centre for Information	MBA
		Technology	

DEPARTMENT OF DESIGN

About the Department

Tezpur University is starting a new department, "Department of Design" under the School of Engineering considering the importance of design in the success of any product. India represents a huge market, and an "Atmanirbhar Bharat" needs an enormous range of well-designed products for its own population as well as the rest of the world. That needs training and preparing future generations of technocrats with the right design perspective.

Initially, the department will offer elective courses to the B. Tech. and M. Tech. programmes with the objective of providing the students, of the engineering disciplines in particular, with the perspectives of design, thinking and the necessary training. Soon these will be extended to students of other programmes. That will be followed by starting of UG/ PG programmes on design in phases. We also envisage the need for catering to students/ project-specific requirements which will add a new perspective to design and innovation of various engineering product design and development initiatives by adding a human-centric focus.

Academic Programmes and Student Intake

Academic Programme	Student Intake	
Master of Design (M. Des.)	18	

Thrust Research Areas of the Department

- Technology-based Design
- Life-centered Design
- Inclusive Design
- Integrated Design
- Community-based Design
- Sustainable Design

Major Facilities/Equipment available

- **Digital Prototyping Studio:** The studio have the following equipment
 - 10 numbers of High End Computers (HP Z2 G4 Intel Core i7-9700/ 16GB/ 1TB)
 - 02 numbers of Workstation (Dell Precision 3640)
 - Software Packages (Solidworks, Rhino, Adobe master suit)
 - Cintiq Pro for product styling, illustrations, and visual design
 - 01 Wacom Cintiq Pro 32 inch
 - 02 Wacom Cintiq Pro 24 inch
- **Physical Prototyping Studio:** The studio have the following equipment
 - 3D Clay and Plastic Printer
 - 3D Printer with Nylon, PLA, ABS, CPE and PVA Printing
- Communication Studio: The studio have the following equipment
 - DSLR Camera
 - Tripods

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
Associate Professor	Nayan Moni Kakoty, HoD (i/c)	Ph. D. (Tezpur University)	Rehabilitation Robotics	nkakoty	01-07-2019
Anning	Shiv Kumar Verma	Ph. D. (IIT Guwahati)	Industrial Design	shiv	10-06-2020
Assistant Professor	Srinivasan G	Ph. D. (IIITDM Kancheepuram)	Product Design, Thermal Sciences	srini	19-01-2022
Guest	Pranjal Protim Borah	M. Tech. (CSE-AI, Assam Don Bosco University)	Interaction Design	ppborah	20-09-2021
Guest Faculty	Kankana Narayan Dev	M. Arch. (Urban Design and Development,MAHE)	Visual Communication Design	kankana.dev	24-09-2021

Officers and Staff Members

Designation	Name		Date of holding the current position
Laboratory Assistant	Mr. Himanshu Nath	himansu	18-01-2021
MTS	Mr. Gitartha Bhatta	gitarthabhatta123@gmail.com	17-12-2021

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Verma S.K., Punekar R.M. (2021). Decoding Nature-Inspired Form Generation Processes. In: Chakrabarti A., Poovaiah R., Bokil P., Kant V. (eds) Design for Tomorrow—Volume 3. Smart Innovation, Systems and Technologies, vol 223. Springer, Singapore.
- Verma S.K., Punekar R.M. (2020). Design Science Approach to Nature Inspired Product Forms: Studies on Processes and Products. Synergy: Design Research Society (DRS) 2020.
- Verma S.K., Punekar R.M. (2019). Observing Nature—What Designers Can Learn from Biologists. In: Chakrabarti A. (eds) Research into Design for a Connected World. Smart Innovation, Systems and Technologies, vol 135. Springer, Singapore
- Verma S.K., Punekar R.M. (2017). Nature Inspired Design—A Review from an Industrial Design Perspective. In: Chakrabarti A., Chakrabarti D. (eds) Research into Design for Communities, Volume 2. ICoRD 2017. Smart Innovation, Systems and Technologies, vol 66. Springer, Singapore.

DEPARTMENT OF ELECTRICAL ENGINEERING

About the Department

The Electrical Engineering department started in 2014 under the School of Engineering with the B.Tech program. The aim of the department is to impart quality education, training, and research at the undergraduate level in forefront areas of Electrical Engineering and its allied technologies. The Department currently offers BTech and PhD programs in Electrical Engineering. These programs aim to produce engineers with sound basic and applied electrical engineering knowledge.

The Department plans to expand its teaching and research infrastructure, enhance its industrial and research collaboration, and implement modern techniques for training to realize the above-mentioned goals.

The key areas of faculty expertise of in the department include Power System Engineering, Power Electronics, Nonlinear Analysis-Theory, Methods & Applications, Control Systems, Fractional Order Chaotic Systems, Converter and Inverter Topologies, Sensor Technologies, Smart Grid Technologies and Policy Design, Distributed Generation Based System Optimization, Renewable Energy Management, Bio-electronics, and Neuro Engineering.

Academic Programmes and Student Intake

Academic Programme	Student Intake
B.Tech	41
Ph.D.	Variable (admitted 02 in 2021-22)

Thrust Research Areas of the Department/Centre

- Smart Energy and Control Systems
- Power Electronics and Microgrid/Smartgrid
- Sensors & Sensing Technologies for Green Energy, Food and Health

Major Facilities/Equipment available

- Low Resistance Measurement Kelvin Double Bridge Kit
- Power System & Protection Lab
- Magnetic Levitation System for Control System Design.
- PCB Prototyping Machine.
- Typhoon-Hardware in loop (HIL) 402 Real Time Emulator
- Magnetic levitation system
- Hot Air Oven
- Muffle Furnace with Profile controller upto 1200 °C
- Hot Plate with Magnetic Stirrer
- Conductivity Meter

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization		Date of holding the current position
Associate	Asim Datta	Ph.D	Energy Engineering,	asim	01-12-2021

Professor		(IIEST,	Renewable Energy		
		Shibpur)	Sources.		
	Md Rahat	Ph.D	Instrumentation and	rahat	30-09-2020
	Mahboob	(Jamia Millia	Control Sensors and Signal		
		Islamia, New	Conditioning Wireless		
		Delhi)	measurement Health		
			Monitoring & IoT, Food		
			Quality, Smart Agriculture		
	N 11		Green Technology	1	02 10 2020
	Manashita	Ph.D	Smart Energy systems	manabor	03-10-2020
	Borah	(NIT Silchar,	Control Systems IoT		
		Assam)	Chaos and Fractional-order		
			Systems waste water		
			management		
	Barnam Jyoti	M.Tech	Power Electronic	bjsece	19-11-2019
	Saharia	(NIT	converters for Renewable		
		Agartala,	Energy Applications		
		Tripura)	Hybrid PV-Wind Energy		
		111 p = 1 = 1)	System Modeling and		
			Optimization Fuzzy and		
			Neural Network		
, • , ,			applications in power point		
Assistant			tracking of PV systems		
Professor			Optimization in power		
			electronic converters		
			design Artificial		
			Intelligence in Renewable		
			Energy applications		
	Anish Ahmad	Ph.D.	Power Electronics and	aahmad	20-01-2020
		(IIT, BHU	Drives Modeling and		
		Varanasi)	Control of Power		
		(urunusi)	Electronics and Drives		
			systems Renewable Energy		
			Integration Microgrid/		
			0		
			Smartgrid Electric		
			Vehicle/Hybrid Electric		
			Vehicle		
	Soumya	Ph.D.	Power and Energy Systems	soumya	06-12-2021
	Samanta	(NIT, Silchar,	Engineering		
		Assam)	Renewable Energy		
			Integration and Microgrid		
			Control Power/ Energy		
			Management in Microgrid		
			Electric Vehicle and Drives		
	Rumi	Ph.	Load frequency control,	rumi90	20-08-2018
	Rajbongshi	(NIT, Silchar,			20 00 2010
	Rajuongsin	(NIT, Shehar, Assam)	system operation and		
		Assail)	• •		
Guest			control, deregulated power		
Faculty			system, solar		
			photovoltaic, techno		
			economic assessment of		
			hybrid system for rural		
			electrification.		

Debnath	n Ph.D	Control Systems, Circuit	devnath.nitap	09-02-2021
Shah	(NERIST,	Theory, Digital	@gmail.com	То
	Arunachal	Electronics, Power		15-03-2022
	Pradesh)	Electronics, Electricity		
		Market, Signals &		
		Systems, Engineering		
		Mathematics, Power		
		Systems		
Sorokha	uibam Ph.D	Power System Engineering	soronilameitei@	11-10-2021
Nilakan	ta (NERIST)		gmail.com	То
Meitei				13-04-2022

Officers and Staff Members

Designation	Name	@tezu.ernet.in	Date of holding the current position
Laboratory Assistant	Mr Biswajeet Nath	biswa89	22-10-2019
Technical Assistant	Mr Debabrat Borkotoky	debabratborkotoky@gmail.com	01-11-2021
Technical Assistant	Mr. Madhujya Dowarah	madhujyaduwarah@gmail.com	02-06-2022
Office Assistant	Mr Mrinal Basumatary	mrin123	29-10-2021
	Mr Zakir hussain	Zakir07	21-10-2019

Research Projects (both Ongoing and New)

Project Title	Funding	Amount	Duration	Investigator(s)
	Agency	(in INR)		
High Voltage Gain Converters for Renewable	UGC-BSR	1000000	2 Years	Dr. Anish
Energy Resource Applications				Ahmad
Development of An on-Board Hybrid charging	CPRI	3146000	2 Years	Dr. Asim Datta
system For Hilly-stationperformance Light				
Electric Vehicle"				

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Borah, M., Gayan, A., Sharma, J.S., Chen, Y., Wei, Z. and Pham, V. T. (2022). Is fractional-order chaos theory the new tool to model chaotic pandemics as Covid-19?.*Nonlinear Dynamics*, 1-29. DOI: https://link.springer.com/article/10.1007/s11071-021-07196-3.
- Saha, C., Verma, V., Tarodiya, R., Mahboob, Md R. and Kumar, R. (2021). Analytical modeling of a radiant cooling system for thermal performance analysis. *Materials Today: Proceedings*, 47, 2474-2480.
- Siddiqui, M. A., Anwar, M. N., Laskar, S. H. and Mahboob, Md R. (2021). A unified approach to design controller in cascade control structure for unstable, integrating and stable processes. *ISA transactions*, 114, 331-346.
- Borah, M., Das, D., Gayan, A., Fenton, F and Cherry, E. (2021). Control and anticontrol of chaos in fractional-order models of Diabetes, HIV, Dengue, Migraine, Parkinson's and Ebola virus diseases. Chaos, Solitons & Fractals, 153, 111419.
- Borah, M., Roy, B. K., Kapitaniak, T., Rajagopal, K. and Volos, C. (2021). A revisit to the past plague epidemic (India) versus the present COVID-19 pandemic: fractional-order chaotic models and fuzzy logic control. *The European Physical Journal Special Topics*, 1-15. DOI: https://link.springer.com/article/10.1140/epjs/s11734-021-00335-2.

- Borah, M. and Roy, B. K. (2021). Hidden multistability in four fractional-ordermemristive, meminductive and memcapacitive chaotic systems with bursting and boosting phenomena. *The European Physical Journal Special Topics*, 230(7), 1773-1783.
- Sarker, R., Datta, A. and Debnath, S. (2021). An improved multicarrier PWM (MCPWM) technique with a new harmonic mitigation strategy for cascaded H-bridge multilevel inverter applications. *IEEE Transactions on Industrial Informatics*, 18(3), 1500-1510.

Publication of Book Chapters

- Mahboob, Md R., Khan, S. A. and Islam, T. (2021). Humidity detection in low ppm using printable flexible sensors. Printed and Flexible Sensor Technology. In S. C. Mukhopadhyay, A. Nag editor(s), Printed and Flexible Sensor Technology, Fabrication and applications, 17, pages 1-18, IOP Science UK.
- Ahmad, A. and Singh, R. K. (2021). Converter classification, analysis, and control issues with EV. In Singh, R., Padmanaban, S., Dwivedi, S., Molinas, M., Blaabjerg, F., editors, *Cable Based and Wireless Charging Systems for Electric Vehicles: Technology and control, management and grid integration, Transport*, pages 135-161, IET UK.

Name of	Title of the	Title of the Event	Date	Organizer and Venue
Faculty	Talk			
Member				
Dr	Human	Azadi ka Amrit	22-10-2021	Department of Science and
Manashita	Capacity	Mahotsav: Vigyan		Technology, Assam Science
Borah	building	Utsav		Technology & Environment Council
Dr	IoT in smart	National Seminar on	12, 14-05-2022	Department of Science and
Manashita	energy and	IoT and IoT based		Technology, Arunachal Pradesh State
Borah	E-health	Applications		Council for Science and Technology,
				Itanagar

Invited Talk

Other Significant Activities of the Department/Centre (e.g., outreach/extension activities, events organized, etc.)

- Trilingual glossary of engineering in Assamese language (Dr Manashita Borah, MrBarnam J Saharia)
- Industrial tour to PowerGridBNC (Dr Manashita Borah, Dr Soumya Samanta)

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
GATE	03	B.Tech in EE

Notable Placement of Students

Name of Student	Academic	Placement	Company/ Organization	Mode of
	Programme	Designation		Selection
Ashutosh Tiwari	B. Tech	Trainee Engineer	Innovaccer Analytics Pvt. Ltd.	On Campus
Abhilash Kumar Halwai	B. Tech	Trainee Engineer	Congnizant Technologies	On Campus
ParthaPratim Bora	B. Tech	Trainee Engineer	Congnizant Technologies	On Campus

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic Programme	Name of other Institute	Enrolled Academic
	(in TU)		Programme
AntarikshaRajkumari	B. Tech	ESMT Berlin	MBA(Masters of Business
			Administration)
Debanita Das	B. Tech	IIT, Bombay	Ph.D.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

About the Department

Established in 1997, the Department of Electronics and Communication Engineering is one of the oldest departments in the University with the Department started with an M.Tech. Programme in Electronics Design and Technology in 1997, and subsequently introduced another M.Tech. Programme in Bioelectronics under the "Teaching and Research in Interdisciplinary and Emerging Areas" scheme of the University Grants Commission. The Department expanded its academic activities to undergraduate programmes, first with a B.Tech. Programme in Electronics and Communication Engineering in 2006, followed by another B.Tech. Programme in Electrical Engineering in 2014 (currently under the department of Electrical Engineering since October 2016). The Department also implemented a threeyear diploma programme in Advanced Diploma in Healthcare Informatics and Management under the career-oriented scheme of the University Grants Commission (2012-2017). In addition, the department offers Ph.D. programmes in different areas, including Signal and Image Processing, Vehicular Electronics, Bioelectronics, Biosensors, Microwave Engineering, Neuro-bio engineering, and Communication Engineering and Microelectronics. The Department is supported by DST-FIST, DeitY -MIT, UGC-SAP (DRS-I), AICTE, RPS, AICTE NEQIP, and Visvesvaraya Ph.D. Scheme under Meity, GoI. Faculties of the department have several international research collaborations, including Queen's University Belfast (QUB), UK; University Technology Malaysia, Malaysia; Airlangga University, Indonesia, and University of Rio de Janeiro, Brazil.

Academic Programmes and Student Intake

Academic Programme	Student Intake
M.Tech. in Electronics Design and Technology	35
M.Tech. in Bioelectronics	19
B.Tech. in Electronics and Communication Engineering	68
Ph.D. in Electronics and Communication Engineering	Variable (admitted 09 in 2021-22)

Thrust Research Areas of the Department

- Microwave, Communication Engineering, Semiconductor Devices.
- Biosensors, Bioelectronics, Neuroengineering intelligent Instrumentation, Image and Signal Processing.
- Vehicular Electronics, Power Electronics, Robotics

Major Facilities/Equipment available

Experimental:

- Optical Lithography unit (Suss Microtech)
- Thin film deposition unit
- Mili-Q water system
- Probe Station
- Reactive Ion etching unit (Hind Hivac)
- Plasma Enhanced CVD (Hind Hivac)
- Vacuum coating unit (E-Beam and thermal)
- Physical vapor deposition unit
- Spin coater (Suss Microtech)

- Spectrum analyzer
- Optical Microscope
- Thin film thickness measurement unit (F20 Sinsil International)
- Multichannel Bio-signal acquisition unit
- Quantum Efficiency and IV measurement set up (Under procurement process)
- FPGA board
- Potentiostat-Galvanostat
- Probe Sonicator
- Centrifuge machine

Computational:

- Cadence UG/PG bundle
- Synopsys TCAD
- Mentor Graphics
- Xilinx

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
	Partha Pratim Sahu	PhD (Jadavpur University)	Optical Network, Clinical Instrumentation, Micro- fabrication, Quantum Technology	pps	30-11-2008
	Jiten Ch. Dutta	PhD (Jadavpur University)	Biosensors and Bioelectronics, Neurobioengineering	jitend	01-01-2009
	Satyajib Bhattacharyya	PhD (University of Delhi)	Microwave Antennas, Absorbers and Materials	sb	18-11-2011
Professor	Santanu Sharma	PhD (Tezpur University)	Semiconductor Devices, Bioelectronic Devices, Vehicular Electronics, Power Electronics	SSS	22-01-2014
	Soumik Roy	PhD (Tezpur University)	Neuroengineering, Healthcare system, Hydroponics, Digital System Design, Intelligent Instrumentation	xoumik	05-01-2015
	Bhabesh Deka	PhD (IIT Guwahati)	Image Processing, Computer Vision, and Biomedical Signal/Image Analysis using Machine/Deep Learning	bdeka	05-01-2015

	Vijay Kumar	PhD (IIT	Image Processing,	vknath	01-09-2015
l	Nath	Guwahati)	Machine Learning, Computer Vision,		
			Pattern recognition, Deep Learning		
	Nayan Moni Kakoty	Ph.D. (Tezpur University)	Robotics, Biomedical Signal Processing	nkakoty	18-02-2018
Associate	Deepika Hazarika	Ph.D (Tezpur University)	Image and Video Processing	deepika	17-02-2015
Professor	Ratul Kumar Baruah	Ph.D. (IIT Guwahati)	Nanoelectronics, Biosensors, Flexible Electronics	ratulkr	17-02-2020
	Riku Chutia	Ph.D. (Tezpur University)	E-nose, Instrumentation and Signal Processing, Embedded System	riku	20-02-2016
	Biplob Mondal	Ph.D (Jadavpur University)	VLSI and MEMS Devices	biplobm	18-02-2019
Assistant	Durlav Sonowal	Ph.D. (Tezpur University)	Sensors, Signal Processing	dsn	14-10-2009
Professor	Ananya Bonjyotsna	Ph.D. (Tezpur University)	Audio Processing	ananyab	01-09-2012
	Priyanka Kakoty	Ph.D (Tezpur University)	Sensor and Nanotechnology	priyankak	14-09-2017
	Rupam Goswami	Ph.D (NIT SIlchar)	Micro/Nano-electronics and VLSI, Bio/ Memristive Sensors, Charcoal Electronics	rupam21	26-02-2020
Guest Faculty	Hiranya Ranjan Thakur	Ph.D. (Tezpur University)	Bioelectronics	hiranya2	06/10/2021

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the
			current position
Technical Officer	Anukul Baishya	anukul	01-04-1997
Technical Assistant	Kulendra Sharma	kulen	10-01-2007
	Jiten C. Boro	j_boro	20-08-2007
	Khagen Gogoi	khageng	27-07-2018
Technician	Satya Prasad Saikia	satyap	10-01-2007
Laboratory Assistant	Rupak Sharma	rupak	22-09-2010
	Navanit Kumar Roy	navanit	09-10-2015
Machine Operator	Bipul Das	bipulda	06-03-2017
Assistant	Naba Jyoti Deka	naba	02-01-2018
MTS	Dharani Dhar Bania	baniad2	01-03-1998

Major Research and Development Findings

Faculty/ Researcher	Salient Research Findings
Nayan M. Kakoty,	Design Registration:
Sharmistha Das and	Prosthetic Hand, Class: 24-00-Medical and Laboratory Equipment. Application
Lakhyajit Gohain	No. 336557-001, Journal No. 49/2021, December 03, 2021.

Research Projects (both Ongoing and New)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
Sensor array on flexible substrate for monitoring BTEX VOCs and hydrocarbons particularly present in oil and natural gas industrial environment	Science and Engineering Research Board, DST, Govt. of India	23.82 Lakh	3 yrs	Dr. Biplob Mondal
Fabrication characterization and modeling of CNT based high dielectric enzymatic field effect crearinine biosensor.	AICTE	25 Lakhs	3 yrs	Prof. J C Dutta
Design and implementation of low cost hybrid aquaponic system	AICTE	21.86 Lakhs	3 yrs	Prof. Soumik Roy
Development of A Cost-Effective EMG Controlled Prosthetic Hand for Multiple Patterns	I-Hub Foundation for COBOTICS, Technology Innovation Hub of IIT Delhi set up by DST, Govt. of India	43.44 Lakhs		Prof. Nayan M. Kakoty
A behavioral model of Ion Sensitive Field Effect Transistor (ISFET) with spatial dependence on reference electrode and development of a hardware system for model validation.	ASTEC	4.7 Lakhs	2 yrs	Prof. Santanu Sharma

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Das, S. and Sahu, P. P. A novel electrochemical interdigitated electrodes sensor for limonin quantification and reduction in citrus limetta juice. *Food Chemistry*, 381:132248, 2022.
- Chetia, R., and Sahu, P. P. Quantum Edge Extraction of Chest CT Image for the Detection and Differentiation of Infected Region of COVID-19 Patient. *Arabian journal for science and engineering*, 1-12, 2022.
- Deka, B., and Dandabat, S. A Deep framework for enhancement of diagnostic information in CSMRI reconstruction. *Biomedical Signal Processing and Control*, 71:103117, 2022.
- Deka, D., and Deka, B. Characterization of heart rate variability signal for distinction of meditative and pre-meditative states. *Biomedical Signal Processing and Control*, 66:102414, 2021.
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- Desai, M. S., and Goswami, R. A Multiple-Trapping-and-Release Transport Based Threshold Voltage Model for Oxide Thin Film Transistors. *Journal of Electronic Materials*, 50:4050-4057, 2021.
- Goswami, D., and Baruah, R. Role of gate electrode in influencing interface trap sensitivity in SOI tunnel FETs. *Journal of Micromechanics and Microengineering*, 32:044006, 2022.
- Gupta, K. A., Sahu, P. P., and Mishra, P. Ultrasound aided debittering of bitter variety of citrus fruit juice: Effect on chemical, volatile profile and antioxidative potential. *Ultrasonics Sonochemistry*. 81:105839, 2021.

- Kakoty, N. M., and Gohain, L. An EMG based prosthetic hand controller for real time grasping realizing neuromuscular constraint. *International Journal of Intelligent Robotics and Applications*, 1-13, 2021.
- Keshwani, G., and Dutta, J. C. CNT based high-κ dielectric Ion Sensitive Field Effect Transistor Based Cholesterol Biosensor. *Current Trends in Biotechnology and Pharmacy*, 15(2):182-188, 2021.
- Keshwani, G., and Dutta, J. C. High Performance CNTENFET with K/PPy/CNT nanocomposite biosensing layer for Cholesterol Detection. *TechRxiv*, 2021.
- Mondal, B., and Gogoi, P. K. Nanoscale Heterostructured Materials Based on Metal Oxides for a Chemiresistive Gas Sensor. *ACS Applied Electronic Materials*, 59-86, 2022.
- Panicker, N. J., and Sahu, P. P. Green reduction of graphene oxide using phytochemicals extracted from Pomelo Grandis and Tamarindus indica and its supercapacitor applications. *Journal of Materials Science: Materials in Electronics*, 32(11):15265-15278, 2021.
- Panicker, N. J., and Sahu, P. P., 2021. Green reduction of graphene oxide using phytochemicals extracted from Pomelo Grandis and Tamarindus indica and its supercapacitor applications. *Journal of Materials Science: Materials in Electronics*, 32(11):15265-15278, 2021.
- Saha, R., and Goswami, R. Performance Evaluation of Epitaxial Layer Based Gate Modulated TFET (GM-TFET). *Silicon*, 1-6, 2021.
- Sahu. P. Optical switch based on Graphene clad two surface plasmonic polariton mode coupler. *Optik*. 227:166026, 2021.
- Sahu. P. Quantum Optic Entanglement Using Graphene Clad Surface Plasmonic Polariton Device, 2021.
- Sharma, R., Hussung, R., and Deka, B. Coded-Aperture Computational Millimeter-Wave Image Classifier Using Convolutional Neural Network. *IEEE Access*, 9:119830-119844, 2021.
- Sharma, S., and Das, K. Coulombic efficiency estimation technique for eco-routing in electric vehicles. *AIMS Energy*, 10(3):356–374, 2022.
- Sodhani, A., and Goswami. R. Design of Pixel Circuit Using a-IGZO TFTs to Enhance Uniformity of AMOLED Displays by Threshold Voltage Compensation. *Arabian Journal for Science and EngineerinG*, 46:9663-9672, 2021.
- Tanveer, M., Sahu, P. P., and Deka, P. Advances of machine learning in data analytics and visual information processing. *Springer Link*, 2021.
- Toan, H. L. M., and Goswami, R. Impact of gate dielectric on overall electrical performance of Quadruple gate FinFET. *Applied Physics A*, 128(2):1-12, 2022.
- Baruah, H. G., Nath, V. K., Hazarika, D., and Hatibaruah, R. Local bit-plane neighbour dissimilarity pattern in non-subsampled shearlet transform domain for bio-medical image retrieval. *Mathematical Biosciences and Engineering*, 19(2):1609-1632, 2022.
- Hatibaruah, R., Nath, V. J., and Hazarika, D. Computed tomography image retrieval via combination of two local bit plane-based dissimilarities using an adder. *International Journal of Wavelets, Multiresolution and Information Processing*, 19(01):205005819, 2021.
- Gupta, A. K., Mishra, P., Senapati, M., and Sahu, P. P. A novel electrochemical device for naringin quantification and removal from bitter variety of citrus fruits. *Journal of Food Engineering*, 306:110637, 2021.
- Saha, R., Goswami, R., Bhowmick, B., and Baishya, S. Comprehensive investigation of radiofrequency/analog parameters in a ferroelectric tunnel field-effect transistor. *Semiconductor Science and Technology*, 37(3):035008, 2022.

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- Gupta, A. K., Das, S., Sahu, P. P., and Mishra, P. Design and development of IDE sensor for naringin quantification in pomelo juice: An indicator of citrus maturity. *Food chemistry*, 377:131947, 2022.
- Baruah, R. K., Mahajan, B. K., Chen, Y. P., and Paily, R. P. A Junctionless Silicon Carbide Transistor for Harsh Environment Applications. *Journal of Electronic Materials*, 50(10):5682-5690, 2021.
- Kumar, V., Parida, M. K., Goswami, R., and Deb, D. Model for predicting the threshold voltage of tunnel field-effect transistors using linear regression. *Journal of Electronic Materials*, 50(11):6015-6019, 2022.
- Muchahary, D., Ram, L. S., Narzary, R., Sahu, P. P., Bhattarai, S. and Tayal, S. Heterojunction between crystalline silicon and nanocomposite coupled ZnO· SnO2 and optimization of its photovoltaic performance. *Current Applied Physics*, 38:15-21, 2022.
- Kalita, A. J., Sahu, P. P., Borah, R. R., Rohman, S. S., Kashyap, C., Ullah, S. S., Baruah, I., Mazumder, L. J., Konwar, D., and Guha, A. K. Neutral all metal aromatic half-sandwich complexes between alkaline earth and transition metals: an ab initio exploration. *Structural Chemistry*, 32(6):2313-2318, 2021.
- Roy, J., Bhattacharya, S., Sahu, P. P., and Das, A.B. Physical, mechanical, and electrical properties of rice starch-based films plasticised by ionic liquid. *Indian Chemical Engineer*, 1-12, 2021.
- Baruah, S. M. B., Nandi, D., Gogoi, P., and Roy, S. Primate vision: a single layer perception. *Neural Computing and Applications*, 33(18):11765-11775, 2021.

Publication of Books

- Mishra, P. and Sahu, P. P. *Biosensors in Food Safety and Quality: Fundamentals and Applications*. CRC Press, 1st edition, 2022.
- Maity, S., and Sahu, P. P. *Biosensors in Food Safety and Quality*. CRC Press, 1st edition, 2022.
- Goswami, R. and Saha. *Contemporary Trends in Semiconductor Devices: Theory, Experiment and Applications.* Springer Nature, 2022.
- Goswami, R. *Carbon nanomaterial electronics: devices and applications*. Singapore Springer, 2021.
- Arora, J. S. Introduction to optimum design. Elsevier Inc., San Diego, CA, 2nd edition, 2004.
- Davis, L. S., Johsnon, K. N., Bettinger, P. S., and Howard, T. E. *Forest Management*. McGraw Hill, Boston, 2021.
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Publication of Book Chapters

- Saharia, T., Baruah, R. K., Goswami, R., and Sonowal, D. Validation and Implementation of a Smart Flood Surveillance System Based on Wireless Sensor Network. In Lenka, T. R., Misra, D., Biswas, A. (eds), Micro and Nanoelectronics Devices, Circuits and Systems, volume 781, pages 471-479, springer, Singapore, 2022.
- Phukan, N., M, Kakoty, N., Gupta, N., and Baruah, N. EEG-Based Hand Movement Recognition: Feature Domain and Level of Decomposition. In Rao, Y.V. D., Amarnath, C., Regalla, S. P., Javed, A., Singh, K. K. (eds), *Advances in Industrial Machines and Mechanisms*, pages 311-320, Springer, Singapore, 2021.
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V.V. (eds), Advances in Communications, Signal Processing, and VLSI, volume 722, pages 213-217, Springer, Singapore, 2021.

- Tyagi, A., Biswas, B., Kumar, G. A., and Mondal, B. Design and Simulation of a Dual-Band Radiometer for Humidity and Temperature Profiling. In: Laxminidhi, T., Singhai, J., Patri, S. R., Mani, V. V. (eds), *Advances in Communications, Signal Processing, and VLSI*, volume 722, pages 83-89, Springer, Singapore, 2021.
- Das, K., Khan, A., Sarkar, A., Baishya, P., Kakoty, P., and Baruah, S. Study of TiO₂ and ZnO Nanostructures as Wide Band Gap Semiconductor for the Application of Nanotechnology-Based Solar Cells. In: Bora, P.K., Nandi, S., Laskar, S. (eds), *Emerging Technologies for Smart Cities*, volume 765, pages 77-83, Springer, Singapore, 2021.
- Das, K., and Sharma, S. Eco-routing navigation systems in electric vehicles: A comprehensive survey. In Krishnamurthi, R., Kumar, A., Gill, S. S. (eds), *Intelligent Data-Centric Systems, Autonomous and Connected Heavy Vehicle Technology, Academic Press*, pages 95-122, 2022.
- Sharma, S., Hazarika, C., and Neroula, S. Significance of Optimal Positioning of the Reference Electrode for an ISFET. In Goswami, R., and Saha, R. (eds), *Contemporary Trends in Semiconductor Devices*, volume 850, pages 197-223, Springer, Singapore, 2022.
- Baruah, S. M. B., Das, B., Roy, S. Extracellular Conductivity and Nerve Signal Propagation: An Analytical Study. In Sabut, S. K., Ray, A. K., Pati, B., Acharya, U.R. (eds), *Proceedings of International Conference on Communication, Circuits, and Systems*, volume 728, pages 399-405, Springer, Singapore, 2021.

Publication of Articles in Conference Proceedings

- Saha, R., Panda, D.K., Goswami, R., Bhowmick, B., and Baishya, S., Effect of Drain Engineering on DC and RF Characteristics in Ge-source SD-ZHP-TFET. In *Devices for Integrated Circuit* (DevIC) pages 517-520, 2021. IEEE.
- Deb, D., Goswami, R., Baruah, R. K., Kandpal, K., and Saha, R. An SOI npn double gate TFET for low power applications. In *Devices for Integrated Circuit* (DevIC), pages 621-623, 2021.
- Gogoi, M. P., Sarkar, B. C., and Goswami, R. Electrical Performance and Biosensing Application of Silicon Nanowire FET. In *International conference on Nanomaterials*, 2021.
- Sharma, Hussung and Deka. Performance Analysis of Classification Algorithms for Millimeterwave Imaging. In *16thEuropean Conference on Antennas and Propagation* (EuCAP), pages1-5, 2022.
- Barman, T., Deka, B., and Prasad, A.V.V. GPU-accelerated adaptive dictionary learning and sparse representations for multispectral image super-resolution. In *IEEE 18th India Council International Conference* (INDICON) pages 1-7 2021.
- Deka, D., and Deka, B. A. Decision Support System for Prediction of Paroxysmal Atrial Fibrillation based on Heart Rate Variability Metrics. In *IEEE 18th India Council International Conference* (INDICON), pages 1-7, Guwahati, 2021.
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- Boruah, A., Ali, T., Kakoty, N. M., and Malarvili, M. B. OROnto: An Ontology for Recognition of Grasping Objects. In *IEEE 18th India Council International Conference* (INDICON), pages 1-6, 2021.
- Phukan, H., Barman, P., Saikia, N. R. and Sharma, S. Design and Development of Resonant Gate Drive Circuit for High Power Drive Applications. In *International Conference on*

Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT), pages 1-7. 2021.

Publication of Patents

Inventor(s)	Inventor(s) Patent Title		Published/	Country
		Number	Granted	
Nayan M. Kakoty and	An EMG based Prosthetic	Patent Application	Published	India (Funded
Lakhyajit Gohain	Hand Controller for Real	No. 201931049269		by TIFAC,
	Time Grasping realizing			DST, Govt. of
	Neuromuscular Constraint			India)

Invited Talk

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue (Online/Offline)
Dr Rupam Goswami	Simulation and Modeling of Tunnel FETs	One Week Lecture Series	24-01-2022	Department of Electronics and Telecommunication Engineering, and Department of Computer Science and Engineering, Assam Engineering College, Guwahati in collaboration with Department of Electronics and Communication Engineering, GUIST, Gauhati University
Dr Rupam Goswami	Reviving The Single p-n Junction TFETs	5-Day Online Faculty Development Programme on Advanced Semiconductor Material and Devices	11-01-2022	Micro and Nano devices Research Group, School of Electronics Engineering (SENSE), Vellore Institute of Technology Chennai Campus
Dr Rupam Goswami	The Squirrel's Technique: doing research the 'easy' way	5-Day Faculty Development Programme on 'Research Methodologies and Software based Tools for Research	27-12-2021	Dr. Sudhir Chandra Sur Institute of Technology & Sports Complex, Kolkata, India, Online

Awards/Honours/Notable Achievements

Name of Awardee	Designation of Awardee	Achievement	Event/Awarded by
Dr. Rupam	Assistant Professor	Young Scientist Award 2021	ASTEC, DST Govt of
Goswami			Assam

Other Significant Activities of the Department/Centre (e.g., outreach/extension activities, events organized, etc.)

- Hands-on training STUTI 2022
- ELDES 2022 Webinar series on Electronic Devices and Systems

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
GATE 2021	2	B. Tech.
<i>GATE 2022</i>	2	B.Tech

Notable Placement of Students

Name of Student	Academic	Placement Designation	Company/	Mode of
	Programme		Organization	Selection
Sukrit Jyoti Baruah	B. Tech.	Member Technical Staff	Ziroh Labs	On-Campus
Sneha Deb Roy	B. Tech.	Graduate Trainee	BIAS Info Tech Pvt. Ltd.	On-Campus
Mitali Das	B. Tech.	Graduate Trainee	BIAS Info Tech Pvt. Ltd.	On-Campus
Manisha Rajak	B. Tech.	Graduate Trainee	BIAS Info Tech Pvt. Ltd.	On-Campus
Kingshuk Jyoti Nath	B. Tech.	Associte	Federal Bank	On-Campus
Sonia Kumari	B. Tech.	Application Development Associte	Accenture	On-Campus
Tejan Hazarika	B. Tech.	Application Development Associte	Accenture	On-Campus
Sneha Deb Roy	B. Tech.	Assistant System Engineer- Trainee	TCS	On-Campus
Nishiraj Nath	B. Tech.	Assistant System Engineer- Trainee	TCS	On-Campus
Susmita Mishra	B. Tech.	Assistant System Engineer- Trainee	TCS	On-Campus
Vandana Goyari	B. Tech.		ITC Infotech	On-Campus
Bhargav Jyoti Nath	B. Tech.		ITC Infotech	On-Campus
Jugabrta Nath	B. Tech.		ITC Infotech	On-Campus
Manish Kr Purbey	B. Tech.		ITC Infotech	On-Campus
Himsikhar Deka	B. Tech.	Programmer analyst Trainee	Congnizant Technologies	On-Campus
Susmita Mishra	B. Tech.	Programmer analyst Trainee	Congnizant Technologies	On-Campus
Chiranjib Kashyap	B. Tech.	Programmer analyst Trainee	Congnizant Technologies	On-Campus
Monika Sharma Giri	B. Tech.	Analyst	Capgemini	On-Campus
Rajdeep Das	B. Tech.	Systems Engineer	Infosys	On-Campus
Puja Singh	B. Tech.	Systems Engineer	Infosys	On-Campus
Vikash Kumar Singh	B. Tech.	Project Engineer	Wipro	On-Campus
Tapasi Misra	M. Tech. ELDT	Graduate Trainee	BIAS Info Tech Pvt. Ltd.	On-Campus
Pooja Nath	M. Tech. ELDT	Graduate Trainee	BIAS Info Tech Pvt. Ltd.	On-Campus
Sangeeta Singha	M. Tech. Bio	Graduate Trainee	BIAS Info Tech Pvt. Ltd.	On-Campus
Lakhyajit Gohain	M. Tech. Bio	Graduate Trainee	BIAS Info Tech Pvt.	On-Campus

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			Ltd.	
Mohamad Adil	M. Tech.	Trainee Engineer	Smartsoc Solutions	On-Campus
	ELDT			
Mohamad Adil	M. Tech.	Assistant System Engineer-	TCS	On-Campus
	ELDT	Trainee		
Piyush Thakur	M. Tech.	Programmer analyst Trainee	Congnizant	On-Campus
	ELDT		Technologies	
Deepjyoti Deb	M. Tech.	JRF	Tezpur University	On-Campus
~	ELDT		(Project)	
Shashi Ranjan	M. Tech.	Energy Data analytics	CSIR, Project	On-Campus
D : G :1 :	ELDT			0.0
Pori Saikia	M. Tech. Bio	Trainee	Quess	On-Campus
Sukrit Jyoti	B. Tech.	Member Technical Staff	Ziroh Labs	On-Campus
Baruah Krishanu Dev	D. T1	A	Concernini	On Commun
Sarma	B. Tech.	Analyst	Capgemini	On-Campus
Baishali Ghosh	B. Tech.	Analyst	Capgemini	On-Campus
Pratiksha Boruah	B. Tech.	Graduate Engineer Trainee	Alstom	On-Campus
Sanjana Singha	B. Tech.	Graduate Engineer Trainee	Alstom	On-Campus
Ajanta Das	B. Tech.	Graduate Engineer Trainee	Alstom	On-Campus
Tanisha	M. Tech.	Post Graduate Engineer	Alstom	On-Campus
Choudhury	ELDT	Trainee	7 HStolli	On Campus
Monik Talagatla	B. Tech.	Graduate Engineer Trainee	L&T ECC	On-Campus
Keerthan Reddy	B. Tech.	Analyst Trainee	Cognizant Technologies	On-Campus
Konnela				
Ahmed Murtaza	B. Tech.	Analyst Trainee	Cognizant Technologies	On-Campus
Monjit Chetry	B. Tech.	Analyst Trainee	Cognizant Technologies	On-Campus
Nitumoni Kalita	B. Tech.	Analyst Trainee	Cognizant Technologies	On-Campus
Amar Kumar Sah	B. Tech.	Analyst Trainee	Cognizant Technologies	On-Campus
abhinab saikia	B. Tech.	Analyst Trainee	Cognizant Technologies	On-Campus
Saurav Suman	B. Tech.	Analyst Trainee	Cognizant Technologies	On-Campus
Akshay Kumar	B. Tech.	Project Engineer	Wipro	On-Campus
Monik Talagatla	B. Tech.	Project Engineer	Wipro	On-Campus
Keerthan Reddy	B. Tech.	Project Engineer	Wipro	On-Campus
Konnela				
Monjit Chetry	B. Tech.	Project Engineer	Wipro	On-Campus
Mriganka Kumar	B. Tech.	Project Engineer	Wipro	On-Campus
Kalita				
Nikhil Kumar	B. Tech.	Project Engineer	Wipro	On-Campus
Kamal Das	B. Tech.	Project Engineer	Wipro	On-Campus
Pavan Sai Chitteti	B. Tech.	Project Engineer	Wipro	On-Campus
AMARTYA	B. Tech.	Associte IT Consultant	ITC Infotech	On-Campus
MADHAB	D. T. 1			
KUNAL DAS	B. Tech. B. Tech.	Associte IT Consultant Associte IT Consultant	ITC Infotech ITC Infotech	On-Campus
Akshay Kumar				On-Campus
Siddartha Das Arindom Sharma	M.Tech. M. Tech. Bio	Junior Management Grade I	Federal Bank Federal Bank	On-Campus
Pritirekha Dutta	M. Tech. Bio	Junior Management Grade I	Federal Bank Federal Bank	On-Campus
	M. Tech. ELDT	Junior Management Grade I		On-Campus
Ankita	M. Tech.	Junior Management Grade I	Federal Bank	On-Campus
Bhattacharyya	ELDT	-		
Ayan Chakraborty	B. Tech.		TCS	On-Campus

Ayan Chakraborty	B. Tech.	Associate Software	IQVIA	On-Campus
		Developer		
Gajanand Kasat	B. Tech.	Associate Software	IQVIA	On-Campus
		Developer		_
Hemanta Das	B. Tech.		IGGL	On-Campus
Monik Talagatla	B. Tech.	Associate Software	IQVIA	On-Campus
		Developer		_
Keerthan Reddy	B. Tech.	Graduate Engineer Trainee	L & T Limited	On-Campus
Konnela		_		_
Elura Sonowal	B. Tech.		Federal Bank	On-Campus

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic	Name of other Institute	Enrolled
	Programme (in TU)		Academic
			Programme
Rajesh Mandal	M. Tech. in ELDT	IISC Bangalore	Ph.D
Bipul Chandra Sarkar	M. Tech. in ELDT	IISc, Bangalore	Ph.D.
Deepjyoti Deb	M. Tech. in ELDT	Tezpur University	Ph.D
Subham Ghosh	M. Tech. in ELDT	NIT, Silchar	Ph.D.
Anjana Bharati Subba	M. Tech. in ELDT	NIT, Silchar	Ph.D
Onishaa Saikia	M. Tech. in ELDT	Tezpur University	Ph.D.
Tanaya Das	M. Tech. in Bioelectronics	City University of Hong Kong	Ph.D
Uddipan Hazarika	M. Tech. in Bioelectronics	Tezpur University	Ph.D.
Sohail Ahmed	M. Tech. in ELDT	NIT Silchar	Ph.D.

DEPARTMENT OF ENERGY

About the Department

The Department of Energy has been one of the vibrant academic departments of the University, marking its existence for last 25 years with a mandate to produce qualified human resources in the field of energy. The other objectives of the Department are to carry out research and extension activities in the field of energy, and to develop new and efficient energy technologies. The Department offers a two-year (four semesters) AICTE-approved M. Tech. programme in Energy Technology and Ph. D. in energy-related areas. Apart from teaching and research, the Department also organizes training programmes, workshops, and seminars in the relevant areas of energy. The Faculty of the Department has completed several international collaborative research projects and has ongoing international collaborative projects with several countries, including the UK, Brazil, South Africa, Sweden, Greece, Italy, and Hungary. Currently, the Department has nine externally funded research projects and two consultancy projects, including a distinguished project under IMPRINT (Impacting Research, Innovation and Technology), Government of India.

Academic Programmes and Student Intake

Academic Programme	Student Intake
M.Tech in Energy Technology	35
Ph.D	Variable, 3 in 2021-22

Thrust Research Areas of the Department

- Renewable Energy Resources: Characterization & Sustainable Applications
- Energy Conservation: Advance Management Addressing Sustainability
- New Energy Systems: Advance Materials, Energy Storage & New Sources

Major Facilities/Equipment available

- Gas Chromatograph
- Oxidation Stability Apparatus
- Auto Bomb Calorimeter
- Gas Analyser
- UV VIS (Spectrophotometer)
- Fuel Cell kit
- Computerized Diesel Engine Test Rig
- Micro Hydel Power Generating Equipment
- Dual Fuel Engine
- Petrol Engine Test Rig
- Closed top Gasifier
- Bio diesel pilot plant
- Muffle Furnace
- Grid Tied SPV training system
- Vacuum furnace
- Wind Electric Generator
- Solar Water Heating System
- 1 kW SPV plant for DoE Garden lighting
- GIS Laboratory with hardware and software

- Biogas plant of capacity 50 m³
- Computation Laboratory equipped with Software and 13 Computers
- AdaptNET E-Lab facility equipped with Sever (2TB) and 18 Computers
- Renewable Energy Powered Mobile Eatery "Jivika"

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
	Debendra Chandra Baruah	Ph.D. (PAU, Punjab)	Energy, emission, rural livelihood, waste to energy	baruahd	24-09-2009
Professor	Dhanapati Deka	Ph.D. (Tezpur University)	Biofuel & Bioenergy Systems, Development of Renewable Catalyst	dhanapati	28-07-2011
	Rupam Kataki	Ph.D. (Tezpur University)	Biomass & Biofuel, Energy Environment Interaction	rupam	28-06-2015
Associate Professor	Sadhan Mahapatra	Ph.D. (IISc, Bangalore)	Biomass gasification, Climate responsive buildings, Energy Conservation & Decentralized Energy Options	sadhan	13-09-2010
	Pradyumna Kumar Choudhury	Ph.D. (Tezpur University)	Solar Energy, Hybrid Energy System, Energy Conservation, Instrumentation & Control	pkc	29-07-2016
Assistant Professor	Biraj Kumar Kakati	Ph.D. (IIT, Guwahati)	Fuel Cell & Hydrogen Technology, Electrochemical Energy Systems, Graphene Nanotechnology, Chemical recovery of Precious Metal Catalysts	bkakati	22-09-2014
	Nabin Sarmah	Ph.D. (Heriot- Watt, Edinburgh)	Solar Energy, Photovoltaic, Energy Systems	nabin	22-09-2018
	Vikas Verma	Ph.D. (IIT, Roorkee)	Thermal Engineering,	vikas	12-04-2017
Adjunct Faculty	Sasi K Kottayil	Ph.D. (Jadavpur University)	Smart Microgrids, Solar & Wind Energy, Hybrid Mode of Energy	sasikottayil@g mail.com	01-07-2021

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the current position
Technical Officer	Madhurjya Borah	madtech	03-03-2021
Technical Assistant	Tapanjit Borah	tapanji	06-05-2004

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Laboratory Assistant	Troilokya Lahan	tlahon	05-08-2011
Lower Division Clerk	Polly Rajbonshi	poli227	06-08-2018
Multitasking Staff	Dinesh Bhuyan	dinesh	01-01-1995

Major Research and Development Findings

Faculty/ Researcher	Salient Research Findings
Prof. D. C. Baruah	 Region specific characteristics of renewable energy resources (biomass and solar) for planning and utilization in rural Assam (India) are known. Suitability of some phase change materials as thermal storage for solar hot air generator is known. New feedstock and their pretreatment methods for enhancement of performance of anaerobic decomposition are known
Prof. D. Deka	Algal based Integrated Biorefinery
Prof. D. Deka	Renewable heterogeneous catalyst for lignocellulosic conversion.
Dr. Sadhan Mahapatra	 A single particle combustion study of coal/biomass fuel mixtures is carried out. The results show that the ignition mass flux of saw dust is higher compared to rice husk and wood. The diameter index for flaming and char combustion are 1.13 to 0.47 and 0.63 to 1.23 and the flaming and char combustion decreases with the increases in surface area/volume ratio. Bioclimatic classification has been done for Sri Lanka. The degree days are estimated for 25 locations of Sri Lanka by using Hourly, ASHRAE, UKMO, Schoenau and Kehring, Hitchin Erb methods. Sri Lanka is classified into the cold zone, hot zone, and intermediate climatic zones. The solar passive design potentials are estimated for all the bioclimatic zones
Dr. Vikas Verma	• Solar desalination, Radiant system for space cooling and heating application, Ground source heat pump system
Dr. Nabin Sarmah	 Fault detection of PV module with Thermography technique. Estimation of seasonal soiling losses of PV modules in Assam.

Research Projects (Ongoing and New)

Project Title	Funding Agency	Amount (In INR Lakh)	Duration	Investigator(s)
Multi Crop Residue Processing Technology Package for Production of Fuel & Fertilizer	IMPRINT-SERB	216	2019-22	Prof. D C Baruah (PI) Dr. Nabin Sarmah (Co-PI) Dr Satadru Kashyap, (Co-PI) Dr Durlav Sonowal (Co-PI)
Strengthening education, research, and innovation for climate smart crops in India AdaptNET	EU, Erasmus+	84	2018-22	Prof. D C Baruah (PI) Dr Nirmali Gogoi, (Co-PI) Dr Shailen Deka, (Co-PI) Dr Ratul Kr Baruah (Co-PI)
Design and development of an all-purpose smart biogas reactor for household applications	AICTE	11	2019-22	Prof. D C Baruah
Biomass conversion to Fuels and chemicals	AICTE	23	2019-23	Prof. Rupam Kataki
Rural Hybrid Energy Enterprise Systems	DST-SEED	198	2013-22	Prof. D C Baruah (PI) Dr. Sadhan Mahapatra (Co-PI)
Indo-Hungary International	DST	48.38	2021-24	Prof. Dhanapati Deka

Collaborative Research				
Project				
Development of Spatial Air				
Quality Monitoring System				Dr. Birgi Kumar Kakati (DI)
Using Polymer Electrolyte	AICTE	17.58	2022-25	Dr. Biraj Kumar Kakati (PI) Dr. Nabin Sarmah (Co-PI)
Fuel Cell Powered				DI. Nabili Saliliali (Co-PI)
Unmanned Aerial Vehicle				
Off-grid Solar Power Plant	AICTE	20.00	2021.22	Dr. Sadhan Mahanatur
at Tezpur University	AICTE	20.00	2021-22	Dr. Sadhan Mahapatra
India-UK Centre for				
education & Research in	DST	74.50	2017-22	Dr. Nabin Sarmah
clean energy (IUCERCE)				

Consultancy Projects (Both Ongoing and New)

Project Title	Funding Agency	Amount (In INR Lakh)	Duration	Investigator(s)
Development of a Smart Platform for	SITA, Govt.	29.81	2020-22	Prof. D C
Promotion of Renewable Energy in Assam	of Assam	29.01	2020-22	Baruah
Water quality baseline survey and follow- up monitoring assessment of hydrological and biological status of streams in upper watersheds for Water resource Conservation (COSFOM)	Govt. of Manipur	58.98	2022-27	Prof. Rupam Kataki

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Hiloidhari, M., Vijay, V., Banerjee, R., Baruah, D.C., Rao, A.B. (2021). Energy-carbon-water footprint of sugarcane bioenergy: A district-level life cycle assessment in the state of Maharashtra, India. *Renewable and Sustainable Energy Reviews*, 151:111583.
- Chetia, J., Gogoi, N., Baruah, D.C., Fouassier, N. and Sippel, F. (2021). Potential use of bioenergy power plant residue biochar in mitigating N₂O emission from acidic sandy loam soils: a comparative study. *Environmental Sustainability*, 4(2): 365–373.
- Baruah, D. and Baruah, D.C. (2021). Decision support system-based planning of biomass gasification system for decentralized energy generation. *Renewable Energy Focus*, 38: 22-35.
- Khatua, S., Krishnaraj, C., Baruah, D.C., Van, Der Voort P. and Jena, H.S. (2021). Flexible luminescent non-lanthanide metal-organic frameworks as small molecules sensors. *Dalton Transactions*, 50:14513-14531.
- Daimary, N, Eldiehy, K. S. H., Boruah, P., Deka, D., Bora, U. and Kakati, B. K. (2022). Potato peels as a sustainable source for biochar, bio-oil and a green heterogeneous catalyst for biodiesel production. *Journal of Environmental Chemical Engineering*, 10(1): 107108.
- Bardhan, P., Eldiehy, K. S., Daimary, N., Gohain, M., Goud, V. V., Deka, D. and Mandal, M. (2022) Structural Characterization of Mixed Rice Straw and Deoiled Algal Cake-Based Substrate as a Potential Bioenergy Feedstock for Microbial Lipids and Carotenoid Production. *Waste and Biomass Valorization*, 13(1):195-212.
- Gohain, M., Eldiehy, K. S. H., Bardhan, P., Laskar, K., Phukan, H., Mandal, M., Kalita, D. and Deka, D. (2021). Bio-ethanol production: A route to sustainability of fuel using bio-based heterogeneous catalyst derived from waste. *Process safety and environmental protection*, 146:190-200.

- Mondal, S. C., Sarma, B., Narzari, R., Gogoi, L., Kataki, R., Garg, A. and Gogoi, N. (2022). Role of pyrolysis temperature on application dose of rice straw biochar as soil amendment. *Environmental Sustainability*, 5: 119–128. DOI: https://doi.org/10.1007/s42398-022-00217-w.
- Sohtun, P., Bora, M., Kataki, R. and Saikia. B. K. (2021). Oxidative Synthesis of Activated Carbon from Lowgrade Indian Tertiary Coal and Its Chemical Characterization. *Journal of Nanoand Electronic Physics*, 13(3).
- Bora, N., Jayswal, V. and Kataki, R. (2021). Investigation of the Capacitive Properties of Chemically Activated Sugarcane Bagasse Biochar for Supercapacitor Application. *Journal of Nano- and Electronic Physics*, 13(3).
- Gohain, P. P., Saha, R., Choudhury, M. G., Kataki, R. and Paul, S. (2021). Synthesis of Mixedphase Barium Titanium Oxide (BaTiO3/Ba2TiO4) Perovskite Catalyst for Biofuel Production. *Journal of Nano- and Electronic Physics*, 13(3).
- Bhuyan, N., Choudhury, N. D., Dutta, B. K., Upadhyaya, K., Saikia, N. and Kataki, R.(2021). Assessment of kinetic parameters, mechanisms, and thermodynamics of Tithonia diversifolia pyrolysis. *Biomass Conversion and Biorefinery*. DOI: https://doi.org/10.1007/s13399-021-01575-x.
- Barton, M. A., Simha, P., Magri, M. E., Dutta, S., Kabir, H., Selvakumar, A., Zhou, X., Lv, Y., Martin, T. Kizos T., Triantafyllou, E., Kataki, R., Gerchman, Y., Herscu-Kluska, R., Alrousan, D., Dalahmeh, S., Goh, E. G., Elenciuc, D., Głowacka, A., Korculanin, L., Tzeng, R. V., Sinha, Ray S., Ganesapillai, M., Niwagaba, C., Prouty, C., Mihelcic, J R. and Vinnerås, B. (2021). Attitudes of food consumers at universities towards recycling human urine as crop fertiliser: A multinational survey dataset. *Data in Brief*, 35:106794.
- Kumar, A., Choudhary, R., Kataki, R. and Kumar, A. (2021). Bioasphalt Binders: Introducing Sustainability in a Non- Renewable Road Construction Material, *Civil Engineering & Construction Review*, 34(4), 34-42.
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- Nath, R., Verma, V. and Tarodiya, R. (2022). Optimization of a Radiant System for Hydrothermal Performance Using Taguchi and Utility Concept. *Journal of Thermal Science and Engineering Applications*, 14(2): 021014.
- Tarodiya, R., Verma, V. and Thangavel, S., (2021). A study on utilization of ground source energy for space heating using a nanofluid as a heat carrier. *Heat Transfer*, 50(4):3842 3860.

Publication of Books

- Ghosh, S. K., Nelles, M., Chanakya, H.N. and Baruah, D.C. (ed) (2021). Biomethane through Resource Circularity Research, Technology and Practices, CRC Press, 1st edition.
- Mahapatra, S., Shahbaz, M., Vaccaro, A. and Emilia, Balas V. (2021). *Advances in Energy Technology*. Springer, Singapore, 1st edition.

Publication of Book Chapters

- Baruah, D. C. (2021). Strengthening Research Integrity in Higher Education Institutes. In *Academic Integrity and Research Quality*, pages 88-90. UGC Publication.
- Eldiehy, K S H., Das, V., Borah, D., Mandal, M. and Deka, D. (2021). Strategic approaches to enhance lipid accumulation in microalgae for bioprospecting. In Dalai A., Goud VV, Nanda S and Borugadda V B. Routledge, editors, *Algal Biorefinery Developments, Challenges and Opportunities*, pages 50-84, ISBN 9780367570057. Taylor & Francis Group, London.

- Bhuyan, N., Borah, M. J., Bora, N., Saikia, D., Deka, D. and Kataki, R. (2021). Heterogeneous Nanocatalytic Conversion of Waste to Biodiesel. In *Nano- and Biocatalysts for Biodiesel Production*, pages 249–277. ISBN: 9781119730002. John Wiley & Sons.
- Gupta, K., Bardhan, P., Rather, M. A., Saikia, D., Loying, S., Mandal and M., Kataki, R. (2022). Microbes in Resource and Nutrient Recovery via Wastewater Treatment. In Verma P., editors, *Industrial Microbiology and Biotechnology*, pages 643-665, ISBN: 978-981-16-5213-4. Springer, Singapore
- Gupta, K., Bardhan, P., Saikia, D., Rather, M A., Loying, S., Mandal, M.and Kataki, R. (2022). Microbial Fermentation: Fundamentals and Its Dynamic Prospect in Various Industrial Applications. In Verma P., editor, *Microbiology and Biotechnology*, volume 32, page 5, ISBN: 978-981-16- 5213-4. Springer, Singapore.
- Sarma, B., Gogoi, L., Gogoi and N., Kataki, R. (2022). Crop Plants Under Metal Stress and Its Remediation. In Roy S, Mathur P, Chakraborty AP, Saha SP., editors, *Plant Stress: Challenges and Management in the New Decade*, pages 57-71, ISBN: 978-3-030-95365-2. Springer Nature.
- Deka, A., Bardhan, P., Mandal, M. and Kataki, R. (2022). Nano-biomaterials as a Potential Tool for Futuristic Applications. In Chaudhery MH, Paolo DS., editors, *Handbook of Smart Materials, Technologies, and Devices*, pages 1-33, ISBN: 978-3-030-58675-1. Springer, Singapore
- Bardhan, P., Deka, A., Bhattacharya, S. S., Mandal, M. and Kataki, R. (2022). Economical aspect in biomass to biofuel production. In Yusup S, Rashidi NA., editors, *Value-Chain of Biofuels: Fundamentals, Technology, and Standardization*, pages 395-427, ISBN: 978-0-12-824388-6. Elsevier.
- Kataki, R. and Kataki, M. D. (2022). Weeds as a renewable bioresource: prospects for bioconversion to biofuels and biomaterials through a cascade of approaches. In Gurunathan B, Sahadevan R, Zakaria ZA., editors, *Biofuels and Bioenergy -Opportunities and Challenges*, pages 437-461, ISBN: 978-0-323-85269-2. Elsevier.
- Gogoi, L., Narzari, R., Chutia, R. S., Borkotoki, B., Gogoi, N. and Kataki, R. (2021). Remediation of heavy metal contaminated soil: Role of Biochar. In *Advances in Chemical Pollution, Environmental Management and Protection*, volume 7, pages 39-63, ISSN: 2469-9289. Elsevier.
- Bhuyan, N., Bora, N., Narzari, R., Boruah, K. and Kataki, R. (2021). Thermo-Catalytic Conversion of Non-Edible Seeds (Extractive-Rich Biomass) to Fuel Oil. In Shadangi KP., editor, *Liquid Biofuels: Fundamentals, Characterization, and Applications*, pages 285-360, ISBN:9781119791980. Willey.
- Bhuyan, N., Dutta, A., Mohan, R., Bora, N. and Kataki, R. (2021). Advances in Nanotechnology for Biofuel Production. In Praveen Kumar R, Bharathiraja B., editors, *Nanomaterials: Application in Biofuels and Bioenergy Production*, pages 533-562, ISBN: 9780128224014. Elsevier.
- Bordoloi, N., Narzari, R., Choudhury, P. K. and Kataki, R. (2021). Bioconversion of Food Waste into Biogas. In Inamuddin, Khan A., editors, *Sustainable Bioconversion of Waste to Value Added Products*, pages 81-94, ISBN: 978-3-030-61836-0. Springer.
- Mazumdar, N..J, Kataki, R. and Pant, K. K. (2021). Furfural and Chemical Routes for its Transformation into Various Products. In Pant K.K, Gupta S.K, Ahmad E., editors, *Catalysis for Clean Energy and Environmental Sustainability: Biomass Conversion and Green Chemistry*, pages 705-719, ISBN: 978-3-030-65016-2. Springer.
- Choudhury, N. D., Bhuyan, N., Narzari, R., Saikia, R., Seth, D., Saha, N. and Kataki, R. (2021). Various conversion techniques for the recovery of value-added products from tea waste. In Bhat

R., editors, *Valorization of Agri-Food Wastes and By-Products*, pages 237-265, ISBN: 978-0-12-824044-1. Elsevier.

Publication of Articles in Conference Proceedings

- Dev Choudhury, N., Saha, N. and Kataki, R. (2021). A study on the improvement of cold flow behavior and thermal-oxidation stability of Camellia sinensis assamica (tea) oil lubricants as industrial lubricant. In *IOP Conference Series: Materials Science and Engineering*, Volume 1070, no. 1, pages 012124. IOP Publishing.
- Saha, A. C., Verma, V., Tarodiya, R., Mahboob, M. R. and Kumar, R. (2021). Analytical modelling of a radiant cooling system for thermal performance analysis. In *Materialstoday Proceeding*, volume 47, pages 2474 2480, Bengaluru, Elsevier.
- Thangavel, S., Verma, V., Tarodiya, R. and Kaliyaperumal, P. (2021). A study on optimization of horizontal ground heat exchanger parameters for space heating application. In *Materialstoday Proceeding*, volume 47, pages 2293 2298, Bengaluru, Elsevier.
- Saikia, S, Verma, V., Kakati, B. K., Thangavel, S. and Tarodiya, R. (2022). Optimization of solar integrated electrolyser system for hydrogen production using Taguchi method. In *Materialstoday Proceeding*, volume 49, pages 397 402, Bengaluru, Elsevier.
- Sarma, R., Tamuly, A. and Kakati, B.K. (2022). Recent developments in electricity generation by Microbial Fuel Cell using different substrates. In *Materials Today: Proceedings*, volume 49, pages 457-463, Elsevier.
- Thangavel, S., Verma, V., Tarodiya, R. and Kaliyaperumal, P. (2021). Comparative analysis and evaluation of different working fluids for the organic rankine cycle performance. In Materialstoday *Proceeding*, volume 47, pages 2580 2584, Bengaluru, Elsevier.
- Lakhanlal and Kakati, B.K. (2022). Synthesis of nitrogen and sulfur-nitrogen co-doped carbonbased oxygen reduction reaction catalyst from rice straw and reeling waste of muga silk (Anthraea assamensis). In *Materials Today: Proceedings*, volume 54 (03), pages 628-636. Elsevier.

Publication of Articles in Other Forms

• NIRF2021: An analysis, Baruah, D. C., The Assam Tribune, September 29, 2021

Name of Faculty/Staff Member	Purpose of Attending	Title of Event	Date/Period	Organizer and Venue
Prof. D. Deka	Participation	Leadership for Academicians Programme (LEAP)	December 5-10, 2021	University of Pennsylvania, USA (PENN) -Offline.

Conference/Workshop/Symposium/Seminar etc. Attended

Invited Talk

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue
Prof. D. C.	Importance of data	Skill Development	15-03-2022	Department of
Baruah	for Sustainable	through Impact		Agricultural Statistics and
	Development of	Analysis of Emerging		Department of
	Agriculture	Data with Agricultural		Agricultural Engineering
		Technology in		of Assam Agricultural
		Population Sciences		University, Jorhat, Assam

Prof. D. C.	Energy for Peace	1 st Online Program of	06-03-2022	in association with Indian Agricultural Statistics Research Institute (IASRI), ICAR / Online Axomiya Club, Tezpur
Baruah	and Development	Axomiya Club, Tezpur		online
Prof. D. C. Baruah	NAAC Accreditation: Reflection of Institutional Quality	NAAC Revised Accreditation Framework (RAF): Its Relevance in the Present Higher Education Paradigm in India	01-03-2022	S. S. College, Hailakandi, Assam College Development Council, Assam University, Silchar / Online
Prof. D. C.	Energy	Training Programme	21-12-2021	KVK, Sonitpur, Napam
Baruah	conservation opportunities in crop production	for input dealers of Assam		
Prof. D. C. Baruah	Development of Indigenous Technology in Energy Security in the context of Assam	Vigyan Utsav	20-12-2021	Assam Science Technology and Environment Council, Guwahati
Prof. D. C. Baruah	Empowering the Youth of Northeast India Through the Advancement of Technology and Skill	Two-Day Youth Conclave	09-12-2021	Chandraprabha Saikiani Centre for Women Studies Tezpur University/ Academic Council Hall, Tezpur University
Prof. Rupam Kataki	Biowaste Biorefinery – Recovery of Bioenergy and Biomaterials	ICAR sponsored winter school on Crop Residues utilization and management for clean energy and environment	23 Feb - 15 March, 2022	Agricultural Energy and Power Division of ICAR-Central Institute of Agricultural Engineering, Bhopal, MP, India.
Prof. Rupam Kataki	Biorefinery approach for biowaste Valorization	International Environmental Engineering Webinar Series (Enviro Web talk 2021)	17-22 May, 2021	School of Civil Engineering, Lovely Professional University, Punjab, India.
Prof. Rupam Kataki	Biowaste to bioenergy & biomaterials: An approach towards circular economy.	International Conference on Biotechnology for Sustainable Agriculture, Environment and Health (BSAEH 2021)	04-08 April, 2021	Malaviya National Institute of Technology, Jaipur and the Biotech Research Society, India at Jaipur, India
Dr. Sadhan Mahapatra	-	Faculty Induction Programme	01-09-2021	Teaching Learning Center, Tezpur University
Dr. Sadhan	Appropriate	State Level Resource	05-07-2021	ASTEC, Guwahati

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Mahapatra	Technology for	Person Training	
	Sustainable Living	Workshop	

Awards/Honours/Notable Achievements

Name of Awardee	Designation of Awardee	Achievement	Event/Awarded by
Prof. D C Baruah	Faculty member	Received formal offer	Alternate Energy Division,
		for collaboration in the	Indian Oil Corporation Limited
		areas of bio-CBG	
Dr. Vikas Verma	Faculty member	Best Paper Award	International Conference on
			material and System
			Engineering- (ICMSE-2021)

Other Significant Activities of the Department/Centre

- As part of the Azadi Ka Amrit Mahotsav Celebration of the Department of Energy, a Workshop on Biogas System: Multifaceted benefits through Community participation is organized on 16th March 2022 at Jhawani village, Sonitpur, Assam, Co-ordinated by Prof. D. C. Baruah
- As part of the Azadi Ka Amrit Mahotsav Celebration of the Department of Energy, Prof Subhas C Bhattacharyya, De Montfort University, UK delivered the Distinguished Lecture 1 on 'Net Zero Emissions and the role of Research in Universities' on 16th December 2021, Co-ordinated by Dr. S. Mahapatra
- A workshop on 'Good Academic Research Practices (GARP)' was organized as a part of the celebrations of 'Azadi Ka Amrit Mahotsav' in the Department of Energy on 9th December 2021, Co-ordinated by Dr. N. Sarmah
- As part of its Silver Jubilee celebration, an e-conclave on "Promotion of Biogas through SATAT and GOBARDHAN: Aspiration and Roadmap for Northeast INDIA" [pratidintime, nenow, etvbharat, eastnews] is organized during 30-31 August, 2021, Co-ordinated by Prof. D. C. Baruah
- As part of the Silver Jubilee Celebration of the Department, a series of Alumni Talk, is organized in virtual mode (Google meet) starting from 12th April, 2021to 7th January 2022, Co-ordinated by Dr. S. Mahapatra.
- A workshop on 'Green House Gas Mechanisms & SD Vista' was organized as a part of the celebrations of 'Azadi Ka Amrit Mahotsav' in the Department of Energy on 7-8th February 2022, Co-ordinated by Dr. N. Sarmah

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
GATE	01	M.Tech in Energy Technology
NET	01	M.Tech in Energy Technology

Notable Placement of Students

Name of Student	Academic Programme	Placement Designation	Company/ Organization	Mode of Selection
Debarshi Das	M.Tech in Energy Technology	Manager	Brightspark India Pvt. Ltd.	Off-Campus
Chandan Kumar Sah	M.Tech in Energy Technology	Associate	Brightspark India Pvt. Ltd.	Off-Campus

Enrollment of Students in other	Institutes for Higher Studies
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Name of Student	Academic Programme	Name of other Institute	Enrolled Academic Programme
Avik Ghosh	M.Tech in Energy Technology	IIT, Hyderabad	Ph.D
Bikram Chakraborty	M.Tech in Energy Technology	NIT, Agartala	Ph.D

DEPARTMENT OF FOOD ENGINEERING AND TECHNOLOGY

About the Department

The Department of Food Engineering and Technology (FET) was established in the year 2006 with the aim of creating skilled human resources in the engineering aspect of food processing in order to cater to the needs of the rapidly growing food processing sector. Since its inception the Department has been imparting Post Graduate education in food processing and technology. The B. Tech. programme in Food Engineering and Technology (FET) is approved by the All India Council for Technical Education (AICTE) and has the accreditation of the National Board of Accreditation (NBA) as a Tier-I programme. The M. Tech. in Food Engineering and Technology (FET) is also approved by the AICTE. AICTE offers PG Scholarship to GATE qualified students joining the M. Tech. programme of the Department. The Department also offers Ph.D. in Food Engineering and Technology and students may be admitted through AICTE Doctoral Fellowship (ADF), NET/JRF, GATE etc.

The department has well-developed laboratories for teaching and research created from grants received from various agencies viz., HRD grant from the Ministry of Food Processing Industries (MoFPI), Govt. of India, grant under the FIST programme (Level I) from the Department of Science and Technology (DST), grant under the UGC-SAP (DRS-I) programme of the University Grant Commission, and grant under the NEQIP Scheme of the AICTE. To cater the requirements of testing nutritional parameters of various food items by food industries and with the support from the MoFPI, the Department has established NABL accredited Food Quality Control Laboratory (FQCL). The Department has been recognized as the State Level Technical Institute (SLTI) for Assam and Meghalaya under the PM-FME scheme (PM Formalization of Micro food processing Enterprises Scheme) of Ministry of Food Processing Industries (MoFPI), GoI, New Delhi.

Research activities at the Department are supported by sponsoring agencies like UGC, MoFPI, DST, DBT, DRDO, ICAR, AICTE, MSME, ASTEC, etc. Various projects carried out at the Department aims at developing effective and low-cost technologies for the society. Some developed food products and processes have also been patented by the faculties. Workshops, conferences and seminars are organized regularly in the Department to share knowledge among peers to motivate local youths to start their own enterprises.

Academic Programme	Student Intake
B. Tech in in Food Engineering & Technology	56
M. Tech in Food Engineering & Technology	23
PhD in Food Engineering & Technology	Variable, 15 in 2021-22

Academic Programmes and Student Intake

Thrust Research Areas of the Department

- Thrust Area-I Value addition of convenience foods
- Thrust Area-II Process Engineering for desired food product characteristics.
- Sub Area-I: Development of low moisture food products (powder, puffed, extruded, dehydrated foods)
- Subarea-II: Development of liquid and semi-liquid food with desired properties
- Sub Area-III: Mechanistic model for designed product properties
- Sub Area-IV: Development of machinery for traditional food products

Major Facilities/Equipment available

- One dedicated library with more than 200 no's of books
- Computer laboratory with more than 30 computers with licensed software like MATLAB
- Hunter Color Spectrophotometer (Hunter Lab, USA)
- Texture Analyser (Stable Micro System, UK)
- Freeze Dryer (Lyolab, India)
- HPLC (Waters, USA)
- Modified atmospheric packaging unit (Vacstar, Sweden),
- DSC-TGA (Netzsch, Germany)
- Encapsulator (Buchi, Switzerland)
- Gas pycnometer (Porous Materials Inc., USA)
- Fermenter (Sartorius, Germany)
- Supercritical fluid extraction system (Waters, USA)
- Rheometer (Anton Paar, Austria)
- PCR (Eppendorf, USA)

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
	Charu Lata Mahanta	PhD (CFTRI, Mysore)	Food Biochemistry, Fermented Foods, Food Quality	charu	07-03-2006
	Sankar Chandra Deka	PhD (HAU, Hissar)	Rice Sc. & Tech. ,Product Development ,Product Quality	sankar	29-09-2009
	Manuj Kumar Hazarika	PhD (IIT- Kharagpur)	Process modeling, Dairy and Food Process Engineering.	mkhazarika	16-04-2015
Professor	Brijesh Srivastava	PhD (IIT- Kharagpur)	Food Process Engineering; F&V Processing	brijesh	19-08-2016
	Nandan Sit	PhD (Tezpur University)	Food & Biochemical Engg, Food Biotechnology	nandan	26-08-2017
	Poonam Mishra	PhD (Tezpur University)	Food Technology	poonam	21-09-2020
	Laxmikant Shivnath Badwaik	PhD (Tezpur University)	Food Technology, Fermentation Technology, Food Safety & Laws.	badwaik	24-06-2020
	Amit Baran Das	PhD (IIT Guwahati)	Food Processing, Food Engineering	amittu	13-12-2012
Assistant Professor	Nishant Rachayya Swami Hulle	PhD (IIT- Kharagpur)	Food Process Technology, Non thermal processing , Product Development	nishant	12-01-2017
	Tabli Ghosh	Ph.D.	Edible food packaging,	tabli	16-12-2021

	(IIT Guwahati)	Food processing, Biobased secondary packaging, Food nanotechnology, Active packaging		
Nickhil C	Ph.D. (ICAR-IARI, New Delhi)	Food process engineering, Grain storage and structures, Fruits and vegetable processing and machineries	nickhil	17-12-2021
Soumya Ranjan Purohit	PhD (IIT- Kharagpur)	Food bioprocessing, Rice chemistry and technology, Value addition of local crops	srpurohit	10-03-2022

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in</email>	0	
			current position	
Technical Officer	Dr. Dipankar Kalita	dkalita	10-08-2010	
Senior Technical Assistant	Dr. Arup Jyoti Das	arupdas	09-10-2015	
Technician	Labadeep Kalita	labadeep	03-07-2009	
Laboratory Assistant	Swdwmsri Mushahary	swdwm26	01-06-2017	
Multi-Tasking Staff	Anjan Keot	akeot	11-01-1995	

Research Projects (both Ongoing and New)

Project Title	Funding	Amount	Duration	Investigator(s)
	Agency	(in INR)		
Usability of smart phone to evaluate the	LSRB-	22.53842	2018-2021	Prof. Poonam
efficiency of polyaniline based sensor for	DRDO	lakhs		Mishra
indication of freshness of fish fillets during				
chemical spoilage				
Development of anti-inflammatory functional	MoFPI,	27.7094	2019-2021	Prof. S.C.
food from 'Norabogori' (Prunus persica) of	New Delhi	lakhs		Deka
Assam				
Ultrasound assisted rapid immobilization of	AICTE, New	21.10	2019-2022	Prof. Nandan
pectinase on solid support for juice	Delhi	lakhs		Sit
clarification				
Non-thermal pulsed light processing of fresh	AICTE,	25.00	2019-2022	Prof. B.
cut fruits of NE India: A novel hurdle	New Delhi	lakhs		Srivastava
approach for predicting enhanced shelf life				
and nutritional quality				
Solar greenhouse drying system for the	AICTE,	25.00	2019-2022	Prof. M.K.
production of "no cooking" rice from Assam	New Delhi	lakhs		Hazarika
and product quality modelling during storage				
Phytochemical profiling and valorization of	MoFPI,	41.48	2021-2023	Prof. Poonam
Pomelo fruit of Northeast India	New Delhi	lakhs		Mishra
Non-thermal processing of Assam lemon	ASTEC,	1.98	2022-2023	Dr. Nishant R.
juice using ozone processing	Assam	lakhs		Swami Hulle

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Pathaw, P. M. S., Mahanta, C. L., & Bhattacharya, S. (2021). Characteristics of gluten-free rice batter and baked cake made from the flour of heat-moisture-treated paddy of pigmented rice. Journal of Food Processing and Preservation, 45(3): e15206.
- Singamayum, K., Chakraborty, S., Das, M. J., Sit, N., & Deka, S. C. (2021). Wheat and Cassava Flour-Based Composite Formulation of Cookies: Optimization of the Ingredient's Level by Simplex Lattice Design and Sensory Evaluation Using Fuzzy Logic. Journal of Biosystems Engineering, 46(1): 93-103.
- Muchahary, S., & Deka, S. C. (2021). Impact of supercritical fluid extraction, ultrasound-assisted extraction, and conventional method on the phytochemicals and antioxidant activity of bhimkol (Musa balbisiana) banana blossom. Journal of Food Processing and Preservation, 45(7): e15639.
- Sasikumar, R., Das, A. J., & Deka, S. C. (2021). In vitro cytoprotective activity of cyanidin 3glucoside extracts from Haematocarpus validus pomace on streptozotocin induced oxidative damage in pancreatic β-cells. Saudi Journal of Biological Sciences, 28(9): 5338-5348.
- Khurshida, S., Das, M. J., Deka, S. C., & Sit, N. (2021). Effect of dual modification sequence on physicochemical, pasting, rheological and digestibility properties of cassava starch modified by acetic acid and ultrasound. International Journal of Biological Macromolecules, 188, 649-656.
- Samyor, D., Deka, S. C., & Das, A. B. (2021). Physicochemical and phytochemical properties of foam mat dried passion fruit (Passiflora edulis Sims) powder and comparison with fruit pulp. Journal of food science and technology, 58(2): 787-796.
- Gupta, V., Thakur, R., & Das, A. B. (2021). Effect of natural deep eutectic solvents on thermal stability, syneresis, and viscoelastic properties of high amylose starch. International Journal of Biological Macromolecules, 187, 575-583.
- Rohilla, S., & Mahanta, C. L. (2021). Optimization of extraction conditions for ultrasoundassisted extraction of phenolic compounds from tamarillo fruit (Solanum betaceum) using response surface methodology. Journal of Food Measurement and Characterization, 15(2): 1763-1773.
- Chutia, H., & Mahanta, C. L. (2021). Influence of cold plasma voltage and time on quality attributes of tender coconut water (Cocos nucifera L.) and degradation kinetics of its blended beverage. Journal of Food Processing and Preservation, 45(4): e15372.
- Das, A., Bora, B. N., Chutia, H., & Lata Mahanta, C. (2021). Processing of minerals and anthocyanins-rich mixed-fruit leather from banana (Musa acuminata) and sohiong (Prunus nepalensis). Journal of Food Processing and Preservation, 45(9): e15718.
- Gupta, A. K., Mishra, P., Senapati, M., & Sahu, P. P. (2021). A novel electrochemical device for naringin quantification and removal from bitter variety of citrus fruits. Journal of Food Engineering, 306, 110637.
- Gupta, A. K., Dhua, S., Sahu, P. P., Abate, G., Mishra, P., & Mastinu, A. (2021). Variation in phytochemical, antioxidant and volatile composition of pomelo fruit (Citrus grandis (L.) osbeck) during seasonal growth and development. Plants, 10(9): 1941.
- Chakraborty, S., Gautam, S. P., Sarma, M., & Hazarika, M. K. (2021). Adaptive neuro-fuzzy interface system and neural network modeling for the drying kinetics of instant controlled pressure drop treated parboiled rice. Food Science and Technology International, 27(8): 746-763.
- Gautam, S. P., Chakraborty, S., Narjary, A., Deka, J., & Hazarika, M. K. (2021). Application of Instant Decompression-Assisted Steam Curing for Improving Turmeric (Curcuma longa L.) Powder Quality. Journal of Biosystems Engineering, 46(3): 305-315.

- Makinei, L. V., Rizwana, S., & Hazarika, M. K. (2021). Application of flavor network principle of food pairing to Assamese cuisine from North East India. International Journal of Gastronomy and Food Science, 26: 100426.
- Changmai, N. J., & Badwaik, L. S. (2021). Effect of polyvinyl alcohol, starch and modified bee wax on properties of sweet lime pomace based biodegradable containers. Journal of Packaging Technology and Research, 5(2): 107-114.
- Deka, D., & Swami Hulle, N. R. (2021). Supercritical fluid extraction of Bhut Jolokia oleoresin and its quality analysis. SN Applied Sciences, 3(2): 1-12.
- Watharkar, R. B., Chakraborty, S., Srivastav, P. P., & Srivastava, B. (2021). Foaming and foam mat drying characteristics of ripe banana [Musa balbisiana (BB)] pulp. Journal of Food Process Engineering, 44(8): e13726.
- Roy, J., Bhattacharya, S., Sahu, P. P., & Das, A. B. (2021). Physical, mechanical, and electrical properties of rice starch-based films plasticised by ionic liquid. Indian Chemical Engineer, 1-12.
- Das, A. B., Goud, V. V., Das, C., & Sahu, P. P. (2021). Development of Colorimetric pH Indicator Paper Using Anthocyanin for Rapid Quality Monitoring of Liquid Food. Journal of Packaging Technology and Research, 5(1): 41-49.
- Jha, A. K., & Sit, N. (2021). Extraction of bioactive compounds from plant materials using combination of various novel methods: A review. Trends in Food Science & Technology.
- Jha, A. K., & Sit, N. (2021). Comparison of response surface methodology (RSM) and artificial neural network (ANN) modelling for supercritical fluid extraction of phytochemicals from Terminalia chebula pulp and optimization using RSM coupled with desirability function (DF) and genetic algorithm (GA) and ANN with GA. Industrial Crops and Products, 170: 113769.
- Chutia, H., & Mahanta, C. L. (2021). Green ultrasound and microwave extraction of carotenoids from passion fruit peel using vegetable oils as a solvent: Optimization, comparison, kinetics, and thermodynamic studies. Innovative Food Science & Emerging Technologies, 67: 102547.
- Marboh, V., & Mahanta, C. L. (2021). Physicochemical and rheological properties and in vitro digestibility of heat moisture treated and annealed starch of sohphlang (*Flemingia vestita*) tuber. International Journal of Biological Macromolecules, 168: 486-495.
- Chutia, H., & Mahanta, C. L. (2021). Properties of starch nanoparticle obtained by ultrasonication and high pressure homogenization for developing carotenoids-enriched powder and Pickering nanoemulsion. Innovative Food Science & Emerging Technologies, 74: 102822.
- Das, A., & Sit, N. (2021). Modification of taro starch and starch nanoparticles by various physical methods and their characterization. Starch-Stärke, 73(5-6): 2000227.
- Acharjee, A., Afrin, S. M., & Sit, N. (2021). Physicochemical, textural, and rheological properties of yoghurt enriched with orange pomace powder. Journal of Food Processing and Preservation, 45(2): e15193.
- Vivek, K., Subbarao, K. V., & Srivastava, B. (2021). Effect of thin-layer drying on the quality parameters of persimmon slices. International Journal of Fruit Science, 21(1): 587-598.
- Devi, M. B., & Deka, S. C. (2022). Physicochemical properties and structure of starches of foxnut (Euryale ferox Salisb.) from India and its application. Journal of Food Processing and Preservation, 46(2): e16262.
- Dhua, S., Gupta, A. K., & Mishra, P. (2022). Aerogel: Functional Emerging Material for Potential Application in Food: a Review. Food and Bioprocess Technology, 1-26.
- Das, T., Das, P., Gupta, A. K., & Mishra, P. (2022). Fabrication of flaxseed extracted gel and gellan gums containing functional sol and its application on the storage stability of matured banana. Journal of Food Processing and Preservation, 46(2): e16235.

- Gupta, A. K., Das, S., Sahu, P. P., & Mishra, P. (2022). Design and development of IDE sensor for naringin quantification in pomelo juice: An indicator of citrus maturity. Food chemistry, 377: 131947.
- Devi, L. S., Das, A. J., & Das, A. B. (2022). Characterization of high amylose starchmicrocrystalline cellulose based floatable gel for enhanced gastrointestinal retention and drug delivery. Carbohydrate Polymer Technologies and Applications, 3: 100185.
- Singha, P., Rani, R., & Badwaik, L. S. (2022). Sweet lime peel-, polyvinyl alcohol-and starchbased biodegradable film: preparation and characterization. Polymer Bulletin, 1-17.
- Sharma, M., Dash, K. K., & Badwaik, L. S. (2022). Physicochemical and release behaviour of phytochemical compounds based on black jamun pulp extracts-filled alginate hydrogel beads through vibration dripping extrusion. International Journal of Biological Macromolecules, 194: 715-725.
- Das, M., Devi, L. M., & Badwaik, L. S. (2022). Ultrasound-assisted extraction of pumpkin seeds protein and its physicochemical and functional characterization. Applied Food Research, 100121.
- Neog, B., Das, J. K., Vijayakumar, A., & Badwaik, L. S. (2022). Development and characterization of edible films made with Indian jujube fruit puree and pectin. Journal of Food Process Engineering, 45(3): e13977.
- Marboh, V., & Mahanta, C. L. (2022). Substituting wheat flour with sohphlang (Flemingia vestita) flour: Impact on rheological, physicochemical, antioxidant and antifungal properties of cakes. International Journal of Gastronomy and Food Science, 100546.
- Marboh, V., Gayary, M. A., Gautam, G., & Mahanta, C. L. (2022). Comparative Study of Heat-Moisture Treatment and Annealing on Morphology, Crystallinity, Pasting, and Thermal Properties of Sohphlang (Flemingia vestita) Starch. Starch-Stärke, 2100294.
- Sarkar, P., Haokip, N., Mahanta, C. L., & Duary, R. K. (2022). Vibrational and fluorescence spectroscopy mapping structural rearrangement in edible Samia ricini (Eri) pupae proteins during ultrasound assisted extraction and their in-depth proteome profiling.
- Das, A. J., Das, M. K., Singh, S. P., Saikia, P. P., Singh, N., Islam, J., ... & Deka, S. C. (2022). Synthesis of salicylic acid phenylethyl ester (SAPE) and its implication in immunomodulatory and anticancer roles. Scientific Reports, 12(1): 1-18.
- Samyor, D., Calderwood, D., Carey, M., Das, A. B., Green, B. D., & Deka, S. C. (2022). Dipeptidyl peptidase-4 (DPP-4) inhibitory activity and glucagon-like peptide (GLP-1) secretion in arsenically safe pigmented red rice (Oryza sativa L.) and its product. Journal of Food Science and Technology, 1-9.
- Kumari, T., Das, A. B., & Deka, S. C. (2022). Impact of extraction methods on functional properties and extraction kinetic of insoluble dietary fiber from green pea peels: A comparative analysis. Journal of Food Processing and Preservation, 46(4): e16476.
- Khurshida, S., & Deka, S. C. (2022). Application of microwave and hydrothermal treatments for modification of cassava starch of Manipur region, India and development of cookies. Journal of Food Science and Technology, 59(1): 344-354.
- Mahnot, N. K., & Mahanta, C. L. (2022). Tender coconut water processing: hurdle approach, quality, and accelerated shelf-life measurements. Journal of Food Measurement and Characterization, 16(1): 102-113.
- Makroo, H. A., Srivastava, B., & Jabeen, A. (2022). Influence of mild electric field (MEF) on polyphenol oxidase and quality attributes of pineapple juice during ohmic heating. LWT, 156: 113021.

- Thakur, R., Gupta, V., Dhar, P., Deka, S. C., & Das, A. B. (2022). Ultrasound-assisted extraction of anthocyanin from black rice bran using natural deep eutectic solvents: Optimization, diffusivity, and stability. Journal of Food Processing and Preservation, 46(3): e16309.
- Devi, L. M., & Badwaik, L. S. (2022). Influence of temperature, time and alkali concentration on protein extraction from muskmelon seed meal. Indian Chemical Engineer, 64(2): 219-226.
- Priyadarshi, R., Roy, S., Ghosh, T., Biswas, D., & Rhim, J. W. (2021). Antimicrobial nanofillers reinforced biopolymer composite films for active food packaging applications-a review. Sustainable Materials and Technologies, e00353.
- Ghosh, T., Priyadarshi, R., de Souza, C. K., Angioletti, B. L., & Rhim, J.W. (2022). Advances in pullulan utilization for sustainable applications in food packaging and preservation: A mini-review. Trends in Food Science & Technology, 125, 43-53
- Priyadarshi, R., Purohit, S. D., Roy, S., Ghosh, T., Rhim, J. W., & Han, S. S. (2022). Antiviral Biodegradable Food Packaging and Edible Coating Materials in the COVID-19 Era: A Mini-Review. Coatings, 12(5), 577.

Publication of Books

• Mishra, P., and Sahu, P.P. (2021). *Biosensor in Food Safety and Quality: Fundamental and application*. Taylor and Francis.

Publication of Book Chapters

- Mishra, P., A K G, Koch, P., and Yadav, A. (2021). Piezoelectric Biosensors: Principle, Techniques, and Their Application in Food Analysis Piezoelectric Biosensors. In Mishra, P., and Sahu, P.P. editors, *Biosensors in Food Quality and Safety: Fundamental and Application*, Taylor and Francis.
- Mishra, P., Yumnam, M, Gupta, A.K., Koch, P., and Medh, M. (2021). Feasibility of Biosensors. In Mishra, P., and Sahu, P.P. editors, *Biosensors in Food Quality and Safety: Fundamental and Application*, Taylor and Francis.
- Mishra, P., Medhi, M., Yumnam, M., Gupta, A.K., Koch, P. (2021). Detection of Heavy Metals in Water Using Biosensor. In Mishra, P., and Sahu, P.P. editors, *Biosensors in Food Quality and Safety: Fundamental and Application*, Taylor and Francis.
- Mishra, P., Gupta, A.K., Koch, P., Yumnam, M., Medhi, M., Madufor, N.J., U. L. Opara. U.L. (2021). Biosensors Involved in Fruit and Vegetable Processing Industries. In Mishra, P., and Sahu, P.P. editors, *Biosensors in Food Quality and Safety: Fundamental and Application*, Taylor and Francis.
- Sahu, P.P., Senapati, M., Singhal, S., Gupta, A.K., Sonowal, D., Mishra, P. (2021) Bio/Chemical Sensors and Microsensors Involved in Meat Industry. In Mishra, P., and Sahu, P.P. editors, *Biosensors in Food Quality and Safety: Fundamental and Application*, Taylor and Francis.
- Bora, J., Tongbram, T., Mahnot, N., Mahanta, C.L., Badwaik, L.S., (2021). *Tocopherol*, In Kour, J., and Nayik, G. Nutraceuticals and Health Care, 259-278, Academic Press.
- Talukdar, P., Das, P.P., and Hazarika, M.K. (2021). Study of Refractance Window Dried Shredded Carrot and Analysis of Its Physical Properties. In Carvajal-Millan, E, Yaser, A.Z., and Haghi, A.K. *Natural Food Products and Waste Recovery*, pp. 117-138, Apple Academic Press.
- Nongmaithem, S. D., & Swami Hulle, N. R. (2022). Nanostructures for improving food structure and functionality. In Food, Medical, and Environmental Applications of Nanomaterials (pp. 231-252). Elsevier.

Publication of Patents

Inventor(s)	Patent Title		Publishe/	Country
		Patent Number	Granted	
Manas Jyoti Das and	A process for manufacturing bottle	2020103333	Granted	Australia
Sankar Chandra Deka	gourd juice			
Brijesh Srivastava and	A process for manufacture of turmeric	366731	Granted	India
Dipsikha Kalita	powder from raw turmeric rhizomes			

Awards/Honours/Notable Achievements

Name of	Designation	Achievement	Event/Awarded by
Awardee	of Awardee		
Dr. Poonam	Professor	SRISTI GYTI AWARD 2021 for the	Gandhian Young
Mishra		project entitled "Battery Less	Technological Innovation
		Electrochemical Sensor for	(GYTI) Awards
		Quantification, Removal of Naringin	by SRISTI (Society for
		and Determination of Maturity of Citrus	Research and Initiatives for
		Fruits	Sustainable Technologies and
			Institutions)
Dr Laxmikant	Professor	Appointed as vice president of	Association of Food Scientists
Badwaik		Association of Food Scientists and	and Technologists, India
		Technologists, India (AFSTI) for 2021	(AFSTI)

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
UGC-NET	5	PhD
ICAR-NET	3	PhD
GATE	5	B.Tech/PhD

Notable Placement of Students

Name of Student	Academic	Placement Designation	Company/Organization	Mode of
	Programme			Selection
Priotush Paul	B.Tech	Territory sales manager	Amul	On campus
Arindom Dutta	B.Tech	Quality	Iron Kettle Pvt. Ltd.	Off campus
Radifah Kabir	B.Tech	News editor	ABP news	Off campus

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic	Name of other Institute	Enrolled Academic
	Programme (in TU)		Programme
Raisha Yesmin	B.Tech	NIT Silchar	MBA

DEPARTMENT OF MECHANICAL ENGINEERING

About the Department

The Mechanical Engineering (ME) department at Tezpur University was established in 2006. The department aims at producing skilled human resources with a strong foundation in ME for the heavy engineering and manufacturing industry. Another mission of the department is to train scholars in handling ME as well as interdisciplinary problems by exploiting their domain knowledge and using the latest technologies. There are 16 regular faculty members, 01 guest faculty member and 01 adjunct faculty member with various specializations and 11 technical staff members in the department. Presently, the department is offering BTech, MTech (Specialization: Machine Design and Thermal and Fluids Engineering) and PhD programmes in Mechanical Engineering. The department has various laboratories with state-of-the-art facilities and one central workshop with all kinds of machinery. Both the BTech and MTech programmes offered in the department are AICTE approved. The BTech programme in Mechanical Engineering is provisionally accredited by NBA, which has been effective from 2019-2021. The department has the vision to emerge as a centre of excellence, producing quality engineers and conducting cutting-edge research.

Academic Programmes and Student Intake

Academic Programme	Student Intake
BTech	65
MTech	23
PhD	Variable (admitted 07 in 2021-22)

Thrust Research Areas of the Department

- Complex thermal and mechanical system analysis using thermodynamic modelling, computational fluid dynamics and evolutionary based optimization techniques.
- Development and analysis of solar thermal power, cooling, storage and drying systems.
- Development of autofrettage methods, reinforced composites, micro alloying materials and their characterization.

Major Facilities/Equipment available

- Central Workshop
 - CNC Lathe Machine
 - CNC Milling Machine
 - Universal Milling Machine
 - HMT High Speed Precision Lathe
- Fluid Mechanics and Turbo-machinery Lab
 - Bernoulli's theorem demo module
 - Pelton turbine
 - Propeller turbine
- Strength of Material Lab
 - Universal testing machine
 - Inverted metallurgical microscope with accessories and interface software
- Theory of Machine Lab

- Static and Dynamic balancing
- Sound level meter with sound level calibrator
- Vibration Lab
 - Universal vibration apparatus
 - Sound level meter with sound level calibrator
- CAD Lab
 - ANSYS academic teaching
 - Pro-E software
- Metrology Lab
- IC Engine and Automobile Lab
 - Diesel Engine test set up VCR
 - Variable compression ratio petrol engine
 - Computerised single cylinder petrol engine test rig
- Thermal and Heat Transfer Lab
 - VCR and VAR test rig
 - Air conditioning test rig
 - Cooling tower test rig
 - Stefan Boltzmann apparatus
 - Concentric tube heat, shell and tube heat exchanger apparatus
 - Dropwise and filmwise condensation apparatus
 - Emissivity measurement apparatus
 - Critical heat flux apparatus
 - Natural convection heat transfer apparatus
 - VCR petrol engine

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
	Dilip Datta	PhD (IIT Kanpur)	Optimization, Mechanical Design	ddatta	10-02-2014
Professor	Tapan Kumar Gogoi	PhD (Tezpur University)	Thermodynamic modelling, analysis and optimization of thermodynamic cycles and systems	tapan_g	05-09-2016
	Partha Pratim Dutta	PhD (Tezpur University)	Renewable energy, Thermal engineering, Drying Technology	* *	26-11-2017
Associate Professor	Paragmoni Kalita	PhD (IIT Guwahati)	Computational Fluid Dynamics and heat transfer	paragmk	30-01-2021
Assistant Professor	Polash Pratim	PhD (IIT Guwahati)	Precision manufacturing, soft computing, CAD	polashd	21-02-2008

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	Dutta				
	Sushen	PhD	Machine Design	sushen	25-08-2008
	Kirtania	(IIT Guwahati)			
Prabin Haloi		ME	Mechanical Engineering	haloi_p	16-07-2010
		(Gauhati			
		University)			
	Sanjib	PhD	Materials Engineering and	sanjibb	02-08-2010
	Banerjee	(IIT Guwahati)	Manufacturing		
	Monoj	PhD	Thermal Engineering,	monojb	30-08-2012
	Bardalai	(Gauhati	Renewable Energy	-	
		University)			
	Satadru	PhD	Manufacturing,	sanjibb	07-09-2012
	Kashyap	(Tezpur	Composite Materials,		
		University)	Materials Science		
	Zahnupriya	PhD	Rehabilitation Robotics,	zk	26-08-2014
	Kalita	(Tezpur	Optimization		
		University)			
	Rakesh	ME	Welding, Machining	r.bhadr	19-09-2014
	Bhadra	(IIEST,			
		Shibpur)			
	Barnali	PhD	Thermal Engineering, Data	barnali	02-02-2015
	Chowdhury	(Gauhati	analysis and optimization		
		University)			
	Vivek Kr.	PhD	Optimization, Robotics	vkmehta	07-09-2016
	Mehta	(IIT Kanpur)			
	Seikh	PhD	Stress analysis, Plasticity,	smkmech	07-09-2016
	Mustafa	(IIT Guwahati)	Autofrettage, Fracture		
	Kamal		Mechanics		
	Shikha	MTech	CFD, Renewable energy,	shikha5	03-10-2016
	Bhuyan	(NIT Silchar)	Heat transfer		
Guest	Uttam	PhD	Integrated Design and		08-02-2021
	Kumar	(IIT	Manufacturing Engineering		
Faculty	Mohanty	Hyderabad)			

Officers and Staff Members

Designation	Name	<email></email>	Date of holding	
		@tezu.ernet.in	the current	
			position	
Technical Officer	Prabin Kumar Bora	pkbora	10-10-2007	
Senior Technical Assistant	Heman Malakar	heman	29-06-2009	
Technical Assistant	Guna Kanta Borah	gunakt	16-08-2007	
	Anupjyoti Nath	anupn	20-08-2007	
Technician	Dipak Gogoi	dgogoi	10-01-2007	
	Mitharam Handique	mitharam	14-08-2007	
	Palash Rabha	prabha	23-08-2007	
	Khargeswar Rangpi	rangpi	23-08-2007	
	Sasthendra Kumar Nath	sknath	14-09-2009	
Draftsmen	Uttam Kumar Nath	uttam	13-06-2009	
	Bhaskar Baruah	bbaruah	03-08-2012	
Upper division clerk	Dipanjali Sinha	dsinha	28-08-2019	
Bearer	Maniram Bania		01-01-2008	

Research Projects (both Ongoing and New)

Project Title	Funding	Amount	Duration	Investigator(s)
	Agency	(in INR)		
Design Development and	AICTE	1700000	2019-2023	Dr. Partha Partim Dutta
Performance Testing of Solar Dryer				
for Drying Garcinia pedunculata				
with Thermal energy Storage				
Design and development of an	ASTEC	296000	2021-2023	Dr. Partha Pratim Dutta
improved tricycle				
Multi-Crop Residue Processing	DST-	1,43,00,000	2020-2023	PI: Prof. DC Baruah
Technology Package for Production	IMPRINT			Co-PI: Dr. S Kashyap, Dr. N
of Fuel and Fertilizer				Sarmah, Dr. D. Sonowal

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Shukla, A.K., Dutta, Partha P., Bardalai, M., and Dutta, Polash P. (2022). Performance assessment of a single cylinder diesel engine with diesel and waste cooking oil blends preheated by engine exhaust gas. *International Journal of Vehicle Structures & Systems*, 14 (2):150-157.
- Bhagowati, S., Bardalai, M., Dutta, Partha P., and Dutta, Polash P. (2021). Design and Comparative Study of Shell and Tube Heat Exchanger with Different Baffle Configurations. *ADBU Journal of Engineering Technology*, 10 (4):
- Haloi, P. and Gogoi, T.K. (2021). Effects of partially ionized combustible products on the performance of a Magneto-hydrodynamic (MHD)-gas turbine (GT) combined power plant, Part 1: exergy analysis. *Iranian Journal of Science and Technology, Transactions of Mechanical Engineering*, 46: 481-495.
- Kamal S.M. and Dixit U.S. (2021). Design of a disk-mandrel assembly for achieving rotational autofrettage in the disk. *IMechE Part C: Journal of Mechanical Engineering Science*, 235 (13):2452–2467.
- Perl M., Kamal S.M. and Mulera Solomon. (2022) The use of an equivalent temperature field to emulate an induced residual stress field in a rotating disk due to full or partial rotational autofrettage. *ASME Journal of Pressure Vessel Technology*, 144 (6): 061301.

Publication of Books

- Datta, D. (2021). Good Practices and Ethics in Research and Publication. Ane Books Pvt. Ltd., New Delhi, ISBN 978-93-90658-37-4.
- Dash, K. K., Kalita, P. (2022). Solving problems in Fluid Mechanics (GATE XE), Astral International Pvt. Ltd., New Delhi, ISBN:978-93-5461-356-2.

Publication of Book Chapters

- Dutta, Partha. P., Goswami, P., Das, A., Chutia, L., Borbara, M., Das, V., Bania, K., Rai, S., and Bardalai M. (2022). Thermal Performance Studies of an Artificially Roughened Corrugated Aluminium Alloy (AlMn1Cu) Plate Solar Air Heater (SAH) at a Moderate Air Flow Rate. In Kumar N., Prabhansu (Eds). *Renewable Energy for Sustainable Growth Assessment (Ch. 5)*, ISBN: 9781119785361, Scrivener publishing, Wiley Online Library. DOI: https://doi.org/10.1002/9781119785460.ch5
- Bardalai, M., Das, B.K., Chaudhury, I.A., Kumar, S., and Dutta, Partha P. (2022). Heat Transfer Analysis Through Ducts of Different Geometries with Extended Surfaces. In Suhag S., Mahanta C., Mishra S (Eds). *Control and Measurement Applications for Smart Grid, Lecture Notes in*

Electrical Engineering, volume 822, pages 115-128, ISBN: 978-981-16-7663-5. Springer, Singapore.

- Chowdhury, B., and Deb, S.K. (2021). Optimizing Thermoforming of Refrigerator Liners to Reduce Liner Rejection Rate—A Case Study Using Fractional Factorial Design of Experiments. In Manik, G., Kalia, S., Sahoo, S.K., Sharma, T.K., Verma, O.P. (Eds). *Advances in Mechanical Engineering*, pages 225-238, *Lecture Notes in Mechanical Engineering*, ISBN: 978-981-16-0942-8. Springer, Singapore.
- Dutta, P.P., Goswami, P., Sharma, A., Dutta, Polash P., and Baruah, M.G. (2022). Computational performance analysis of the perforated and flat plate double pass solar air heater. In Mahanta A., Kalita P., Paul A., Banerjee A., (Eds). *Advances in Thermo-fluids and Renewable Energy*, pages 549-561, *Lecture Notes in Mechanical Engineering*, ISBN: 978-981-16-3497-0. Springer, Singapore.
- Das, B., Dutta, Polash P., Dutta, Partha P. (2022). Numerical approximation of performance of pneumatic artificial muscles with change in altitude. In Suhag S., Mahanta C., Mishra S (Eds). *Control and Measurement Applications for Smart Grid, Lecture Notes in Electrical Engineering*, pages 219-228, ISBN: 978-981-16-7663-5. Springer, Singapore.

Publication of Articles in Conference Proceedings

- Bardalai, M. (2021). Mathematical Modeling and Performance Evaluation of Flat Plate Solar Collector. In 15th International Conference of IMBIC on Mathematical Sciences for Advancement of Science and Technology (MSAST 2021), Proceedings of IMBIC, volume 10, pages, 76-77, Kolkata, India.
- Das, B., Dutta, Polash P., Bardalai, M., and Dutta, Partha P. (2021). Comparative study on performance of high volume low speed (HVLS) fans with high-speed fans for the use in dairy barns. In *International Conference on Futuristic Research in Engineering Smart Materials 2021*, Materials Today: Proceedings, volume 47, Part 14, pages 4606-4610, Bengaluru, India, Elsevier.
- Dutta, Partha P., Begum, SS., Jangid, H, Goswami, A.P., Doley, T., Bardalai, M., and Dutta, Polash P. (2021). Modeling and performance evaluation of a small solar parabolic trough collector (PTC) for possible purification of drained water. In *International Conference on Futuristic Research in Engineering Smart Materials 2021*, Materials Today: Proceedings, volume 47, Part 14, pages 4226-4234, Bengaluru, India, Elsevier.
- Bora, J. and Kirtania, S. (2021). Enhancement of elastic and fracture properties of carbon nanotube-reinforced aluminum laminated composites. In *National Conference on Materials, Mechanics and Modeling (NCMMM-2020)*, AIP Conference Proceedings, volume 2341, pages 020024-1-020024-10. Jamshedpur, India, AIP Publishing.
- Mahmun, A. and Kirtania, S. (2021). Evaluation of elastic properties of graphene nanoplatelet/epoxy nanocomposites. In *International Conference on Materials, Processing & Characterization,* Materials Today: Proceedings, volume 44, pages 1531-1535, Elsevier.
- Borgohain, P., and Kirtania, S (2021). Finite element analysis of concrete railway sleeper. In *Proceeding of Nat. Conf. on Advances in Mechanical Engineering*, pages 165-169, SVNIT Surat, India.
- Kalita, M. J., Das, P., Mahfuz, T., and Kirtania, S (2021). Finite element analysis of flywheels used for punching operation. In the *Proceeding of Nat. Conf. on Advances in Mechanical Engineering*, pages 155-159, SVNIT Surat, India.
- Kakoty, N. M., Kalita, Z., Boruah, A., Chittawadigi R.G., and Saha S. S. (2021). Development of A Technology Education Programme based on Self-Driven, Self-Learning and Self-Evaluating

Approach. In Advances in Robotics-5th International Conference of The Robotics Society, pages 1-5, IIT Kanpur, India.

- Sharma, A., and Dutta, Partha P. (2021). Exergy analysis of a solar thermal energy powered tea withering trough. In *3rd International Conference on Advances in Mechanical Engineering and Nanotechnology*, Materials Today: Proceeding, volume 47 (11), pages 3123-3128, Elsevier.
- Dutta, P., Dutta, Partha P., Kalita, P., Goswami, P., Choudhury P. K. (2021). Energy Analysis of a Mixed-mode Corrugated Aluminium Alloy (AlMn1Cu) Plate Solar Air Heater. In *3rd International Conference on Advances in Mechanical Engineering and Nanotechnology*, Materials Today: Proceeding, volume 47 (11), pages 3352-3357, Elsevier.

Pedagogy and Content Development

• Dr. V.K. Mehta developed a virtual engineering mechanics laboratory.

Name of Faculty/Staff Member	Purpose of Attending	Title of Event	Date/ Period	Organizer and Venue (Online/Offline)
D. Datta	Chief Guest	Certificate Course in LaTeX	01-02-2022	BNN College, Bhiwandi, Maharashtra (Online)
	Paper presentation	15th International Conference of IMBIC on Mathematical Sciences for Advancement of Science and Technology (MSAST 2021)	21 to 23-12- 2021	Institute for Mathematics, Bio- informatics, Information-Technology and Computer Science (IMBIC), Kolkata, India (Online)
M. Bardalai	Paper presentation	International Conference on Futuristic Research in Engineering Smart Materials (FRESM'21)	23 to 24-04- 2021	CMR Institute of Technology, Bengaluru, India (Online)
Particij	Participation	Short Term Training Programme on Advanced Engineering Optimization through Artificial Intelligence	12 to 17-07- 2021	NERIST, India (Online)
D II L .	Participation	Six Days Faculty Development Programme on "Mentorship Program and its Benefits in Technical Institutions"	7 to 12-03- 2022	NIT Agartala, India (Online)
P. Haloi	Paper presentation	International Conference on Energy Conversion and Thermo- fluid Systems (i-CONECTS 2021)		MNIT Jaipur, India (Online)
S. M. Kamal	Participation	In the honor of Professor Amitabha Ghosh Lecture Series on Evolution of Classical Mechanics and Symposium on Engineering Pedagogy	5, 6, 12, 13, 19 and 20- 03-2022 2022	IIT Guwahati (Online)
S. Kirtania	Paper presentation	National Conference on Advances in Mechanical Engineering	27 to 28-05- 2021	S. V. National Institute of Technology, Surat, India. (Online)

Conference/Workshop/Symposium/Seminar etc. Attended

				Г]
	Paper presentation	International Conference on Sustainable Approaches In Food Engineering And Technology (SAFETy)		Tezpur University (Online)
	Paper presentation	2nd International Congress on Advances in Mechanical and Systems Engineering (CAMSE 2021)		NIT Jalandhar (Online)
	Participation	One week Short Term Course on Applications of Vibration and Heat Transfer in Mechanical Engineering (AVHTME 2021).		NIT Manipur (Online)
B. Chowdhury	Participation	One Week online Workshop on Statistical Techniques for Data Analysis	22 to 26-11- 2021	NIT Jalandhar (Online)
Participation Session Chair	One week Short Term Course on Emerging Trends and Modelling in Advanced Functional Materials and Devices	28-03-2022 to -01-04- 2022	NIT Jalandhar (Online)	
		2nd International Congress on Advances in Mechanical and Systems Engineering (CAMSE 2021)		NIT Jalandhar (Online)
	Reviewer	2nd International Congress on Advances in Mechanical and Systems Engineering (CAMSE 2021)		NIT Jalandhar (Online)
Partha P. Dutta	Participation	Short Term Training Programme on Advanced Engineering Optimization through Artificial Intelligence	12 to 17-07- 2021	NERIST, India (Online)
Dutta	Session Chair	International online Conference on Material Science and Technology (ICMTE-2021)	12 to 14-11- 2021	Mahatma Gandhi University, Kerala (Online)
S. Kashyap	Paper Presentation	International Conference on Sustainable Approaches in Food Engineering and Technology (SAFETy) 2021	24-06-2021	Tezpur University, India (Online)
	Paper Presentation	Current Scenario in Chemical Sciences (CSCS2021)	06 to 07-09- 2021	Moolji Jaitha College, Jalgaon, Maharashtra (Online)

Invited Talk

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue (Online/Offline)
D. Datta	Introduction to Nonlinear Optimization Methods	Short Term Training Programme on Advanced Engineering Optimization through Artificial Intelligence		NERIST, Arunachal Pradesh (online)
	Introduction to Multi- Objective	Short Term Training Programme on	16-07-2021	NERIST, Arunachal Pradesh (Online)

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	Optimization	Advanced Engineering Optimization through		
		Artificial Intelligence		
	Career Prospects in	Certificate Course in	01-02-2022	BNN College,
	LaTeX	LaTeX		Bhiwandi,
				Maharashtra (Online)
		Conference on Advances in Petroleum Science and Technology	29-10-2021	Dibrugarh University, Assam (online)
Polash P.		Federation of Petroleum		
Dutta	Industries, its recent			
	advances and research	•		
	opportunities			
	Paraffine based Phase	International online	12-	Mahatma Gandhi
	0	Conference on Material	14/11/2021	University, Kerala
		Science and Technology		(Online)
	Storage	(ICMTE-2021)		
		Innovation Ecosystem in	19-02-2022	Technology Enabling
Partha P.	in Academic	Academic Institutions		Centre, Tezpur
Dutta	Institution			University and
Dutta				Gargoan College,
				Sibasagar, Assam,
				India (Online)
	University based	Prof. D. Konwar	19-01-2022	Tezpur University,
	Technology Transfer:	memorial lecture,		Assam, India (Online)
	Prospects and	Department of Energy,		
	Challenges	Tezpur University		

Awards/Honours/Notable Achievements

Name of Awardee	Designation of Awardee	Achievement	Event/Awarded by
Professional	Dr. Partha P Dutta, Professor	Nominated as	ISES: Germany
Honorary Member		Professional	
(ISES: Germany):		Honorary Member	
2021-2022		(ISES: Germany):	
		2021-2022	

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Oualified Students	Academic Programme
GATE	03	B.Tech

Notable Placement of Students

Name of Student	Academic Programme	Placement Designation	Company/ Organization	Mode of Selection
Hirakjyoti Nath	B.Tech	Sr. Officer	Oil India Limited	On-campus
Sasankajit Dihingia	B.Tech	Sr. Officer	Oil India Limited	On-campus
Bitopan Das	B.Tech	Sr. Officer	Oil India Limited	On-campus
Srinjoy De Joardar	B.Tech	Graduate Engineer Trainee	Saint Gobain	On-campus
Srinjoy De Joardar	B.Tech	Graduate Engineer Trainee	Tata Technologies	On-campus
Mustafa Siraj	B.Tech	Graduate Engineer Trainee	Tata Technologies	On-campus

Barbhuiya				
Pranjit Baruah	B.Tech	Graduate Engineer Trainee	Tata Technologies	On-campus
Rishav Dutta Purkayastha	B.Tech	Graduate Engineer Trainee	Tata Technologies	On-campus
Vikash Ranjan	B.Tech	Graduate Engineer Trainee	Tata Technologies	On-campus
Satyajit Borah	B.Tech	Graduate Engineer Trainee	Tata Technologies	On-campus
Sasankajit Dihingia	B.Tech	Graduate Engineer Trainee	Tata Technologies	On-campus
Vikash Ranjan	B.Tech	Graduate Engineer Trainee	Sanmar Group	On-campus
Piyali Dey	M.Tech	Junior Management Grade I	Federal Bank	On-campus
Alankrita Priyadarshani	M.Tech	Junior Management Grade I	Federal Bank	On-campus
Harkha Jyoti Gogoi	B.Tech	Associate IT Consultant	ITC Infotech	On-campus
Bhargav Jyoti Nath	B.Tech	Project Engineer	Wipro	On-campus
Mustafa Siraj Barbhuiya	B.Tech	Progammer Analyst Trainee	Cognizant Technologies	On-campus
Arohan Neog	B.Tech	Progammer Analyst Trainee	Cognizant Technologies	On-campus
Hirakjyoti Nath	B.Tech	Progammer Analyst Trainee	Cognizant Technologies	On-campus
Aadipta Ghosh	M.Tech	Post Graduate Engineer Trainee	L&T ECC	On-campus
Himanku Bordoloi	M.Tech	Post Graduate Engineer Trainee	Alstom	On-campus
Mriganan Madhab Bordoloi	M.Tech	Post Graduate Engineer Trainee	Alstom	On-campus

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic	Name of other Institute	Enrolled
	Programme (in TU)		Academic
			Programme
Girban Yachyas	B.Tech	RGIPT - Energy Institute Bengaluru	M.Tech
Abhishek Chaurasia	B.Tech	RGIPT - Energy Institute Bengaluru	M.Tech
Madhusmita ray	B.Tech	IIT Gandhinagar	M.Tech
Bonashree Gogoi	B.Tech	RGIPT - Energy Institute Bengaluru	M.Tech
Sucharia Mondal	B.Tech	IIM Visakhapatnam	MBA
Mridupavan Gogoi	M.Tech	NIT, Silchar	PhD
Utpal kumar Dutta	M.Tech	NIT, Silchar	PhD

REPORT OF THE DEAN, SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

About the School

While each Department and Centre under the School pursues its designated M.A., PhD, Diploma or Certificate programme, with specific thrust areas, there are some common areas of study and research which highlight the School's shared interests and goals:

- Society and Culture
- India Studies
- Migration Studies
- Gender Studies
- Translation and Translation Studies
- Environmental Ethics Social Systems, Institutions and Movement
- Literature
- Film Studies
- Lexicography
- Ethnography

- Philosophy
- Human Rights
- Philosophy of History
- Life Writing
- Travel Writing
- Academic and Technical writing
- Communication and Media Studies
- Constitutional Law, Judicial Process
- Criminology and Criminal Law
- Soft and Life Skill

Apart from these broad areas, most of the departments address at some level issues of gender, old age, disability, community health (mental and physical), environmental issues, issues pertaining to Dalit and tribal communities through outreach programmes as well as part of academic discourse.

In keeping with the requirements of the NEP 2020 and drawing upon available resources, we are working on a four-year multidisciplinary undergraduate programme of 160 credits. Instead of specializations in a particular areas, this programme will offer an eclectic and innovative mix of outcome-oriented courses from across different subjects and disciplines to equip students for employment in more than one sector. As per the NHEQF, flexibility and choice of courses will be the key features of the programme. The larger goal is to produce well-rounded graduates with critical and contemporary skills across the arts, humanities, languages, sciences and social sciences. This will bridge the gap between academic training and social-professional skills.

Department/Centre	Academic Programmes Offered	Student
-		Intake
Assamese	M.A.	20
	Ph.D	Variable
Cultural Studies	M.A.	35
	Ph.D	Variable
Education	B.Ed.	58
	Integrated B.Sc-B.Ed	
	M.A.	33
	PhD	Variable
English	Integrated M.A	25
	M.A.	57
	PhD	Variable

Departments/Centres and Academic Programmes Offered

Foreign Languages	Certificate course in Chinese	39
Hindi	M.A.	30
	P.G. Diploma in Translation	31
	PhD	Variable
Law	Master of Laws	25
Linguistics	M.A.	30
	Ph.D	Variable
Mass Communication and Journalism	M.A. in Mass Communication and Journalism	38
	M.A. in Communication for Development	13
	Ph.D.	Variable
Social Work	M.A.	22
	Ph.D	Variable
Sociology	M.A.	38
	Ph.D	Variable
Centre for Inclusive Development	P.G. Diploma in Child Rights and Governance	04
Chandraprabha Saikiani Centre for	P.G. Diploma in Women Studies	20
Women Studies	Ph.D.	Variable

Important Activities

- FDPs Conducted by (1) the Dept of English (2)Dept of Cultural Studies (3) Dept of Assamese, (4) Education
- National Seminars; as well as Webinars; Invited Lectures, in most of the Departments under the School of HSS
- Outreach Programmes by the Dept. of Cultural Studies, Dept of Social Work, Dept of Sociology, Centre for Inclusive Development, Women Studiers Centre, Dept of MCJ
- Short film production and Screening by the Dept of MCJ also NAYA SOCH (Networking and Action by Young Adults for Social Change)
- Sensitization programmes on Gender, Health and Hygiene, Substance Abuse and Mental Health, Good Academic Practices by the Dept. of Cultural Studies, Dept of Education, Dept of Social Work, Women Studiers Centre and the CID, Human Rights Awareness by the Dept of Law.
- Field Study trips to places of historical, cultural and ethnographic interest
- Celebration of special days like International Women's Day; Social Work Day; Heritage Day; Mother Language Day; Press Freedom Day; Constitution Day.

Officers and Staff Members

Designation	Name	<email> @tezu.ernet.in</email>	Date of holding the current position
Dean, School of HSS	Farheena Danta	fdefl	01-01-2022
Office Assistant (shared with Sociology)	Amarjyoti Bharali	amar	
MTS	Tanka Bahadur Chetri		

DEPARTMENT OF ASSAMESE

About the Department

The Department of Assamese, established in 2019, is a new department. However, it may be said to have begun life as the Centre for Assamese Studies which was established in 2011. The primary aim of the Centre was to undertake and foster research in Assamese language and culture, and one of its achievements was the creation of an extensive digital archive of Assamese manuscripts, books, and important documents, from the medieval period to the modern. The present Department incorporates such existing facilities.

In view of the paucity of standard texts of the classical and canonical works of Assamese literature (for example, the works of Madhava Kandali and Sankaradeva, Madhavadeva, Rama Saraswati and others), including concordances to the major works of Assamese literature, the Department's first programme, the post-graduate degree programme in Assamese incorporates courses in textual criticism/text-critical studies and digital humanities. Textual criticism/text-critical studies and digital humanities have also been identified as the thrust areas in research.

Academic Programmes and Student Intake

Academic Programme	Student Intake
M.A. in Assamese	20
Ph.D. in Assamese	Variable (No student admitted in 2021-22)

Thrust Research Areas of the Department

- Assamese Language, Literature and Culture
- Textual criticism
- Digital Humanities
- Translation Studies
- Film Studies
- World Literature

Major Facilities/Equipment available

- Departmental Library
- Digital Archive

Faculty Members

Designation	Name	Highest	Specialization	<email></email>	Date of
		Qualification		@tezu.ernet.in	holding the
		(Institute)			current
					position
	Subrat Jyoti	Ph.D.	Assamese Literature, Film	subrat	13-02-2020
Associate	Neog	(Gauhati	Studies, Theatre Studies,		
Professor		University)	Stylistics, Creative		
Frojessor			Writing (Play and		
			Screenwriting)		
	Juri Dutta	Ph.D. (Rajiv	Regional Literatures,	juri	6-09-2016
Assistant		Gandhi	Comparative Literature		
Professor		University)	and Translation, Creative		
			Writing		

	Sanjib	Ph.D.	Study of Assamese	sanjibd	20-02-2020
	Deka	(Gauhati	Language, Medieval		
		University)	Assamese Language,		
			Assamese Morphology,		
			Nineteenth Century		
			Assam, Printing History,		
			Creative Writing		
	Jyotishman	M.Phil.	Modern Assam Literature,	jyotish	24-02-2020
	Das	(Dibrugarh	Assamese Novel,		
		University)	Assamese Mass Media,		
			Creative Writing, Life		
			Writing, Travel Writing		
	Sushanta	M.A. (Tezpur	Assamese Morphology,		01-03-2022
	Rajkhowa	University)	Syntax-Semantics		
Guest			Interface		
Faculty	Parthajit	M.Tech.	Machine Learning and		01-03-2022
	Bora	(Tezpur	Data Security		
		University)			

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the current position
Technical Staff	Chandrasekhar Roy	chaser	21-10-2019
MTS	Malati Boro		08-02-1996

Research Projects (both Ongoing and New)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
Film Maker Manju Borah	National Film Archive of India	30000	6 months Feb. 2022 to Aug. 2022	Subrat Jyoti Neog

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Das, J. (2022). Aalocanir Braman Sahitya: Upekhyita Ekhan Alocani aro Upekhyita Eti Sahitya Bidha(Travel-writing in Alocani), *Gariyoshi*, XXIX(5): 46-50.
- Das, J. (2022). Homen Borgohainr Kishor-Sahitya, Satsori, 17(10): 46-49.
- Deka, S. (2022). Kahini-Kathan, Bhim-Charit aru Oupanibeshik Asam : Pathanar Ek Itihas, Part I, *Satsori*, 17(8): 44-48.
- Deka, S. (2022). Kahini-Kathan, Bhim-Charit aru Oupanibeshik Asam : Pathanar Ek Itihas, Part II, *Satsari*, 17(10): 70-75.
- Dutta, J. (2022). Asamiya Upanyasat Queer Cetana (Queer Consciousness in Assamese Novels). Satsari, 17(6): 47-51
- Neog, Subrat Jyoti (2021). Sapon Jyoti Thakur's Plays. *Gariyoshi*, xxviii(7): 80-82
- Neog, Subrat Jyoti (2021). Abinash Sarma's Plays. Gariyoshi, xxviii(10): 57-61
- Neog, Subrat Jyoti (2021). Black and White-A Symbolic Play. Satsari, 16(7): 98-100
- Neog, Subrat Jyoti (2021). Abinash Sarma's directorial venture Aahar. Satsari, 17(4):100-108
- Neog, Subrat Jyoti (2022). Indian Panorama 2021. Gariyoshi, xxix(4): 53-55

• Neog, Subrat Jyoti (2022). Mukti and Tare Zameen Par: An Intertextual Study. *Anvesan*, xiv(14): 143-148

Publication of Book Chapters

• Das, J. (2021) Asamiya Bhrman Sahityar Samikshatmak Itibritta (A study of Assamese travel literature) In Pallavi Deka Bujarbarua, editors, *Tulanamulak Sahitya aru Paridhiya kshetra*, pages 282-294. AASU.

Publication of Articles in Other Forms

- Das, J. (2021). Pariparcha Samalocanar Alokat Anuradha Sarma Pujarir Upanyas Eyat Ekhan Aranya Achil. *Anviksha*, VI: 85-93.
- Das, J. Tokyor Abarjana aro Abarjana Mukta Bharatar Swapna (Waste Management of Tokyo City), *Anyayug*, February, 2022.
- Dutta, J. Translated 'Basanar Aita' (a short story titled 'Basan's Grandmother' by Bimal Sinha and translated into English by Banamali Goswami) into Assamese in *Prakash* (ISSN 2279-0683), Third Phase: February, 2022. Pp 64-69
- Dutta, J. Translated 'Siror Babe Ejopa Laburnam' (a short story titled Laburnum for my Head by Temsula Ao) from English into Assamese in *Satsori* (ISSN 2319-8893), Vol 16, Issue No 08. March, 2021. Pp 111-119
- Dutta, J. Translated 'Erati' (a Manipuri short story titled One Night by Keisham Priyokumar and translated into English by Robin S. Ngangom) into Assamese in *Gariyoshi* (ISSN 2349-5324), Vol. XXVIII, Issue No. 11. September, 2021. Pp 83-85
- Dutta, J. "Bihu: Aitijya's Punaruddhar, Atmaparichayar Cetana aru Bicchinna Paripachik" (Bihu: Revival of Heritage, Identity Consciousness and Detached Context) in *Gariyoshi*, (ISSN 2349-5324) Vol. XXIX, Issue No. 6. April, 2022. Pp 3-8
- Dutta, J. "Sylvia Plath: Jiwan, Shristi, Hepah aru Mrityusetana (Sylvia Plath: Life, Creations, Desires and Death Consciousness)" in *Prakash* (ISSN 2279-0683), Third Phase: August, 2021. Pp 49-56
- Dutta, J. "Queer Tatta (Queer Theory)" in *Critical Epistemology*, May-August, 2021. Vol 1, Issue II, Page. 11-24
- Dutta, J. a short story "Seito Kar Ghor" (Whose House is That)" in *Prantik (ISSN 0971-5932)* edited and published by Pradip Barua (1-15 July, 2021) Third Phase: Vol. XL, No 15, Pp 55-58
- Neog, S.J. Santawana Bordoloi's Film, E-Cine India, July-Sept. 2021
- Neog, S.J. Celluloid Feast, *The Assam Tribune*, December 19, 2021
- Neog, S.J. Lambodar Bora: An Introduction, Samalocanatmok Jnancarca, September-December, 2021

Name of Faculty/ Staff Member	Purpose of Attending	Title of Event	Date/Period	Organizer and Venue
Juri Dutta	Participant	Interdisciplinary Refresher Course on Curriculum and Pedagogy	07-06-2021 to 21-06-2021	Teaching Learning Centre, Tezpur University (Offline)
	Language Expert	Preparation of Trilingual Glossary of Engineering in Assamese Language	27-12-2021 to 31-12-2021	Commission for Scientific and Technical Technology, Ministry of Education, Govt of India, Tezpur University

Conference/Workshop/Symposium/Seminar etc. Attended

				(Offline)
	Language	Preparation of Trilingual	31-01-2022	Commission for Scientific
	Expert	Glossary of Engineering	to	and Technical Technology,
	Expert	in Assamese Language	04-02 2022.	Ministry of Education, Govt
		III Assamese Language	04-02 2022.	of India, Tezpur University
				(Offline)
	Language	Preparation of Trilingual	28-02-2022	Commission for Scientific
	Expert	Glossary of Engineering	to	and Technical Technology,
		in Assamese Language	04-03-2022	Ministry of Education, Govt of India, Tezpur University
				(Offline)
Jyotishman	Participation	Induction/Orientation	18-05-2021	Teaching Learning Centre,
Das		Programme	to	Ramanujan College,
			17-06-2021	University of Delhi
				(Online)
	Participation	FDP on Issues of	12-06-2021	Teaching Learning Centre
	_	Exclusion in Assamese	to	and Assamese Department,
		Literature	16-062021	Tezpur University (Online)
	Paper	National Seminar on	11-04-2022	North Lakhimpur College
	Presentation	Life and Works of		and St. Pauls' Cathedral
		Padmanath		Mission College and Asam
		Gohainborooah,		Sahitya Sabha (Offline)
		Hemchandra Goswami		
		and Panindranath Gogoi		
	Participation	Induction/Orientation	18-05-2021	Teaching Learning Centre,
	_	Programme	to	Ramanujan College,
		_	17-06-2021.	University of Delhi(Online)
	Participation	FDP on Issues of	12-06-2021	Teaching Learning Centre
	_	Exclusion in Assamese	to	and Assamese Department,
		Literature	16-062021	Tezpur University(Online)
	Paper	National Seminar on	11-04-2022	North Lakhimpur College
	Presentation	Life and Works of		and St. Pauls' Cathedral
		Padmanath		Mission College and Asam
		Gohainborooah,		Sahitya Sabha (Offline)
		Hemchandra Goswami		
		and Panindranath Gogoi		
	Language	Preparation of Trilingual	31-01-2022	Commission for Scientific
	Expert	Glossary of Engineering	to	and Technical Technology,
		in Assamese Language	04-02 2022.	Ministry of Education, Govt
				of India, Tezpur University (Offline)
	Language	Preparation of Trilingual	28-02-2022	Commission for Scientific
	Expert	Glossary of Engineering	to	and Technical Technology,
		in Assamese Language	04-03-2022	Ministry of Education, Govt
			04 05 2022	of India, Tezpur University
Sonjih Dalra	Dagourac	Dading Madiaval	00 12 2021	(Offline) Sri Sri Aniruddhadeva Chair,
Sanjib Deka		Reading Medieval	09-12-2021	
	Person	Manuscript	to	Department of History,
			12-12-2021	Dibrugarh University (Offline)
	Language	Preparation of Trilingual	27-12-2021	Commission for Scientific
L	Language		27-12-2021	

	Expert	Glossary of Engineering	to	and Technical Technology,
	I · ·	in Assamese Language	31-12-2021	Ministry of Education, Govt.
		6		of India, Tezpur University
				(Offline)
	Language	Preparation of Trilingual	31-01-2022	Commission for Scientific
	Expert	Glossary of Engineering	to	and Technical Technology,
	-	in Assamese Language	04-02-2022.	Ministry of Education, Govt.
				of India, Tezpur University
				(Offline)
	Resource	One Day Workshop on	15-03-2022	Dept. of Cultural Studies,
	Person	Manuscript Painting:		Tezpur University
		Tradition of Assam		(Offline)
Subrat	Paper	National Seminar on	07-06-2021	North Lakhimpur College.
Jyoti Neog	presentation.	Homen Borgohain's life,		(Online).
		literature and		
		philosophy.		
	Paper	Seminar on Language	08-06- 2021	Dibru College (Online)
	presentation.	Family		
	Paper	Seminar on Bishnu	20-06-2021	HCDG College. (Online).
	presentation.	Rabha and Humanism		
	Paper	Seminar on The	22-06-2021	HCDG College. (Online)
	presentation	Language of		
		Advertisement		
	Paper	Seminar on Theatre and	03-08-2021	CKB College. (Online).
	presentation	Mass Media		
	Paper	Film as Mass Media	23-06-2021	Sibasagar Girls College.
	presentation			(Online).
	Paper	International Conference	22-02-2022.	Digital Humanities Alliance
	presentation	DHARTI 2022 on The		for Research and Teaching
		Digital Divides:		Innovations. (Online)
		Discontents, Debates and		
		Discussions		

Invited Talk

Name of	Title of the Talk	Title of the	Date	Organizer and
Faculty		Event		Venue
Member				
Jyotishman	Asamiya Upanyasat	Online Lecture	07-06-2021	Sapatgram College,
Das	Pariparshik Sajagata Prasanga			Assam
	(Ecological Consciousness in			
	Assamese Novel),			
	Background of Romantic	Online Lecture	04-08-2021	Department of
	Literature			Assamese, North
				Lakhimpur College
				(Autonomous)
	Contemporary Assamese	Seminar on	20-09-2021	Saijum-The Group
	Short-story	"Contemporary		of Study, Bodoland
		Assamese		University
		Literature"		
	The Art of Essay Writing	Online Literary	16-01-2022	Damdama College,
		Workshop	<u> </u>	Kamrup

Sanjib Deka	Galpa Likhar Kausal Kenekoi	Online Lecture	15-06-2021	Dhemaji College
U U	Ayatva Kariba Pari			Students' Union,
				Dhemaji College.
				Online
	Asamiya Sahityar Itihas:	Online Lecture	27-06-2021	Department of
	Pathan aru Punarpathan			Assamese, Khowang
				College, Dibrugarh
	Asamiya Bhasar Itihasar	Online Lecture	04-07-2021	Asamiya Club,
	Ketbor Dis: Nirman aru			Tezpur
	Binirman			
Subrat	Jyotiprasad, Joymoti,	Invited Talk	29 -12-2021	Karntikal Prakashan,
Jyoti Neog	Indramalati and Beyond			Nagaon.
	Trends of Assamese short	Invite Talk	27-03-2022	Sirantan Sahitya,
	story			Guwahati.
	Playwright Jyotiprasad	Radio Talk	16-01-2022	All India
				Radio,Naagaon
	Fiction Series in TV:	Invited Talk	20-03-2022	Rang Channel,
	Challenges and Prospect			Guwahati

Awards/Honours/Notable Achievements

Name of	Designation of Awardee	Achievement	Event/Awarded by
Awardee			
Subrat	Faculty Member	Jury member of the Indian	Ministry of Information and
Jyoti Neog		panorama-2021	Broadcasting, Govt. of India

Other Significant Activities of the Department

- Webinar: "Homen Borgohain's Literature", 25-05-2021
- Online Faculty Development Programme (FDP): on "Issues of Exclusion in Assamese Literature", 12-07-2021 to 16-07-2021
- Celebration: Third Foundation Day Celebration of Department of Assamese, Tezpur University, 1-07-2021.
- Observation: Observance of Sankaradeva Tithi, 8-09-2021
- Workshop: A Weeklong Workshop on "Assamese Manuscript Reading and Textual Criticism", 25-10-2021 to 31-10-2021
- Inaugural Ceremony of Departmental magazine "Kixalaya", 12-11-2021
- Distinguished Lecture Series: Under the umbrella of "Azadi Ka Amrit Mahotsav", 7-09-2021, 6-11-2021 and 16-11-2021
- Workshop: "Teaching and Research Aptitude", 23-11-2021
- An extension activity to preserve Sanchipat Manuscript at two satras of Tezpur locality namely Nikamul and Baralimara from 29-11-2021 to 31-11-2021
- Awareness and Sensitization Program on GOOD ACADEMIC RESEARCH PRACTICES, 05-12-2021 to 06-12-2021
- Extension Activitiy in collaboration with Asam Sahitya Sabha on the occasion of 150th birth anniversary celebration of Padmanath Gohain Baruah at Asamiya Bhasa Unnati Sadhini Sabha Prangan, Kalibari, Tezpur. 15-12-2021.
- Workshop: "Reading Sancibark Manuscript and Conservation" at Nikamul Satra Premise 25-12-2021 to 27-12-2021.

- Online Lecture Series: Speakers: Prof. Prakash Pattanayak, Delhi University, Bhaskar Hazarika, Eminent Film Maker; Dr. Kalpana Sarma Kalita, Cotton University, Prof Subha Satyanath, Delhi University, 06-09-202 to 07-12-2021
- A weeklong Lecture Series: "Digital Humanities" by Dr. Koel Mitra, 1-02-2022 to 07-02-2022.
- Observance of International Mother Language Day, 21-02-2022.
- Symposium: "Assamese Music and Cinema", 21-03-2022 & 22-03-2022.
- Performance of "Ekanta Enisha" an Assamese Play by Abinash Sarma, 27-04-2022.
- Talk on "Growth and Development of Assamese Novel" by Prof. Gobindra Prasad Sarma, Rtd. Professor, Gauhati University, 11-04-2022 & 12-04-2022.

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
NET	03	MA

DEPARTMENT OF CULTURAL STUDIES

About the Department

The Department of Cultural Studies, Tezpur University, is one of the earliest Departments in the country to be devoted to the pursuit of cultural studies. Founded in 1995, the department engages with cultural products, practices and forms with a special focus on North-East India. Its curricula focus on interdisciplinary approaches to traditional fields of study where the aim is to explore emergent cultural and cross-cultural phenomena from multiple points of view. Researchers and faculties, drawn from various disciplines like Anthropology, Performance Studies, Literature, Folklore, Media and Film, Gender Studies are actively engaged in exploring subjects like cultural history, folklore and culture, local and national media, heritage, gender, cultural theory, comparative literature, translation, and formation of nationalisms.

Academic Programmes and Student Intake

Academic Programme	Student Intake
MA in Cultural Studies	35
Ph.D.	Variable (02 admitted in 2021-22)

Thrust Research Areas of the Department

- Cultural History
- Media and Popular Culture
- Cultures of North-East India

Major Facilities/Equipment available

- Facilities:
 - Departmental museum
 - Departmental library
 - Digital archive of cultural contents
 - Audio-visual classroom cum seminar hall with projector
 - Wall of Heroes: A photo gallery of Indian freedom fighters
- Equipment:
 - NAS server
 - Workstations for audio-visual processing
 - DSLR cameras and video camcorders

Faculty Members

Designation	Name	Highest	Specialization	<email></email>	Date of
		Qualification		@tezu.ernet.in	holding the
		(Institute)			current
					position
	Debarshi Prasad	Ph.D.	Cultural Theory and	dpnath	22-10-2014
	Nath	(Rajiv	Contemporary Culture &		
		Gandhi	Films, Comparative		
Professor		University)	Literature and		
			Translation, Cultural		
			Memory and Cultures of		
			Northeast India		
Associate	Parasmoni	Ph.D.	Oral history, Digital	paras	18-11-2019

Professor	Dutta	(TU)	culture, Heritage studies		
			and Cinema &		
			advertisements		
	Madhurima	Ph.D.	Performance Studies,	mgs	04-04-2014
	Goswami	(TU)	Women Studies and		
			Indian Poetics		
	Juri Gogoi	Ph.D.	Anthropology of Textile,	jgkon	03-11-2009
	Konwar	(Dibrugarh	Anthropology of Food,		
		University)	Ethnicity and Medical		
			Anthropology		
	Jayanta	Ph.D.	Media & Culture,	jvdas	16-11-2009
	Vishnu Das	(TU)	Comparative Media		
			Studies and Media and		
			Globalization		
Assistant	Mandakini	Ph.D.	Gender Studies, Folklore	mb	13-10-2010
Professor	Baruah	(TU)	Studies, Television		
			Studies and Paremiology		
	Hashik	Ph.D.	Performance studies,	hashikk	17-09-2012
	Nadukkandiyil	(Hyderabad	Community studies and		
		University)	Cultural history		
	Moushumi	Ph.D.	Visual art and culture	moushumi	03-04-2017
	Kandali	(MS			
		University,			
		Baroda)			
Adjunct	Alison East	MPhEd	Dance Ethnography	alieast41	23-11-2021
Faculty		(University of			
		Otago)	~		
	Barbara Hellen	Ph.D.	Community Dance	b.snook	23-11-2021
	Snook	(University of			
		Auckland)			

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the current
			position
Assistant	Suren Baruah	suren	01-05-2013
Assistant Curator	Mrs. Subhra Devi	sd	08-04-2011
MTS	Luhit Bhuyan		01-10-1995

Research Projects (both Ongoing and New)

Project Title	Funding	Amount	Duration	Investigator(s)
	Agency	(in INR)		
SAP-DRS II: Sacred Spaces on the Banks of	UGC	76 lakh	5 years	Debarshi Prasad
the River Brahmaputra			(2018-23)	Nath
Archiving, Modeling and Visualization of the	DST	47.17 lakh	3 years	Parasmoni
Eco-Cultural Heritage of Majuli River Island			(2019-2022)	Dutta
of Assam			Extended till	
			2023	

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

• Wanlaya, N. and Gogoi Konwar, J. (2021) Poi Sanglong/Poi Khamsang : The Study of Rite of Passage in Tai man's life in Tai Yai Community of Ban Pangmoo Village, Maehongson,

Thailand and Tai Aiton Community of Banlung Mantai , Karbi Anglong District, Assam, India. *Turkish Journal of Computer and Mathematics Education*. 12(8): 2564-2575.

- Ngutoli Y Swe and Gogoi Konwar, J. (2021). Degeneration of 'Memory': the case of Sumi Naga. *Journal of the Indian Anthropological Society*. 56(2): 138-153.
- Hazarika, P. and Nath, D.P. (2022) 'Understanding Cultural Nationalism in Assam: Perspectives from the Plays of Jyotiprasad Agarwala and Bishnuprasad Rava' in Rupkatha Journal on Interdisciplinary Studies in Humanities (Scopus Indexed) 14(2).
- Sarmah, P. and Nath, D.P. (2022) 'Oti axamiyagiri: Assamese nationalistic masculine identity, United Liberation Front of Asom and cyberspace'. *Ethnicities, A Sage Publication*. 1–17.
- Gogoi Konwar J. and Konwar B. K. (2021) Xu Xamparkar Birol Namuna Moglou Rajkumari aru Asomor Borkunwari Kuranganayani (Part 2). *Gariyoshi*. XXVIII (7): 44-47.
- Phukan, B.J. and Gogoi Konwar J. (2021) An Understanding of Slogans- the Rhetoric of the Assam Movement (1979-1985). *Journal of the Indian Anthropological Society*. 56:25-40.
- Kandali, M. (2021) 'Silpi Shibha BrahmarKalachetanat Naari'. *Gariyoshi*. 37 (11): 42-45.
- Kandali, M. 'Lokokalar Sugandhi aru Kavi Nilomoni Phukanar Lokokalpadristi'. *Gariyoshi*. 39 (11): 42-45.
- Kandali, M. 'Pratham Shriti , Satsori. 34 (1): 127-129.
- Hashik, N.K. (2021) Migration, Films and Muslims of Kerala: Between Host and Home. *Ishal Paithrkam.* 25:47-74.
- Baruah, M. 2022. "Menarche Rituals for Constructing Feminine Identity: Observing Nowai Tolani Biya, the Menarche Rituals of Assam". Dilip Kumar Kalita (ed.) Anandam Journal of Anundoram Borooah Institute of Language, Art and Culture, Assam. 11.
- Gogoi, M. and Baruah, M. 2020-21. "Food as a Gendered Text: An Analysis from Visual Media." Srotaswini. V: 138-144.

Publication of Books

• Kandali, M. (2022) *The Black magic Women, a collection of short fiction*, Penguin Random House India, (A VINTAGE imprint in the USA, Canada, UK, Ireland, Australia, New Zealand ,India , South Africa, China).

Publication of Book-chapters

- Gogoi Konwar, J. (2021). Sanctum Sanctorum, Art and Chaklong: Retelling the Story of a Tai-Ahom Ceremony. In *Art Design and Society: Global Perspective*. Pandey A. and Kumari S., editors, pages 70-76. Macmillan Education, New Delhi.
- Dutta, P. (2021). Questions around Ram Vijay: Sattriya in a Monastic Tradition. In *Performing the Ramayana Tradition: Enactments, Interpretations, and Arguments.* Richman P. and Bharucha, R. New York: Oxford University Press.
- Nath, D.P. (2022). Myth: Its Uses and Abuses. In *Myth and Tales of Koch-Rajbangshis of Western Assam.* Ed. Nath Bhakat, D. Sahitya Akademi, New Delhi.
- Dowerah, S. and Nath, D.P. (2021). Memory, Homeland and the Search for the 'Native' in Bokul. Narrative Cultures of North East India: Traditions, Texts and Representations. Ara, A. Sharma, D. Gogoi, B.J. and Sen, S. Pencraft International, New Delhi.
- Baruah, M. (2022). "Asomiya Prabad aru Nari". Binapani Devi Kataki (Ed.) Sanskriti Bikhyan. Jorhat: J.B. College. 259-264. ISBN: 978-81-929622-9-0.
- Nath, D.P. (2022). Translated the short story 'Retirement' in the anthology titled *A Solitary Place* (*stories by Ajanta*) Bedakantha Publishers, Jorhat.

Publication of Policy Documents

• Nath, D.P., Thakur S., Snook B., Das J.V., Goswami K.J., Duwarah J. and Pegu, D. (2021). *Training Module titled Folklore for Adolescent Empowerment and Social Change*. A Collaborative Venture by the Department of Cultural Studies, Tezpur University, Samagra Shiksha, Assam and UNICEF Assam.

	1 0 1			
Name of	Purpose of	Title of Event	Date/Period	Organizer and Venue
Faculty/ Staff	Attending			
Member				
Debarshi	Chaired a	National Seminar on	21-01-2022	Centre for North East Studies
Prasad Nath	session	'Folklore, Folklife and	to	and Policy Research of Jamia
		Cultural Memory'	25-01-2022	Millia Islamia, New Delhi.

Conference/Workshop/Symposium/Seminar etc. Attended

Invited Talk

Name of	Title of the	Title of the Event	Date	Organizer and Venue
Faculty	Talk			
Member				
Debarshi	Charting a	2nd International e-	22.10.2021	New Literaria - An International
Prasad	New Course	Conference on	to	Journal of Interdisciplinary Studies in
Nath	for Cultural	'Contemporary	24.10.2021	Humanities. In collaboration with
	Studies in	Trends and		Department of History, Humanities
	India:	Development in		and Society, University of Rome Tor
	Speaking from	Cultural Studies and		Vergata, Italy & Department of
	the Margin	the Humanities'		English, Guru Ghasidas
				Vishwavidyalaya, Bilaspur, India
	Cultural	National Webinar on	27-09-2021	Mudhoji College (affiliated to Shivaji
	Studies as a	'Cultural Studies: A		University, Maharashtra), Phaltan,
	New Approach	New Approach to		Maharashtra
		Explore Cultures,		
		Cultural Texts and		
		Artifacts'		

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
JRF	01	MA in Cultural Studies

Notable Placement of Students

Name of	Academic		Placement	Company/ Organization	Mode of
Student	Programme		Designation		Selection
Rituparna	MA and Ph	nD in	Research	Dr APJ Abdul Kalam Centre for Policy	Off-
Hazarika	Cultural Studie	es	Associate	Research and Analysis, Indian Institute	Campus
				of Management Shillong	
Liza	MA in C	ultural	Assistant	Federation of Indian FPOs and	Off-
Bhattacharyya Studies		Manager	Aggregators (wholly subsidiary of	Campus	
				NAFED), New Delhi	
Krishna	MA in C	ultural	Estate	Thengal Cultural Centre and Museum,	Off-
Kumar Saikia	Studies		Manager	Titabar	Campus

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic Programme	Name of other Institute	Enrolled Academic Programme
Simpi Phukan	MA in Cultural Studies	Bodoland University	Ph.D. in English

DEPARTMENT OF EDUCATION

About the Department

The Department of Education, Tezpur University, was established in the year 2014 with an aim to prepare learners for meaningful careers in the field of education. Teacher Education Program assists students in developing knowledge, skills, and dispositions necessary to become effective and caring teachers in an ever-changing society. Currently, the department of education runs four programmes. MA in Education which provides learners with a more comprehensive understanding of education as a field of knowledge, Two Year B.Ed. programme, which prepares students to work as teachers in schools, Integrated B.Ed. with B.Sc./B.A. and Ph.D. in education.

Academic Programmes and Student Intake

Academic Programme	Student Intake
2 Year B.Ed.	50
Integrated B.Ed. with B.Sc./ B.A.	50
M.A. in Education	35
Ph.D. (Education)	Variable (no student admitted in 2021-22)

Thrust Research Areas of the Department

- Curriculum and Pedagogical studies for School Education
- Teacher Education
- Contemporary Educational issues in North East India
- ICT in Education

Major Facilities/Equipment available

- Psychology Resource Centre
- Art and Craft Resource Centre
- Curriculum Laboratory
- ICT Resource Centre
- Departmental Library

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
Professor	Nil Ratan Roy	Ph.D. (Assam University)	Curriculum Development, Educational Planning and Administration, Teacher Education, Education for Disadvantaged groups, Measurement and Evaluation	niledn	31-08-2016
Assistant Professor	Yeasmin Sultana	Ph.D. (Assam University)	Language Education, Educational Technology, Research Methodology in Education	yeasmin	11-09-2014

R. D.	Ph.D.	Mathematics Education,	padma	15-09-2014
Padmavathy	(Pondicherry)	Research Methodology &		
		Statistics in Education,		
		Educational Psychology,		
		Cognitive Science,		
		Educational Technology,		
		e-content Development,		
		Guidance and Counseling, Environmental Education,		
		Adult and Continuing		
		Education.		
Hitesh	Ph.D.	Educational Psychology,	hitesh	16-09-2014
Sharma	(DAVV,	ICT in Education,	meesn	10 07 2011
~	Indore)	Research Methodology		
		and SPSS, Educational		
		Administration, Guidance		
		and Counseling, Method		
		of Teaching Physical		
		sciences, Method Of		
		Teaching Biological		
		sciences, Early Childhood		
		Education		
Sashapra	Ph.D.	Educational Psychology,	sashapra	23-09-2014
Chakrawarty	(BHU)	Educational Research,		
		Special Needs Education,		
		Method of Teaching in		
		Biological Science/Elementary		
		Education.		
Pratima	Ph.D.	Pedagogy of Social	pratima	23-9-2014
Pallai	(University of	Science, ICT in	practina	
	Lucknow)	Education, Teacher		
	,	Education Measurement		
		and Evaluation		
Md. Asif	M.A. (AMU),	Contemporary Indian	mdasif	20-07-2016
	M.Ed. (Jamia	Education, Teacher		
	Millia	Education, Educational		
	Islamia)	Technology, Pedagogy of		
~ ~ ~		Social Science		
Sradhanjali	Ph.D. (Utkal	Pedagogy of Physical	sradha	25-07-2016
Pradhan	University)	Science, Educational		
		Technology and ICT in		
		Education, Measurement and Evaluation		
Rajinder	Ph.D. (Panjab	Educational Technology,	badotra	03-08-2016
Singh	University)	Teacher Education,	Dauotra	03-08-2010
Singh	Oniversity)	Language Education		
Sanghamitra	Ph.D.	Gender and Education	Sdas19	20-11-2019
Das	(NIEPA, New		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
	Delhi)			
	Ph.D. (R.I.E.	Science Education,	drgrana	25-11-2019

		Ajmer,	Learning & Teaching,		
		NCERT/	Guidance &		
		MDSU,	Counselling/Constructivis		
		Ajmer)	m & Thinking Skills		
	Jaya Yadav	Ph.D.	Teacher Education	jytuedu	05-01-2021
		(Kurukshetra			
		University)			
	Sweety	Ph.D. (EFLU,	Teacher Education	sweetyl	05-01-2021
	Lakra	Hyderabad.			
	V.R. Rajesh	Ph.D. (Tamil	Teacher Education	rajeshvr	23-09-2021
		Nadu Teacher			
		Education			
		University)			
Guest	Soumyabrata	M.Phil	Teacher Education	Smbrt94	07-01-2021
Faculty	Mahapatra	(Ravenshaw			
		University,			
		Cuttack)			
	Bandita Das	M.Ed.	Teacher Education	bandita	24-09-2021
		(Gauhati			
		University)			
	Reeju	M.Ed.	Teacher Education	reejub9	27-09-2021
	Bargayary	(Pondicherry		-	
		University)			

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the
			current position
Technical Assistant	Amarnath Sah	amarsah	30-08-2019
Laboratory Assistant	Nilakshi Saikia	nilakshi	22-08-2019
Library Attendant	Chandan Nath	nathchn	04-03-2020
Laboratory Attendant	Anupam Saikia	anupams	12-03-2020
Office Assistant (Outsourced)	Suman Handique	sumanh	09-06-2020
MTS	Nitai Bauri	nitai12	01-01-1995

Research Projects (both Ongoing and New)

Project Title	Funding	Amount	Duration	Investigator(s)
	Agency	(in INR)		
Substance abuse and suicidal behavior among	ICMR, New	28,24,500	12	Nil Ratan Roy
college students in Northeast India	Delhi		Months	(Co-PI)
National Cadet Corps as an Open Elective Credit	ICSSR,	3.48	12	Hitesh Sharma
Course in the Universities within the Framework	New Delhi	Lakhs	Months	
of NEP 2020				

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Das, S.S. and Roy, N.R. (2021). Study on Parental Involvement in Educational Development of the Children of Tea Garden Labourers in Assam. *The Journal of Oriental Research Madras*: 116-125.
- Sutradhar, S & Roy N.R (2021). A Study on the Significance and Importance of Spiritual Intelligence in Education. *Kala Sarovar* 24(3):134-140.

- Sutradhar, S & Roy N.R. (2021). A Study on Gandhian Philosophy in the Context of Spirituality and its significance in Education. *AADHUNIK SAHITYA' A quarterly bilingual (Hindi & English) Journal of Literature, Culture Modern Thinking*, 38: 169-176.
- Sutradhar, S & Roy N.R (2021). Spiritual Intelligence in the realm of Education: A Study on General Review. *Aalochan Drishti*, 22: 174-177.
- Saikia, H. & Roy, N. R (2021). Pre-Primary Schools are the stepping stone for sustainable School Education: An Investigation. *Education India: A Quarterly Refereed Journal of Dialogues on Education*, 10(2): 436-449.
- Das, P & Roy, N.R (2021). Construction of Student Engagement Scale for Activity Based Teaching-Learning Approach. *Education India: A Quarterly Refereed Journal of Dialogues on Education*, 10(4): 35-39.
- Padmavathy, R.D. (2021). Preservice Teacher trainee's attitudes towards E learning and satisfaction factors prior and during Covid- 19: A Comparative Study. *Turkish Online Journal of Qualitative Inquiry*, 12(8): 890-908.
- Padmavathy, R.D. (2021). Influence of Education Levels, Technical Abilities and Students' Satisfaction on dimensions of E-Learning attitude among University Students, *Indian Journal of Natural Sciences*, 12(67): 32814- 32827.
- Padmavathy, R.D. (2021). Does Techno-Pedagogical Content Competencies leverage Student Teachers Professional growth: An Investigation, Akshar Wangmay, 4(4): 46-48
- Padmavathy, R.D. (2021). Assessing the Attitude of University Students towards E-learning: A Case Study of Tezpur University, *Indian Journal of Adult Education*, 82 (2): 146-157.
- Saikia, J. and Padmavathy, R.D. (2021). Perception of Pre-Service Teachers towards Technological Pedagogical and Content Knowledge (TPACK), *International Journal of Biology, Pharmacy and Allied Sciences*, 10(7): 2495-2509.
- Das, J. and Padmavathy, R.D. (2021). Relationship between Social Networking Addiction and Academic Performance of Undergraduate Students during Covid-19 Pandemic, *Advances and Applications in Statistics*, 70(1): 46-67.
- Chakrawarty, S(2021). Effectiveness of Collaborative Learning in Enhancing Motivation among 4th Semester Integrated B. Ed. Students of Department of Education, Tezpur University. *Journal of Interdisciplinary Cycle Research*, 13(8): 1276-1285
- Rai, K. and Singh, R. (2021). Conflicts in schools: Causative factors and Resolution strategies. *Journal of Educational, Cultural and Psychological Studies*, 24, 109-127. DOI: <u>https://doi.org/10.7358/ecps-2021-024-rasi</u>
- Chitrakar, N. and Sharma, H. (2021). Problem Solving Ability of Undergraduate and Post Graduate Students of Tezpur University: A Case Study. *Education India Journal: A Quarterly Refereed Journal of Dialogues on Education*, 10(2): 376-386.
- Mushahari, M. and Sharma, H (2022).: Experiential Learning in Pre-Service Teacher Education: Attitude of Teacher Trainees and Challenges Faced. *Journal of Positive School Psychology* 6 (4): 568-576.

Publication of Books

• Padmavathy, R.D., Raja, M., Sharma, R., and Ghosh, L. (2021). *Educational Management: Updating the ways of learning*, Academic Guru Publishing House, ISBN: 978-81-95608188, Bhopal, India. 1st edition.

• Sruthi, S., Padmavathy,R.D. Patil, P.V., Nawale,R., Patil. G.G., and Sujatha,J., , (2021).. Edited *Contemporary Issues in Multidisciplinary Subjects*, *Volume-3*, ISBN: 978-93-239587. In Red Shine Publication PVT.LTD. 1st edition.

Publication of Book Chapters

- Dey, A., Roy, N. & Paul, R. (2021). Emotional Intelligence: A Genere of Transformational Leadership Development. In Mishra, Savita, Biswas, Sanjit & Das Arjun Chandra, editors, *Educational System of Contemporary India*, pages 125-134 Mittal Publications, New Delhi (India).
- Padmavathy,R.D. (2021). Reasoning Ability and Research Attitude among Graduates: A New Look. In Jain, K.A., and Kaur. P, editors, *Emerging Paradigm in Management and Social Science*, pages 143–148, National Press Associates, New Delhi.
- Padmavathy, R.D. (2021).Understanding the Role and Potential of Media literacy in promoting Mathematical Competencies: Need of Hour. In Tripathy, S., editor, *Emerging New Age Challenges and Opportunity in Social Science*, pages 68-73, INSC International Publishers.
- Padmavathy, R.D. (2021). Extend Duration of B.ED & M.ED Programme: Augment Excellence among Aspiring Teachers. In Sruthi, S., Padmavathy, R.D., Patil, P.V., Nawale, R., Patil. G.G., and Sujatha, J., editors, *Contemporary Issues in Multidisciplinary Subjects*, Volume-3, pages 70-77, ISBN: 978-93-239587. Red Shine Publication PVT.LTD.
- Singh, R. & Mukherjee, D. (2021). Exploration of Innovative Classroom Practices with Special Reference to NCF 2005 and Educational Perspective of Rabindranath Tagore: A Reflective Study. *In Meaningful Education*, pages 71-78, ISBN:978-93-90953-42-4. Twenty first Century Publications.
- Pradhan S. (2021). Measurement of Creativity. In *Measurement and Evaluation in Education*, pages 303-321, ISBN: 978-93-91026-46-2. Krishna Kanta Handiqui State Open University
- Mushahari, P. & Sharma, H. (2021). A Study on Teacher Trainees' Perception towards Community Engagement in Teacher Education Programme of Tezpur University. In Loyi, R. & Taba, P. editors, *India/Northeast India: Issues, Dynamics and Emerging Realities*, pages 251-264, ISBN 978-81-950485-4-0. Kumud Publications.
- Sharma, H. (2021). Role of NCC in Personality Development of Youth in India. In Swain, S. & Jena, B. editors, *Extension Services in Higher Education* pages 51-60, ISBN 978-81-953651-6-6. Kunal Books.
- Koch, P. & Sharma, H. (2022). The Foundation Stage: A National Education Policy 2020 Perspective. In Deepa, et al editors, *Language Literature and Education* pages 9-16, ISBN 978-93-91060-89-3. Banalata.

Inventor(s)	Patent Title	Application/	Published/	Country		
		Patent Number	Granted			
Jayaprakash J., Dr. R.D. Padmavathy,	Tracking,	Application No:	Published	Indian		
Dr. Dhiren Ramanbhai Patel, Raghav	Observation, and	202241000408				
Dwivedi, Dr. D. Prasanna, S.	Monitoring of					
Syedakbar, Bheemaraju Sarni, Prof.	School Children's					
Rashmin, Shaileshbhai Tanna, Prof.	Using Android					
Riddhi Rashmin Tanna and	Mobile and NFC					
D.Vidhyalakshmi	Technology					
Dr. R .D. Padmavathy, Dr. K.	Methodology For	Application No:	Published	Indian		

Publication of Patents

Akalyadevi, Dr. M S Suganthiya,	Implementation	202211002249	
Thatikonda Somashekar, Parepalli	Online Classroom		
Nageswara Rao, Anagha Mahajan,	Platform Learning		
Manohar Manchala, Shweta Suraj	Technique		
Bandhekar, Dr. S. Padmapriya,			
Dr. Huma Khan, Prof. Makhan			
Kumbhkar, Dr. Yameen Khan and			
Ankur Gupta			

Conference/Workshop/Symposium/Seminar etc. Attended

Name of Faculty/Staff Member	Purpose of Attending	Title of Event	Date/Period	Organizer and Venue
N. R. Roy	Paper presentation	International Seminar on Online Teacher Effectiveness and Digital Capabilities: Keys for Quality Education and Research	05-10-2021 to 06-10-2021	Faculty of Humanities and Social Sciences, Chiang Mai Rajabhat University, Chiang Mai, Thailand in collaboration with the Department of Philosophy and IQAC, Morn College, Moranhat, Charaideo Dist., Assam, India and Department of Education and IQAC, NEHU, Shillong, Meghalaya, India
	Paper presentation	ICSSR-NERC Sponsored Two Day National Seminar on Efficacy of Virtual Learning in Higher Education Institutions in the Plight of COVID-19	10-01-2022 to 11-01-2022	Department of Education, Lakhimpur Girls' College, Khelmati, North Lakhimpur, Assam
	Chief Guest	Workshop on Vocational Education Pedagogy Action Plan 201-22	26-10-2021	Mahatma Gandhi National Council of Rural Education, Hyderabad (Online)
	Participation	Summit of North East VC's for NEP 2020 Implementation	13-11-2021	Shiksha Sanskriti Utthan Nyas (North East)
Padmavathy, R.D	Paper presentation	International Conference on "Contemporary Teaching Pedagogy in Pluralistic Society"	20-08-2021 to 21-08-2021	DAV College,Dehradun, and CEAM Uttarkahand (Online)
	Paper presentation	International Virtual on Contemporary Pe in English Language and Cultural Studies	rspectitves , Diter0+062 1	Sourashtra College Madurai (Online)
	Paper presentation	International Conference on Global Issues In Multidisciplinary Academic Research	31-10-2021	IARA & Rajabhat Maha Sarakham University, Thailand (Online)

	Paper presentation	International Conference on "Emerging Trends of Education in Post COVID World"	27 -11- 2021	Shri Shivaji Shikshan Prasarak Mandal's Colloge of Education, Barshi (Online)
	Paper presentation	International E- Conference on "Recent Trends and Research Methodology in Arts and Humanities"	18-01-2022	Sholapur Social Association's Arts & Commerce College, Solapur (Online)
Sashapra Chakrawarty	Paper presentation	Techno-Pedagogical Skill: An Indispensable Skill for a 21 st Century Teacher	03-03-2022 to 05-03-2022	Mar Theophus Training College, Nalanchira, Thiruvanthapuram (Online)
	Paper presentation	Student Engagement: The Pathways To Academic Performance.	27-11-2021 to 29-11-2021	RavindraNath Tage University, Hozai, Assam (Online)
	Paper presentation	ICT Competency of B.Ed. Teachers Trainees of the Nagoan District during Pandemic	25-09-2021 to 26-09-2021	Christ College of Education for Women, Tamilnadu (Online)
Sradhanjali Pradhan	Paper presentation	Two Days National Seminar on " Teacher Education in the Perspective of NEP 2020"	15-03-2022 to 16-03-22	IASE Agartala, Tripura
Yeasmin Sultana	Paper presentation	Two-Day National Seminar on Teacher Education in the Perspective of NEP 2020	15-03-2022 to 16-03-2022	Institute of Advanced Studies in Education (IASE) in collaboration with State Council of Educational Research and Training, (SCERT) Govt. of Tripura
	Paper presentation	International Conference on Education, Research and Technology,2022	27-01-2022	School of Education, Adamas University in partnership with International Organisation of Educators and Researchers, Indonesia and Philippines
	Paper presentation	Two-Day National Seminar on Teacher Education in the Perspective of NEP 2020	15-03-2022 to 16-03-2022	Institute of Advanced Studies in Education (IASE) in collaboration with State Council of Educational Research and Training, (SCERT) Govt. of Tripura

Invited Talk

Name of	Title of the Talk		Title of the	Event	Date	Organizer	and
Faculty						Venue	
Member							
N. R.	Multi-Disciplinary,	Inter-	Five Days	workshop on	10-11-2021	National	Law
Roy	Disciplinary and	Trans-	Curriculum	Development		University	and

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Disciplinary Curriculum: A			Judicial Academy,
Discussion on Conceptual	Courses		Assam
Convergence and			
Divergence		10.01.2022	
	ICSSR NERC Sponsored		Department of
Learning in Higher Education Institutions in	two Day National Seminar	to 11-01-2022	Education,
		11-01-2022	Lakhimpur Girls'
the Plight of COVID-19			College, Khelmati, Lakhimpur, Assam
Literacy for Human	International Literacy Day,	08-09-2021	Departmet of
Literacy for Human Centered Recovery:		08-09-2021	Education, Kumar
Narrowing the Digital	2021		Bhaskar Verma
Divide			Sanskrit and
Divide			Ancient Studies
			University
Curriculum Designing	Online Refresher Course	04-08-2021	UGC Human
	on Teacher Education	0.00 2021	Resource
			Development
			Centre, Aligargh
			Muslim University
			(AMU)
Designing Curriculum	Faculty Induction	05-08-2021	Teaching Learning
	Programme (FIP)		Centre, TU
Writing Research Proposal	ICSSR sponsored 10 Days	24-12-2021	Department of
	Online Research		Education, Guru
	Methodology Courses on		Ghasidas
	Quantitative Research		Vishwavidyalaya,
	Methods and Use of		Bilashpur (C.G)
	Statistical Software for		
	Social Science		
	Researchers	27.10.2021	Denter
Report Writing in Social Science Research	Online Research	27-10-2021	Department of
Science Research	Methodology Courses for		Management & Department of
	M.Phil/Ph.D/PDF Scholars		Teacher Education,
	in Social Sciences		Nagaland
			University, Kohima
			Campus, Nagaland
			Campus, Magaianu

Awards/Honours/Notable Achievements

Name of	0	Achievement	Event/Awarded by
Awardee	of Awardee		
Padmavathy,	Faculty	Best Research	International Conference on "Emerging Trends of
R.D	member	Paper	Education in Post COVID World" Awarded by Shri
		Presentation	Shivaji Shikshan Prasarak Mandal's Colloge of
			Education, Barshi and Punyashlok Ahilyadevi Holkar
			Solapur University, Solapur.

Other Significant Activities of the Department

- Workshop on Good Academic Research Practices conducted, 7-12-2021
- National Education Day Celebrated, 11-11-2021

- National Mathematics Day celebrated, 22-12-2021
- Plant Exhibition, 22-12-2021

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
NET	23	MA in Education and B.Ed.
SLET	02	MA in Education
JRF	02	Ph.D.
TET	25	B.Ed.
GATE	01	B.Ed.

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Notable Placement of Students

Name of Student	Academic Programme	Placement Designation	Company/ Organization	Mode of Selection
Preeti Lata Devi	B.Ed.	Junior Administrative Assistant	Assam Secretariat	Off-Campus
Mayuri Pathak	B.Ed.	Assistant Professor	Birjhora Kanya Mahavidyala	Off-Campus
Nabanita Borah	B.Ed.	Assistant Professor (Contractual)	Nazir Ajmal Memorial College of Education, Hojai	Off-Campus
Kakoli Baishya	M.A	Guest Faculty	Tezpur University	Off-Campus
Priyanka Koch	Phd	Guest Faculty	Tezpur University	Off-Campus
Kashyapi Kalita	B.Ed.	Guest Faculty	Tezpur University	Off-Campus
Swarnali Bhattacharjee	M.A	Academic Officer	USTM	Off-Campus

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic Programme	Name of other Institute	Enrolled Academic Programme
Panchali Kaushik	MA in Education	Govt. College of Teacher Education (GCTE, Kokrajhar)	B.Ed.
Trisha Mukherjee	MA in Education	Dakhin Guwahati B.Ed. College	B.Ed.
Barsha Kalita	MA in Education	Asom Shikshak Prashikshan Mahavidyalaya, Guwahati	B.Ed.
Sudipta Nath	MA in Education	College of Teacher Education, Tezpur	B.Ed.
Vashwati Sarma	MA in Education	Dakshin Guwahati B.Ed. Guwahati	B.Ed.
Porishmita Saikia	MA in Education	Guwahati University	Ph.D.
Anamika Dutta	B.Ed.	RIE	M.Ed.
Migom Pegu	B.Ed.	NEHU, Shillong	M.Ed.
Ruby Das	B.Ed.	NEHU, Shillong	M.Ed.
Debjani Chakraborty	B.Ed.	Assam University	M.Ed.
Udit Basnet	B.Ed.	RIE	M.Ed.

DEPARTMENT OF ENGLISH

About the Department

The Department of English, earlier named Department of English and Foreign Languages, was established on July 16, 1994, with a Diploma programme in English Language Teaching. The current two-year M.A. programme in English began in January 1997. The academic programmes offered by the Department of English are: Integrated M.A. in English, M.A. in English, and Ph.D. The Department of Foreign Languages and the Department of Linguistics, which were a part of the Department of English, became separate departments in 2019 and 2022 respectively.

The Department received assistance from the UGC under its Department Research Support-Special Assistance Programme (DRS-SAP-Phase II, 2015-2020). The thrust areas are (1) Understanding Colonial and Alternative Modernities in Travel and Life Writings in Assam and (2) Examining Asian and Indian Influences on Modern Assamese. The Department aims to become a leading research hub in Language and Literary Studies in South Asia and to emerge as a centre for Modernity Studies and Translation Studies in South Asia. The Department further aims to enable students to critically engage beyond conventional disciplinary borders and develop a sense of social responsibility and professional commitment in students.

Academic Programmes and Student Intake

Academic Programme	Student Intake
M.A. English (4 semesters)	63
Integrated M.A. in English (10 semesters)	25
Ph.D.	Variable (admitted 01 in 2021-22)

Thrust Research Areas of the Department

- Understanding Colonial and Alternative Modernities in Travel and Life Writings in Assam.
- Examining Asian and Indian Influences on Modern Assamese.

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
Professor	Bijay Kumar Danta	Ph.D. (Utkal University)	American Literature, Critical Theory	bkdanta	28-03-2006
	Farheena Danta	Ph.D. (Dibrugarh University)	American Literature; Modernist Poetics	fdefl	11-06-2009
	Prasanta Kumar Das	Ph.D. (Gauhati University)	Indian Writing in English, Book History, Missionary writings, Non-Fictional Prose	prsnt	30-07-2001
	Sravani Biswas	Ph.D. (NEHU)	Indian Writing in English, Postcolonial Studies with special interest in Partition Literature, Migration and Diaspora studies.	sravani	09-09-2011

Associate	Debasish	Ph.D. (EFL	Curriculum Development,	deva	30-09-1997
Professor	Mohapatra	University,	Materials Production,		
		Hyderabad)	Language Policy		
	Sanjib	Ph.D. (Tezpur	Life Writing, Indian	ssahoo1	27-09-2011
	Sahoo	University)	Writing in English,		
			Popular Culture, Travel		
			Writing		
	Hemjyoti	Ph.D. (Delhi	Gender and Literature,	hjyoti	15-06-2001
	Medhi	University)	Women's Movements,		
			Vernacular Public		
			Spheres, Oral History,		
			Digital Humanities		
Assistant		Ph.D. (Tezpur	Representation in	reita	31-07-2006
Professor	Narzary	University)	Literature, Gender and		
			Literature, New		
			Literatures in English,		
			Postcolonial Literature		
	Pallavi Jha	Ph.D. (University	Children's Literature,	pjefl	12-09-2011
		of Hyderabad)	Indian writing in English,		
			Popular Culture/		
			Literature, New		
			Literatures in English.		
	Bashabi	Ph.D. (Gauhati	Indian Writing in English,	b_gogoi	26-08-2011
	Gogoi	University)	Film Studies and		
			Adaptation theories.		
	Esther	Ph.D. (Gauhati	Contemporary South	esther	01-10-2012
	Daimary	University)	Asian English Literature,		
			British Literature from		
			North East India, Partition		
			Literature.		
	Sarat	Ph.D. (EFLU,	ELT	dolesar	03-04-2017
	Doley	Shc)			
	Raktima	MA (Tezpur	Modernity studies, visual	rbeng	01-12-2021
	Bhuyan	University)	studies, African American		
			literature, health and		
			medicine		

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the	
			current position	
Technical Assistant	Hemen Das	hemen	02-08-2012	
UDC	Jayanta Kr. Gogoi	jayanta	24-06-2019	
MTS	Pranab Kr. Borah	pkborah	01-03-1997	

Research Projects (both Ongoing and New)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
A Stimulus-Appraisal based Study on	DST	28.4 Lakhs	3 Years	S. K. Doley
Motivation Affect in L2 Learning at the Tertiary			(2019-2022)	-
Level with reference to Engineering Students				
Learning English as an L2 in Assam				

SAP- DRS-II	UGC	98 Lakhs	5 Years	P.K. Das
			(2015-2020)	(Coordinator)

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Kashyap, D. and Medhi, H. (2021). Between the Peechil-kamra and the Dabusa: Mapping Worldbuilding and Heterotopic Space on Board the Ibis in Amitav Ghosh's *Sea of Poppies*. *Southeast Asian Review of English (SARE)*, 58 (1): 31-45.
- Daimari, E. (2021). The City of Colombo in Carl Muller's *Colombo* and Shyam Selvadurai's. *The Hungry Ghosts.*" *DUJES*, Dept. of English, Dibrugarh University, 29: 300-312.
- Daimari, E. (2021). Review of Pieter Vermeulen's. *Literature and the Anthropocene* (2020) (Book Review). *English Forum: Journal of the Department of English*, Gauhati University, 8&9: 184-188.
- Doley S. (2021). English Speaking Skills and Indian Undergraduate ESL Learners: Interleaving or Block Practice? *Rupkatha Journal on Interdisciplinary Studies in Humanities*, https://doi.org/10.21659/rupkatha.v13n4.57
- Doley S. (2022). L2 Attitude and Motivation of Secondary, Undergraduate, and Postgraduate ESL Learners in India" *Studies in English Language and Education*. https://doi.org/10.24815/siele.v9i1.21321.
- Daimari, E. (2022). The EcoGothic and Contemporary Sri Lankan English Literature: Reading Ecophobia in Patricia Weerakoon's *Empire's Children* and Roma Tearne's *Mosquito*. *Southeast Asian Review of English (SARE)*, 59 (1): 29-50.

Publication of Book Chapters

- Sahoo S. (2022) "The Char and the City: Reading Miyah Poetry", In K M Baharul Islam, editor, *Literatures from Northeast India: Beyond the Centre-Periphery Debate.* pages 88-101, Routledge.
- Daimari, E. and Daimari, I. (2022). "Ecofeminism and Bodo Folktales and Folksongs." In Douglas A. Vakoch and Nicole Anae, editors, *Indian Feminist Ecocriticism*. pages 93-106, Lanham: Lexington Books.
- Danta, F. 2021 "Protocols of Colonial Hunting: Surveillance, Transgression and the Allegory of Empire in F. T. Pollok's *Wild Sports of Burma and Assam*" *Narrative Cultures of North East India*, pages 154-169, Pencraft, New Delhi.

Name of	Purpose of	Title of Event	Date/Period	Organizer and Venue
Faculty/Staff	Attending			
Member				
P.K. Das	Resource	Beginnings and Endings:	11-08-2021	Bombay IIT online
	Person	Writing a Research Paper		
R. Narzary	Session Chair	International Conference	16-04-2021	Department of Management,
		on Gender Studies and		Humanities and Social
		Women Empowerment.		Sciences, National Institute
				of Technology, Agartala
	Participant	International Day of the	09-08-2021	National Institute of
		World's Indigenous		Bodology, Kokrajhar
		Peoples.		

Conference/Workshop/Symposium/Seminar etc. Attended

B. Gogoi	Paper	From Page to Screen:	19-10-2021	School of Social Sciences
0	presentation	The Evolving Dynamics		and Language, Vellore
	1	of Film Adaptation".		Institute of Technology,
		International Virtual		Chennai.
		Conference on		
		'Humanities through		
		Literature, Film and		
		Media'		
	Paper	'His Film': Satyajit	02-03-2022	Organized by IACLALS
	Presentation	Ray's Vision of Pather		
		Panchali". International		
		Online Conference on		
		'Circulations, Mediations,		
		Negotiations: New		
		Perspectives on		
		Translation from South		
		Asia'		
E. Daimari	Participation	Folklore as Resistance:	09-03-2022	Dept. of Cultural Studies,
		Insights from North East		Tezpur University
		India		
	Paper	Pandemic and	12-03-2022	SALA 2022 virtual
	Presentation	Alternative Medicines: A		Conference, South Asian
		Reading of Bodo		Literary Association
		folktales and folksongs		
S.K. Doley	Paper	Pedagogical Effects of	28-08-2021	2nd Rupkatha International
	Presentation	Interleaving and Block		Open Conference (Online)
		Practice on		
		Undergraduate ESL		
		Learners' Speaking Skill:		
		An Experimental Study		

Invited Talk

Name of	Title of the Talk	Title of the Event	Date	Organizer and Venue
Faculty				
Member				
B.K. Danta	NEP-2020: A	NEP-2020: A Gandhian	03-02-2021	Jhanji Hemnath Sarma
	Gandhian	Perspective		College, Jhanji
	Perspective			
	Krishnaleela Texts	International Conference	05-02-2021	Ravenshaw University and
	in Southern Odisha:	(Online) on The Polite	to	University of Hyderabad
	Historicizing	World of Bhakti in	07-02-2021	(Online)
	Production and	Odisha: From Early		
	Politeness.	Modern to Modern		
	Interdisciplinarity	Faculty Induction	25-02-2021	HRDC-JNU, New Delhi
	across Locations	Programme - IV		(Online)
	and Disciplines			
	A Pattern in the	Professor Dilip Kumar	07-07-2021	Dibrugarh University
	Pursuits: The	Barua Memorial Lecture		(Online)
	Unbilled Hours of			
	Prof. Dilip Kumar			
	Barua			
	Politeness:	Resource Person in an	17-07-2021	Ravenshaw University and
	Materiality and	International Workshop		University of Hyderabad

Methos in Literary	on "Politeness: In Search		(Online).
Cultures	of a Category"		
Edward Carpenter's	Plenary talk at an	19-07-2021	University of Burdwan
Personal	international webinar In		
Democracy: Re-	Memoriam: In Victorian		
Visiting Late	Times		
Victorian			
Fellowship,			
Friendship, and			
Affect via Dilip			
Kumar Barua			
Rivers as Healers in	UGC-HRDC FIP-04,	11-09-2021	Gauhati University UGC-
India's Literary	Gauhati University		HRDC (FIP-04 Online)
Cultures" [Ganga,	5		
Yamuna and			
Narmada]			
Review of Literature	Workshop on Research	22-09-2021	Ambedkar Centre, Tezpur
in Research	Methodology	22 09 2021	University
The Ideological Turn		11-11-2021	Department of English,
in Literature and	Seminar	11 11 2021	University of Science and
Criticism	Semma		Technology Meghalaya
The ABC of Review	Workshop on Research	11-11-2021	Sazolie College, Phenzhu,
of Literature and	Methodology	11-11-2021	Kohima, Nagaland
	Methodology		Komma, Nagaland
Synopsis Writing		07 12 2021	Demonstration of English
Good Academic	UGC-GARP in Indian	07-12-2021	Department of English,
Research Practices:	HEIs		Tezpur University
The 5 I's (Investing			
in Integrity,			
Individuals,			
Institutions, Interests			
and Instruments)		10.10.0001	
Learning Outcome-	Faculty Development	18-12-2021	Teaching Learning Centre,
Based Teaching	Programme on New		Tezpur University (Online)
(English)	Trends in English		
	Studies	10.10.0001	m 1: x : ~
New Materialism	Faculty Development	19-12-2021	Teaching Learning Centre,
and the Literature of	Programme on New		Tezpur University (Online)
Things	Trends in English		
	Studies		
Rivers as Healers in	UGC-HRDC FIP-05,	02-02-2022	Gauhati University UGC-
India's Literary	Gauhati University		HRDC GURU-DAKSHTA
Cultures			(FIP-05 Online),
		1	
[Brahmaputra,			
[Brahmaputra,			
[Brahmaputra, Vaitarani and	National Webinar on	12-02-2022	Ganjam College, Ganjam,
[Brahmaputra, Vaitarani and Mahanadi]	National Webinar on Reading Literature	12-02-2022	Ganjam College, Ganjam, Odisha
[Brahmaputra, Vaitarani and Mahanadi] Four Approaches to Literary Criticism:		12-02-2022	• • •
[Brahmaputra, Vaitarani and Mahanadi] Four Approaches to Literary Criticism: Reading	Reading Literature	12-02-2022	• • •
[Brahmaputra, Vaitarani and Mahanadi] Four Approaches to Literary Criticism: Reading Literature/Doing	Reading Literature	12-02-2022	• • •
[Brahmaputra, Vaitarani and Mahanadi] Four Approaches to Literary Criticism: Reading Literature/Doing Theory through	Reading Literature	12-02-2022	• • •
[Brahmaputra, Vaitarani and Mahanadi] Four Approaches to Literary Criticism: Reading Literature/Doing	Reading Literature	12-02-2022	• • •

	Supervision in English	Supervisors [Panellists: Bijay K Danta, Nirmala Menon, Ashok Mohapatra, Asim		University of Hyderabad
		Siddiqui; Coordinator: K Narayana Chandran]		
	The Power and Horror of Walking: Shadows of Gandhi, Joyce, Faulkner	Seminar on "The Books of 1922,"	23-03-2022	Department of English, Tezpur University
F. Danta	Microspecting Allusions, Absences and Presences in T.S. Eliot's The Waste Land	National Seminar on "The Books of 1922"	24-03-2022	Department of English, Tezpur University
	The Americanness of American Literature	National Webinar on "Reading Literature across Boundaries"	12-02-2022	
	Asian American Migration Narratives: The Autobiographical Imperative	International Conference on "Synergising Technology, Language and Literature: Towards Mapping New Directions in Higher Education"	22-02-2022	St Joseph's College of Commerce (Autonomous), Bengaluru and Sri Ramkrishna College of Arts and Science (Autonomous), Coimbatore
	Migration Narratives- I	Faculty Development Program on "New Trends in English Studies"	17-01-2022	Teaching Learning Centre (TLC), Tezpur University
	Migration Narratives—II: Reading Asian American Narratives	Faculty Development Program on "New Trends in English Studies"	19-01-2022	Teaching Learning Centre (TLC), Tezpur University
	Nature in Literature: From God's Book to the Writer's Universe	International Webinar on "Re-connecting Literature and Nature"	31-07-2021	ICFAI University, Meghalaya.
	Reading African American Literature: History, Themes. Reception (Lecture 1)	Invited Lecture Series	09-07-2021	Dept. of English, Vikram Dev Autonomous College, Jeypore, Odisha
	Race Matter's in African American Fiction (Lecture 2)	Invited Lecture Series	10-07-2021	Dept. of English, Vikram Dev Autonomous College, Jeypore, Odisha
	African American Fiction and the Question of Identity (Lecture 3)	Invited Lecture Series	11-07-2021	Dept. of English, Vikram Dev Autonomous College, Jeypore, Odisha
	Ralph Ellison's Invisible Man and the Politics of Invisibility (Lecture 4)	Invited Lecture Series	12-07-2021	Dept. of English, Vikram Dev Autonomous College, Jeypore, Odisha

	Asian American Migration Narratives: History, Practice, Politics	Invited Web Lecture Series		The School of Letters, Mahatma Gandhi University, Kottayam, Kerala)
	Race in African American Literature	One-Day National Webinar	30-06-2021	Maryam Ajmal Women's College of Science and Technology, Hojai
H. Medhi	Sari Nibarani Sabha: Dressing the new Aideo in Early Twentieth Century Assam	National Seminar	15-03-2022	Dept of Sociology, Tezpur University
	Poharir Mel! Early Women's Associations in Colonial Assam	Women's Day Celebration	08-03-2022	IIT, Guwahati
	From Feminism and Ecocriticism to Environmental Humanities: A Short Introduction	Faculty Development Program on "New Trends in English Studies"	18-01-2022	Teaching Learning Center, Tezpur University
	Canon Formation in Asamiya Literature: The Case of Chandraprava Saikiani	Faculty Development Programme	16-07-2021	Teaching Learning Center, Tezpur University
	Literature and Marginality Session Chair.	National Webinar	08-07-2021	Mahapurush Srimanta Sankardev Viswavidyalaya, Nagaon(Online)
B. Gogoi	Developing English Vocabulary for Professionals	National Webinar on "English for Engineers and Managers: Approaches for Enhancing Proficiency"	10-11-2021	Haldia Institute of Technology, West Bengal
	Vocabulary Skills	Induction Programme	08-11-2021 to 22-11-2021	School of Engineering, Tezpur University

Notable Placement of Students

Name of Student	Academic Programme	Placement Designation	Company/ Organization
Ruby Balkambe R Sangma	M.A in English	Meghalaya Civil Services	Meghalaya Govt

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic	Name of other Institutes	Enrolled Academic
	Programme		Programme
Rajdeep Barman	Int. MA	Missouri School of Journalism	Masters in Journalism
Akunthita Gogoi	Int. MA	New York University	Masters in Creative Writing
Priyanuj Mazumdar	Int. MA	Kingston University	Masters in Creative Writing

Bidisha Dowarah	Int. MA	Dibrugarh University	M.Phil
Prandeep Tamuli	Int. MA	Gauhati University	Ph.D.
Maitreyee Dutta	Int. MA	Gauhati University	Ph.D.
Anwesha Gogoi	Int. MA	Dibrugarh University	M Phil
Anwesha Gogoi	MA English	Nagaland University	M Phil
Medha Devi	MA English	Central University Rajasthan	Ph.D.
Jushmi Gogoi	Int. MA	Rajiv Gandhi University	Ph.D.

DEPARTMENT OF FOREIGN LANGUAGES

About the Department:

The Department of Foreign Languages was established in 2019. It offers a full-time Certificate Course in Chinese and Open Elective Choice Based Credit Type Courses in German, French and Chinese languages. The Department is committed to foster professionals with competent skills in languages, intercultural communication, international affairs and cultural understanding from various nuanced perspectives. Apart from conventional courses, the Department, at the request of the Indian Army, offered a short-term Chinese course for selected personnel. The Department organized a Faculty Development Programme for foreign-language faculty and held several online talks by experts as part of its China Studies lecture series.

Academic Programmes and Student Intake

Academic Programme	Student Intake
Certificate Course in Chinese	39

Thrust Research Areas of the Department/Centre

- Cross-cultural studies in foreign languages, literature and film
- Theory & practice in translation studies
- Trends in foreign language studies

Major Facilities/Equipment available

- Smart classroom
- Language laboratory
- Departmental library

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
Professor	Prasanta Kumar Das	Ph.D. (Gauhati University)	Literature	prsntdas	01-07-2019
	Rathijit Chakraborty	M. Phil (JNU)	Chinese Language and Literature	rathijit	01-07-2019
Assistant Professor	Pallavi	Ph.D. (JNU)	German Literature	manjari23	01-07-2019
1 10jess01	Daveirou Lanamai	M.A. (Chinese Studies) (JNU)	Chinese Language, Literature & Culture	davei	01-07-2019

Officers and Staff Members

Designation Name		<email>@tezu.ernet.in</email>	Date of holding the current
			position
Office Assistant	Chandra Sekhar Roy	chaser7	01-07-2019
MTS	Ranjit Saikia	saikia	01-07-2019

Publications by Faculty and Staff Members Publication of Book Chapters

• Pallavi (2022): Gaining Visibility Through Emotions in Partition-Narrative: Jealousy, Fear and Shock of Male Character in "Lajwanti", In Ara A. (Ed.): *Revisiting Partition. Identity, History and Memory.* Pencraft International, Delhi (Accepted).

Publication of Articles in Conference Proceedings

• Lanamai, D. (2021). Sinicising Naming Practices of Select Ethnic Groups in China. In 14th All India Conference of China Studies, Organised by Institute of Chinese Studies (ICS), Delhi and Cheena Bhavana, Visva-Bharati University, Shantiniketan in partnership with Konrad-Adenauer-Stiftung.

Pedagogy and Content Development

• Customized Chinese Language Course for Army

Name of	Purpose of	Title of Event	Date/Period	Organizer and Venue
Faculty/ Staff	Attending			
Member				
Lanamai	Paper	14 th All India Conference of	11-11-2021	Institute of Chinese Studies
Daveirou	presentation	China Studies	to	(ICS), Delhi and Cheena
			13-11-2021	Bhavana, Visva-Bharati
				University, Shantiniketan
				in partnership with Konrad-
				Adenauer-Stiftung.
Pallavi	Paper	XIV Congress of the	26-07-2021	International Association
	Presentation	International Association for	to	for German Studies
		German Studies (IVG)	02-08-2021	(Online)
	Participant	Online Faculty Induction	03-08-2021	Teaching Learning Centre,
		Programme (FIP)	to	Tezpur University under
			02-09-2021	PMMMNMTT Scheme of
				Ministry of Education,
				Government of India.
				(Online)
	Participant	Online Faculty Development	26-07-2021	TLC, Tezpur University in
	_	Program on Emerging Areas in	to	association with Dept. of
		Foreign Language Study	30-07-2021.	Foreign Languages, Tezpur
				University

Conference/Workshop/Symposium/Seminar etc. Attended

Other Significant Activities of the Department

- 14-week Customized Course in Chinese for Army (4 Corps), 30-09-2021 to 10-12-2021.
- Faculty Development Programme: In collaboration with Teaching Learning Centre organized on *Emerging Areas in Foreign Language Study*, 26-07-2021 to 30-07-2021.
- Talk delivered by Dr. Rajiv Ranjan, Associate Professor at the College of Liberal Arts, Institute of Global Studies, Shanghai University, Shanghai, China. *India-China Border Clash and Future of Bilateral Engagement*, 12-04-2021
- Talk delivered by Dr. Hemant Adlakha, Associate Professor of Chinese, Jawaharlal Nehru University, New Delhi. *Salient Features of how Covid-19 has impacted language, culture, and society in China*, 19-04-2021.

Tezpur University :: Annual Report 2021-22 (Department of Foreign Languages)

• Chinese Spring Festival Celebration: Lecture by Mr. Rathijit Chakravarty, Assistant Professor, Department of Foreign Languages and followed by activities such as calligraphy, games and *Chunlian* (Spring Festival couplet), 01-02-2022.

DEPARTMENT OF HINDI

About the Department

The Department of Hindi was established in January 2010, and it started an MA program in Hindi from 2013. At present, the Department also runs the following programs: Post-Graduate Diploma Program in Translation (Hindi), Hindi as a Modern Indian Language (MIL), and Ph.D. in Hindi literature/language). In addition, the Department also runs a Certificate Course in Official Hindi (Level-1) for the employees of the University.

Academic Programmes and Student intake

Academic Programme	Student Intake
Certificate Course	10
PG Diploma in Translation	31
MA in Hindi	31
Ph.D.	Variable

Thrust Research Areas of the Department

- Modern Hindi Literature
- Fiction
- Poetry
- Bhasha Vigyan
- Indian & Western Poetics
- Folk literature
- Hindi Journalism

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
Duchagon	Suryakant Tripathi	Ph.D. (BHU)	Applied Linguistics, Indian Poetics, Folkloristic	<u>sktripathi</u>	28-05-2018
Professor	Pramod Meena	Ph.D. (IGNOU)	Dalit –Tribal vimarsh, Street Theater, cinema studies, Media	pmeena	07-06-2022
Associate Professor	Anju Lata	Ph.D. (TU)	Modern Poetry, Katha Sahitaya, Adhunik Sahitay,Subaltern writing in Hindi	anju	18-11-2019
Assistant	Anushabda	Ph.D. (DU)	Linguistics, Media, Poetry, Indian and Western Poetics.	anush	20-02-2012
Assistant Professor	Pramod Kumar Sharma	Ph.D. (University of Hyderabad)	Medieval Poetry	pramods	25-11-2019
	Shipra Shukla	M.Phil. (Delhi	Modern Hindi Literature.	shipras	02-12-2019

		University)			
	Shambhu	Ph.D. (Jamia	Katha Alochana,	smishra	04-05-2022
	Nath	Milia Islamia)	Madhaykaleen Sahitaya		
	Mishra				
	Santosh	Ph.D.	Katha Sahitay, Alochana	santosh.vishno	20-09-2021
Guest	Vishnoi.	(Banasthali		i2010@gmail.	
Faculty		Vidhya		com	
		Peeth)			

Officers and Staff Members:

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the current
			position
Assistant	Sashi Ingti	ingti	01-01-2018
MTS	Ajoy Kr. Nath	ajoy	08-05-2017

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Lata, A. and Jasmeena, A. (2022). "marang godha nilkantha hua: Parayawaran chintan ka mahakavay", *Naagfani* 40:58-62.
- Jasmeena A. & Lata A. (2022). "Mahamari: vibhishika evam paristhitia : pahalwan ki dholak kahani ke vishesh sandharbh me," *Apmi Mati*. 42
- Anushabda. (2021). Shankardev ka 'Kirtan Ghosha'. Gagananchal. 05:77-81.
- Das, P. & Anushabda. (2021). Asamiya Chay Janagoshthi: Astitwa-Asmita ka prashn. Akshara. 199:32-36.
- Kumar, S. & Anushabda. (2021). Mithakiy Chetana aur Kunwar Narayan ka Kawya. *Apni Maati*. 37:01-09
- Kumar, S. & Anushabda. (2022). Abki agar lauta to Manushyatar Lautunga. Bhasha. 300:86-90
- Anushabda. (2022). Rashtriya Shiksha Niti 2020 ke Bhashai Sarokar. *Dwibhashi Rashtrasewak*. 10:39-44
- Shukla, S. (2021). 'Yudha ki Trasadi our stri Asmita' Apni mati. https://www.apnimaati.com/2021/11/blog-post_16.html

Publication of Books:

• Tripathi S. (2021) *Bhartiya Bhakti Aandolan Aur Shrimant Shankardev*, ISBN No. 978-93-92186-10-3 Lokbharati prakashan, Delhi.

Publication of Book Chapters:

- Tripathi, S. (2022). Rashtriya Chetana aur Bhartendu ka Sahitya. In Garg, M. editor, Aadhunik Hindi Kavita mein Rashtriay Chetana, pages 56-64, Naman Prakashan, New Delhi
- Tripathi, S. (2021). Bhartendu yugin patrakarita : Rashtriya evam Sanskritik utkarsh. In Pandey, R.K. editor. Hindi Patrakarita : Rashtriyata evam Sanskriti, pages 37-45, Sahitya Sanchaya, Delhi.
- Kushwaha, P. & Shukla, S. (2021). Viklangota Bhagidari evam avasar ki samanta, In Apke Kanun apke adhikar, pages 82-100, Orient Black Swan, Hyderabad.

Name of	Purpose of Attending	Title of Event	Date/Period	Organizer and Venue
Faculty/Staff				_
Member				
Tripathi S.	Lecture on "Hindi ka	3 days International	13-09-2021	Department of Hindi and
	vaishvik paridrishya"	Seminar on Hindi		Linguistics, R.D.U.,
		Divas		Jabalpur (Online)
Tripathi S.	Chief Guest	Rajbhasha	09-12-2021	Oil India Limited,
Lata A.	Lecture On "Hindi	Two Days	01-03-2021	Hindi Department, Rajiv
	Kahani Ka Itihas :	International Seminar	to	Gandhi University
	Punarlekhan	On "Hindi Sahitay	02-03-2021	Arunachal Pradhesh
		Ka Itihas : naye		(Online)
		Prashan vartman		
		Sandarbh"		
Anushabda	Resource Person	One day online	21-10-2021	Commission for Scientific
	(Lecture delivered on	National Webinar on		and Technical
	the topic "Nayi Shiksha	"Bhautiki shabdawali		Terminology, Ministry of
	Niti 2020 ka Bhashai	ewam Nayi Shiksha		Education, New Delhi
	Paksh")	Niti 2020"		(Online)

Conference/Workshop/Symposium/Seminar etc. Attended

Invited Talk

Name of Faculty	Title of the Talk	Title of the Event	Date	Organizer and Venue
Member				
Tripathi S.	Rajbhasha Hindi Ka Mahatwa	Hindi Divas	14-09-2021	Department of Hindi, S.S.S.U., Kalady, Kerala (Online)
Tripathi S.	Rashtranirman mein Hindi Bhasha ki Bhoomika	Hindi Divas	14-09-2021	K.V. No.1, Tezpur (Online)
Tripathi S.	Corona Kaal ki karun kahaniyan	Ravivariya Pustak Varta	14-11-2021	Syahi Blue books,Delhi (Online)
Lata A.	Hindi Bhasha Ka Mahatav	Hindi Divas	14-09-2021 to 15-09-2021	Biswnath Charali Rastrabhasha Prabhodh Vidyalay , Assam.
Anushabda	Rashtriya Asmita aur Hindi	Hindi Diwas, 2021	14-09-2021	Hindi Sahitya Sammelan, Tezpur
Anushabda	Wartman Samay mein Hindi ki Satta ewam Mahatta (Online)	Hindi Diwas, 2021	14-09-2021	Kendriya Vidyalay, Dinjan, Assam
Anushabda	Bharatiyata ki pahachan Hindi (Online)	Hindi Diwas, 2021 Vivekanand Kendra Vidyalay, Tinsukiya, Assam	14-09-2021	Vivekananda Kendra Vidyalay, Tinsukia, Assam

Awards/Honours/Notable Achievements

Name of Awardee	Designation of Awardee	Achievement	Event/Awarded by
Anushabda	Assistant Professor, Dept. of	'Hindi Bharati Samman-	Vishwa Hindi Sahitya Parishad,
	Hindi	2021	Delhi on 14 September 2021

Other Significant Activities of the Department

- Online lecture series: 'Identity Discourse: Various Currents' 10-03-2021 to 14-03-2021.
- Online lecture series: '*Research and Publication Ethics and the Purpose of E-content*' 29-12-2021 to 30-12-2021.

Number of Students Qualified in NET-JRF/SLET/GATE

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
NET-JRF	02	M.A.

Notable Placement of Students

Name of Student	Academic	Placement Designation	Company/	Mode of Selection
	Programme		Organization	
Munmi Barthakur	M.A.	Guest Faculty	J.B. College	Off Campus

Enrollment of Students in other Institutes for Higher Studies

Name of	Academic	Name of other Institute	Enrolled Academic
Student	Programme (in TU)		Programme
Nafisa Ahmed	M.A.	Assam University (Diphu Campus)	Ph.D.

DEPARTMENT OF LAW

About the Department

The Department of Law was established in the year 2017 under the school of Humanities and Social Sciences with a vision to produce legal luminaries to add value in the field of teaching, judiciary, lawmaking, law enforcement officers and, most importantly, work for the society as a good citizen. Presently, the Department offers a two-year Master of Laws (LL.M.) programme with specializations in Human Rights Laws and Criminology & Criminal law. The objective of the programme is to make the Department a vibrant centre of legal education and research and give an opportunity to all aspirants who wants to be good academicians and researchers and work for social transformation. Two batches of the Department have successfully post-graduated in the year 2020 and 2021, respectively.

The Department is making progress with the existing four young and energetic permanent faculties and Guest faculties, giving meaning to the designed curriculum not only from theoretical but pragmatic aspects emphasizing on teaching inter-disciplinary facets. The faculty members have a wide range of interests and expertise in areas such as Constitutional Law, Judicial Process, Jurisprudence, Human rights, Migration laws, Environment Laws, Criminal laws, Juvenile Justice, etc. The Department makes an effort to expose the students to the prevailing social realities and legal developments through activities such as outreach programmes, Seminars, Workshops, Panel Discussions etc. Moreover, it is the Department's priority to inculcate among students teaching methods & ethics, promote inter-disciplinary research, provide free legal assistance for persons in need and inspire students for competitive examinations. The department has proposed to start the Five-Year B.A.LL.B.(Hons.) and Ph.D. Programmes.

Academic Programmes and Student Intake

Academic Programme	Student Intake
Master of Laws (LL.M.)	25

Thrust Research Areas of the Department

- Constitutional Law
- Judicial Process
- Law and Social Transformation
- Criminal Law
- Human Rights Laws

Major Facilities/Equipment available

- Central Library with Law text books, reference books and journals
- Subscription of SCC Online and Manupatra
- ICT enabled classroom
- Computer Lab

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
Associate	Priya Ranjan	Ph.D. (Gauhati	Constitutional Law,	pranjan	12-12-2019

Professor	Kumar	University)	Administrative Law, Judicial Process,		
			Jurisprudence, Law		
			of Contract, and		
			Socio Economic		
			Offences		
	Angel H.	LL.M. (Symbiosis	Human rights,	angelsy	11-01-2017
	Syiem	Law School, Pune)	International Law, and Tribal issues		
	Madhumita	LL.M. (Assam	Criminal Law,	madhuap	16-01-2017
	Acharjee	University)	Criminology,		
Assistant			Juvenile Justice, and		
Professor			Rights of elderly		
			persons		
	Debajit	LL.M. (IP	Criminology and	dksarmah	06-02-2017
	Kumar	University, Delhi)	Criminal Law		
	Sarmah				
	Bhagyashree	LL.M. (Gauhati	Criminal Law,	Bhagyashreedas	28-03-2022
	Das	University)	Penology, and	18@gmail.com	
Guest			Environmental Law	-	
Faculty	Sriparna	Ph.D. (Gauhati	Human Rights Laws,	Sriparna1009@	29-03-2022
	Rajkhowa	University)	Humanitarian Law, and Medical Law	gmail.com	

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the current position
Office Assistant	Mrs. Meetaly Tamuly	meetaly	18-11-2019
M.T.S	Mr. Chand Mohammad	chandmd	01-03-1998

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Sarmah, D. K. (2021). Policy and Laws related with Environment Protection in India. Sambodhi Indological Research Journal of L.D.I.I., 44-01(XV): 118-123
- Sarmah, D. K. (2021-22). Investigation under the Code of Criminal Procedure. *Kashmir Journal* of Legal Studies, IX: 195-206
- Kumar P. R. (2021). Raashtreeya Shiksha Neeti Va Kaanoonee Shiksha. *Mekal Meemaansa*, 13(02): 237-245.
- Syiem. A. H. and Kumar P.R. (2022). Trans Rights Are Human Rights: An Evaluation of Law on the Protection of Transgender Rights in India. *Indian Journal of Law and Justice*, 13(1): 205-227.

Conference/Workshop/Symposium/Seminar etc. Attended

Name of	Purpose of	Title of Event	Date/Period	Organizer and
Faculty	Attending			Venue
	Participation	Online Interdisciplinary	06-12-2021	TLC, Tezpur
Priya Ranjan		Refresher Course on Pedagogical	to	University (Online)
Kumar		Innovations in Higher Education	20-12-2021	

Invited Talk

Name of Faculty	Title of the Talk	Title of the Event	Date	Organizer and Venue
Member				
	Covid-19 and Role of State Disaster Management Authority: Legal and Administrative Reflection.	Webinar on Covid-19: Necessary Reflection on The Disaster Management Act, 2005	17-05-2021	Legal Cell, Nagaland University (Online)
Priya Ranjan Kumar	Resource Person-Practice of Witch hunting in India and Human Rights Violation (21st Dec)	Short Term Course in Human Rights	21-12-2021	UGC-HRDC, Kumaun University, Nainital (Online)
	Resource Person- Artificial Intelligence and Human Rights: Issues and Challenges (22nd Dec)	Short Term Course in Human Rights	22-12-2021	UGC-HRDC, Kumaun University, Nainital (Online)
Madhumita Acharjee		National Webinar organized on Observation of Constitution Day	26-11-2021	Department of political Science in collaboration with NSS Unit Acharya Brojendra Nath Seal College
Angel H. Syiem	Sensitization on Laws relating to Sexual Harassment at Workplace	Orientation of Students	27-10-2021	Department of Mass Communication and Journalism, TU

Other Significant Activities of the Department

- Workshop on SSC Online legal research Database, in association with Eastern Law Agency, 27-04-2021
- Invited Lecture on "Law of Sedition". Resource Person- Prof. Manik Chakraborty (Former Professor Burdwan University, West Bengal), 07-08-2021
- Special lecture on "Our earth matters: Ideas for Stockholm+50". Resource Person Prof. Bharat H. Desai (JNU, New Delhi), 03-11-2021.
- International Human Rights Day Observation and a Webinar was organized on "Understanding Substantive Equality under Indian Constitution", 10-12-2021.
- Awareness Programme on Good Academic Research Practices, 22-12-2021 & 23-12-2021.
- Invited Lecture on "Revisiting the general Exceptions & Right to Private defence Under Indian Penal Code". Resource Person- Dr. Samraggi Chakraborty (Head (i/c) Ajeenkya D. Y. Patil University, Mumbai, 24-12-2021.
- Invited Lecture on "Parliamentary privileges: Experience from Indian and British Parliament" was. Resource Person- Prof S.P Singh (CNLU, Patna), 15-02-2022.
- Webinar on "Women in Legal Education-Past Present and Future". Resource Person- Hon`ble Smt. Justice Marli Vankung (Gauhati H.C.) & Prof. Lisa P. Lukose (I.P University), 08-03-2022.
- Invited Talk on "Good Governance- Accountability & Transparency". Resource Person- Prof. S. D. Sharma (S.S.J. University, Uttrakhand), 14-03-2022.
- Invited Talk on "E- Commerce and Consumer Rights in India". Resource Person- Prof. S.C. Roy (CNLU, Patna), 15-03-2022.

- Invited Talk on "Human Rights and Role of Police". Resource Person- Prof. Umesh Kumar (H.P University, Shimla), 16-03-2022.
- Three-Day Workshop on Legal Research Methodology, 21-23-2022.
- Legal Awareness Camp organised at Besseria Village, Tezpur, 26/03/2022.

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
AIBE	13	Master of laws (L.L.M.)

Notable Placement of Students

Name of Student	Academic Programme	Placement Designation	Company/ Organization	Mode of Selection
Pompi Saikia	Master of Laws (L.L.M)	Language Officer	APSC, Legislative department, Govt. of Assam	Off Campus
Prince Kumar	Master of Laws (L.L.M)	Research Associates	Geeta Institute of Law	Off Campus
Bikram Baro	Master of Laws (L.L.M)	Assistant Professor	Kokrajhar Law College	Off Campus
Pritiparna Bhattacharjee	Master of Laws (L.L.M)	Internship	Bureau of Police Research & Development, Ministry of Home Affairs	Off Campus

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic Programme	Name of other Institute	Enrolled Academic
			Programme
Ajay Kr. Sardar	Master of Laws (L.L.M.)	North Eastern Hill University	Ph.D.
Dipshreeya Das	Master of Laws (L.L.M.)	Sikkim University	Ph.D.

DEPARTMENT OF LINGUISTICS AND LANGUAGE TECHNOLOGY

About the Department

Established in March 2022 as an independent Department, the *Department of Linguistics and Language Technology*, which was part of the Dept. of English before, offers a two-year Master's in Linguistics and Language Technology and guides PhD research in the discipline. The Department has expertise in Syntax, Cognitive Linguistics, Philosophy of Language, Language Documentation, Field Linguistics, Phonetics, Phonology, Experimental Phonology, Sociolinguistics, and Computational Linguistics. The Department, in collaboration with the *Centre for Endangered for Endangered Languages*, which was established in 2014 and is now attached to it, carries out research in linguistics with a special focus on the languages of the Northeast, perhaps linguistically the richest yet most diverse area in India with its majority of lesser-known or under-studied languages.

The vision of the Department is to become a leading Centre of linguistic inquiry and research in the country as well as South East Asia. Its mission is to impart knowledge of all the major branches of modern linguistics and linguistic thought to the students through quality teaching with a learner-centered approach. The Department has a well-designed master's course syllabus covering the latest developments in the discipline. The Department encourages excellence in linguistic research and aims to produce young linguists who will have a clear understanding of how language, 'the most valuable single possession of the human race', works and why; who can build and test theories based on accurate descriptions of languages, sound empirical methodologies and results from a range of disciplines, and who can meaningfully apply the knowledge of linguistics in modern technology for technology transfer; in language teaching and also in linguistic issues of the society. Finally, the Department encourages the study of all aspects of the lesser known and endangered languages, especially those spoken in this region, supplementing the efforts for their preservation and revitalization.

Academic 1	Programmes	and	Student	Intake
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Academic Programme	Intake
MA in Linguistics and Language Technology	30
PhD	Variable (03 admitted in 2021-22)

Thrust Research Areas of the Department

- Linguistic theory
- Linguistic technology
- Endangered languages of Northeast India

Major Facilities/Equipment available

The Department houses the *Centre for Endangered Languages* so that the students, the research scholars, the faculty and the staff of the Department have easy access to the Library of the Centre which is wellstocked with books on all important areas of linguistics, language endangerment, and language documentation. The Department has also an easy access to the Centre's state-of-the-art Linguistic and the Documentation-Archiving-cum-Recording Laboratories as well as its two advanced multipurpose Seminar-cum Conference Halls. Furthermore, the classrooms of the Department have most facilities of a smart class room.

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current
					position
	Madhumita	Ph.D.	Linguistics (Syntax,	mmb	07-09-2010
Professor	Barbora	(TU)	Psycholinguistic), Field		
			Linguistics, Documentation		
	Gautam K.	PhD	Linguistics (Syntax:	gkb	02-07-2012
	Borah	(NTNU,	Construction Grammar,		
		Norway)	Semantics), Cognitive		
			Linguistics, Philosophy of		
			Language, Cognitive Poetics,		
			Literary Theory		
	Arup Kr.	PhD	Language Typology,	akn	20-09-2012
	Nath	(JNU)	Morphology,		
			Sociolinguistis, Language		
			Documentation Field		
			Linguistics		
	Bipasha	Ph.D.	Phonetics, Phonology,	bipasha	21-09-2012
Assistant	Patgiri	(Tezpur	Historical Linguistics,	_	
		University)	Sociolinguistics,		
Professor			Typology, Semantics,		
			Ethnolinguistics		
	Amalesh	PhD	Acoustic Phonetics,	amalesh	22-04-2016
	Gope	(IIT,	Experimental Phonology,		
		Guwahati)	Computational Linguistics,		
			and Language		
			Documentation		

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the current position
Office Assistant	Dipali Sona Nayak	dipasn@tezu.ernet.in	08-03-2022

Major Research and Development Findings:

Faculty/Researcher	Salient Research Findings
Faculty of Dept of	Seven primers of the following endangered languages have been
Linguistics and Language	published: Biate, Khelma, Hrangkhol (Assam); Onaeme, Purum
Technology	(Manipur); and Yimchunger and Liangmai (Nagaland). Three separate
and Centre for Endangered	volumes on the syntax, morphology, and phonology of the above-
Languages (8), Research	mentioned languages also have been published. Also, seven separate
Associates (4) and Filed	tri-lingual dictionaries of these languages are in the making. A common
Assistants (8)	online version of these seven dictionaries will also be made available
Coordinator:	once their offline versions are ready along with a comprehensive
Prof. Madhumita Barbora	ethnographic account of these languages.
Documentation and	The first field trip is completed. The data collected are being analyzed.
Revitalization of Ntenyi,	
Khongdei and Zyphe: Three	
endangered languages of	
North East India	
PI: Prof. Madhumita Barbora	

Project Title	Funding	Amount	Duration	Investigator(s)
	Agency	(in INR)		_
UGC Scheme: Centre for	UGC	6000000	5 years	Faculty of Dept of Linguistics and
Endangered Languages			(Extended till	Language Technology
			31-03-2023)	and Centre for Endangered
				Languages
				Madhumita Barbora (Coordinator)
Documentation and	NEC	7910000	3 years	Madhumita Barbora (PI)
Revitalization of Ntenyi,			2020-2023	Arup K Nath (CoPI)
Khongdei and Zyphe: Three				
Endangered Languages of				
Northeast India				

Research Projects (both Ongoing and New)

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Gope, A. (2021). The phonetics of tone and voice quality interactions in Sylheti. *Languages. SI: Exploring the Interaction between Phonation and Prosody*. 6(4): 154.
- Mahanta, S., Gope, A., and Roychaoudhury, P. (2021). Pitch range and voice quality in Dimasa focus intonation. *Languages. SI: Exploring the Interaction between Phonation and Prosody*. 6(4): 185.
- Pal, A., Gope, A., and Iannacchione, G. S. (2021). Temperature-dependent pattern formation in drying aqueous droplets of lysozyme. *International Journal of Innovative Research in Physics* (IJIIP), 2(3): 61-70.
- Pal, A., Gope, A., and Iannacchione, G.S. (2021). Concentration and temperature dependence of Protein and Blood Drying Droplets. *Biomolecules*, 11(2): 231.
- Patgiri, B. (2021). Voicing assimilation as a universal phonological process: A case study of Nalbaria Assamese. *International Journal of Dravidian Linguistics (IJDL)*, 50: 134–164.
- Sabnam, Mehsina, and Nath, A. K. (2021). A comparative study of color expressives in Bodo, Deori and Mising. *Shodh Sanchar Bulletin*. 11(41): 40-45.
- Sinha, N, and Barbora M. (2021). Language endangerment amongst Hruso-Aka and Koros. *Vaak Manthan*, 6 (11): 1-16.
- Wangno, T. and Barbora, M. (2021). Nocte kinship system, terminologies and its affinity to PTB roots. *Indian Journal of Multi-lingual Research and Development (IJMRD)*, 2 (3). DOI htpps://doi.org/ 10.34256/ijmrd2135,
- Sabnam, Mehsina and Nath, A. K. (2022). Identifying word-classes of expressives in Bodo, Deori and Mising.

Aligarh Journal of Linguistics, 11: 155-170.

Publication of Edited Books

• Barbora, M. and Borah, G. K. (Eds). (2021). *The Syntax of Biate, Hrangkhol, Khelma, Purum, Onaema, Liangmai and Yimchunger*. (A publication from Centre for Endangered Languages, Tezpur University). S. S Graphics: Guwahati.

- Nath, A. K., Longmailai, M. and Shougrakpam, D. (Eds). (2021). *The Morphology of Biate, Hrangkhol, Khelma, Purum, Onaema, Liangmai Yimchunger*. (A publication from Centre for Endangered Languages, Tezpur University). S. S Graphics: Guwahati.
- Patgiri, B., Gope, A., and Srangthem, B. (Eds). (2021). *The Phonetics and Phonology of Biate, Hrangkhol, Khelma, Purum, Onaema, Liangmai and Yimchunger*. (A publication from Centre for Endangered Languages, Tezpur University). S. S Graphics: Guwahati.

Publication of Book Chapters

- Nath, A. K. (2021). Bhaxar Xongkot aru Axomiya Bhaxa (Language Endangerment and the Assamese Language). In Kalita, N and Bora B., editors, *Bhaxabigyan Aru Axomiya Bhaxa*. pages 613-625, Purbayon Prakashan, Guwahati.
- Patgiri, B. (2021). Phonetics and Phonology of Hrangkhol: A Case of Voiceless Sonorants. In B. Patgiri, A. Gope and B. Sarangthem, editors, *Phonetics and Phonology of Biate, Hrangkhol, Khelma, Purum, Onaeme, Liangmai and Yimchunger*. (A publication from Centre for Endangered Languages, Tezpur University). pages 22-49. S. S Graphics, Guwahati.
- Gope, A., and Raguibou, I.D. (2021). *The Phoneme Inventory and Tonal Contrasts in Yimchunger*. In B. Patgiri, A. Gope and B. Sarangthem, editors, *Phonetics and Phonology of Biate, Hrangkhol, Khelma, Purum, Onaeme, Liangmai and Yimchunger*. (A publication from Centre for Endangered Languages, Tezpur University). pages 142-165. S. S Graphics, Guwahati.
- Pal, A., Gope, A. and Iannacchione, G. S. (2021). Statistical Image Analysis of Drying Bovine Serum Albumin Droplets in Phosphate Buffered Saline. In Dash, S., S. K. Pani, S. Balamurugan and A. Abraham, editors, *Information Retrieval Models for Biomedical and Health Informatics, Artificial Intelligence and Soft Computing for Industrial Transformation*. pages 213-236, Scrivener Wiley Publishing.
- Widinibou, C. and Gope, A. (2021). The Phonetics and Phonology of Liangmai. In B. Patgiri, A. Gope and B. Sarangthem, editors. *Phonetics and Phonology of Biate, Hrangkhol, Khelma, Purum, Onaeme, Liangmai and Yimchunger*. pages 110-141. (A publication from Centre for Endangered Languages, Tezpur University).

Publication of Articles in Other Forms

- Nath, A.K. An article titled 'Bhaxa Police' (*Language Policing*) published on the editorial page of the 'Dainik Axom' a leading Assamese Daily, 1-02-2022
- Nath, A.K. An article titled 'Xenophobic Axomiyar Apobad' (*Defaming Assamese as Xenophobic*) published in the editorial page of the 'Niyomiya Barta' a leading Assamese Daily, 1-10-2021.
- Nath, A.K. An article titled 'Mishrito Xikhon-Xikon Potdhoti Aru Aantogathonigoto Protyahban' (*Blended Teaching-Learning Method and the Infrastructural Challenges*) published in the editorial page of the 'Amar Asom' a leading Assamese daily, 11-06-2021.

Name of Faculty/ Staff	Purpose of Attending	Title of Event	Date/ Period	Organizer and Venue
Member				
Gautam K.	Paper	43rd International Conference of	21-12-2021	Central Institute of Indian
Borah	presentation	Linguistic	to	Languages, Mysuru.
(with		Society of India, (Online)	23-12-2021	

Conference/Workshop/Symposium/Seminar etc. Attended

Bisalakshi				
Sawarni)				
Bipasha	Paper	1st International Conference of	26-06-2021	Centre for Endangered
Patgiri	presentation	Tibeto-Burman Linguistics	to	Languages, Tezpur
		Association of North East India	28-06-2021	University and Assam
		(ICTiBLANEI – 1)		University,
	Participant	Faculty development program on	21-08-2021	Department of English,
		Open Book Testing in Online		Tezpur University
		Evaluation		
	Participant	Workshop on Linguistic Data	2-07-2021	Society for Endangered
		Management for Language	to	Languages SEL
		Archiving	3-07-2021	
	Participant	Workshop on Wiley Training:	17-06-2021	DeLCON Consortium and
		Accessing Wiley Journals and		Wiley Publication
		Publication Tips for Authors		Company

Invited Talk

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue
Madhumita Barbora	Kho-Bwa Cluster of Languages	4-Day on International Webinar on the Languages of Northeast India	24-04-2021 to 27-04-2021	TiBLANE, Hosted at Assam University, Silchar
Gautam K. Borah	The Mass-Count Distinction in Cognitive Linguistics	Invited talk (online): Cognitive Linguistics Research Forum, India	12-09-2021	University of Madras
Arup Kumar Nath	The myth of Mother Tongue and the Problems, Challenges, and Strategies in Implementing NEP2020 in Northeast India Matribhaxa ba Sthaniya Bhaxar Madhyamere Prathomik Xikhya: Ek Bigyanxonmot Bisleswan (Imparting Primary Education through Mother Tongue: A Scientific Analysis)	One-day National Seminar United Colours of languages and NEP 2020 IQAC, Dept of Assamese Lecture Series	27-04-2022 22-03-2022	Vidya Vistar Committee and NEP Committee of Vivekananda College, the University of Delhi in collaboration with the Government Model College (University of Dibrugarh), Assam. Nowgong Girls' College, Nagaon, Assam on jointly organized by the Department of Assamese, IQAC (Nowgong Girls' College) and the Nagaon District Sahitya Sabha
	Janagosthiya Bhaxar Xongbardhan	Tiwa Mathonlai Tokhra, Annual Meet	26-02-2022	12 th Session of Tiwa Sahitya Sabha (Tiwa Mathonlai Tokhra)

	Aaru Xurakhyar Khetrat Aamar Koroniya (Our duties and responsibilities towards the growth and preservation of indigenous/tribal languages)			Meet at Barapujia, Morigaon
	Trilingual Glossary of Engineering in the Assamese Language	Preparation of a Trilingual Glossary of Engineering in the Assamese Language	27-12-2021 to 31-12- 2021; 31-01-2022 to 04-02-2022	Commission for Scientific and Technical Terminology, Ministry of Education, Govt. of India at Tezpur University
	Linguistic Imperialism, Linguistic Rights and NEP2020: A Translanguaging Perspective	International Symposium on Recent Theories in Linguistics and their Applications	17-03-2021 to 18-03-2021	Department of Linguistics, the Central University of Rajasthan
Bipasha Patgiri	Markedness and Naturalness in Phonology: Theory and Beyond	SEL for SEL	9-10-2021	Society for Endangered Languages
	Language and Linguistics: Perspectives from Sanskrit, Computation, AI and Beyond	BTech Induction Program	12-11-2021	School of Engineering, Tezpur University
Amalesh Gope	Introduction to Linguistics	Itol-2020	20-10-2021	Department of English, in collaboration with the IQAC, Panskura Banamali College (Autonomous), Panskura, West Bengal, India
	The Horizons of Computational Linguistics: With Reference to Prosody and Image Processing	An Introduction to Computational Linguistics	09-06-2021	Department of Linguistics, Assam University, Silchar

Number of Students Qualified in NET-JRF/SLET/GATE etc.

••••	Number of Qualified Students	Academic Programme
NET/GATE		MA in Linguistics and Language Technology
NET	01	MA in Linguistics and Language Technology

GATE 03	MA in Linguistics and Language Technology
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Notable Placement of Students

Name of	Academic Programme	Placement Designation	Company/	Mode of
Student			Organization	Selection
Premananda	MA in Linguistics and	Google Ads Consultant	WNS Global Service	Off-Campus
Singha	Language Technology		Pvt. Ltd, Gurgaon	
Plabita Bora	MA in Linguistics and	Asset Publishing and	Deloitte (India	Off-Campus
	Language Technology	Quality Assurance Analyst	Offices of the US),	_
			Bangalore	
Pinaz	MA in Linguistics and	Editorial Head	Di Tech Publishing	Off-Campus
Sahina	Language Technology		Services (HO:	_
Ahmed			Mumbai), Guwahati	
Priyanshi	MA in Linguistics and	Linguistic Specialist	Capgemini	Off-campus
Adyapak	Language Technology			

Enrollment of Students in other Institutes for Higher Studies

Name of	Academic Programme	Name of other	Enrolled Academic
Student		Institute	Programme
Pahi Gogoi	MA in Linguistics and Language Technology	IIT, Rupar	Ph.D.
Snigdha Medhi	MA in Linguistics and Language Technology	IIT, Mumbai	Ph.D.

DEPARTMENT OF MASS COMMUNICATION AND JOURNALISM

About the Department

The Department of Mass Communication and Journalism offers a conducive learning environment driven by a passion for Media and Communication Studies. The Department is dedicated to the interdisciplinary understanding of communication in an increasingly networked society. As the technological advancement yields a social environment that is constantly changing and evolving, the MA Mass Communication and Journalism (MCJ) and MA Communication for Development (C4D) programmes equip the students with the recent developments in theory and practice while remaining true to the mission of emphasizing professional excellence along with social commitment.

Academic Programmes and Student Intake

Academic Programme	Student Intake
M.A in Mass Communication and Journalism	44
M.A in Communication For Development	14
Ph.D.	Variable (05 admitted in 2021-22)

Thrust Research Areas of the Department

- Media, culture and society
- Political economy of media
- Communication for social change and development

Major Facilities/Equipment available

- 14 Apple computers with Final Cut Pro software for video editing
- TV studio with Panasonic P2 Camera (05 nos.)
- Sony DSR 570wspl Camera (02 nos.)
- Canon 5D Mark III (01 no.), Canon 1500D (05 Nos.)
- Teleprompter and other studio recording facilities
- 11 Nos. of Desktops with Sony Sound Forge with Pro Tools Console for audio editing
- 18 nos. of Windows Intel i7 Desktops with Quark Xpress and Adobe software for print media practical
- Screening hall
- Audio studio with existing equipment

Faculty Members

Designation	Name	Highest	Specialization	<email></email>	Date of
		Qualificati		@tezu.ernet.in	holding the
		on			current
		(Institute)			position
	Sunil Kanta	Ph.D.	Communication Theory and	Sunilkb	16-01-2016
	Behera	(Berhampur	Research, Gender and Media	behera_sunil@	to
		University)		yahoo.com	07-2021
Professor	Abhijit Bora	Ph.D.	Radio, Development	abhijitb	05-09-2016
riojessoi		(Gauhati	Communication, Science		
		University)	Communication, Journalism,		
			Media Writing,		
			Communication for		

			Development		
	Joya	Ph.D.	ICT for Development,	jc	10-07-2018
	Chakraborty	(University	Development Communication,	-	
		of	Women, children and Media;		
		Hyderabad)	Community media.		
	Р.	Ph.D.	Media Studies, Cultural and	anbu	10-3-2005
	Anbarasan	(JNU)	Film Studies		
Associate	Uttam Kr.	Ph.D.	ICT Implications on Society,	uttamkp	06-01-2017
Professor	Pegu	(Jamia	Science Communication, Film		
	(currently	Milia	Studies, Media Analysis		
	on Lien)	Islamia)			
	Perosh	PhD	Film studies, photography	daimari	03-11-2009
	Jimmy	(TU)			
	Daimari				
	Anjuman	PhD	Media and Children,	anjuman	03-11-2009
	Borah	(TU)	Children's Participation,		
			Participatory Communication,		
			Advertising and Public		
			Relations		
	Kapou	PhD	Media History, Political	kapou	09-11-2009
Assistant	Malakar	(TU)	Studies, International Studies,		
Professor			Digital Media, Convergent		
			Journalism		
	Manoj	PhD	New Media Journalism,	manojdeori	27-01-2017
	Deori	(Berhampur	Multimedia Production,		
		University)	Media and Disaster		
			Management, E-learning		
	Junali Deka	PhD	Digital media and society,	junalid	01-02-2017
	Julian Deka	(Assam	cultural studies	Juliana	01-02-2017
		University)			
	Mrinmoy	M.A in	Photography and New Media	mrin115@gmai	01.02.2022
Cuast	Burahogain	MCJ		l.com	
Guest	Ankur	M. Phil	Advertising and PR,	ankurdutta318	25.01.2022
Faculty	Protim	(Assam	photojournalism,	@gmail.com	
	Dutta	University)	Development communication	-	

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the
			current position
Technical Officer	Ratul Chandra Nath	ratul	03-09-2010
Senior Technical Assistant	Chanchal Singha	chansan	19-07-2011
LDC	Bijoy Mech	bijoy	28-08-2019
MTS	Bubul Das	-	16-08-2018

Consultancy Project

Project Title	Funding	Amount	Duration	Investigator(s)
	Agency	(in INR)		
Science and Technology,	Vigyan	11 lakh (approx.) for	About three	Abhijit Bora
Communication and	Prasar	the first year (18 lakh	years since June,	(PI)
Popularization in	(Under DST,	annually from second	2021 (Ongoing)	
Assamese (SCoPE –	Delhi)	year onwards)		

Assamese) project				
Experience sharing	UNICEF	1618000	1-05-2021 to	Joya
documentation to reduce			31-12-2021	Chakraborty
flood related child death,				(PI)
capacity building for				Dr. Anjuman
strengthening and				Borah, Co PI
integrating C4D				
approaches in				
Development Practice and				
Pedagogy and promotion				
of C-19 appropriate				
behaviors and vaccine				

Research Projects (both Ongoing and New)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
Historical Continuity and Cultural Connotations of the Mask Traditions of North East India	ICSSR	9.7 Lakhs	2 Years (2020-2022)	Joya Chakraborty

Publications by Faculty Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Bora, A. (2022). Assamese Print Media and Freedom Struggle An Insight. *Communicator*. LVII (1): 53-59.
- Bora, Abhijit. (2021). New media and Vernacular Press : A Study on the Status of Online Vernacular Journalism in Assam. *Communicator*. LVI (1): 40-51.

Publication of Articles in Other Forms

- Bora, A. Autonomous College : Unfulfilled Objectives. *The Assam Tribune*, Guwahati, Assam, 03-02-2022
- Bhuyan K. (4th Semester, MCJ) article titled "ভাৰতৰ মহাকাশ যাত্ৰা" published in Sandhan, a Science Newsletter in Assamese by Vigyan Prasar. 2022
- Bhuyan K. (2nd Semester, MCJ) film review titled "Daai The World of an Artist", *Magical Assam.* 2021
- Bhuyan K. (4th Semester, MCJ) article titled 'Nine Hills And One Valley Paints A Picture Of Contemporary Manipur', *Film Companion*, 20-03-2022.
- Chandan Kumar Nath (3rd semester MA C4D), 'Sima Bibad Aru Rajniti', *Asom Barta*, 02-08-2021.
- Chandan Kumar Nath 3rd semester MA C4D), 'Chipe Sitare', *Jansatta*, 26-05-2021.

Name of Faculty/	Purpose of	Title of Event	Date/	Organizer and
Staff Member	Attending		Period	Venue
Joya Chakraborty	Paper Presentation	International Conference	12-07-2021	IAMCR, Africa
				(Online)
Anjuman Borah	Paper presentation	International Conference	12-07-2021	IAMCR, Africa
-				(Online)
	Paper presentation	International Conference	08-07-2021	ICAN4 Delhi
Junali Deka	Paper presentation	National Seminar	21-04-2022	Mizoram University

Conference/Workshop/Symposium/Seminar etc. Attended

Name of	Title of the Talk	Title of the Event	Date	Organizer and Venue
Faculty Member				
Sunil Kanta Behera	Journalists as peace makers and noble laureates	Discussion	11-04-2021	Department of MCJ, TU (Online)
Abhijit Bora	Re-thinking the role of DIPROs in the New Media Age	New technologies ND Mis-information, Dis- information in Public Relations (Training session for new recruits in Public Relations Dept. of Assam govt.)	13-12-2021	Relations Dept., Govt. of Assam, PWD Convention Centre, Ganeshguri, Guwahati
	Story-telling in Science Communication	Scientific Story-telling for new media and newspapers	27-05-2022	Institute of Advanced Study in Science and technology (IASST), Guwahati, Assam
Abhijit Bora and Manoj Deori	Consultation on various aspects of science communication	Consultation session on science communication	25-11-2021	Institute of Advanced Study in Science and technology (IASST), Guwahati, Assam
Joya Chakraborty	Media women and children	3-day FDP Development Journalism	27-02-2022	UNICEF, West Bengal (Online)
	Reporting on women and Children	Students' workshop Development Journalism	08-03-2022	UNICEF, West Bengal (Online)
	Participatory Research in Communication	One-week FDP	10-03-2022	Adamas University, Kolkata (Online)
	Media women and children	Students' workshop Development Journalism	16-03-2022	UNICEF, Kolkata (Online)
	Media Women and Children	Students' workshop Development Journalism	03-04-2022	UNICEF, Kolkata (Online)
	Grounded Theory	Capacity Building Programme for faculty in social sciences	30-08-2022	Ambedkar Chair, Tezpur University (Online)
	Participatory Research	Capacity Building Programme for faculty in social sciences	30-08-2022	Ambedkar Chair, Tezpur University (online)
	MA C4D curricula in India	Seminar series on Media development curricula from around the world	02-07-2021	IAMCR Media sector Development working group, MAHE, Karnataka
	Challenges & Prospects for virtual pedagogy in Journalism and Mass Communication during COVID	Panel Discussion (IAMCR- Manipal Conclave 2021)	14-07-2021	IAMCR – Manipal, Karnataka
	Implications of national education	National Media Conclave 2021	22-11-2021	Bhubaneswar, Odisha

Invited Talk

	policy for media and communication education in India			
Anjuman Borah	Art of public speaking and presentation	Add on Course	26-12-2021	HPB Girls college, Department of Assamesse
Manoj Deori	Innovative pedagogy in Higher Education	Interdisciplinary Refresher Course	07-12-2021	TLC, Tezpur University

Awards/Honours/Notable Achievements

Name of	Designation of	Achievement	Event/Awarded by
Awardee	Awardee		
Joya Chakraborty	Faculty	Community based participatory research coordinator (North Eastern States)	Unnat Bharat Abhiyan 2.0
Lohita Raulo	Research Scholar	ICSSR Doctoral Fellowship - 2021	ICSSR
Harshwardhani	Research Scholar	Completed Estophilus scholarship	Tallinn University, Estonia
Sharma		(Sept 2021- Feb 2022)	

Other Significant Activities of the Department

- Webinar: On the theme 'Journalists as Peacemakers and Nobel Laureates' to mark the occasion of two Nobel Prize awarded to two renowned journalists. Speakers: Mr Samudra Gupta Kashyap, State information Commissioner, Guwahati and Dr. SK Behera, Professor of Eminence from the MCJ Dept. 11-10-2021.
- National Press Day: in association with the Information and Public Relations Department of Sonitpur district. Newsletter 'Fine Print' released. 16-11-2021.
- Webinar: On the topic 'The uncomfortable truth' was organized with Prof. Anup Kumar Talukdar of Gauhati University as part of the SCoPE-Assamese project. 05-10-2021.
- A state-level workshops on Science Communication under SCoPE-Assamese project held at Cotton University, Guwahati in collaboration with Mass Communication Department, TU. Resource persons: Science communicator Dr Dinesh Chandra Goswami and Dr Jayanta Kumar Sarma. 28-03-2022
- Street Plays at the University: By the students of MC600 Science Communication (Core course) of Semester IV of the department. On themes relating to health, hygiene, mental health etc. in keeping with the National Science Day observation on March 1, 2022.
- Special Lecture: On 'Circular Economy' as a part of the SCoPE-Assamese activities. Resource Person: Prof. Arup Kumar Mishra, Chairman, State Control Board, Assam, Guwahati. 16-03-2022.
- Interaction between students of the department and Dr Madhab Chandra Rajbongshi, Superintendent of Tezpur Medical College on the theme of "COVID19 pandemic and the medical profession a view from a frontline warrior." 16-03-2022.
- Six-day workshop on series of online lectures and digital workshop on Graphic Design for the students of MA C4D, with Dr. Atul Sinha being the resource person for the mentioned sessions. 13-11-2021 to18-11-2021.
- Series of online lectures and digital workshop on Puppetry for the students of MA MCJ and C4D. Resource Person: Ms Anurupa Roy, one of the most prominent puppeteers of India. Oct. 2021.

- Three-day workshop on "Stories, Meaning Making and Power" led by Raviraj Shetty, hailing from Kathmandu in India, and a prominent social activist in the mental health and wellness sector. 01-02-2022 to 03-02-2022.
- One-day workshop on Radio Broadcasting by RJ Manjuri and RJ Hansraj. 14-03-2022.

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
NET	3	MCJ
	1	C4D
	1	Ph.D.
JRF	1	Ph.D.

Notable Placement of Students

Name of Student	Academic	Placement Designation	Company/ Organization	Mode of
	Programme			Selection
Rinku Pathak	Ph.D.	Corporate Communication	ONGC	Off Campus
Madhusmita	MCJ	Trainee Account Executive	Adfactors PR	On Campus
Bordoloi				
Abhishek Kabra	MCJ	Trainee Account Executive	Adfactors PR, Power Grid	On campus
Simanta Barman	MCJ	Trainee Account Executive	Adfactors PR	On Campus
Neetumoni Das	C4D	Field executive	Contact Base	Off Campus
Kaveri Saikia	C4D	Field executive	Contact Base	Off Campus
Kangkana Devi	C4D	Fellow	Gandhi Fellowship	Off Campus
Arifa Begum	C4D	Executive	SeSTA	Off Campus
Samagnee Baruah	MCJ	Assistant Professor	Dibrugarh University	Off Campus
Sangita Kalita	C4D	Communication Specialist	Insight Brandcom	Off Campus
Gitartha Bhuyan	C4D	Executive Trainee	SeSTA	On Campus
Trishna Baruah	C4D	Executive Trainee	SeSTA	On Campus
Pratibha	MCJ	Analyst	IPAC	On Campus
Bhattacharjee				

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic Programme	Name of other Institute	Enrolled Academic
			Programme
Seuj Sajib Nath	M.A MCJ	JNU	Ph.D.

DEPARTMENT OF SOCIAL WORK

About the Department

The Department of Social Work, Tezpur University was established in 2014 to respond to the dearth of good Social Work schools and trained social work professionals in the North East Region (NER) of India. The Department follows a rigorous theoretical and field-based pedagogy with special focus on the issues of the NER. The Department offers Masters and Ph.D. programme in Social Work.

Academic Programmes and Student Intake

Academic Programme	Intake
M.A. Social Work	22
Ph.D.	Variable (admitted 02 in 2021-22)

Thrust Research Areas of the Department

- Social Entrepreneurship and Livelihood promotion
- Gender and Social Work
- Public health and Mental Health
- Environment, Ecology and Social Work

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
Professor	Chandan Kumar Sharma	Ph.D. (Delhi University)	Development; Environment; Urbanisation; Agrarian Structure; Social Movements; Ethnicity; Migration; Culture; Society and Politics of Northeastern India.	chandan	11-08-2010
Assistant Professor	Apurba Saha	Ph.D. (National Institute of Mental Health and Neuro Sciences, NIMHANS)	Mental Health and Social Work	apurbasaha	04-07-2014
	Rajesh Kalrivayil	Ph.D. (JNU)	Science, Technology and Innovation Studies	rajeshk	27-10-2014
	Samhita Barooah	Ph.D. (TISS, Guwahati)	Ecology, Social Work Practice, Gender, Social Entrepreneurship	samhitab	15-11-2021
	Namami Sharma	Ph.D. (Delhi University)	Environment and Social Work, Community Organisation	namamis	09-01-2017
	Prerana Banik	M.Phil (TISS, Mumbai)	Gender and Livelihood	banikpb	02-02-2017

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the current position
Assistant	Kiran Mahalia	kiran	02-08-2018
MTS	Gunadhar Bora		29-07-2015

Research Projects (both Ongoing and New)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
Substance Abuse and Suicidal Behavior among college Students in North East India	ICMR	28,24,500	18 months (1-07-2021 onwards)	Apurba Saha (PI) Prof. Nilratan Roy (CoPI)
Nasha Mukta Bharat Abhiyaan: A Step to Build Abstemious Society through Community Intervention and Promoting Healthy Habits	Ministry of Social Justice and Empowerment, Govt. of India	18,95,250	10 months (01-11-2021 onwards)	Apurba Saha (PI) Chandan Sharma (CoPI) Amiya Das (CoPI)
Nutrition and Community Action Resource Centre	UNICEF and POSHAN Abhiyaan , Govt. of Assam	98,83,400	Continuing 1-03-2021-	Chandan Sharma (PI) Rajesh Kalarivayil (Co-PI) Namami Sharma (Co-PI)

Publications by Faculty and Staff Members Publication of Articles in LICC CARE Listed Crown L/Crow

Publication of Articles in UGC-CARE Listed Group I/Group II Journals Bora D., Deuri S. P. & Saha A. (2021). Psychiatric Social Work Intervention with a Woman with

 Bora D., Deuri S. P. & Saha A. (2021). Psychiatric Social Work Intervention with a Woman with Depression: A Case Report from Assam. *International Journal of Indian Psychology*, 9(2): 1015-102

Publication of Articles in Other Forms

- Barooah S. 'Matrilineal Societies and Contemporary Realities in Meghalaya', magazine sanghaditha.com,
 - September 1, 2021. https://www.sanghaditha.com/meghalayile-mathrudayaga/
- Barooah S. 'Feminism needs government support in hours of crisis', The Leaflet, E-Magazine, July 16, 2021,

https://theleaflet.in/feminism-needs-government-support-in-hours-of-crisis/

- Barooah S. 'Trans troll by media', E-Magazine: Medium, July 20, 2021, https://medium.com/@samhitaworld/trans-trolls-by-media-ec9c9306ede8
- Barooah S. 'Queer Ecology of Borders', E-Magazine: Medium, July 29, 2021, https://medium.com/@samhitaworld/queer-ecology-of-borders-5c4e046934f4
- Barooah S. 'Pride Month in Prejudiced Assam', E-Magazine: Medium, July 24, 2021, https://medium.com/@samhitaworld/pride-month-in-prejudiced-assam-60aadf12b22c
- Barooah S. 'Through the non-binary lens', E-Magazine: Medium, July 19, 2021, https://medium.com/@samhitaworld/through-the-non-binary-lens-9987cb96572f
- Barooah S. 'A in the LGBTQIAPK spectrum', E-Magazine: Medium, July 20, 2021, https://medium.com/@samhitaworld/a-in-the-lgbtqiapk-spectrum-9624f165bec4

• Barooah S. 'Cultural Gaze at Women in Public Sphere,' E-Magazine: Medium, September 19, 2021,

https://medium.com/@samhitaworld/cultural-gaze-at-women-in-public-sphere-4056c1360638

- Barooah S. 'Collective Ecosystem Restoration,' Newspaper: Arunachal Times, June 7, 2021, https://arunachaltimes.in/index.php/2021/06/07/collective-ecosystem-restoration/
- Barooah S. 'Palm Oil Invasion of North East India,' Newspaper: The Morung Express, October 6, 2021,

https://morungexpress.com/palm-oil-invasion-of-north-east-india

• Barooah S. 'Decolonised Democracy', Newspaper: The Shillong Times, April 6, 2021, https://theshillongtimes.com/2021/04/06/decolonised-democracy/

Name of Faculty/ Staff Member	Purpose of Attending	Title of Event	Date/ Period	Organizer and Venue
Rajesh Kalarivayil	Paper Presentation	Social Life of Care' conference	14-05-2021	Centre for Research in the Arts, Social Sciences and Humanities, University of Cambridge (Online)
Samhita Barooah	Photo essay presentation on Redefining Citizenship through the streets and public sphere, photo journey from Lataxil, Shaheen Bagh to Guwahati Queer Pride.	State, Community and Gender, Perspectives and Practices	16-03-2022	Department of Sociology, Tezpur University

Conference/Workshop/Symposium/Seminar etc. Attended

Invited Talk

Name of	Title of the Talk	Title of the Event	Date	Organizer and Venue
Faculty				-
Member				
Samhita	Queerness, Ecology	Online 10th ID Refresher	17-03-2022	UGC HRD Center
Barooah	and Livelihoods	Course on Child Development		Gauhati University
	during Pandemic	Women's Issues and Gender		
	Times	Sensitization		
	Gender Diversity in	-do-	12-03-2022	-do-
	Public Sphere			
	Gender Sensitive	Conversation Meet online	09-12-2021	Foundation for Social
	Education Campus:			Transformation,
	Understanding from			Guwahati, Assam
	queer lenses			
	Gender Based	Online orientation programme	05-01-2022	NIPCCD, Ministry of
	Violence Social	for combating violence against		Women and Child
	Construct of Gender	women and girls for		Development, Regional
	and it's implications-	college/university teachers.		Center Mohali, Punjab,
	Causes and			India.
	Consequences.			
	Gender at Work	Webinar	25-01-2022	Gender Sensitisation
	across virtual and			Cell, Royal Global
	physical spaces			University, Guwahati
Namami	Building Village	Capacity Building of Women	29-11-21 to	Pabhoi Greens in

Sharma	Institutions	Farmers on Sustainable	01-12-21	collaboration with
		Agricultural Practices		UNDP, Khonoma,
				Nagaland

Other Significant Activities of the Department

- The World AIDS Day Observation, 01-12-2021:
 - Awareness programme on HIV-AIDS in the TU campus
 - Discussion with People Living with HIV (PLHIV) and members of the NGO "SNEH" working with PLHIVs.
 - A webinar was organised titled "Visual Journey of PLHIV: an ethnographic account and contemporary post covid realities of PLHIV "
- Webinar: "The socio legal perspectives of human dignity of survivors of rape, forced child marriage and domestic violence", 24-11-2021.
- Webinar: "Witch Persecution/Hunting in Indigenous Societies in India", 09-12-2021.
- Public Lecture: By Brinelle Dsouza on "Right to Healthcare and Collective Action : Experiences from the field", 17-12-2021.
- Panel discussion: "Gender queer awareness", 08-12-2021.
- Interactive Session: With Mr. Pranab Doley, the Indigenous Rights Activist and Ms. Devyani Borkataki on "Ecology and Militarisation: An Emic Perspective", 10-12-2021.
- Interactive Session: With Mr. Armaan Ali, Executive Director, National Centre for Promotion of Employment of Person with Disability, 06-12-2021.
- The International Women's Day Observation: In collaboration with the Department of Mass Communication and Journalism, 08-03-2022.
- World Social Work Day Observation: Renown social activist Medha Patkar gave a public lecture. Members of local NGOs participated in the programme.

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
NET	1	M.A. Social Work

Notable Placement of Students

Name of Student	Academic	Placement Designation	Company/	Mode of
	Programme		Organization	Selection
Sarmistha Agasthi	M.A. Social Work	Gandhi Fellow	Piramal	On- Campus
			Foundation	
Barsha Barua	M.A. Social Work	Project Coordinator	Evangelical Social	Off Campus
			Action Forum	_
Tonaya Borah	M.A. Social Work	Project Assistant	NCARe, Tezpur	Off Campus
		(Knowledge Management)	University	_
Jnandeep Mahanta	M.A. Social Work	CDPO	Govt. of Assam	Off Campus

Enrollment of Students in other Institutes for Higher Studies

	Academic Programme	Name of other Institute	Enrolled Academic
Student			Programme
Charmi Haque	M.A. Social Work	Assam University, Silchar	Ph.D.

DEPARTMENT OF SOCIOLOGY

About the Department

The Department of Sociology at Tezpur University was established in 2006 with a Master's program. Subsequently, it launched a PhD program in 2008. The department is dedicated to creating competent and socially sensitive graduates through rigorous teaching/training programs and extension activities. The curriculum emphasizes the teaching and learning of general concerns of sociology as well as the issues of sociological significance in northeastern India, which are a special focus of the teaching and research of the department. A combination of participatory, experiential and creative pedagogy is used for transacting the curricula to foster dialogue, mutual learning and critical reflection. The pedagogical practices also utilize an interdisciplinary framework combining classical approaches in conjunction with emerging areas of research. The students pursuing their Masters in the department not only have to learn critical approaches and perspectives in the classroom but are also encouraged to participate in short field visits during vacations as part of their mandatory research projects. The department also takes care to expose the students to the prevailing social realities through activities such as outreach programs, regular film screenings, seminars and other programs in collaboration with other social organizations. The faculty members of the department have a wide range of interests and expertise and are currently engaged in research in areas such as Development, Education, Environment, Ethnic Conflicts, Governance, Health, Migration, Social Movements, Science Studies and so on.

Academic Programmes and Student Intake

Academic Programme	Student Intake
MA in Sociology	38
Ph.D. in Sociology	Variable (admitted 04 in 2021-22)

Thrust Research Areas of the Department

- Sociology of Northeast India
- Migration
- Identity Politics
- Public Health
- Sociology of Education
- Land Relations
- Sociology of Development
- Gender Studies
- Environmental Sociology

Major Facilities/Equipment available

- Smart Class Room
- Air Conditioned Research Scholar's Room
- Book Club cum Reading Room

Faculty Members

Designation	Qualification (Institute)		Qualification (Institute)		Qualification (Institute) @tezu.ern		Date of holding the current position
	Chandan Kumar Sharma	Ph.D. (University of Delhi)	Development, Environment, Identity Politics, etc.	chandan	11-08-2010		
Professor	Rabin Deka	Ph.D. (Dibrugarh University)	Social Movements, Social Exclusion, Agrarian Studies	rdeka	01-12-2015		
	Kedilezo Kikhi	Ph.D. (NEHU)	Sociology of Development, Sociology of Northeast India, Tribal Studies	kedi	02-11-2015		
Associate Professor	Amiya Kumar Das	Ph.D. (TU)	Sociology of Governance, Sociology of Health and Illness Research Methodology	amiyadas	18-11-2019		
	Sumesh, S.S.	Ph.D. (University of Kerala)	Body, Gender and Sexuality, Masculinity studies, Identity and Exclusion	sumesh	01-12-2009		
	Nirmali Goswami	Ph.D. (IIT Kanpur)	Identity Politics and Education, Gender Politics, Language Ideologies	nirmalig	14-12-2009		
Assistant	Sarmistha Das	Ph.D. (TU)	Agrarian Studies, Kinship Studies, Land and Livelihood	sarmistha	19-08-2010		
Professor	Subhadeepta Ray	Ph.D. (University of Delhi)	Sociology of Science. Sociology of Anthropocene Sociology of Knowledge	sray	24-02-2014		
	A.S. Shimreiwung	Ph.D. (JNU)	Sociology of Mass Media, Sociology of Religion, Northeast India Studies	shim	04-07-2014		
	Pamidi Hagjer	Ph.D. (Gauhati University)	Ritual Studies, Kinship Studies, Industrial Sociology	pamidi	06-04-2017		
Guest Faculty	Minakshi Sarmah	M.A. (Griffith University, Australia)	International Relations (Research)	msarmah	2017		

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the
			current position
Upper Division Clerk	Amarjyoti Bharali	amar	2009
MTS	Jogen Das	jogen	1996

Publications by Faculty and Staff Members Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Hazarika, B. O. & Das, S. (2021) Paid and unpaid work during the Covid-19 pandemic: A study of the gendered division of domestic responsibilities during lockdown. *Journal of Gender Studies*, 30(4):429-239
- Hagjer, P. (2022).Dimasa Rituals of Death and Mourning in Contemporary Assam . *Religions*, 13(1),82: DOI: https://doi.org/10.3390/rel13010082.
- Bhuyan, N. & Goswami N. (2022). Of Sankardeva, Sanskrit and Saraswati: The Interplay of the Regional and the National Symbols in a School in Assam. *Contemporary Education Dialogue*. 9(1):16-36
- Goswami, N. (2021). Mother-Work and School Culture: Parenting Strategies in Banaras. *Explorations*, ISS e-journal, 5 (2):29-47

Publication of Book Chapters

- Das, Amiya Kumar, (2021). "Informal Political Networks, Dalals and Local Governance in Assam" in G. Amarjit Sharma (Ed) *State vs. Society in Northeast India: History, Politics and the Everyday*, New Delhi, Sage, pp. 275-292., ISBN- 978-9-391-370-657
- Das, Amiya Kumar, (2021). "Interrogating Dalit Capitalism in the Neoliberal Era: Illusion or Reality" in R. Thirunavukkarasu (Ed) *Social Hegemony in Contemporary India*, New Delhi, Sage pp. 57-82., ISBN-978-9-353-886-332
- Goswami, N. (2021). 'Assamese and its 'others': Making of a school language in a multilingual society' In Kedilezo Kikhi, Amiya Kr Das and Piyashi Dutta (Eds.) *Indigeneity, Citizenship and the State: Perspectives from India's Northeast*, pages 186-207, ISBN: 9789350027257 Akar, New Delhi:

Publication of Articles in Other Forms

• A. S. Shimreiwung, "Why Development Cannot Climb Hills?", *Ukhrul Times*, (Online News Portal)

https://ukhrultimes.com/why-development-cannot-climb-hills/

Name of Faculty/Staff Member	Purpose of Attending	Title of Event	Date/ Period	Organizer and Venue
A. S. Shimreiwung	Chair	Folk Traditions and Forms in India	11-03-2022	Department of English, Jamia Millia Islamia (Online)

Conference/Workshop/Symposium/Seminar etc. Attended

Invited Talk

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue
Sarmistha Das	Issues in Development	Issues in Development		Department of Mass Communication and Journalism, Tezpur University
A. S. Shimreiwung	Tangkhul Society and Electoral Politics	Tangkhul Society and Electoral Politics	19-02-2022	Tangkhul Scholars Association (Online)

Nirmali	Reflexivity in	Refresher Course on	09-12-2021	UGC HRDC,
Goswami	examining languages in	Shifting paradigms in		Harisingh Gour
	educational settings	social science research		Vishwavidyalaya, MP
Nirmali	Going beyond the	Conversations,	28-08-2021	Department of
Goswami	binary of home and	Departmental seminar		Political Science,
	school: Language and	_		Gauhati University
	politics in the South			
	Asian context			
Nirmali	Impact of Covid 19 on	Webinar on Impact of	02-07-2021	Department of
Goswami	Education: The	Covid 19 on Education:		Sociology, Model
	Northeast Context	The Northeast Context		college, Kaziranga,
				Assam

Other Significant Activities of the Department

- Seminar on 'Citizenship, State and Society in Contemporary Times' in Collaboration with Centre for Public Policy and Research, 14-03-2022.
- National Seminar on 'State, Community and Gender: Frameworks and Practices in South Asia', 15-03-2022 & 16-03-2022.
- Outreach Activities on the occasion of International Women's Day which includes Solidarity Walk, Gender Sensitisation and Awareness Session at Napam MV School with NRHM staff, and a skit on the theme of 'A step towards inclusivity' by the students, 08-03-2022.

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
UGC NET	2	MA Sociology & PhD Sociology
UGC-JRF	1	PhD Sociology

Name of	Academic	Placement	Company/ Organization	Mode of
Student	Programme	Designation		Selection
Dimpi Sonowal	MA Sociology	Faculty	DHSK College	Off Campus
Bipasa Sonowal	MA Sociology	Faculty	Salt Brook Academy	Off Campus
Deepshikha	MA Sociology	Faculty	Dr. Radhakrishnan School of Arts,	Off Campus
Ahom			Commerce and Science	
Iona	MA Sociology	Fellowship	Teach For India	Off Campus
Bhattacharya				
Prativa Brahma	MA Sociology	Operations	Masai School, Bengalaru	Off Campus
		Manager		
Kankana	MA Sociology	Program Manager	Delhi Skill and Entrepreneurship	Off Campus
Talukdar			University, New Delhi	
Darathi Kalita	MA Sociology	Teacher	Maria School, Guwahati	Off Campus
Dumisani	MA Sociology	Monitoring,	Nutrition Action Zimbabwe	Off Campus
Nhliziyo		Evaluation		
-		Accountability		
		and Learning		
		Officer		

Notable Placement of Students

CHANDRAPRABHA SAIKIANI CENTRE FOR WOMEN STUDIES

About the Centre

Chandraprabha Saikiani Centre for Women Studies entails the journey of women studies at Tezpur University. The establishment of this new subject, 'Women Studies,' has been a new identity within the existing disciplines. Women Studies is a self-conscious determination to show that both the form and the content of the existing knowledge is related to the unequal distribution of social power between men and women. North–east India, being a region of diversities, positions women differently in terms of race, class, ethnicity and sexuality. This politics of difference is a major proposition in the current times as it calls into question ideas of immediate and transparent personal experience and face-to-face community interaction. At present, the centre has a fundamental obligation of disseminating women studies and scholarship and also to be an active participant in politically oriented dialogue. It is our pleasure to record our sincere gratitude to the University for its unstinted support at every stage of its evolution and development.

Academic Programmes and Student Intake

Academic Programme	Student Intake
PG Diploma in Women Studies	20
Ph.D.	Variable (admitted 03 in 2021-22)

Thrust Research Areas of the Centre

- Gender Studies
- Performance Research
- Gender and Mental Health
- Anthropology and Cultural Studies
- Women and Folklore

Major Facilities/Equipment available

- Desktop
- Laptop
- Furniture
- MMP

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
	Madhurima Goswami	Ph.D. (TU)	Culture and Religion	mgs	04-02-2014
J	Mousumi Mahanta	Ph.D. (TU)	Mental Health	mousumi	20-07-2015

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the current position	
Data Entry Operator	Pranjal Sharma	pranjal	19-03-2014	
Professional Assistant	Abhijit Baishya	abhi	19-11-2015	

Research Associate	Dr. Ivy Daimary	ivy2	09-08-2016
MTS	Malati Boro	malati	29-01-2016

Research Projects (both Ongoing and New)

Project Title	Funding Agency	Amount	Duration	Investigator(s)
		(in INR)		
Lives of the Ritual Priestesses of	Indian Council of Historical	2.5	2 Years	Madhurima
Assam: A Study with special	Research (ICHR), New Delhi	Lakhs	(2021-	Goswami
reference to the Institution of			23)	
Doudinis in the Bodo Society.				
Gender Advancement for	Gender Advancement for	8 Lakhs	2 Years	Madhurima
Transforming Institutions (GATI)	Transforming Institutions		(2021-	Goswami
	(GATI)		23)	

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

• Sharma, P. Goswami, M. (2021), Un-Accounted Violence: Women Domestic Workers during Covid-19 Funding, *International Journal of Social Sciences*, Vol.10 (02): 2 -9

Publication of Book Chapters

• Goswami, M. (2022), Women Trafficking: Subtle lying challenge towards building equity, In Kikhi K. and Gautam D.R., *Comprehending Equity*, pages 137-147, ISBN:978-1-032-23411-3,Routledge:London & New York.

Invited Talk

Name of Faculty Title of the Tall		Title of the Event	Date	Organizer and Venue
Member				
Mousumi	Child Sexual	National Girl Child	24-01-2022	SAED Solution Private
Mahanta	Abuse	Day		Limited, Barpeta (Online)

Other Significant Activities of the Centre

- UN International Fortnight to Resist Violence against Women and Girls Observation: on the theme Orange the world: End Violence against Women now, 25-11-2021 to 10-12-2021.
- Outreach Programme: Legal Awareness Programme at Borbil, Tezpur, 15-03-2022.
- Dr. Mousumi Mahanta was invited as a guest of honour by the Prajapita Brahma Kumaris Ishwariya Vishwa Vidyalaya, Ketekibari Centre in International Women's Day celebration, 13-03-2022.
- Outreach Programme: Meeting with village elders on *Empowerment through the intervention of technology* at Borbil village, Sonitpur district, 09-02-2022.
- The Centre with its endeavour to connect with the community womenfolk, participated in "The Observation of Women's Day by Jeuti Mahila Samiti", Nappam village, Tezpur, Sonitpur district, Assam, 08-03-2022.

DR. AMBEDKAR CHAIR

About the Chair

Dr. Ambedkar Chair, Tezpur University, was established by Dr. Ambedkar Foundation, Ministry of Social Justice and Empowerment, New Delhi, in 2016, to serve as a core centre for North East India, to further the ideals and philosophy of Dr. B. R. Ambedkar and the emancipation of the disadvantaged sections of society. The thrust area of the Chair is to conduct research on issues related to underprivileged communities in North East India with particular emphasis on their marginalisation, development and participation. The Chair was set up with the following objectives:

- Teaching and research
- Building a library
- Conducting research projects
- Organising public lectures
- Conducting awareness and skill development programmes

Thrust Research Areas

Issues Related to Disadvantaged Communities in the Context of NER (Marginalization, Development and Participation)

Major Facilities/Equipment available

- Room No. 299H (HSS Building)
- Two Desktop and a printer
- Five set of attached school desk and chair
- 5-seater sofa set with center table
- Office desk and chairs

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
Professor	Kedilezo Kikhi	Ph.D. (NEHU)	Sociology	kedi	18-04-2017

Officers and Staff Members

Designation Name		<email>@tezu.ernet.in</email>	Date of holding the
			current position
Research Officer	Dharma Rakshit Gautam	dgautam	13-11-2017

Research Projects (both Ongoing and New)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
Annotated Bibliography on Scheduled Castes and Scheduled Tribes in Social Sciences	DAF, MSJ&E, GOI	3.75 Lakh	4 years (2018-22)	K. Kikhi & D. R. Gautam
An Evaluation of Micro Finance Schemes of NBCFDC in the State of Assam	NBCFDC, MSJ&E, GOI	4.37 Lakh	1 Year (2021-22)	K. Kikhi & D. R. Gautam

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Kikhi, K. & Hibo, Visakhonö (2021-22). *Khitosbo*: The Legendary Wild Pear Tree at Makhel. *Journal on Frontier Studies*. 8: 12-16.
- Gautam, D. R. (2022). In the Name of Living with Virus: Enforcement of (Hidden) Agenda to Throttle Idea of Inclusive Education and Development. *Contemporary Voice of Dalit*, 14(1): 103–109.

Publication of Books

- Kikhi, K. & Gautam, D.R. (Eds.). (2021). *Comprehending Equity: Contextualising India's North-East.* Routledge India, New Delhi
- Kikhi, K., Das, Kumar, A. & Dutta, P. (Eds.). (2021). *Indigeneity, Citizenship, and the State: Perspectives from India's Northeast.* Aakar Books, Delhi.
- Kikhi, K. & Jose, K. SVD (Eds.). (2021). *Nagaland Vibrant Ethnic Communities in Transition: Culture, Festival, Customary Laws (Vol II)*. DVS Publishers, Delhi.
- Jose, K. SVD & Kikhi, K. (Eds.). (2021). *Nagaland Vibrant Ethnic Communities in Transition: Land, People, Livelihood (Vol I)*. DVS Publishers, Delhi.

Publication of Book Chapters

- Kikhi, K. & Gautam, D.R. (2021). Introduction: Equity and Differing Contexts in North-East India. Kikhi, K. & Gautam, D.R. (Eds.), In *Comprehending Equity: Context of North-East India*, pages 1- 20. Routledge India, New Delhi.
- Kikhi, K., Das, Amiya Kumar & Dutta, Piyashi. (2021). Introduction: Indigeneity, Citizenship and the State. Kikhi, K., Kumar Das, A. & Dutta, P. (Eds.), In *Indigeneity, Citizenship, and the State: Perspectives from India's Northeast*, pages 13-32. Aakar Books. Delhi.
- Kikhi, K. & Ghosh, Jagritee. (2021). Land Rights, Identity and Customary Laws amidst Angami and Konyak Nagas: A Comparative Cross-Referencing. Kikhi, K., Kumar Das, A. & Dutta, P. (Eds.), In *Indigeneity, Citizenship, and the State: Perspectives from India's* Northeast, pages 172-186. Aakar Books, Delhi.
- Kikhi, Kedilezo & Husca, A. (2021). Insight on Unique Heritages and Traditions of Sumi Nagas. Kikhi, K. & K. Jose SVD (Eds.), In *Nagaland - Vibrant Ethnic Communities in Transition: Culture, Festival, Customary Laws (Vol 2),* pages 80-97. DVS Publishers, Delhi.
- Jose, K. SVD & Kikhi, Kedilezo. (2021). Introduction: The Land and People. K. Jose SVD & Kikhi, K. (Eds.), In *Nagaland Vibrant Ethnic Communities in Transition: Land, People, Livelihood (Vol 1)*, pages. 1-12. DVS Publishers, Delhi.
- Kikhi, Kedilezo & Kikhi, Chozule. (2021). Livelihood and Resources: Naga Women as Natural Managers and preservers of Eco-Biodiversity. K. Jose SVD & Kikhi, K. (Eds.), In *Nagaland Vibrant Ethnic Communities in Transition: Land, People, Livelihood (Vol 1)* (pp. 36-52). DVS Publishers, Delhi.
- Jose, K. SVD & Kikhi, Kedilezo. (2021). Vibrant Ethnic Communities and Modernization of Traditions. K. Jose SVD & Kikhi, K. (Eds.), In *Nagaland Vibrant Ethnic Communities in Transition: Land, People, Livelihood (Vol 1)*, pages 142-158. DVS Publishers, Delhi.

Name of	Purpose of	Title of Event	Date/Period	Organizer and Venue
Faculty/ Staff Member	Attending			
Member	Panel Speaker Keynote Speaker	Webinar on the occasion of Janjati Gaurav Divas Webinar on Gender Parity in Contemporary India: A Sociological Perspective	15-11-2021 02-10-2021	Tezpur University (Online) Department of Sociology, Eastern Christian College,
Resource Person		Two-day National Level workshop on Research Methodology, Writing and Publication	11-11-2021 to 12-12-2021	Dimapur (Online) Sazolie College, Jotsoma (Kohima) (Online)
Kedilezo Kikhi	Resource Person	ICSSR sponsored Online Capacity Building Programme (CBP) for Faculty Members of Social Sciences Belonging to the Disadvantaged Sections	04-09-2021	Dr. Ambedkar Chair, Tezpur University (Online)
	Resource Person	Online Faculty Development Programme on Covid 19 and Research Areas: Approaches for Humanities and Social Sciences	12-07-2021 to 18-07-2021	Faculty of Humanities and Social Sciences in Collaboration with IQAC, Assam down town University, Guwahati (Online)

Conference/Workshop/Symposium/Seminar etc. Attended

Other Significant Activities of the Chair

- Lecture Series: *Dr. Ambedkar Memorial Lecture Series (Eight Lecture)* on the theme *Dr. B.R. Ambedkar and the Radical Dalit Self* delivered by Prof. Raj Kumar, Department of English, University of Delhi, 21-03-2022.
- Lecture Series: *Dr. Ambedkar Memorial Lecture Series (Seventh Lecture)* on the theme *Ambedkar's Vision of Democracy* delivered by Prof. Debi Chatterjee, (Superannuated) Jadavpur University on the occasion of 66th Mahaparinirvana Diwas of Babasaheb Dr. B.R. Ambedkar as part of Azadi Ka Amrit Mahotsav Initiative of MSJ&E, GOI, 06-12-2021.
- Lecture: Public Lecture on *A Reflection on the Indian Constitution and Contribution of B.R.* Ambedkar delivered by Dr. C.J. Thomas, Former Deputy Director, ICSSR NERC on the occasion of 72nd Constitution Day Celebration as part of Azadi Ka Amrit Mahotsav Initiative of MSJ&E, GOI, 26-11-2021.
- Capacity Building Programme: ICSSR New Delhi sponsored Capacity Building Programme (CBP) for Social Science Faculty Members Belonging to the Disadvantaged Sections, 23-08-2021 04-09-2021.
- Outreach Programme: Organized Drawing Competition at M.V. Napaam School on the Occasion of 72nd Constitution Day Two Level: Level 1 (Class 1-5) Theme: Indian Constitution Day & Level 2 (Class 6-8) Theme: Constitution & India of My Dreams, 26-11-2021.

REPORT OF THE DEAN, SCHOOL OF MANAGEMENT SCIENCES

The School of Management Sciences comprises the department of Business Administration, department of Commerce, Centre for Disaster Management and Intellectual Property Rights Cell. The school showed great resilience during the post covid period gearing up its activities and standing up to fulfil the needs of the stakeholders. Along with focusing on the quality of teaching and learning, it endeavoured to maintain the psychological wellbeing of the students and attracting the recruiters. The departments, Centre and cell, tried to be more flexible and adopted the blended mode of teaching and learning.

Prof. Pritam Deb, Chair Professor of Intellectual Property Rights Cell, brought laurels to the School and the University by being conferred Visitor's (President of India) Award for the year 2020 for developing two-dimensional heterostructure based biodegradable film for food packaging.

The student Invention, namely, Battery less electrochemical sensor for quantification, removal of naringin and determination of maturity of citrus fruits, was awarded SRISTI - Gandhi Young Technological Innovation (GYTI) Award-2021.

The department of Business Administration started a new programme, Executive Masters in Business Administration, for working executives during this period.

The school carried out 3 research-based projects during this period namely, UGC SAP DRS II on Livelihood through Tourism; UGC STRIDE project on Reviving cultural artefact Gamosa through Intellectual Property Management in Assam and Innovative supply chain; ICSSR-IMPRESS funded research project on Forensic Accounting Education in India: Prospects and Problems, and some consultancy projects notable among them were for UNICEF, Ministry of Rural Development and Govt. of Assam.

9 patents were applied through the IPR Cell, 5 were published and 1 was granted. 1 design was also granted during this period. There were 5 technology transfers. The IPR Cell signed MoU with Gujrat National Law University.

The school produced 6 best paper awards, 15 journal papers, 1 book and 7 book chapters. 1 international and 16 national workshops, 6 student workshops and 1 Faculty Development programme were also organized by the school. A MOOCs titled Direct Tax- Laws and Practice under SWAYAM Platform was offered by Prof S S Sarkar of Business Administration, which was a hugely enrolled course and ranked in the top MOOCs in India.

The department of Business Administration experienced a very good placement record for the MBA students. 9 students of the department of Commerce were also placed in reputed organizations and several students were selected for higher studies in reputed institutions like IIM Udaipur, IIMBangalore, IIM Srimaur.

Overall, it was a challenging yet productive for the school.

DEPARTMENT OF BUSINESS ADMINISTRATION

About the Department

The Department of Business Administration started functioning under the School of Management Sciences on January 18, 1995, with its first batch of MBA students. Currently, it offers Masters in Business Administration (4 Semesters), Master in Tourism and Travel Management (4 Semesters), MBA Executive (3 Semester), Certificate Course in National Stock Exchange Certified Capital Market Professional (NCCMP) and PhD Program. So far, the Department has produced 26 batches of Full Time MBA Graduates, 4 batches of Part Time MBA Graduates, 14 batches of Post-Graduate Diploma Holders in Tourism Management, and 5 batches of Master of Tourism and Travel Management. In addition, the Department offers dual specialization in the areas of Marketing Management, Human Resource Management, Financial Management, and Operations Management and Systems Management. The Department draws students and faculty from premier institutes of the country and interdisciplinary backgrounds. The Department also has several international students.

Several major industry-oriented research projects sponsored by IGIDR, AICTE, Planning Commission GoI, MHRD, NEDFI, MAKAIAS and ICSSR have been carried out by the faculty in thrust areas such as, Entrepreneurship, Small Enterprise Management, Tourism Management, Rural Development, Organizational Development, Tax Management, and Micro Finance. In addition, the Department has been organizing Refresher Courses, Faculty Development Programme and Management Development Programmes for Executives of reputed organizations and offers consultancy services to organizations.

The Department has a well-equipped computer lab with the latest software. Classrooms are ICT enabled. The Department ensures that the students get theoretical knowledge and extensive practical exposure through the field and Industry visits. Many faculty members from the Department are associated with reputed national and international institutes. The Department incorporates the latest trends in management education into the teaching method. All students undergo a foreign language course (French, German or Chinese) under the Choice Based Credit System.

Academic Programmes and Student Intake

Academic Programme	Student Intake
Master of Business Administration	58
Master of Business Administration (Executive)	30
Master of Tourism and Travel management	21
<i>Certificate Course in National Stock Exchange Certified Capital Market Professional (NCCMP)</i>	35
PhD	12

Thrust Research Areas of the Department

- Inclusive Development
- Tourism
- Finance, Organization Behaviour, and Operation Management

Major Facilities/Equipment available

- ICT Enable Classroom- 05 Nos
- Board Room- 01
- Seminar Hall/ Smart Classroom- 01
- MDP/ Case Study Room- 01

- Student Lounge with AC- 01
- Girls Common Room- 01
- Corporate Lounge- 01
- Interview Room- 01

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
	Mrinmoy Kumar Sarma	PhD (Tezpur University)	Tourism Marketing, Relationship Marketing, Services Marketing, Salesmanship, Research Methodology	mrinmoy	24-01-2005
	Chandana Goswami	PhD (Gauhati University)	General Management, Financial Management	cg1	30-03-2009
	S. S. Sarkar	PhD (Tezpur University)	Accounting, Taxation, Social Development Issues	subh	03-09-2010
Professor	Debabrata Das	PhD (Rajiv Gandhi University)	Financial Management, Microfinance, Banking, Capital Market, Insurance Financial Inclusion	ddas09	06-09-2010
	Chandan Goswami	PhD (Tezpur University)	Marketing, Advertising, Tourism	chand	27-12-2012
	Papori Baruah	PhD (Tezpur University)	Behavioral Sciences, Human Resource Management, Change Management, Rural Development and Management, NGOs, Organizational Development, Performance Management, Human Resource Development	papori	16-01-2015
	Tridib Ranjan Sarma	PhD (Tezpur University)	Optimization, Project management, Quality Management, Operations, Adventure Sports	tridib	13-11-2009
Associate Professor	Anjan Bhuyan	PhD (Tezpur University)	Managerial Economics, Entrepreneurship, International Trade, Economics of Tourism, Rural Development	anjanb	03-09-2010
	Arup Roy	PhD (Tezpur University)	Stock Market, Derivatives, Financial Engineering, Microfinance	arup	28-11-2013

	Runumi Das	PhD (Gauhati University)	Human Resource, Marketing, Tourism	runumi	12-01-2019
	Heera Barpujary	PhD (Tezpur University)	Web Technology, Knowledge Management	heera	23-08-2005
Assistant	Kakali Mahanta	PhD (Dibrugarh University)	Human Resource	kakali	03-03-2012
Professor	Mridul Dutta	PhD (Gauhati University)	Tourism and IPR	mridul	01-10-2010
	Prayash Baruah	MBA (Symbiosis Institute of Operations Management)	Operation Management	prayashb	01-02-2017
	Amitava Banerjee	M Com	Labour Law		
Guest Faculty	Indrajit Dutta	MTM	Hotel Management		
	Sandeep Jain	PGP (IIMA)	Entrepreneurship		
Adjunct Faculty	Amlan Bora	MBA (AIT)	Product Management		

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the	
			current position	
Senior Technical Assistant	Tarunjyoti Borah	taruntu	13-07-2010	
Technical Assistant	Kushal Roy	kushal	05-07-2013	
Multi Tasking Staff	Suren Kumar Borah	surenb	01-11-1996	
Office Assistant	Subham Paul	subhamp	18-02-2022	

Major Research and Development Findings

Faculty/ Researcher	Salient Research Findings
Mrinmoy Kr. Sarma	Development of Tourism Convenience Index for Major Tourism Destinations
and Kakali Mahanta	in the State of Assam
Mridul Dutta	Reviving cultural artefact Gamosa through Intellectual Property Management in
	Assam and Innovative supply chain
S. S. Sarkar	Post Project Evaluation of SHYAMA PRASAD MUKHERJEE RURBAN
	Mission in NE States, Odisha and Bihar

Research Projects (both Ongoing and New)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
UGC STRIDE	UGC	11,00,000	3 YEARS	Mridul Dutta
UGC SAP DRS II	UGC	39,10,000	5 YEARS	Chandan Goswami

Publications by Faculty

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

• Dutta, D. & Sarma, M. K. (2022). Adoption of Digital Innovations: A Special Reference to Routinised Incremental Innovations. *Review of Market Integration, First Online (),* 1-25.

- Dutta, S., Sarma, T. R. (2022). Socio- Economic Issues in Disaster Relief Operations And Incorporation Of NGOs In Relief Supply Chain. *Lakhimpur Commerce College Research Journal*, 4 (1), 1-10.
- Bhattacharyya, S. & Goswami, C(handana) (2021). Antecedents of E-Referrals: A Study of Mobile Banking Applications. *IITM Journal of Business Studies*, 9 (1), 63 -69.
- Sarkar, S. S (2021). Impact Assessment of CSR under Companies Act 2013 in Assam with respect to SDGs. Submitted to the National Foundation for Corporate Governance (NFCG), a PPP under the Ministry of Corporate Affairs, Government of India and accepted by NFCG.
- Dutta, D. & Sarma, M. K (2021). Internet skills as an influencer for adoption of digital innovations in a technologically emerging nation: India, Vilakshan. *XIMB Journal of Management*.
- Dutta, D. & Sarma, M. K (2021). Adoption of digital innovation: Formulating Adopter categories and levels of adoption in a digital sphere in an emerging economy. *International Journal of Innovation and Technology Management*, 17 (8), 2050059-1 2050059-21.
- Gogoi, K. & Baruah, P (2021). Goal Setting: Its Impact on Employee Outcome. *SCMS Journal of Indian Management*, 18 (1).
- Kalita, B.J. & Bhuyan, A. (2021). Feasibility of Diversification Strategy for Sustainable Jute Cultivation: A Study in Assam *.SMS Journal of Entrepreneurship & Innovation*, 7 (2),13-25.

Publication of Books

• Baruah, R. & Baruah, P (2021). *Teamwork in Telecom Sector*. Notion Press.

Publication of Book Chapters

- Gurung. D. J., Brahma. P. & Goswami. C (2022). *Sustainable Luxury Tourism: Promises and Perils*. The Emerald Handbook of Luxury Management for Hospitality and Tourism(353-378) Emerald Publishing Limited. [DOI: 10.1108/978-1-83982-900-020211018].
- Gurung. D. J., Brahma. P. & Goswami. C (2022). *Sustainable Luxury Tourism: Promises and Perils*. The Emerald Handbook of Luxury Management for Hospitality and Tourism (353-378) Emerald Publishing Limited. [DOI: 10.1108/978-1-83982-900-020211018].

Publication of Articles in Conference Proceedings

- Ayengia, T. Chetia, J. & Baruah, P (2021). Revisiting Talent Management Practices in the context of a pandemic driven landscape: A qualitative investigation of Private Sector Organization. International e-Conference on Changing Global Economic Landscape Challenges, Strategies and Business Resilience, organized by the Department of Commerce, Christ University and Institute of Management Accountants, USA.
- Bhatia, R. & Baruah, P (2021). National culture derives the intensity of organizational justice under exclusive talent management strategy: An integrative research. *International E- Conference on Advances in Business and Management, Shaheed Bhagat Singh College, Department of Commerce, University of Delhi, India.*

Pedagogy and Content Development

• Direct Tax - Laws and Practice - Prof S S Sarkar

Name of	Purpose of	Title of Event	Date/	Organizer and Venue
Faculty	Attending		Period	
Member				
Prof Papori	Participation	Changing Global Economic	2021	Department of Commerce,
Baruah		Landscape Challenges, Strategies		Christ University and Institute
		and Business Resilience		of Management Accountants,
				USA (e-Conference)
Prof Papori	Conference	An integrative research.	2021	Shaheed Bhagat Singh
Baruah		International E- Conference on		College, Department of
		Advances in Business and		Commerce, University of
		Management		Delhi, India (e-Conference)
Dr Tridib R	Conference	Financial Management: Teaching	2021	IIM Indore.Madhya Pradesh
Sarma		and Research Perspectives		(e-Conference)

Conference/Workshop/Symposium/Seminar etc. Attended

Other Significant Activities of the Department

- Personality Development Workshop for MBA 4th Semester done by M's Walchand Pepople First Ltd, Mumbai, (19th to 21st March, 2022)
- Design Thinking workshop for MBA 4th semester done by, M/s ThinkerLabs Design Solutions Pvt Ltd. Mumbai, (12th & 13th March, 2022)
- Konnect- An Engagement/ Step-IN: March Ahead from (4th September to 3rd October, 2021)
- 2 weeks Yoga Workshop for newly admitted MBA students from (16th to 31st August, 2021)
- Digital Workshop on Community- Based Tourism post COVID-19 (An initiative under UGC-SAP) (27th July, 2020)

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
NET	03	PhD

Notable Placement of Student	S
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Name of Student	Academic	Placement	Company/	Mode of
	Programme	Designation	Organization	Selection
Arindam Rajkhowa Deka	MBA	Sales Trainee	ITC Limited	On- Campus
Samrat Deb	MBA	Sales DSE	Perfetti Van	On-Campus
Bapan Roy	MBA	Executive Trainee- Customer Development	Hindustan Unilever	On- Campus
Baishali Dey	MBA	Sales	SBI Life	On- Campus
Bandana Nath Kumar	MBA	Sales	SBI Life	On- Campus
Aman Das	MBA	Sales	SBI Life	On- Campus
Manash Pratim Borah	MBA	Sales	SBI Life	On- Campus
Babli Das	MBA	Sales	SBI Life	On- Campus
Ajitesh Dhar	MBA	Territory Sales	MRF Limited	On- Campus
Dipesh Upadhyay	MBA	Territory Sales	MRF Limited	On- Campus
Chetona Boruah	MBA	Assistant Manager (Admission)	SRVA Education	On- Campus

Sneha Phukan	MBA	Assistant Manager (Admission)	SRVA Education	On- Campus
Akash Borthakur	MBA	Assistant Manager (Admission)	SRVA Education	On- Campus
Himangshu S Saikia Phukan	MBA	Executive Trainee	Bharti Airtel Ltd.	On- Campus
Tushar Luitel	MBA	Territory Sales	Vodafone idea	On- Campus
Angshuman Das	MBA	Management Trainee	Vodafone idea	On- Campus
Rahul Das	MBA	Management Trainee	Vodafone idea	On- Campus
Nirangkush Das	MBA	Sales Trainee	ITC Limited	On- Campus
Binita Brahma	MBA	Area lead Sales	UDAAN	On- Campus
Anirban Goswami	MBA	Area lead Sales	UDAAN	On- Campus
Shahana Shehnaz Begum	MBA	Platform Advisory	Accenture	On- Campus
Mourjya Kanak Deka	MBA	Platform Advisory	Accenture	On- Campus
Rimismita Kalita	MBA	Platform Advisory	Accenture	On- Campus
Jitendra Lamsal	MBA	Platform Advisory	Accenture	On- Campus
Gargisha Saikia	MBA	Junior Research	Fin-Advisors	On- Campus

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic	Name of other Institute	Enrolled Academic
	Programme		Programme
Bhuyashi Talukdar	MBA	IIT-Kharagpur	Ph.D
Trinayani Das	MTTM	Assam University	Ph.D

DEPARTMENT OF COMMERCE

About the Department

The Department of Commerce is the second department established under the "School of Management Sciences". It came into existence in the year 2013. The department has been offering a five-year Integrated Master of Commerce (M. Com.) programme since 2014. The Integrated M.Com programme is offered with the option of lateral exit on successful completion of six semesters with B.Com (Hons) degree and lateral entry in the Seventh Semester (subject to fulfilment of eligibility criteria) for the M. Com. Degree. In addition the department is offering Doctor of Philosophy (Ph.D.) in Commerce programme from the academic session 2020-2021. Scholars joining the Ph.D. programme in the department need to compulsorily complete the coursework, where they need to complete 16 credit courses over the period of two academic senseters. The department aims to ensure that the scholars completing the Ph.D. course from the department can establish themselves in academics and can make qualitative and meaningful contribution to the existing body of knowledge. Apart from providing quality education, this department ensures that the youths can face the various competitive examinations and pursue various other courses. The Department aims to impart quality education to its students and inculcate a research culture among them to equip them with necessary skills and knowledge needed for employment in corporate sectors and to pursue a research career.

Academic Programmes and Student Intake

Academic Programme	Student Intake
Integrated M.Com	33
M.Com	12
Ph.D	Variable (admitted 07 in 2021-22)

Thrust Research Areas of the Department/Centre

- Accounting
- Finance
- Economics

Major Facilities/Equipment available

- Interactive Pen Display
- Multi Media projectors
- Audio Podium with Microphone and Speaker
- Student Response system
- Digital Notice Board

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
Associate Professor	Santi Gopal Maji		Intellectual Capital, Corporate Sustainability and Sustainable Development, Risk Management, Corporate	<u>sgmaji</u>	16-12-2019

			Governance		
	Reshma K. Tiwari	Ph.D (Gauhati University)	Accounting, Auditing, Forensic Accounting	<u>reshma</u>	25-02-2014
	Farah Hussain	Ph.D (Dibrugarh University)	Econometrics, Mathematical Economics, Development Economics	farah	16-01-2017
Assistant	Manish Kumar	Ph.D (Delhi University)	Corporate Finance and Accounting	manish	21-02-2017
Professor	Biswajit Ghose	Ph.D (North- Eastern Hill University)	Corporate Finance, Corporate Governance, Microfinance	bghose	10-12-2019
	Dhritabrata Jyoti Bharadwaz	M. Phil (Dibrugarh University)	Accounting, Finance, Risk Management	bharadj	23-07-2018
Pra	Prasenjit Roy	Ph.D (North- Eastern Hill University)	Banking and Finance	royp	29-11-2021
	Anjan Chowdhury	PG in Hospitality Management and Applied Nutrition	Soft Skills Trainer and Career Counseling	anjanchowdhury	Autumn Semester 2021
Ba	Amitava Banerjee, CS	ACS, LLB, M. Com	Corporate Governance & Company Act.	amitbanerjee197 9	Autumn Semester 2021 and Spring Semester 2022
	Shobhan Singh Khanka	Ph. D.	Entrepreneurship	sskhanka2	Autumn Semester 2021
Guest		Ph.D	Banking and Finance	pinkydutta	Autumn Semester 2021
Faculty	Rishabh Goswami	M. Com	Accounting and Finance		Autumn Semester 2021
	Manoj Khaund	M. Com	Management & Marketing	manojkhaund	Autumn Semester 2021 and Spring Semester 2022
	Rupjyoti Saha	M. Com	Accounting and Finance	rupjyoti.1122	Autumn Semester 2021
	Ananya Sarmah	M. Com	Finance	ananyasarmah1 00	Autumn Semester 2021 and Spring

					Semester 2022
Purni	ima Ph.	. D	Accounting and Finance	purnimacuh	Autumn
Singl	n				Semester
					2021

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the
			current position
Office Assistant	Bijoy Kumar Domai	<u>bdomai</u>	15-10-2019
MTS	Nipen Dutta	nipend	06-02-2016

Research Projects (Submitted in March 2022)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
Forensic Accounting Education	ICSSR	10,00,000	2 years	Reshma K. Tiwari
in India: Prospects and Problems	(IMPRESS)			

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Maji, S.G. & Saha, R. (2021). Gender Diversity and Financial Performance in an Emerging Economy: Empirical Evidence From India, *Management Research Review*, 44(12):1660-1683.
- Hussein, S.S., Maji, S.G., & Panda, N.M. (2021). The Impact of Budget Participation on Managerial Performance: Evidence from Manufacturing Firms of Iraq, *SCMS Journal of Indian Management*, XVIII(3): 28-38.
- Maji, S.G. and Goswami, M. (2022). The association between human capital efficiency and credit risk of Indian banks: a change point analysis. *International Journal of Learning and Intellectual Capital*, 19(3), 194-216.
- Maji, S.G. and Kalita, N. (2022). Climate Change Financial Disclosure and Firm Performance: Empirical Evidence from Indian Energy Sector based on TCFD Recommendations, *Society and Business Review* (Online), https://doi.org/10.1108/SBR-10-2021-0208.
- Saha, R. and Maji, S.G. (2022). Board human capital diversity and firm performance: evidence from top listed Indian firms, *Journal of Indian Business Research* (online), https://doi.org/ 10.1108/JIBR-08-2021-0289.
- Kumar, M., Vij, M. and Goswami, R. (2021). Effect of Real Earnings Management on Firm Performance: Evidence from India. *Vision: The Journal of Business Perspective*. https://doi.org/10.1177%2F09722629211007577.
- Kumar, M. and Goswami, R. (2021). Managerial Ability and Real Earnings Management Among Indian Listed Firms. *Vision: The Journal of Business Perspective* https://doi.org/10.1177%2F09722629211046065
- Tiwari, R.K. & Debnath, J. (2022). Forensic Accounting and Non-Audit Services: Indian Context. *Finance India*, 36 (1), 281-295.
- Tiwari, R.K. & Debnath, J. (2021). Joint Provision of Non-audit Services to Audit Clients: Empirical Evidences from India. *VIKALPA The Journal for Decision Makers*, 46(3). https://doi.org/10.1177/02560909211041796

Publication of Book Chapters

• Maji, S.G. & Saha, S. (2022). Impact of climate related financial disclosure on firm performance: empirical evidence from Indian industrial construction firms. In Swar, B.N., and Singhal, N., Editors, *Rethinking Business Agility During Uncertainty*, pages 92-106, Routledge, Taylor and Francis Group, NY, ISBN:978-1-032-33382-3.

- Maji, S.G. & Sur, O. (2022). Board gender diversity and bank performance: Evidence from listed Indian banks, In Swar, B.N., and Singhal, N., Editors, *Rethinking Business Agility During Uncertainty*, pages 166-177, Routledge, Taylor and Francis Group, NY, ISBN:978-1-032-33382-3.
- Ghose, B. (2021). Has North-East India done enough on poverty, hunger and health? Perspective from sustainable development goals. In Das, B. K., Lalropuii., Lalromawia, K., and Singh, P. K., editors, *Local Governance and Management in North East India*, Volume 1(1), pages 1-18. ISBN: 978-93-90692-15-6. Mittal Publications, New Delhi.
- Hussain, F. (2021). Is spice cultivation the answer for income generation of Tribal Women? Findings from Kamrup rural district of Assam. In Bujarbaruah, K., and Devi, I. P., editors, *Research in Social Science and Humanities in the Indian Perspective*, Volume 1(1), pages 1-12. ISBN: 978-93-82267-82-9. Worldview Publications, Delhi.
- Bharadwaz, D. J (2022). Covid-19 Outbreak and Its Affect on the Stock Market. In Kakati, R. P., and Mahanta, M., editors, *Business Practices in the Age of Innovation, Disruption and Sustainability*, Volume 1(1), pages 138-149. ISBN: 978-93-91355-55-5. Excel India Publications, New Delhi.

Name of	Purpose of Attending	Title of Event	Date/Period	Organizer and Venue
Faculty/Staff				
Member				
Manish Kumar	Paper Presentation	International Conference on Emerging Trends in Accounting and Finance (ICETAF) 2021	11-11-2021 to 12-11- 2021	Department of Commerce, Tezpur University (Online)
Biswajit Ghose	Who pays dividend? An empirical investigation of listed Indian firms	National E-Conference on 'Advances in Business, Management and Technology'	25-06-2021 to 26-06- 2021	Department of Management Sciences, Mahatma Gandhi Central University, Bihar
Biswajit Ghose	Paper presentation (Impact of firm characteristics on propensity to pay dividend as proposed: Empirical evidence from India)	International Conference on Emerging Trends in Accounting and Finance (ICETAF) 2021	11-11-2021 to 12-11- 2021	Department of Commerce, Tezpur University (Online)
Reshma K. Tiwari	Paper presentation (Forensic Accounting Education and Regulation: Status quo in the global context)	International Conference on Sustainable Finance, Economics & Accounting in the Pre- and Post- Pandemic Era	30-07-2021 to 31-07- 2021	Indian Institute of Management (IIM) Jammu (Online)
Reshma K. Tiwari	Paper presentation (Statistics and	One day National Seminar on Business	03-09-2021	Department of Business

Conference/Workshop/Symposium/Seminar etc. Attended

	Forensic Accounting: A systematic review of literature)	Practices in the age of Disruption, Innovation and Sustainability, 2021		Administration, Gauhati University (Online)
Reshma K. Tiwari	Paper presentation (The DHFL fiasco: A case study)	One day National Seminar on Business Practices in the age of Disruption, Innovation and Sustainability, 2021	03-09-2021	Department of Business Administration, Gauhati University (Online)
Reshma K. Tiwari	Paper Presentation (Forensic Accounting and Fraud Investigation: A Case of a Government Company)	International Conference on Emerging Trends in Accounting and Finance (ICETAF) 2021	11-11-2021 to 12-11- 2021	Department of Commerce, Tezpur University (Online)
Reshma K. Tiwari	Paper Presentation (Forensic Accounting Services: Education and Regulation)	2nd International Conference on Changing Business Paradigm, (ICCBP- 2022) (Theme- Rethinking Business Agility during Uncertainty)	21-01-2022 to 23-01- 2022	Management Development Institute -Murshidabad (Online)
Farah Hussain	Paper Presentation	International Conference on Emerging Trends in Accounting and Finance (ICETAF) 2021	11-11-2021 to 12-11- 2021	Department of Commerce, Tezpur University (Online)
Dhritabrata Jyoti Bharadwaz	Paper Presentation	One day National Seminar on Business Practices in the age of Disruption, Innovation and Sustainability, 2021	03-09-2021	Department of Business Administration, Gauhati University (Online)
Santi Gopal Maji	Paper presentation (Corporate Climate Change Disclosure And Firm Performance: Testing The Apocryphal Relation)	International Conference on Innovative Research Practices in Social Science -2021 (IRPSS 2021)	10-12-2021 to 10-12- 2021	IEM Kolkata
Santi Gopal Maji Santi Gopal	Paper presentation (Impact of Climate Related Financial Disclosure on Firm Performance: Empirical Evidence from Indian Industrial Construction Firms) Paper presentation	2nd International Conference on Changing Business Paradigm, (ICCBP- 2022) 2nd International	22-01-2022 to 23-01-2022 22-01-2022	MDI Murshidabad MDI Murshidabad

Maji Santi Gopal	(Board gender diversity and bank performance: Evidence from listed Indian banks) Paper presentation	Conference on Changing Business Paradigm, (ICCBP- 2022) 6th Interdisciplinary	to 23-01-2022 16-12-2021	Faculty
Maji	 (The Impact of Intellectual Capital Disclosure on Firm Performance: A Comparative Evaluation Between Indian Knowledge Based and Traditional Manufacturing Firm) 	Conference of Management Researchers (6th ICMR)	to 17-12-2021	of Management Studies, Sabaragamuwa University of Sri Lanka in association with Emerald
Santi Gopal Maji	Participation	Online Workshop on Writing Impactful Research	08-07-2021	Sabaragamuwa University of Sri Lanka in association with Emerald Publishing and Gulf Medical University
Santi Gopal Maji	Participation	Online Workshop on How to improve article acceptance rate and publish Quicker: A publisher and author's Perspective	29-07-2021	Sabaragamuwa University of Sri Lanka in association with Emerald Publishing and Gulf Medical University
Santi Gopal Maji	Participation	Online Workshop on How to identify fake/predatory/cloned journals in academics	05-08-2021	Sabaragamuwa University of Sri Lanka in association with Emerald Publishing and Gulf Medical University
Santi Gopal Maji	Participation	Online Workshop on Elsevier Tools Facilitating Research Writing	15-07-2021	Sabaragamuwa University of Sri Lanka in association with Emerald Publishing and Gulf Medical University

Invited Talk

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue
Santi Gopal Maji	Intellectual Capital	Refresher Course on Commerce and Entrepreneurship	30-10-2021	UGC-HRDC, North- Eastern Hill University
Santi Gopal	Use of SPSS in Classical		11-12-2021	UGC-HRDC, North-

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MajiLinear regressionSPPSSEastern I	Hill University
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Name of Awardee	Designation of Awardee	Achievement	Event/Awarded by
Manish Kumar	Faculty Member	Best Paper Award	International Conference on Emerging Trends in Accounting and Finance (ICETAF) 2021; held ONLINE during November 11-12, 2021 at the Department of Commerce, Tezpur University.
Biswajit Ghose	Faculty Member	Best Paper Award	International Conference on Emerging Trends in Accounting and Finance (ICETAF) 2021; held ONLINE during November 11-12, 2021 at the Deparment of Commerce, Tezpur University.
Reshma K. Tiwari	Faculty Member	Best Paper Award	2nd International Conference on Changing Business Paradigm, (ICCBP-2022) (Theme- Rethinking Business Agility during Uncertainty) held ONLINE during 21-01-2022 to 23-01-2022 at the Management Development Institute -Murshidabad
Santi Gopal Maji	Faculty Member	Most downloaded papers over the last five year in the journal "Asian Review of Accounting" (Emerald)	Emerald publishing in 2022

Awards/Honours/Notable Achievements

Other Significant Activities of the Department/Centre

- International Conference on Emerging Trends in Accounting and Finance (ICETAF), 11th & 12th November 2021
- Online Five Days Faculty Development Programme (FDP) on Strategic Management in New Economic Environment Organized by Department of Commerce, Tezpur University in Collaboration with AICTE Training and Learning (ATAL) Academy, (22 nd 26th September, 2021)
- Five Day Workshop on Research Methodology and Report Writing, 09-16 February, 2022
- Workshop on Forensic Accounting Education, 5th March, 2022
- Good Academic Research Practices, 30th November, 2021
- Ice-breaking sessions, 15th March, 2022

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
NET	01	Int. M.Com

Notable Placement of Students

Name of Student	Academic	Placement Designation	Company/	Mode of
	Programme		Organization	Selection
Garima Sonowal	Int. M.Com	Assistant Assounts Officer	ADDCL Sives and	Off Commun
		Assistant Accounts Officer	APDCL, Sivsagar	Off-Campus
Prarthana Kashyap	Int. M.Com	Junior Associate	SBI, Nagaon	Off-Campus
Koushik Chetia	Int. M.Com	Officer in Junior Management	Federal Bank	On-Campus
Rajdeep Nath	M.Com	Officer in Junior Management	Federal Bank	On-Campus
	Int. M.Com	Application Development		On-Campus
Arnab Nandi		Associate	Accenture	
	M.Com	Application Development		On-Campus
Shatarupa Konwar		Associate	Accenture	
Olivia Sur	M.Com	Financial Analyst	TCS	On-Campus
	Int. M.Com	Client Services Department	TCS & HDFC	On-Campus
Himashree Mazumdar			AMC	
Nikhita Chauhan	Int. M.Com	Trainee BPS	TCS	On-Campus
Debaleena Goswami	Int. M.Com	Research Assistant	IIM Udaipur	Off-Campus

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic	Name of other Institute	Enrolled Academic
	Programme (in TU)		Programme
Arbita Chakrabarty	Int. M.Com	IIM Udaipur	Ph. D in Management
			(Finance and Accounting)
Bitopan Das	Int. M.Com	IIM Bangalore	MBA
Gilbartson Sonowal	Int. M.Com	IIM, Sirmaur	MBA
Bhawana Kropi	Int. M.Com	IIM, Sirmaur	MBA
Bhavna Kashyap	Int. M.Com	Dept. of Business	MBA
		Administration, Tezpur	
		University	

CENTRE FOR DISASTER MANAGEMENT

About the Centre

The Centre for Disaster Management was established in 1997 under the Central Sector Scheme of the NDM Division, Ministry of Agriculture and Cooperation, Government of India. The scheme has subsequently been transferred to the Ministry of Home Affairs, Government of India in 2002. At present, the Centre is functioning under Tezpur University. The Centre conducts the following programmes:

- Two open elective courses on disaster management for UG and PG programmes.
- One skill enhancement course on Disaster Management for Integrated M. Sc. programmes.
- Diploma in Environment and Disaster Management under CDOE, Tezpur University, in association with the Department of Environmental Science.
- Extension activities and awareness programmes.

Thrust Research Areas of the Department/Centre:

Disaster Risk Assessment and Risk Reduction Planning

Major Facilities/Equipment available

- One Classroom
- One Faculty room

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
Assistant Professor	Dipak Nath	Ph.D. (Gauhati University)	Nuclear Physics & Cosmic Radiation / Disaster Risk Assessment	dipak	01-07-2010

Conference/Workshop/Symposium/Seminar etc. Attended

Name of Faculty/Staff Member	Purpose of Attending	Title of Event	Date/ Period	Organizer and Venue
	Participation	7 th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics	12-07-2021 to 15-07-2021	IISc., Bangaluru and IIT, Roorkee (Online)
Dipak Nath	Participation	Training on Rapid Capacity enhancement for risk reduction during active COVID-19 Response	19-01-2022 to 21-01-2022	NIDM, New Delhi (Online)
	Participation	Consultation meeting: Multi Hazard disaster Risk and Resilience.	24.01.2022	NIDM, New Delhi (Online)

Invited Talk

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue
Dingle Math	Disaster Risk Reduction: Concept and Holistic Approaches	Workshop on Community Based Disaster Risk Reduction Approaches for Local Resilience	20-05-2021	Assam University, Silchar, Assam (Online)
Dipak Nath	Disaster Management: Concept and Approaches	International Webinar on Environmental Issues: Risk, Management and Sustainable Development	29-01-2022	Bijni College, Assam (Online)

INTELLECTUAL PROPERTY RIGHTS CELL

About the Cell

The Intellectual Property Rights Cell (TUIPR Cell) at Tezpur University was established in 2009 with a vision to develop human resource in the management of Intellectual Property Rights. The cell is an integral part of the innovation process and the innovation value chain in the University. Several patent, copyright, and industrial design applications have been filed based on the innovations done at Tezpur University. The Cell has been involved in several IPR awareness and implementation programs on the University Campus and also across the North-East region. The Cell is gradually building IPR consciousness in the region, not only within the institutions but also among different strata of society.

Academic Programmes and Student Intake

Open Elective Courses	Student Intake
IP750: Intellectual Property Rights in Research and Beyond	15
IP250: Fundamentals of Intellectual Property Rights	30

Thrust Research Areas of the Department/Centre

• Geographical Indication

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
DPIIT-IPR	Pritam Deb	Ph.D (Jadavpur)	Patent, PCT, GI and	pdeb	01-12-2020
Chair			Trade Secret		
Professor					

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the
			current position
Research Assistant	Dr. Juri Borbora Saikia	juriipr	01-12-2020
	Dr. Koushik Saikia	koushik	11-01-2021
Office Assistant	Saurav Deka	office-ipr	29-04-2021

Publication of Patents

Inventor(s)	Patent Title	Application/ Patent Number		Country
Ayan Bhattacharjee, Devesh Kumar and Laxmikant S. Badwaik	Development of low fat baked snacks using de- oiled soya flour	202031039202	Published	India
Arup Jyoti Choudhury, Gazi Ameen Ahmed, Namita Ojah	Polymer/antibiotic coated Muga (antheraeaassamensis) silk suture	201931020788	Published	India
Chiranjeev Bezbaruah, Parag Nath and Robin Kumar Dutta	Removal of arsenic from ground water by capsule technique.	202031002271	Published	India
Tarun Kumar Sharma, Anjali Anand, Robin Doley	Aptamers against phospholipase A2 in snake Venom and uses thereof	201911027455	Published	India

Poonam Mishra and Kumudhini	An improved iron fortification	202031000071	Published	India
Akasapu	technique for fortification			
	of rice using cold plasma			
Nayan M. Kakoty, Lakhyajit	An EMG based Prosthetic Hand	201931049269	Published	India
Gohain	Controller for Real Time			
	Grasping realizing			
	Neuromuscular Constraint			
Pritam Deb and Kasmiri Deka	Nanocatalyst for bio oil	365565	Granted	India
	production			
Brijesh Srivastava, Baby Z.	A process for manufacture of	366731	Granted	India
Hmar and Dipsikha Kalita	turmeric powder from raw			
	turmeric rhizomes			
Pritam Deb, Kakoli	Mesoporous secondary	370787	Granted	India
Bhattacharya and Devaborniny	nanostructures as			
Parasar	multifunctional heavy metal			
	scavenger			

Invited Talk

Name of	Title of the Talk	Title of the Event	Date	Organizer and Venue
Faculty Member				
P. Deb	Intellectual Property as a strategic tool for regional development	IPR Awareness programme	18-06-2021	Department of Political Science & IQAC Dhakuakhana College, Dhakuakhana
	Intellectual Property Rights In the context of sustainable development	State Level Webinar on Intellectual Property Right in the context of sustainable development	05-07- 2021	IQAC, Mangaldai College, Mangaldai
	Need of Intellectual Property Rights for Sustainable Development	IPR Awareness programme	03-08- 2021	IQAC LOKD College, Dhekiajuli
	Innovation Ambience in Academic Institutions	Workshop on Innovation Ecosystem in Academic Institution	09-03-2022	Technology Enabling Center, Tezpur University at Pub Kamrup College, Guwahati
	Importance of Intellectual Property Management for Academic Institutions	IPR Awareness programme	21-09-2021	Internal Quality Assurance Cell (IQAC) of Khagarijan College, Nagaon
	Innovation, Adoption and Diffusion through IPRs	Entrepreneurship Development Programme For Young Innovators	28-02- 2022	IQAC, Nowgong College (Autonomous), Nagaon & Kolongpar Branch of Assam Science Society "XAKU"- An initiative from Campus to Community (NGO), Nagaon
	IPR & Institution Industry Interaction	One Week Faculty Development	21-03-2022 to 25-03-	NIT, Silchar

		Programme on	2022	
		Intellectual Property		
		Rights for Sustainable		
		Development (IPRSD-		
		2022)		
	Understanding IPR and	Capacity building for	25-03-2022	Assam Police Training
	its Implication in Our	Enforcement and		College at Dergaon
	Daily Lives	Adjudication of IPR		
Juri B.	Geographical Indication	Intellectual property	05-07-2021	Dept. of Commerce and
Saikia	and its implication in	rights in contemporary		Dept. of Economics,
	communities	world		C.K.B. College, Teok
	Technology	Innovation ecosystem in	26-03-2022	Biswanath College,
	Commercialization in	academic institutes		Biswanath Chariali
	the present-day			
	context/IP Right and			
	Technology Transfer			

Awards/Honours/Notable Achievements

Name of Awardee	Designation of Awardee	Achievement	Event/Awarded by
Pritam Deb	DPIIT IPR Chair Professor	Visitor's Award	President of India

Other Significant Activities of the Centre

Webinars

- 1. World IP Day on 26thApril, 2021.
- 2. National Webinar on Intellectual Property as a Strategic Tool for Regional Development at Dhakuakhana College on 18th June, 2021.
- 3. State Level Webinar on Intellectual Property Right in the context of sustainable development at Mangaldai College on 5th July, 2021.
- 4. National Webinar on Intellectual Property Rights in Contemporary World at C.K.B. College, Teok on 5th July, 2021.
- 5. National Level Webinar on Need of Intellectual Property Rights for sustainable development at LOKD College, Dhekiajuli on 2nd August, 2021.
- 6. National Level Webinar on Importance of IP Management for Academic Institution at Khagarijan College, Nagaon on 21st September, 2021.

Extension/Outreach Activities

- 1. Celebration of Azadi ka Amrit Mahotsav, DPIIT IPR Chair at Tezpur University organized an Entrepreneurship development Programme for Young Innovators on 28th February 2022 at Nagaon College (Autonomous) in association with Institution's Innovation Cell of Nagaon College.
- 2. DPIIT IPR Chair at Tezpur University has taken out a capacity building campaign at Assam Police Training College at Dergaon by organising a national level daylong workshop entitled "Capacity building for Enforcement and Adjudication of IPR" on 25th March, 2022.

Workshops

 A Brain storming session on "Prospects of protecting indigenous Ginger varieties of Assam using tools of IPR" was organized on 11th March 2022 at Tezpur University under the aegis of DPIIT-IPR Chair

- 2. A One Day Online Workshop on Intellectual Property Rights: Awareness and Celebration of Innovation was organized on 12th January, 2022 in association with the Cell for IPR Promotion and Management (CIPAM), New Delhi and the Department of Physics Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Eraligool, Karimganj, Assam.
- 3. One Day National Workshop Intellectual Property Rights & Technology Transfer and Their Role in Promotion of Innovations was organized on 4th March, 2022 in association with an Innovation Facilitation Centre, NRDC, New Delhi and School of Basic Sciences, The Assam Kaziranga University, Jorhat.
- An IPR Awareness Programme was organized on 21st March, 2022 under the National Intellectual Property Awareness Mission (NIPAM) in association with Indian Patent Office, Kolkata.

Internships/Training programs conducted by the IPR Chair

1. A Certificate course on prior art search and patent specification drafting was organized during 21st March to 25th March, 2022 in association with the DPIIT IPR Chair at Gujarat National Law University (GNLU), Gujarat.

Research Activities undertaken the University in regard to IPR

- 1. Post-GI work on Assam Muga
- 2. Pre-GI work on Indigenous ginger from North East

Other activities

1. A Memorandum of Understanding (MoU) has been countersigned in the month of February, 2022 between Tezpur University and Gujarat National Law University (GNLU)

REPORT OF THE DEAN, SCHOOL OF SCIENCES

About the School

The School of Sciences comprises of five academic departments:

- Chemical Sciences
- Environmental Science
- Mathematical Sciences
- Molecular Biology and Biotechnology
- Physics.

All the departments under the School of Sciences are DST-FIST and UGC-SAP supported. The departments under the School altogether offer a total of 12 academic programmes in the regular mode, apart from the PhD programmes. Each department offers discipline-specific UG, PG and Ph-D programmes. The departments of Chemical Sciences, Mathematical Sciences, Molecular Biology and Biotechnology and Physics offer 5-Yr Integrated M. Sc. programmes with an intake of 25 students each. The 4-Yr Integrated B. Sc. B. Ed. Programme, is offered by Chemical Sciences, Mathematical Sciences and Physics departments with support from the Department of Education under the School of Humanities and Social Sciences. The total yearly intake of students in all 12 non-Ph. D. programmes of the school stand around 325. Around 330 PhD students were on the roll under the School of Sciences during 2021-2022.

There are 77 faculty members, including 33 Professors, 8 Associate Professors and 36 Assistant Professors working in the five departments of the School. In addition, Prof. M. Lakshmi Kantam, Distinguished Professor at ICT, Mumbai, is an Adjunct Professor in the Department of Chemical Sciences. There is also one DST-INSPIRE faculty in the Department of Physics.

The faculty members of the School published around 300 research papers in high-quality peer-reviewed international and national journals and a few books during 2021-2022.

The faculty members of the School have externally research projects from agencies such as DST, DBT, Deity, DRDO, BRNS, SERB, CSIR and UGC. 84 research projects were being conducted during 2021-2022. The departments have active research collaboration with several reputed national and international institutes and organizations. In July 2021, Prof Pritam Deb of the Department of Physics was selected for the prestigious Visitor's Award for Technology Development, 2020.

Alumni of the school are well placed in various academic institutions and industries, mainly in India, which has continued in 2021-2022 as well. Many have joined higher studies in reputed institutes in India and abroad. The number of students that have qualified for NET, GATE and SLET, from the School of Sciences, remains high. Each department regularly organizes conferences/workshops and outreach programmes.

Department/Centre	Academic Programmes Offered	Student Intake
Chemical Sciences	M.Sc. in Chemistry	25
	Integrated M.Sc. in Chemistry	25
	Integrated B.Sc. B. Ed. (Chemistry major)	13
	Ph.D.	Variable

Departments/Centres and Academic Programmes Offered

Environmental Science	M.Sc. in Environmental Science	38
	Ph.D.	
Mathematical Sciences	M.Sc. in Mathematics	53
	Integrated M.Sc. in Mathematics	25
	Integrated B.Sc. B. Ed. (Mathematics major)	13
	Ph.D.	Variable
Molecular Biology and	M.Sc. in Molecular Biology and Biotechnology	38
Biotechnology	Integrated M.Sc. in Life Sciences	15
	Ph.D.	Variable
Physics	M.Sc. in Physics	38
	Integrated M.Sc. in Physics	25
	Integrated B.Sc. B. Ed. (Physics major)	13
	Ph.D.	Variable

Important Activities

- The Department of MBBT is celebrating the Silver Jubilee on entering into 25th year of its establishment in 1997. The Silver Jubilee is being celebrated through a year-long programme starting on 24th July, 2021. Several workshops, distinguished lecture series and National Seminars have been organized so far.
- InSCIgnis 2022, the ninth edition of the annual science festival organized by the Students' Science Council under the aegis of the School of Sciences was held during 27th February to 1st March coinciding with the National Science Day. The theme for InSCIgnis 2022 was *Science Beyond Myths* and the event was participated by several luminaries and resource persons as well as a large number of student participants. All the five academic departments organized National Science magazine of the Students' Science Council was also released at the same time.

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the current position
Dean	Prof. Debajit Hazarika	debajit	01-12-2020
MTS(P/T)	Mohendra Das	mohen31	09-09-2019

Officers and Staff Members

DEPARTMENT OF CHEMICAL SCIENCES

About the Department

The Department of Chemical Sciences was established in the year 1997, with the prime objective of creating human resources in different areas of Chemical Sciences. Initially the Department offered an M.Sc. program in Polymer Science, which was converted to M.Sc. in Applied Chemistry from 2006 to 2009. In 2009, the department started the five-year Integrated M.Sc. in Chemistry program, and in 2010 the department again started M.Sc. in Chemical Sciences, later renamed as M.Sc. in Chemistry. In 2011 autumn session, the Department started M. Tech. in Polymer Science and Technology and Integrated B.Sc. B.Ed. in Chemistry. The Department has also been running a Ph.D. program covering several important areas of research in Chemical Sciences, including interdisciplinary areas.

Academic Programmes and Student Intake

Academic Programme	Student Intake
Integrated M.Sc in Chemistry (CI)	25
Integrated B.Sc.B.Ed in Chemistry (CD)	13
M.Sc. in Chemistry (CH)	30
Ph.D. in Chemistry (PH)	Variable

Thrust Research Areas of the Department

- Materials for Energy & Environment
- Catalysis and Organometallic Chemistry
- Medicinal and Pharmaceutical Research
- Polymer Chemistry
- Computational Chemistry

Major Facilities/Equipment available

- 400 MHz NMR spectrophotometer, Jeol
- Thermal Analyzer, Shimadzu, (FIST Funded)
- CHN Analyzer, Perkin Elmer (FIST Funded)
- FTIR spectrophotometer, PerkinElmer
- Chemisorption Analyzer, (FIST Funded)
- Micro Extruder, thermo Fisher ((FIST Funded)
- Automated Compression Press, S5 Type, Santac
- Polarizing Microscope, Olympus,
- UV-Visible Spectrophotometer, Shimadzu,
- Universal Testing Machine, 10 KN Zwick
- Rheometer, Bohlin Instruments
- High performance computational facilities
- Digital Polarimeter
- Millipore Water Purification System
- Tabletop Magnetometer
- Single Screw Laboratory Extruder
- Cyclic Voltameter
- Cyclic Voltameter with Rotating Disk Electrode

- Atomic Absorption Spectroscopy
- Research Lab:15 Teaching Lab:9
- Computation Facilities: Teaching Lab : 01 & Research Lab : 02

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
	Swapan Kumar Dolui	Ph.D. (IIT KGP)	Polymer Chemistry	dolui	16-12-1997
	Nashreen S. Islam	Ph.D. (NEHU,Shilong)	Inorganic Chemistry	nsi	12/06/2004
	Robin Kumar Dutta	Ph.D. (NEHU,Shilong)	Physical Chemistry	robind	01/01/2009
	Tarun K. Maji	Ph.D. (Calcutta University)	Polymer Science and Technology	tkm	01/12/2005
Professor	Niranjan Karak	Ph.D. (IIT- Kharagpur)	Polymer Science and Nanotechnology	nkarak	30/03/2009
	Ramesh Ch. Deka	Ph.D (NCL Pune)	Computational and Theoretical Chemistry	ramesh	28/07/2010
	Ashim J. Thakur	Ph.D. (CSIR-NEIST, Jorhat)	Organic Chemistry	ashim	31/01/2013
	Ashwini K. Phukan	Ph.D. (Hyderabad University)	Computational Inorganic/Organ ometallic Chemistry	ashwini	10/06/2014
	Ruli Borah	Ph.D.(Gauhati University)	Organic Chemistry	ruli	19/08/2015
Associate	Panchanan Puzari	Ph.D. (IIT Guwahati)	Physical Chemistry	pancha	28/07/2018
Professor	Utpal Bora	Ph.D. (CSIR-NEIST, Jorhat)	Organic Chemistry	ubora	18/09/2019
	Kusum Kumar Bania	Ph. D. (Tezpur University)	Inorganic Chemistry	kusum	28/04/2009
	Pankaj Bharali	Ph.D. (CSIR-IICT Hyderabad)	Inorganic Chemistry	pankajb	02/08/2011
	Nayanmoni Gogoi	Ph.D. (IIT, Bombay)	Inorganic Chemistry	ngogoi	30/09/2011
Assistant	Bipul Chnadra Sarma	Ph.D. (HCU)	Organic Chemistry	bcsarma	01/06/2012
Professor	Sajal Kumar Das	Ph.D. (JNU)	Organic chemistry	sajalkd	01/02/2013
	Sanjeev Pran Mahanta	Ph.D. (HCU)	Physical Chemistry	spm	12/08/2013
	Mohini Mohan Konai	PhD (JNCASR, Bangalore)	Organic Chemistry, Medicinal Chemistry	mmkonai	25/03/2022

	Plaban Jyoti	Ph.D. (Tezpur Univ)	Computational	Plaban2	04/09/2020
	Sarma		Chemistry		
	Kaushik	Ph.D. (IIT Bombay)	Physical	kaushik	02/09/2020
Crush	Talukdar		Chemistry,		
Guest Equalty			Theoretical &		
Faculty			Computational		
			Chemistry		
	Sujan Kalita	Ph.D. (IIT Guwahati)	Organic/Bioche	sujankalita	07/10/2021
			mistry		
Adjunct	М.	Ph.D. (K.U)	Inorganic	kantam	30/04/ 2019
Faculty	Lakshmikantam		Chemistry		

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the current position
Technical Officer	Dr. Biren Gohain	bng	04/03/1999
Senior Technical Assistant	Dr. Biraj Jyoti Borah	biraj	23/09/2010
Technical Assistant	Dr. Raju Borah	raju	20/08/2007
	Dr. Nipu Dutta	nipu	08/09/2010
	Mr. Sankur Phukan	sankur	13/08/2015
Laboratory Assistant	Mr. Manuranjan Sarma	mranjan	02/08/2011
	Mr. Biplob Ozah	bipozah	09/03/2017
UDC	Mrs. Babita Das	bobi	03/07/2009
MTS	Mr. Khogen Ch. Das	khogen	01/12/1994

Major Research and Development Findings

Faculty/	Salient Research Findings		
Researcher			
Swapan	Improved hydrogen evolution reaction efficiency has been achieved from carbon-based		
Kumar Dolui	material using metal oxide as auxiliary factor. The catalyst exhibited onset potential of		
	~ 0.115 V which is closer to that of Pt (0V).		
Robin	A technology has been developed for value-added cattle urine for using an organic liquid		
Kumar Dutta	fertilizer. A patent filing is in the process.		
Tarun K.	Green chicken feather fiber based nanocomposites were prepared using modified soybean		
Maji	oil, methacrylic acid, methacrylic anhydride and a synthesized crosslinker derived from		
	naturally occurring rosin. The prepared composites exhibited an overall improvement in		
	properties compared to those of styrene based composites. Layered double hydroxide was		
	organically modified with CTAB and used as a nanomaterial to prepare nanocomposite		
	with PVC and rice husk ash. The nanocomposite was then analyzed with various testing		
	methods. Polymeric nanoparticles for controlled delivery applications were prepared as		
	anti-diabatic drug. The prepared drug encapsulated nanoparticles were evaluated and		
	<i>invitro</i> study is in progress. Bio-degradable composites were prepared by using coconut		
	fiber and modified soybean oil. The work is in progress.		
Niranjan	Development of high-performing biodegradable smart sustainable polymer		
Karak	nanocomposites using renewable resources-based raw materials and various		
	nanomaterials for multifaceted advanced applications including shape memory, self-		
	healing, self-cleaning, tough adhesive, heterogeneous selective photo-catalyst, anti-		
	counterfeiting, etc. materials, Synthesis of hyperbranched polymers from bio-based		
	renewable resources, and Green and facile approaches for production of nanomaterials		
	and nanohybrids.		
	Development of metal incorporated ionic liquid-based system containing specific nature		
Ruli Borah	like low band gap values, as oxidant and paramagnetic materials. Effect of task-specific		

	ionic liquids on the surfactant properties of anionic/cationic surfactant in aqueous solution.
A. K. Phukan	Studied the potential of hitherto unexplored base-stabilized borylenes in dinitrogen binding. Performed an in-depth computational study to understand the transannular $M \rightarrow Z$ interactions and studied how one can modulate and leverage such interactions. As part of a combined work, comprehensive computational mechanistic studies were carried out to understand the mechanism of cross-metathesis between diborenes and acetylenes.
A.J. Thakur	Encapsulation of iron oxide (Fe ₃ O ₄)-based nanoparticles (NPs) with Au NPs holds a promising scope for catalysis, which overcomes the hindrance of the inherent hydrophilic surface of iron species and facilitates the easy separation of colloidal Au NPs. As such, iron oxide-based NPs were encapsulated by Au NPs to form core–shell structures (Fe ₂ O ₄ /Au NPs) followed by further immobilization on <i>in situ</i> synthesized reduced graphene oxide (rGO) to yield Fe ₃ O ₄ /Au NPs–rGO for increased stability. Fe ₃ O ₄ /Au NPs–rGO was evaluated for the oxidation of NH-free indoles to synthesize isatins, potential precursors of SARS-CoV-2 protease inhibitors. Furthermore, the application of isatin was explored with the Fe ₃ O ₄ /Au NPs–rGO catalysed synthesis of uracil-based spirooxindoles (potential precursors of anti-cancer compounds) <i>via</i> mild reaction conditions and short reaction times with high yields. Encapsulation of iron oxide (Fe ₃ O ₄)- based nanoparticles (NPs) with Au NPs holds a promising scope for catalysis, which overcomes the hindrance of the inherent hydrophilic surface of iron species and facilitates the easy separation of colloidal Au NPs. As such, iron oxide-based NPs were encapsulated by Au NPs to form core–shell structures (Fe ₃ O ₄ /Au NPs) followed by further immobilization on <i>in situ</i> synthesized reduced graphene oxide (rGO) to yield Fe ₃ O ₄ /Au NPs–rGO for increased stability. Fe ₃ O ₄ /Au NPs–rGO was evaluated for the oxidation of NH-free indoles to synthesize isatins, potential precursors of SARS-CoV-2 protease inhibitors. Furthermore, the application of isatin was explored with the Fe ₃ O ₄ /Au NPs–rGO catalysed synthesis of uracil-based spirooxindoles (potential precursors of anti- cancer compounds) <i>via</i> mild reaction conditions and short reaction times with high yields. Au nanoparticles (NPs) of controlled morphology have been synthesized through an eco- friendly biogenic method utilizing the aqueous fruit extract of <i>Garcinia cowa</i> at room temperature. The bio extract executes dual
Panchanan Puzari	An electrochemical material for simultaneous detection of ascorbic acid, dopamine and uric acid in human blood and urine has been developed. A MOF-POF-MWCNT composite material for electrochemical detection of the three pesticides DNOC, thiabenzdazole and carbendazim has been developed. Eggshell nano CaCO ₃ –Polyaniline composite based molecularly imprinted sensor for uric acid determination in human blood has been developed. Studies on the complex formation reaction between creatinine and transition metals (Cu, Ag, and Co) is being carried on for development of electrochemical sensor for creatinine.
Kusum Kumar Bania	Developed new methodologies for the synthesis of C-2 trimer product of indole using

	with the previous one are the catalyst is cheaper, less toxic and provides a scope for wide
	range of substrates.
Pankaj	Design and development of Pd-based and CeO ₂ -based non-Pt electrocatalysts and their
Bharali	exploration toward oxygen reduction reaction, oxygen evolution reaction and formic acid
	oxidation reactions. The electrocatalysts exhibit excellent activity toward the above-
	mentioned fuel cell reactions in alkaline and acidic electrolytes.
Nayanmoni	Reversible pH responsive electron transfer coupled spin transition systems which switch
Gogoi	between paramagnetic and diamagnetic state upon acid/base addition are developed.
	Water processable and chiral cyanido bridged magnetic materials which show
	spontaneous magnetization and ferroelectric hysteresis loop are developed. By employing
	phosphonate functionalized Pd(II) N-heterocyclic carbene complex (NHC) as precursor
	ligand, we have developed a Zr-phosphonate framework with dangling Pd(II)-NHC sites
	which acts as a catalyst in C-C bond formation reactions.
Bipul	Control crystallization of drug compounds on 2-dimensional SAM surface and discovered
Chandra	a new polymorph of drug Sulfathiazole. Improvement of the efficacy of a few drugs with
Sarma	a novel multi-component formulation approach. Successfully controlled the nucleation of
	concomitant polymorphs of drug candidates by functional mimicking organogels
Sanjeev Pran	Developed a low cost metal mediated strategy for detection of fluoride ion in aqueous
Mahanta	medium.
Mohini	Development of antimicrobial compounds to combat infections
Mohan	
Konai	

Research Projects (both Ongoing and New)

Project Title	Funding	Amount	Duration	Investigator(s)
	Agency	(in INR)		D 0 1 U
Self-healing and self-cleaning epoxy	DRDO	28,85,000/-	2021-2024	Prof. Niranjan
thermosetting nanocomposites			(3 Year)	Karak
Design of Zeolite-Y Supported	CSIR	25,00,000/-	2020-2023	Dr. Kusum K.
Heterogeneous Catalyst for C-C Bond			(3 Year)	Bania
Coupling Reaction				
Design of Ship In A Bottle Complexes and	DST-SERB	31,49,025/-	2020-2023	Dr. Kusum K.
Zeolite-Y Supported Nanocatalysts For C-Cl			(3 Year)	Bania
Bond Activation and C-C Coupling				
Reactions.				
Synthesis of Small Molecular Lipopeptide	Tezpur	2,00,000/-	2022-2023	Dr. Mohini
Mimics as Novel Antibacterial Agents	University		(1 Year)	Mohan Konai
Computational Investigations Towards	DST-SERB	40,96,000/-	2020-2022	Prof. A. K.
Designing of Main Group and Transition			(2 Year)	Phukan
Metal based Systems for Dinitrogen			· · · ·	
Activation				
Directed functionalization of oxide and	DST-RFBR	21,84,400/-	2019-2021	Dr. Pankaj
carbon nanomaterials for the development of	(Indo-Russia)		(2 Year)	Bharali, TU,
efficient catalysts for carbon dioxide			· · · ·	India and Dr.
conversion into value-added products				M.A.
1 I				Kerzhentsev,
				BIC, Russia
Green and sustainable catalysts based on	India-Bulgaria	11,82,350/-	2019-2021	Dr. Utpal Bora
zeolites for oxidative transformation	Bilateral		(2 Year)	and Dr. Pankaj
reactions	Scientific and		. ,	Bharali, TU,
	Technological			India
	Cooperation			And Dr.
	r			Dr.Yuri

				Kalvachev, Institute of Catalysis, Bulgarian Academy of Sciences
New functionalized biomass materials grafted with polymers for the development of novel methods for fast detection of some compounds in human blood serum and urine.	DBT-TWAS	5,00,000/-	2021-2022 (1 Year)	Dr. Panchanan Puzari
Electrode modification with advanced materials for development of electrochemical transduction based non-enzymatic creatinine sensor	Tezpur University	50,000/-	2021-2022 (1 Year)	Dr. Panchanan Puzari
Crystallization of Drugs Templated by Mimetic Organogels & Functional Surfaces	SERB-India	29,30,400/-	2020-2023 (3 Year)	Dr. Bipul Chandra Sarma
Arsenic removal from drinking water using do-it-yourself Arsiron Nilogon Method	Numaligarh Refineries Ltd.	19,80,000/-	2020-2021 (1 Year)	Prof. Robin Kumar Dutta
Design and Synthesis of Hybrid Molecules for Multi-Drug-Resistant Tuberculosis	DBT-NER- BPMC	31,29,996/-	2019–2022 (3 Year)	Dr Sajal Kumar Das
Stereoselective Synthesis of Spirocyclic Indolines	SERB-DST	45,91,400/-	2018–2021 (3 Year)	Dr Sajal Kumar Das
Switchable molecular magnetic materials	SERB	38,21,000/-	2021-2024 (3 Year)	Dr. Nayanmoni Gogoi
pH responsive switchable cyanido bridged Co-Fe molecular aggregates	CSIR	24,64,000/-	2021-2024 (3 Year)	Dr. Nayanmoni Gogoi
Development of Cu(II) mediated strategy for sensing of fluoride anion in aqueous medium	CSIR	~20,00,000/-	2019-22 (3 Year)	Dr. Sanjeev Pran Mahanta
UGC-BSR Mid-Career Award	UGC	10,00,000/-	2 years	Prof. S. K. Dolui
Tuning Metal Oxide Clusters for Selective Catalytic Hydrogenation of CO ₂ to Organic Acids using Quantum Chemical Methods	Science & Engineering Research Board (SERB), CRG/2020/00 2158	29,48,060/-	2021-2024 (3 Year)	Prof. Ramesh Ch. Deka
UGC-CARE Journals	University Grant Commission, New Delhi,	25,00,000/-	2019-2024 (3 Year)	Prof. Ramesh Ch. Deka
Mechanochemical Synthesis of Pharmaceutical Solid Forms to Avoid Degradation of Moisture Sensitive Active Pharmaceutical Ingredients using combined computational and experimental crystal engineering approaches,	Engineering Research Board (SERB), New Delhi,	10, 05,000/-	2022-2025 (3 Year)	Prof. Ramesh Ch. Deka
Bioinformatics and Computational Biology Centre for Microbial Biodiversity in Assam and Arunachal Pradesh.	Department of Biotechnolog, Government of India, New	75,00,000/-	2022-2025 (3 Year)	Prof. Ramesh Ch. Deka

		Delhi			
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Publications by Faculty

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Morang, S., Biswakarma, N., Deka, R. C., and Karak, N. (2022). Citric acid/glycerol ester, a backup of 2, 2-bis (hydroxymethyl) propionic acid and biobased synthesis of anionic polyurethane dispersion. *Progress in Organic Coatings*, 168: 106880.
- Sarmah, D. and Karak, N. (2022). Physically cross-linked starch/hydrophobically-associated poly(acrylamide) self-healing mechanically strong hydrogel. *Carbohydrate Polymers*, 289: 119428.
- Sarmah, D. and Karak, N. (2022). Starch based mechanically tough hydrogel for effective removal of toxic metal ions from wastewater. *Journal of Cleaner Production*, 344: 131074.
- Kundu, S. and Karak, N. (2022). Polymeric photocatalytic membrane: An emerging solution for environmental remediation. *Chemical Engineering Journal*, 438: 135575.
- Dutta, G. and Karak, N. (2022). Bio-based waterborne polyester/cellulose nanofiber-reduced graphene oxide–zinc oxide nanocomposite: an approach towards sustainable mechanically robust anticorrosive coating. *Cellulose*, 29:1679–1703.
- Borah, N. and Karak, N. (2022). Tannic acid based bio-based epoxy thermosets: Evaluation of thermal, mechanical, and biodegradable behaviors. *Journal of Applied Polymer Science*, 139(11): 51792.
- Boruah, K., Bora, D. B., Saikia, S. and Borah, R. (2022). Study of photocatalytic properties of clay intercalated semiconductor composite material of guanidinium tetrachloroferrate for oxidative degradation of model dye in sunlight. *Journal of Material Sciences: Materials in Electronics*, 33:2461–2478.
- Gogoi, G., Chowdhury, C. and Maji, T.K. (2022). Hybrid Bio-based Composites from Waste Chicken Feather and Betel Nut Fiber: A Study on the Mechanical and Thermal Properties. *Journal of Bionic* Engineering, 19: 268–277.
- Gogoi, G., Thakur, A. J., & Maji, T. K. (2021). Effect of Natural Crosslinker on the Properties of Chicken Feather and Modified Vegetable Oil Based Green Composites. *Journal of Natural Fibers*, 1-13.
- Dutta, N., Hazarika, S., & Maji, T. K. (2021). Study on the role of tannic acid–calcium oxide adduct as a green heat stabilizer as well as reinforcing filler in the bio-based hybrid polyvinyl chloride–thermoplastic starch polymer composite. *Polymer Engineering & Science*, 61(9): 2339-2348.
- Dutta, N., & Maji, T. K. (2022). Development of waste rice husk/PVC/GO nanocomposite using TA-CaO adduct and ESO as green additives. *Journal of Thermoplastic Composite Materials*, 08927057211063398.
- Dutta, N., & Maji, T. K. (2022). Development of waste rice husk/PVC/GO nanocomposite using TA-CaO adduct and ESO as green additives. *Journal of Thermoplastic Composite Materials*, 08927057211063398.
- Dutta, N., Bhadra, B., Gogoi, G., & Maji, T. K. (2021). Development of polyvinyl chloride/waste rice husk ash/modified montmorillonite nanocomposite using epoxidized soybean oil as green additive substituting synthetic plasticizer and compatibiliser. *Cleaner Materials*, 2: 100033.
- Gogoi, G., Saikia, P., Baruah, M. J., Lee, S. Park, Y. B., Dutta, R., and Bania, K. K. (2021). Mixed valent copper oxide nanocatalyst on Zeolite-Y for mechanochemical oxidation, reduction and C–C bond formation reaction. *Microporous and Mesoporous Materials*, 326:111392.

- Baruah, M. J., Bora, T. J., Dutta, R., Roy, S., Guha, A. K. and Bania, K. K. (2021). Fe (III) superoxide radicals in halloysite nanotubes for visible-light-assisted benzyl alcohol oxidation and oxidative C-C coupling of 2-naphthol. *Molecular Catalysis*, 515:111858.
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- Baruah, M. J., Bora, T. J., Gogoi, G., Hoque, N., Gour, N. K., Bhargava, S. K., Guha, A. K., Nath, J. K., Das, B., and Bania, K. K. (2022). Chirally modified cobalt-vanadate grafted on battery waste derived layered reduced graphene oxide for enantioselective photooxidation of 2-naphthol: Asymmetric induction through non-covalent interaction. *Journal of Colloid and Interface Science*, 608:1526-1542.
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- Saikia, G., Talukdar, H., Ahmed, K., Gour, N.K., and Islam, N.S. (2021). Tantalum (v) peroxido complexes as phosphatase inhibitors: a comparative study *vis-a-vis* peroxidovanadates. *New Journal of Chemistry*, 45(29):12848-12862.
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Publication of Articles in Other Forms

• Dutta R. K. (2021) Ramrai Kuthir Prachin Bhaskarjar Duravastha, in Dainik Asom Sunday Supplement 24 Oct, Page 14.

Name of Faculty/Staff Member	Purpose of Attending		Date/ Period	Organizer and Venue (Online/Offline)
Prof. Niranjan Karak	Chairman	One-Day Consultative Workshop On Research And Developments In Heis With Stakeholders Of North-Eastern Regions To Obtain Feedback/Suggestions	18 -11- 2021	Tezpur University, India
Dr. Pankaj Bharali	Convener	National Conference On Sustainability, Medicine And Clean Energy	01-03-2022	Department of Chemical Sciences, Tezpur University (Online)
Dr. Bipul Chandra Sarma	Chairing session	International Conference On Progress And Challenges In Modern Day Science (PCMDS-2021)	17-06-2021 to 18-06- 2021	Department of Chemistry, B. Borooah College, Guwahati
Dr. Bipul Chandra Sarma	External Examiner	Research Progress And Review Committee Member Of Phd Student Of Ioc-Ict Mumbai	12-04-2021	IOC-ICT, MUMBAI (Bhubaneswar Campus)
Dr. Bipul Chandra Sarma	Resource Person cum evaluator	29 th National Children's Science Congress, 2021	06-08-2021 to 08-08- 2021	ASTEC Assam
Prof. Ramesh Ch. Deka	Chairing session	Computational Approaches for Designing Heterogeneous Catalysts and Drug Molecules, Frontiers in Computational Chemistry- 2022,	10-03-2022 to 11-03- 2022	Central University Of Kerala
Prof. Ramesh Ch. Deka	Chair person	National Conference on Molecular Modelling and Simulations (NCMMS2022).	28 -02-2021 to March 02- 03-2022.	VIT Bhopal University
Prof. Ramesh Ch. Deka	Chair person	Mechanism of CO Oxidation over Zeolite Supported Pd ₄ Catalyst Using QM/MM Method, Current Trends in Theoretical Chemistry (CTTC- 2020),	23-09-2021 to 25-09- 2021.	Bhabha Atomic Research Centre, Mumbai.

Conference/Workshop/Symposium/Seminar etc. Attended

Invited Talk

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue
Prof. Niranjan Karak	Plastics Waste Management- Waste to wealth Concept	Polymer and the probable remedial approaches for waste plastic materials, in Short Term Training Program (STTP))	21-03-2022 to 25-03- 2022	CIPET: CSTS- Guwahati

[[Polymer Matrix based	Polymer matrix based	07-03-2022	CIPET: CSTS-
	Nanostructures for Targeted	nano-structural materials	to 11-03-	Guwahati
	Drug Delivery Application	for biomedical	2022	
		applications		
	Sustainable polymer	Sustainable polymer	23-12-2021	ICNT-2021,
	nanocomposites for	nanocomposites for	to 24-12-	Haldia, India
	multifaceted advanced	multifaceted advanced	2021	
	applications	applications		
	Plastic Product Manufacturing	Sustainable Polymers and		
	& Recycling Techniques	their Nanocomposites for	19-07-2021	CIPET: CSTS-
		different advanced	to 23-07-	Guwahati,
D V	<u> </u>	Applications	2021	Assam
Dr. Kusum	Synthesis of Biologically	28 th CRSI National	27-03-2022	Organized by
K. Bania	active C2 Trimerized Indoles and Isatins using Fe(III) Catalyst	Symposium In Chemistry At Iitg		CRSI at IITG
Prof.	Macromolecular metal	National Science Day	28.02.2022	Institute of
	complexes as potent enzyme			Advanced
	inhibitors and bioinspired			Science and
	catalysts			Technology,
-				Guwahati
	Empowering women-Women	International Women's	8.03.2022	CSIR-NEIST,
	in Science	Day Celebration		Jorhat
*	X-Ray Diffractometer	Training Program On	10-03-2021	Sophisticated
Chandra		Analytical Instruments		Analytical
Sarma				Instrumentation
				Center, Tezpur University
				University
	Guiding Crystallization Events		17-06-2021	Department of
	By Functional	On Progress and		Chemistry, B.
	Monolayers/Organogels	Challenges in Modern		Borooah
		Day Science (PCMDS-		College,
		2021)		Guwahati
	Hybrid Medicines: A Solid	National Webinar On	28-07-2021	Sadia College,
	States Approach	Evolving Areas Of	to 29-07-	Assam
		Chemical Sciences In	2021	
		Shaping Our Everyday		
		Life Webings Series of	20 10 2021	Devel Cl-1
	Engineering Urbrid	Webinar Series of	30-10-2021	Royal Global
	Engineering Hybrid Medicines: A Solid States	Chemistry Department, RGU		University, Guwahati,
	medicines. A Sond States	NUU		,
	Approach			Accam
	Approach State Level Resource Persons	National Children's	04-07-2021	Assam
	State Level Resource Persons	National Children's Science Congress Assam	04-07-2021 to 16-07-	ASTEC,
-	State Level Resource Persons Training Workshop For	National Children's Science Congress, Assam	to 16-07-	ASTEC, Guwahati
-	State Level Resource Persons Training Workshop For National Children's Science			ASTEC,
	State Level Resource Persons Training Workshop For National Children's Science Congress, Assam		to 16-07-	ASTEC, Guwahati
-	State Level Resource Persons Training Workshop For National Children's Science Congress, Assam [Total 4 talks delivered in four		to 16-07-	ASTEC, Guwahati
	State Level Resource Persons Training Workshop For National Children's Science Congress, Assam [Total 4 talks delivered in four sessions]		to 16-07-	ASTEC, Guwahati Assam
Prof. Robin	State Level Resource Persons Training Workshop For National Children's Science Congress, Assam [Total 4 talks delivered in four	Science Congress, Assam	to 16-07- 2021	ASTEC, Guwahati

Tezpur University :: Annual Report 2021-22 (Deptt. of Chemical Sciences)

		agenda at the local level		Airmeet
Prof.	Usefulness of Polymer	Workshop on polymer	20/01/2022	Dhekiajuli
Swapan		synthesis and		College
Kumar		characterization		
Dolui				
Prof.	"Recent Innovation in	Workshop on	22/12/2021.	RKDF
Ramesh Ch.	Multidisciplinary Research",	Multidisciplinary		University,
Deka		Research		Ranchi.
	"UGC-CARE: Publications	UGC-CARE Workshop	18/12/2021.	B N College,
	Ethics in Research"			Dhubri.
	"Good Academic and	Lecture on "Good	15/12/2021.	Tezpur
	Research Practices"	Academic and Research		University.
		Practices''		
	"Opportunities of Doing	Popular Talk	26/11/2021.	Duliajan
	Science"			College.
	"UGC-CARE" UGC-HRDC	''UGC-CARE" UGC-	25/06/2021	Devi Ahilya
	in the Faculty Development	HRDC in the Faculty		Vishwavidyala
	Programme in Research	Development		ya, Indore.
	Methodology for Science	Programme		
	Faculty.			
	"Harmful Effects of Drinking	A Popular Talk on	10/06/2021	Gargaon
	Alcohols"	"Chemistry of Alcohol:		College.
		Weighing Risks and		
		Benefits ''		

Awards/Honours/Notable Achievements

Name of Awardee	Designation of Awardee	Achievement	Event/Awarded by
Prof. Niranjan	Faculty member	Listed among the world scientists in AD Scientific Index (Alper-Doger), (University 1, Country 383, and world 44251among more than 7 lakh scientists in 190 countries), 2022	AD Scientific Index (Alpha-Doger)
Karak	Faculty member	Appointed as Co-Chair, Expert Committee- Biotechnology carrier advancement & re- orientation programme (BioCARe)- Bioengineering and biomaterials area, 2022-2025	Department of Biotechnology, New Delhi
Prof. N.S.Islam	Faculty member	Appointed Member of Selection Committee for SERB-International Research Experience programme (SIRE) for the year 2022.	DST-SERB
Dr. Bipul Chandra Sarma	Faculty member	Editorial Board Member	Journal of Pharmaceutical Science (Elsevier)
Ms. Suranjana Patowary	Research Scholar	Commonwealth Split-site Fellowship, United Kingdom	UK Foreign Commonwealth and Development Office
Ms. Arpita Devi	Research Scholar	DST-INSPIRE Fellow for pursuing Ph.D.	DST-INSPIRE, Govt. of India

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
NET-JRF-LS	11	Ph.D./ M.Sc./ Int. M.Sc.
GATE	20	Ph.D./ M.Sc./ Int. M.Sc.

Notable Placement of Students

Name of Student	Academic	Placement	Company/ Organization	Mode of
	Programme	Designation		Selection
Dr. Pranita Bora	Ph.D. (TU)	Assistant Professor	Nalbari College, Assam	Off-campus
Dr. Rajiv Khatioda	Ph.D. (TU)	Assistant Professor	Sadia College, Assam	Off-campus
Dr. Kiran Mohan	Ph.D. (TU)	Assistant Professor	Rangapara College, Assam	Off campus
Dr. Simanta Doley	Ph.D. (TU)	Assistant Professor	Jengraimukh College, Jorhat, Assam	Off campus
Dr. Junali	Ph.D. (TU)	Lecturer (part time)	Residential girls' Polytechnic,	Off campus
Handique			Golaghat	
Dr. Jayashree Nath	Ph.D. (TU)	Associate Chemist	Sea6 Energy Pvt. Ltd.	Off campus
		R&D		
Dr. Plaban J.	Ph.D. (TU)	Assistant Professor	Gargaon College	Off-Campus
Sarma				
Dr. Saheen S.	Ph.D. (TU)	Assistant Professor	Gargaon College	Off-Campus
Begum				
Satyajit D. Boruah	Ph.D. (TU)	Assistant Professor	Lumding College	Off-Campus
Partha P. Churi	M.Sc.	Assistant Professor	DKD College, Dergaon	Off-Campus
Dibyangana Sarma	M.Sc.	Assistant System	TCS, Bengaluru	Off-Campus
		Engineer		

Enrollment of Students in other Institutes for Higher Studies

Name of Student Academic		Name of other Institute	Enrolled Academic
	Programme (in TU)		Programme
Dr. Aditi Saikia	Ph.D.	IASST, Guwahati, Assam	Post-Doc
Dr. Tuhin Ghosh	Ph.D.	LUT University, Finland	Post-Doc
Dr. Deepshikha Hazarika	Ph.D.	Trinity College, Dublin, Ireland	Post-Doc
Dr. Rituparna Duarah	Ph.D.	Kyungpook National University,	Post-Doc
		Republic of Korea	
Dr. Mitu Sharma	Ph.D.	Missisipi State University, USA	Post-Doc
Dr. Basanta Saikia	Ph.D.	Max Planck Institute,	Post-doc
		Magdeburg, Germany	
Ms. Parineeta Gogoi	M.Sc.	IISc, Bengaluru	Ph. D.

DEPARTMENT OF ENVIRONMENTAL SCIENCE

About the Department

Initially established as a Centre for Environmental Science in 2003, the Centre was converted to the Department of Environmental Science in 2004, with the objective of imparting education on regional and global environmental issues. The curriculum for the M. Sc. Programme focuses on all important aspects of Environmental Science, covering contemporary problems of natural resource conservation and environmental quality. The areas of research of the Department include, Atmospheric processes, Environmental pollution, Greenhouse gas emission, Riverine hazards, Hydrogeochemistry, Geomorphology, Vulnerability & adaption, Natural hazards, Climate change and its impacts on agroecosystem and forest ecosystem, Plant-insect interactions, Nanotechnology in environmental research, Waste management, Vermicomposting, Pollution remediation, Ecosystem dynamics, Biodiversity conservation and Atmospheric system modeling.

The Department is a recipient of a grant under UGCSAP and DST-FIST.

Academic Programmes and Student Intake

Academic Programme	Student Intake
M. Sc.	35
Ph.D.	Variable

Thrust Research Areas of the Department/Centre

- Environmental Assessment and Modelling
- Biodiversity and hydro-geomorphic studies
- Climate change dynamics, sustainable agriculture, and vulnerability assessment

Major Facilities/Equipment available

- Inductively Coupled Plasma Mass Spectrophotometer (ICP-MS)
- Carbon Hydrogen Nitrogen and Sulphur Analyzer (CHNS)
- High-performance Liquid Chromatography (HPLC)
- Ion Chromatography (IC)
- High Performance Computing Systems (HPC)

Some of the other instruments house in the laboratories of the department includes Laser Leaf Area Meter with Root Measurement Attachment, Portable Photosynthesis Systems, Gas Chromatograph, TOC Analyzer, ELISA Reader, Aquaculture facility, Continuous Air Pollution Monitoring Station, UV-Visible Spectrophotometer, Ion meter, Repairable dust sampler with gaseous sampling attachment, High Speed Refrigerated Centrifuge, Sartorius RO System, Sartorius Ultra-Pure Water Purification System, HOBO Pro V2 Tea/RH data logger, Flame Photometer, Electrophoresis gel unit and Fluorescence Microscope with Camera & Software. Department also have GIS laboratory facilitate with Arc GIS Master Lab Kit and ERDAS Software and plant culture house.

Faculty Members

Designation	Name	Highest Qualification	Specialization	<email> @tezu.ernet.in</email>	Date of holding the
		(Institute)			current

					position
	Raza Rafiqul Hoque	Ph. D. (JNU, New Delhi)	Atmospheric Chemistry, Pollution Monitoring and Assessment	rrh	24/09/2013
Professor	Apurba Kumar Das	Ph. D. (JNU, New Delhi)	Geomorphology, Regional Climate	apurba	25/08/2016
Associate Professor	Ashalata Devi	Ph. D. (NEHU, Shillong)	Forest ecology and biodiversity conservation	kh_asha	06/01/2017
	Nirmali Gogoi		Environmental Physiology of Plants (Stress Physiology); Greenhouse Gas Emission and Carbon Sequestration from Agro- Ecosystem and Forest Ecosystem	nirmali	31/03/2009
Assistant Professor	Satya Sundar Bhattacharya	Ph.D. (Visva- Bharati)	Solid waste recycling; vermicomposting; soil health; organic agriculture; nanomaterials in environment	satya72	01/09/2010
	Sumi Handique	Ph. D. (Tezpur University)	Geochemistry	sumihan	06/10/2010
	Amit Prakash	Ph. D. (JNU, New Delhi)	Environmental System Modelling; Machine learning applications in Environmental Systems; Non-stationary Stochastic Models; Neuro-fuzzy Systems	ap	17/04/2013
	Nayanmoni Gogoi	Ph. D. (IIT Guwahati)	Ecohydrology, Ecosystem Functions, Nanomaterials in Environmental Applications	nayanmoni	23/01/2017
	Santa Kalita	Ph. D. (Gauhati University)	Zoology (Entomology), Plant- Insect interface, Pollution Biology and Health	santa	03/03/2017
	Pratibha Deka	Ph. D. (Tezpur University)	Air pollution, Human- Environment interaction	pratibha	21/08/2017
Guest	Nazrin Ullah	Ph.D. (NIT, Silchar)	Flood modeling, Flood forecasting, ANFIS, ARIMA Modeling, Water Pollution	nazrin	14/08/2019 (Renewed periodically
Faculty	Madhumita Ghosh Datta	Ph.D. (Tezpur University)	Rice ecosystems, soil science, solid waste management and biodiversity	mghosh	12/02/2020 (Renewed periodically

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the current position
<i>S.T.A.</i>	Pranjol Goswami	pranjol	16/10/2010
Т.А.	Jayanta Bora	jborain	10/10/2010
<i>U.D.C.</i>	Anup Dutta	dutta12	2020
<i>M.T.S.</i>	Ranjit Bora	ranjit2	2000

Major Research and Development Findings

Faculty/	Salient Research Findings
Researcher	
Satya Sundar	Dr. Bhattacharya has pioneering contributions in (i) revealing novel pathways of heavy
Bhattacharya	metal detoxification by earthworms; (ii) developing microbial formulations and
	vermitechnology for transforming solid wastes as potential components of organic-
	centric agriculture; (iii) developing ecofriendly nanofertilizers; and (iv) revealing how
	soil attributes regulate medicinally valuable plant metabolites and their genes
Prof. Raza R	(1) In a pioneering study of the O_3 -NO _x photostationary state (<i>PS</i>) in the ambient air of
Hoque	 Brahmaputra Valley was studied and it was found that the <i>net</i> O₃ concertation deviated substantially from the <i>PS</i> during the winter months, which was attributed to local biomass burning, biogenic VOC emission from forest and agriculture, and long-range transport of peroxyacyl nitrate (PAN). The HYSPLIT model application and concentration-weighted trajectory (CWT) analyses of O₃ ascertained contribution of long-range pollutants in the O₃ chemistry of the region. (2) In a successful attempt bioaccumulation of metals by <i>Atrichum angustatum</i>, which is a readily available moss species in the Brahmaputra valley, was studied. The study led to the conclusion that <i>A. angustatum</i> can serve as a potential biomonitor for metallic pollutants.

Research Projects (both Ongoing and New)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
Earthworm Gut Microbes Mediated Carcinogenic Polycyclic Aromatic Hydrocarbons (CPAHs) Remediation in Contaminated Soil Exploration of Biodiversity and conservation issues of Talley Valley Wildlife sanctuary, Arunachal Pradesh with reference to wildlife species distribution along climate and topographical gradients	DBT	3384600 38,96,640	2018- 2021 2016 - 2021	Raza R Hoque (PI) Nayanmoni Gogoi (Co-PI) Ashalata Devi (PI)
Quantitative assessment and mapping of plant diversity and biological resources in Upper and Lower Assam	DBT	78,49,000	2018- 2021	Ashalata Devi (Co-PI)
Exploring Wildlife and Nature Based Tourism as a Potential Livelihood Option for Local People inhabiting in and around the Protected Areas in Eastern Himalayas, Arunachal Pradesh: A Sustainable approach for biodiversity conservation	MoEFandCC -NMHS (GBPNIHES D)	45,00,295	2018 - 2021	Ashalata Devi (Co-PI)
Status survey and potential threats of threatened Mishmi Takin (<i>Budorcastaxicolor</i>) and its conservation through sensitization of	IERP- GBPNIHESD	9,97,480	2018- 2021	Ashalata Devi (Co-PI)

local communities in eastern Arunachal				
Pradesh, India Enumeration and valuation of the Economic Impact of female labour in the Hills: A study of Indian Himalayan region	UGC (Assigned by NITI	1,45,000	2021- 2022	Ashalata Devi (Co-PI)
or moran rinnandyan rogion	AAYOG)			
Climate Change Impacts and Adaptation for a Climate Resilient Northeast India	DST's Centre of Excellence	6,35,65,808	2020-2025	Ashalata Devi (PI) Co-PI(s): D.C. Baruah, R R Hoque, A.K. Das, N.Gogoi, S. Handique, A. Prakash
 Climate Change Action Programme (CCAP) scheme Long Term Ecological Observation project (LTEO) -India Three project 1.Monitoring forest structure and dynamics in relation to climate change across different biogeographic zones of India 2.Long-term monitoring of biodiversity and ecosystem processes in Indian grasslands 3.Long-term monitoring of soil processes in forests and grasslands. 	MoEF and CC	45,00,000	2020-2025	Ashalata Devi (Co-PI)
Harnessing Endophytes and Arbuscular Mycorrhizal Fungifrom Citrus microbiome for plant and soil health Management in North East India	DBT	20,82,120	2021- 24	Nirmali Gogoi (PI)
Rapid in-situ conversion of urban solid wastes to valuable manure by vermicompost derived microbial consortia: Insights on earthworm gut aided microbial detoxification mechanism of metals, pesticide, and pharmaceutical residues	SERB	43,00,000	2022- 2025	Satya Sundar Bhattacharya (PI) and Nayanmoni Gogoi (Co-PI)
Ecohygrological assessment of eutrophicated water bodies - monitoring algal blooms (algal toxins), water quality and developing techniques to reduce eutrophication	SERB	26,21,000	2019- 2022	Nayanmoni Gogoi (PI)
Exploiting chemical ecology for IPM: Deciphering the phyto- semiochemicals involved in Insect-Plant interactions of major crop pests of North East Region-India	DBT	54,92,820	2021- 2024	Santa Kalita (Co-PI)
Assessment of indoor air quality in different indoor environments and prevalence of sick building syndrome	UGC	10,00,000	3 years	Dr. Pratibha Deka (PI)
Study of shifting cultivation and associated problems in Meghalaya: physicochemical and geospatial approach	DST-SERB	35, 49,620	3 years	Dr. Pratibha Deka (PI)

Publications by Faculty and Staff Members Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Hussain, S., and Hoque, R. R. (2022). Biomonitoring of metallic air pollutants in unique habitations of the Brahmaputra Valley using moss species—*Atrichumangustatum:* Spatiotemporal deposition patterns and sources. *Environmental Science and Pollution Research*, 29(7), 10617-10634.
- Ahmed, M., Bhuyan, P., Sarkar, S., and Hoque, R. R. (2022). Seven-year study of monsoonal rainwater chemistry over the mid-Brahmaputra plain, India: assessment of trends and source regions of soluble ions. *Environmental Science and Pollution Research*, 29(17).
- Gogoi, D., Sazid, A., Bora, J., Deka, P., Balachandran, S., and Hoque, R. R. (2021). Particulate matter exposure in biomass-burning homes of different communities of Brahmaputra Valley. *Environmental monitoring and assessment*, 193(12), 1-17.
- Pal, M., Gope, M., Basu, A., Laha, T., Masto, R. E., Labar, R., Kundu, T.K., Hoque, R.R., Khillare, P.S., Balachandran, S. (2021). Indoor Quality of Residential Homes and Schools of an Industrial Area in Asansol: Characterization, Bioaccessibility and Health Risk Assessment of Potentially Toxic Elements. Nature Environment and Pollution Technology, 20(1), 13-28.
- Rahman, W., Beig, G., Barman, N., Hopke, P. K., and Hoque, R. R. (2021). Ambient ozone over mid-Brahmaputra Valley, India: effects of local emissions and atmospheric transport on the photostationary state. *Environmental monitoring and assessment*, *193*(12), 1-17.
- Deka, P., Medhi, C., Bhuyan, P., Gope, M., Balachandran, S., and Hoque, R. R. (2022). Understanding exposure risks of women and children to PAHs in biomass using households of Brahmaputra valley. *Journal of Air Pollution and Health*, 7(1):33-50.
- Bidyut Sarania, Awadhesh Kumar, Kuladip Sarma, Bhupen Singh Brahma, Himolin Basumatary and Ashalata Devi. 2021. A comparative assessment of external morphological traits between *Macaca munzala*, Tawang and *Macaca assamensis*, Goalpara population in Northeast India. *Primates*, 62:343-360.
- Gunjana Chaudhury, Mallika Basumatari, Chandra Bahadur Darji, Afrin Firdouz Ahmed, Darshana Borah, Rajesh Kumar Sah, Ashalata Devi, Nabajit Hazarika and Gitamani Dutta. 2021. Economic significance of wild bioresources to rural communities in the Eastern Himalayan state of Assam, Northeast India. *Trees, Forests and People*, 5:100102.
- Baidya, S., Thakur, B. and Devi, A. 2021. The influence of tree population structure on regeneration potential in the sacred forests of Assam, India. *Tropical Ecology*, 63: 239–251.
- Gisandu K. Malunguja, Bijay Thakur and Ashalata Devi. 2021. Relationship between forest biodiversity attributes and potential carbon stocks in dry tropical reserve forests of Assam, northeast India. *Environmental and Experimental Biology*, 19: 231–243.
- Mayanglambam Bidyalakshmi Devi, Dangsawa Pipa Morwadun Maring and Ashalata Devi. 2022. A new distribution record and conservation plea of parasitic angiosperm, *Sapriahimalayana* Griffith in Manipur. *Journal ofBioresearch* 1(1): 79-83.
- Gisandu K. Malunguja and Ashalata Devi. 2022. Quantitative Assessment and Predicting the Effects of Soil Pollutants on Herbaceous Biomass Production in Reserved Forests. *Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.*, 92(1):105–120.
- Gisandu K. Malunguja, Bijay Thakur and Ashalata Devi. 2022. Heavy Metal Contamination of Forest Soils by Vehicular Emissions: Ecological Risks and Effects on Tree Productivity. *Environmental Processes*, 9:33.
- Mondal, Subham, Sarma, Banashree, Narzari, Rumi, Gogoi, Lina, Kataki, Rupam, Garg, Ankit and Gogoi, Nirmali. (2022). Role of pyrolysis temperature on application dose of rice straw biochar as soil amendment. *Environmental Sustainability*. DOI 10.1007/s42398-022-00217-w.

- Chakraborty, S.; Deb Burman, P.K., Sinha, N., Sarma, D.Metya, vA, Nurkute, C., Gogoi, N. Bora, A., Saha, S.Maji, D.K.Parua and S. Bera (2022) Linkage between precipitation isotopes and biosphere-atmosphereinteraction observed in northeast India. npj *Climate and Atmospheric Science* DOI 10.1038/s41612-022-00231-z
- Deb Burman, P.K., Chakraborty, S. El-Madany, T.S., Ramasubramanian, R., Gogoi, N., Gnanamoorthy, P., Charuta Murkute, S, Nagarajan, R., Karipot, A. (2022) A comparative study of ecohydrologies of a tropical mangrove and a broadleaf deciduous forest using eddy covariance measurement, *Meteorology and Atmospheric Physics*, 134:1, 1-22.
- Sarma, D., Deb Burman, P.K., Chakraborty, S. Gogoi, N., Bora, A., Metya, A., Datye, A., Murkute, C. Karipot, A.(2022) Quantifying the net ecosystem exchange at a semi-deciduous forest in northeast India from intra-seasonal to the seasonal timescale. *Agricultural and Forest Meteorology*, 314,108786.
- Metya,A., Chakraborty,S., Bhattacharya, S.K, A., Datye,A., Deb Burman, P.K., Dasgupta,P., Sarma,D.,Gogoi,N., Bora, A.(2021) Isotopic and Concentration Analyses of CO2 and CH4 in Association With theEddy-Covariance Based Measurements in a Tropical Forest of Northeast India. *Earth and Space Science*,8:6,e2020EA001504.
- Sharma, A., Das, S., Bora, A., Mondal, S.C., Gogoi, N., Dwivedi, S.K. (2021). Phycoremediation of water of Ellenga beel polluted with paper mill effluent using *Chlorella ellipsoidea* and *Desmodesmus opoliensis*, *Bioremediation Journal*,1:11
- Chandra Obul Reddy Puli, Yun Zheng, Yong-Fang Li, Guru Jagadeeswaran, Angbaji Suo, Bingbing Jiang, Pradeep Sharma, Robert Mann, Govindan Ganesan, Nirmali Gogoi, Asha Srinivasan, Aparna Kakani, Vijaya Gopal Kakani, Abdelali Barakat, Ramanjulu Sunkar. (2021). MicroRNA profiles in Sorghum exposed to individual drought or heat or their combination. *Journal of Plant Biochemistry and Biotechnology*, 30:4,848-861
- Mondal,S.C., Gogoi,N, Nath,D.J and Gayan,A.(2021)Soil amendments for improving grain quality of grass pea (*LathyrussativusL.*) under drought, JSFA Report https://doi.org/10.1002/jsf2.26.
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- Chetia, J., Gogoi, N., Gogoi, R., and Yasmin, F. (2021). Impact of heavy metals on physiological health of lichens growing in differently polluted areas of central Assam, North East India. *Plant Physiology Reports*, 1-10.
- Boro, R. M., Baruah, N., and Gogoi, N. (2021). Impact of Biochar and Lime on Phytoavailability of Pb and Cd in a Contaminated Soil. *Tropical Agricultural Research*, *32*(2),125-134.
- Chetia, J., Gogoi, N., Baruah, D.C., Fouassier, N., Sippel, F. (2021) Potential use of bioenergy powerplant residue biochar in mitigating N2O emission from acidic sandy loam soils: a comparative study. *Environmental sustainability*, https://doi.org/10.1007/s42398-021-00169-7.
- Metya, A.; Datye,A.; Chakraborty,S. Tiwari,Y.K.,Sarma,D. Bora,A. and Gogoi,N.(2021). Diurnal andseasonal variability of CO₂ and CH₄ concentration in a semi urban environment of Western India.ScientificReports.
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- Bharali, A., Baruah, K.K., Bhattacharya, S.S.*, Kim, K-H. (2021). The use of *Azollacaroliniana* compost as organic input to irrigated and rainfed rice ecosystems: Comparison of its effects in relation to CH₄ emission pattern, soil carbon storage, and grain C interactions. Journal of Cleaner Production (Elsevier), 2021, 313: 127931.
- Das, S., Sarkar, S., Das, M., Banik, P., Bhattacharya, S.S.* (2021). Influence of soil quality factors on capsaicin biosynthesis, pungency, yield, and produce quality of chili: An insight on Csy1, Pun1, and Pun12 signaling responses. Plant Physiology and Biochemistry (Elsevier), 166: 427-436.
- Hussain, N., Chatterjee, S.K., Maiti, T.K., Goswami, L., Das, S., Deb, U., Bhattacharya, S.S.*(2021). Metal induced non-metallothionein protein in earthworm: A new pathway for cadmium detoxification in chloragogenous tissue. Journal Hazardous Materials, 401, 123357.
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- Paul, B., Das, P.K., Bhattacharya, S. and Gogoi, N. (2022). Eco-bioengineering tools in ecohydrological assessment of eutrophic water bodies. *Ecotoxicology*, PMID: 35022955. https://doi.org/10.1007/s10646-021-02509-z
- Das, P., Gogoi, N., Sarkar, S., Patil, S.A., Hussain, N., Barman, S., Pratihar, S. and Bhattacharya, S.S. (2021). Nano-based soil conditioners eradicate micronutrient deficiency: soil physicochemical properties and plant molecular responses. *Environmental Science: Nano*, 8:2824–2843.
- Deori Darathi and Kalita Santa (2022). Volatile mediated plant-insect interactions: A review. *International Journal of Zoological Investigations*. 8(1): 291 304.
- Monashree Sarma Bora, Upasona Devi, Nandita Bharadwaj, Pratibha Sharma, Santa Kalita, Sangita Baruah, Apurba Kumar Das and Kali Prasad Sarma (2021). Pollution and health risk assessment of toxic metals in solid waste dumping site soil and its impact on groundwater: a case study, *International Journal of Environmental Analytical Chemistry*, DOI: 10.1080/03067319.2020.1862813
- Datta G. M. (2021). Blended Amendments: A Sustainable Approach for Managing Nutrient Deficiency in Rice Fields. Environmental and Natural Resource DOI:http://dx.doi.org/10.32526/ennrj/19/202100032

Publication of Books

• J. Sarma, Ashalata Devi, G. C. Sarma and Gitamani Dutta. (2020). *Dicot Flora of erstwhile Sonitpur district, Assam.* Balipara Foundation, Assam, India (www. baliparafoundation.com) ISBN No.: 978-81-946315-0-7, November 2020.

Publication of Book Chapters

- Hussain, S., and Hoque, R. R. (2022). Ecological and Natural-Based Solutions as Green Growth Strategies for Disaster and Emergency Management of Air Pollution Extremes. In *Extremes in Atmospheric Processes and Phenomenon: Assessment, Impacts and Mitigation,* pages 369-395. Springer, Singapore
- Sarma,B,Gogoi,L;Gogoi,N. and Kataki,R. (2022) Crop plants under metal stress and its remediation In Plant Stress: Challenges and Management in the new decades; Springer, DOI http://dx.doi.org/10.1007/978-3-030-95365-2_3
- Gogoi,L; Narzari,R; Chutia,R.S.;Borkotoki, B; Gogoi,N; Kataki, R.(2021).Remediation of heavy metal contaminated soil: Role of biochar In Advances in chemical pollution, environmental management and protection; Elsevier DOI 10.1016/bs.apmp.2021.08.002.
- Gogoi,N.M.;Baruah,B. and Gogoi,N. (2021) Ecological tools for remediation of soil pollutants in Bioremediation science from Theory to Practice; CRC Press, DOI 10.1201/9780429327643-4
- Handique, S. (2022). Microplastics in Freshwater Environments–With Special Focus on the Indian Scenario.In AhamadA.,Singh P.,Tiwary D. (eds) *Plastic and Microplastic in the Environment: Management and Health Risks*, pages 18-33, ISBN 9781119800897. Wiley
- Deka, P, Handique, S., Kalita, S., and Gogoi, N. (2021). Recycling of Agro-Wastes for Environmental and Nutritional Security. In: Bhatt, R., Meena, R.S., Hossain, A. (eds). *Input Use Efficiency for Food and Environmental Security*, pages 605-626. Springer, Singapore. https://doi.org/10.1007/978-981-16-5199-1_20
- Nath, A., and Deka, P. (2022). A Case Study on Practices and Acute Toxicity Symptoms Associated with Pesticide Use Among the Farmers of Mid Brahmaputra Valley of Assam. In:Singh, V.P., Yadav, S., Yadav, K.K., Yadava, R.N. (eds.) *Environmental Degradation: Challenges and Strategies for Mitigation*, pages 329-344. Springer, Cham.
- Prajnyan Sarma and Ashalata Devi (2021). Alien plant invasion in the Himalayan region: A review. In: Biological spectrum of Northeast India. Vol. I (Ed. H. C. Majundar). Eastern Book House (EBH) Publishers, Guwahati, India. Pages 1-10. ISBNNo.: 978 93 90434 19 0 www.easternbookhouse.in
- Das, S., Goswami, L., Bhattacharya, S. S.*, Mandal, N.C. (2021). Bio-based technologies to combat emerging environmental contaminants. (P. Singh, C.M. Hussain and S. Rajkhowa, Eds), Chapter 12, pp-323-356 Elsevier (ISBN:978-0-12-822263-8).

Publication of Articles in Conference Proceedings

- Talukdar, O., Gogoi, N., and Bhattacharya, S.S. (2022). Alternate Wet and Dry Irrigation (AWDI) technology as a sustainable water management tool. In *International Conference on Advances in Energy, Environment for Sustainable Development* (AEESD -2022), pages 52-53, Bhubaneswar, Odisha, India.
- Das, K.P. and Gogoi, N. (2021). Efficiency of green synthesized nanoparticles embedded in activated charcoal over chemically synthesized metallic nanoparticles for wastewater remediation. In *International Conference on Impacts and amp; Consequences of Environmental Degradation on Animal Health and Human Wellbeing*, page 09, Bongaigaon, Assam, India

Publication of Articles in Other Forms

• World Environment Day 2021: What is ecosystem restoration, and the various methods to achieve it by Nayanmoni Gogoi on the occasion of World Environment Day, June 5, 2021. https://www.firstpost.com/author/nayanmoni_gogoi

Conference/Workshop/Symposium	/Seminar etc. Attended
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Name of Faculty/Staff Member	Purpose of Attending	Title of Event	Date/ Period	Organizer and Venue
Ashalata Devi	Session Chairing	International conference on biodiversity: exploration, exploitation and conservation for sustainable development	05-01-2022	Department of Botany Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Behali Assam
Pratibha Deka	Participation	Faculty development program on "Academic Writing"	May 10-16, 2021	Ramanujan College, New Delhi; Online
Pratibha Deka	Participation	e-Workshop on Water Quantity and Water Quality	July 28-30, 2021	TLC, Ramanujan College, New Delhi; Online

Invited Talk

Name of	Title of the Talk	Title of the Event	Date	Organizer and Venue
Faculty				
Member				
Raza R.	Atmospheric	Contemporary and	27/11/2021	USTM, Meghalaya
Hoque	Chemistry	Emerging Issues in		(Presented online)
		Geography and		
		Environmental		
		Science		
Ashalata	Biodiversity	Bio-energy and Bio-	23-03-2021	Department of Biotechnology,
Devi	Conversation for	Diversity Conservation		KarpagaVinayaga College of
	Sustainable future	for Sustainable Future		Engineering and Technology,
				Affiliated to
				Anna University, Chennai
	Forest Ecosystem	ID Refresher Course	08-12-2021	UGC-HRDC, Gauhati
	Dynamics in the	on Environmental		University
	Context of Climate	Protection and		
	Change: Northeast	Disaster Management		
	India			
Sumi	Role of women in	International Women's	08/03/2022	Offline event
Handique	Environment for	Day 2022		Darrang college Women's
	sustainable future on			forum,Darrang College, Tezpur
	Women's Day			
Pratibha	Health Impacts of	One day National	04/06/2021	Ayya Nadar Janaki Ammal
Deka	Indoor Air Polliution	Webinar on Health		College, Sivaski- 626124, Tamil
	from Biomass	Impacts of Indoor air		Nadu, India
	Burning Emissions	pollution from		
		Biomass Burning		
		Emissions		

Other Significant Activities of the Department/Centre

• The Department of Environmental Science is providing vermicompost to the university community for the last 10 years. This was a small effort from the department to disseminate the "organic culture" and the distribution has been on request, and for free. Every year, about 10-12 members of the University community enjoy this service; approximately, we provide 10-20 kg of ready vermicompost to each of them. In 2019, the department has imparted hands-on training to more than hundred farmers on organic waste recycling through vermitechnology in collaboration with the

Biotech Hub of Tezpur University. We have also motivated a local farmer (Mr. Saiful Islam) to start his entrepreneurial venture as vermicompost trader in near future.

• Organized One-day National Seminar on 'Ecosystem Restoration' on the occasion of World Environment Day 2021 on June 5, 2021

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
NET	06	

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic	Name of other Institute	Enrolled Academic Programme
	Programme		
Naveen Sehrawat	M.Sc.	University of	MSc in Geographical
		Manchestar	Information Science
Bikash Dhadumia	M.Sc.	IIT, (ISM)Dhanbad	Ph.D. in Environmental Science
Farah Jairam	M.Sc.	M & A Safety Services	Qualified Rigger

DEPARTMENT OF MATHEMATICAL SCIENCES

About the Department

Established in 1994, the Department of Mathematical Sciences is one of the first three departments of the University. So far, 26 batches of students have completed their M.Sc. in Mathematics, 8 batches of students have completed their Integrated M. Sc. in Mathematics, and the 2 batches of students have completed their Integrated B. Sc. B.Ed. (Major in Mathematics), from the department. Besides these, 63 scholars have received their Ph.D. in Mathematics from the department. In addition, the department's faculty published over 30 research papers in national and international journals last year.

Academic Programmes and Student intake

Programme	Student Intake
Int B.Sc. B.Ed. in Mathematics	13
Int M.Sc. in Mathematics	25
M.Sc. in Mathematics	53
Doctor of Philosophy	15

Thrust Research Areas of the Department/Centre

- Algebra
- Number Theory
- Numerical PDE
- Operator Theory

Major Facilities and Equipment Available

- ICT enable Classrooms
- Smart Classroom
- Computer lab equipped with 02 server, 28 PC
- Conference Room
- Seminar Hall
- Separate Cabins for Research Scholars

Faculty Members

Designation	Name	Highest	Specialization	<email></email>	Date of
		Qualification		@tezu.ernet.in	holding the
		(Institute)			current
					position
	Nayandeep	PhD (Tezpur	Number Theory and	nayan	24-09-2009
	Deka Baruah	University)	Ramanujan's Mathematics		
	Debajit	Ph.D. (Jamia	General Topology, Fuzzy	debajit	13-08-2010
	Hazarika	Milia Islamia	sets & applications		
		University)			
Professor	Munmun	Ph.D(Tezpur	Operator Theory,	munmun	17-12-201
	Hazarika	University)	Functional Analysis		
	Milan Nath	Ph.D.(IIT,	Ordinary Graph Spectra,	milan	15-10-2013
		Guwahati)	Inverse eigenvalue problem		
	Santanu	Ph.D. (Tezpur	Nonparametric functional	sdutta	24-06-2016

	Dutta	University)	estimation and risk estimation		
	Dhiren Kumar	Ph.D. (Dibrugarh	Ring Theory; Finite Field Theory	dbasnet	22-03-2017
	Basnet	University)	5		
Associate	Bhim Prasad Sarmah	Ph.D.(Gauhati University)	Theoretical Physics	bhim	18-12-2009
Professor	Shuvam Sen	Ph.D.(IIT, Guwahati)	Computational Fluid Dynamics	shuvam	17-12-2012
	Pankaj Kumar Das	Ph.D. (Delhi University)	Coding Theory	pankaj4	28-09-2015
	Rajat Kanti Nath	Ph. D. (NEHU)	Algebra and Graph Theory	rknath	05.12.2020
Assistant	Jayanta Borah	Ph.D.(IIT, Guwahati)	Abstract Fractional Differential Equations, Mathematical Control theory	jba	11-12-2019
Professor	Debajit Kalita	Ph.D.(IIT, Guwahati)	Algebraic Graph Theory	kdebajit	20-12-2020
	Bipul Kumar Sarmah	Ph.D. (Tezpur University)	Theory of Partitions;Ramanujan Mathematics	bipul	08-08-2011
	Deepjyoti Goswami	Ph.D.(IIT, Bombay)	Finite Element Method	deepjyoti	31-12-2012
	Biswajit Das	Ph.D.(IIT, Guwahati)	Numerical Linear Algebra	bdas	30-12-2021

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the
			current position
System Analysis	Anjan Kumar Bhattacharyya	anjan	11-10-2012
Technical Assistant	Krishna Das	krishnadas	29-09-2010
Multi Tasking Staff	Nur Ali	nurali	01-04-1994

Major Research and Development Findings

Faculty/	Salient Research Findings
Researcher	
Nayandeep	Proved that many q-products have matching coefficients with their reciprocals, found
Deka Baruah	new infinite classes of congruences satisfied by several restricted partition functions as well as fractional partition functions.
Dhiren Kumar	We establish some sufficient conditions for existence of a primitive normal element α
Basnet	such that $f(\alpha)$ is a primitive element, where $f(x)$ is quadratic (with non repeated roots), cubic polynomial, rational function etc.
Pankaj Kumar Das	Necessary and sufficient conditions for linear codes correcting periodic random and burst errors with their Hamming weight constraint are derived. Decoding error probability of such codes is studied. Construction of Integer codes correcting unidirectional, asymmetric burst, CT-burst, solid burst along with their storage consumption are studied.
Rajat Kanti Nath	The concepts of r-noncommuting graph of finite rings and g-noncommuting graph of a finite group relative to its subgroups have been introduced and obtained results regarding graph realizations. We compute energy, Laplacian energy and signless Laplacian energy of commuting graphs of certain super integral groups and showed

	that the commuting graphs of those groups are neither hyperenergetic nor				
	borderenergetic. Common neighborhood spectrum and Common neighborhood energy of commuting graphs of several classes of finite non-abelian groups have been computed and showed that the commuting graphs of those groups are CN-integral but not CN-hyperenergetic. We compute energy, Laplacian energy and signless Laplacian energy of commuting conjugacy class graphs of certain classes of two generated finite groups and showed that the commuting conjugacy class graphs of those groups are super integral. We characterize those groups such that their commuting conjugacy class graphs are hyperenergetic, L-hyperenergetic or Q- hyperenergetic. By computing genus of commuting conjugacy class graphs of those groups we also characterize those groups such that their commuting conjugacy class graphs are planar, toroidal, double-toroidal or triple-toroidal.				
Santanu Dutta	Asymptotic bias, variance and limiting distributions of empirical and kernel estimators				
Santanu Dutta	of the distribution function based on positive length biased data are obtained. For the				
	kernel estimator, the asymptotically optimal bandwidth is calculated and rule of thumb				
	bandwidths are proposed. We prove the strong uniform, and L_2 consistency of the distribution function estimators based on length biased data Monte-Carlo Simulations are used to approximate and compare the exact mean squared errors of the distribution function estimators based on length biased data for different test distributions and sample sizes. A mathematical model for asset loss, where the asset is held over a long time period is proposed. This model is a generalization of the well known random walk model. We prove normal approximation and i.i.d. bootstrap approximation of the long-term loss distribution and its quantiles. Applications of our results in finance in the context of estimating risk measures such as the Value-at-Risk, Median Shortfall and the Short-Fall distribution of an asset or portfolio over a long time period are discussed.				

Research Projects (both Ongoing and New)

Project Title	Funding Agency	Amount	Duration	Investigator(s)
		(in INR)		
A study on exact generating	SERB-DST	2,20,000/-	Three years	N. Deka Baruah
functions and congruences for	Under MATRICS		(March 19,	
partition functions associated to	Scheme		2019 to March	
Rarnanujan's mock theta functions			18, 2022)	
and other related functions				
On Algebraic Connectivity and	SERB	6,60,000/-	3 years	Debajit Kalita
Laplacian Spectral Radius of				
Graphs				
On Pareto eigenvalue of distance	SERB	6,60,000/-	3 years	Milan Nath
matrix of connected graphs				
Point and interval estimation of	SERB, MATRICS		36 Months,	Santanu Dutta
some functionals of the	research Grant,	6,60,000/-	Date of	
distribution function of identically	Govt of India.		commencemen	
distributed random variables	Order number		t 19/03/2020	
and their sums with applications	SERB/F/11096/2019			
	-2020 dated 16			
	March, 2020			

Publications by Faculty and Staff Members Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Baruah, N. D. and Das, H. (2022). Infinite families of congruences modulo powers of 2 for some partition functions involving only odd parts, *International Journal of Number Theory*, DOI: 10.1142/S179 3042122500944.
- Baruah, N. D. and Das, H. (2022). On 3^k -regular cubic partitions, *Journal of the Korean Mathematical Society*, https://doi.org/10.4134/JKMS.j210517 pISSN: 0304-9914 / eISSN: 2234-3008.
- Baruah, N. D. and Das, H. (2022). Matching Coefficients in the series expansions of certain *q*-products and their reciprocals, *The Ramanujan Journal*, 2021, DOI: 10.1007/s11139-021-00534-4.
- Baruah, N. D. and Das, H. (2021). Relations among representations of integers by certain quadratic forms, *Indian Journal of Pure and Applied Mathematics*, DOI: https://doi.org/10.1007/s13226- 021-00158-w.
- Baruah, N. D. and Das, H. (2021). Generating functions and congruences for 9-regular and 27-regular partitions in 3 colors, *HardyRamanujan Journal* (Special Commemorative volume in honour of Srinivasa Ramanujan), 44: 101–115.
- Baruah, N. D. and Das, H. (2021). Families of congruences for fractional partition functions modulo powers of primes, *Research in Number Theory*, 7: 21 pp., Article No. 57.
- Baruah, N. D. and Bandyopadhyay, S. (2021). The *n*-color partition function and some counting theorems, Integers, 21: 16 pp., , #A83.
- Bhowal, P. and Nath, R. K. (2021). Spectral aspects of commuting conjugacy class graph of finite groups, *Algebraic Structures and Their Applications*, 8(2): 67–118.
- Bhowal, P. and Nath, R. K. (2022). Genus of commuting conjugacy class graph of certain finite groups, *Algebraic Structures and Their Applications*, 9(1): 93–108.
- Bhowal, P., Nongsiang, D. and Nath, R. K. (2022). Non-solvable graphs of finite groups, *Bulletin of the Malaysian Mathematical Sciences Society*, Accepted.
- Bose, A. and Dutta, S. (2022). Kernel based estimation of the distribution function for length biased data, *Metrika: International Journal for Theoretical and Applied Statistics*, Springer, 85(3), pages 269-287. DOI: 10.1007/s00184-021-00824-3
- Das, P.K. and Haokip, L. (2022). Low-density periodical burst correcting codes with decoding probability and detection capability. *Journal of Applied Mathematics and Computing*. https://doi.org/10.1007/s12190-022-01716-z.
- Das, P.K. and Haokip, L. (2022). Codes with burst distance and periodical burst errors. *Journal of Computational and Applied Mathematics*. 411:114240.
- Das, P.K. and Haokip, L. (2022). Periodical burst error correcting codes with decoding error probability. *Discrete Mathematics Letters*. 8: 49–56.
- Das, P.K. and Haokip, L. (2021). Correction and Weight Distribution of Periodic Random Errors. *Science and Technology Asia*. 26 (4): 39–48.
- Das, P.K. and Pokhrel, N. K. (2021). Asymmetric CT-Burst Correcting Integer Codes. 2021 5th International Conference on Information Systems and Computer Networks (ISCON). 1-5. IEEE. DOI: 10.1109/ ISCON52037.2021.9702506.
- Das, P.K. and Kumar, S. (2021). Location and weight distribution of key errors. *Matematicki Vesnik*. 73(1): 43–54.
- Deka, D. and Sen, S. A new transformation free generalized (5,5)HOC discretization of transient Navier-Stokes/Boussinesq equations on nonuniform grids, *International Journal of Heat and Mass Transfer*, vol. 171, p. 120821, 2021.

- Deka, D. and Sen, S. Compact higher order discretization of 3D generalized convection diffusion equation with variable coefficients in nonuniform grids, *Applied Mathematics and Computation*, vol. 413, p. 126652, 2022.
- Dutta, J., Basnet, D. K. and Nath, R. K. (2021). Characterizing some rings of finite order, *Tamkang Journal of Mathematics*, DOI: https://doi.org/10.5556/j.tkjm.53.2022.3370.
- Dutta, P. and Nath, R. K. (2021), Various energies of commuting graphs of some super integral groups, *Indian Journal of Pure and Applied Mathematics*, 52(1): 1–10.
- Fasfous, W. N. T., Sharafdini, R. and Nath, R. K (2021). Common neighborhood spectrum of commuting graphs of finite groups, *Algebra and Discrete Mathematics*, 32(1): 33–48.
- Giri, S. and Sen, S. A new (3,3) low dispersion upwind compact scheme, CSMCS 2020, *Communication in Computer and Information Science*, 1345, P. 134-145, 2021.
- Hazarika, H. and Basnet, D. K. Pair of primitive normal elements of rational form over finite fields of characteristic 2. *Indian Journal of Pure and Applied Mathematics*, 2022. DOI: https://doi.org/10.1007/s13226-022-00231-y
- Hazarika, H., Basnet, D. K. and Kapetanakis, G. On existence of primitive normal elements of rational form over finite fields of even characteristic. *International Journal of Algebra and Computation*, 32(2):357-382, 2022.
- Hazarika, H. and Basnet, D. K. On Existence of Primitive Normal Elements of Cubic Form over Finite Fields. *Algebra Colloquium*, 29(1):151-166, 2022.
- Hazarika, H., Basnet, D.K. and Cohen, S.D. The existence of primitive normal elements of quadratic forms over finite fields. Journal of Albebr and its Applications, 21(4), Paper No. 2250068, 15pp.
- Kalita, D. and Sarma, K. (2021). On the inverse of unicyclic 3-coloured digraphs. *Linear and Multilinear Algebra*. DOI: https://doi.org/10.1080/03081087.2021.1948956.
- Kalita, D. and Sarma, K. (2022). On unicyclic non-bipartite graphs with tricyclic inverses. *Linear and Multilinear Algebra*. DOI: https://doi.org/10.1080/03081087.2022.2062275.
- Nath, R. K., Sharma, M., Dutta, P. and Shang, Y. (2021). On r-noncommuting graph of finite rings, *Axioms*, 10(3): 233 (14 pages).
- Nath, R. K., Fasfous, W. N. T., Das, K. C. and Shang, Y. (2021). Common neighborhood energy of commuting graphs of finite groups, *Symmetry*, 13(9): 1651 (12 pages).
- Pokhrel, N. K. and Das, P.K. (2022). Low-density and high-density asymmetric CT-burst correcting integer codes. *Advances in Mathematics of Communications*. doi/10.3934/amc.2022030.
- Pokhrel, N.K. and Das, P.K. (2021). Unidirectional solid burst correcting integer codes. *Journal of Applied Mathematics and Computing*. Online first article, DOI:10.1007/s12190-021-01662-2.
- Sharafdini, R., Nath, R. K. and Darbandi, R. (2022). Energy of commuting graph of finite AC-groups, *Proyecciones Journal of Mathematics*, 41(1): 263–273.
- Sharma, M., Nath, R. K. and Shang, Y. (2021). On g-noncommuting graph of a finite group relative to its subgroups, *Mathematics*, 9(23): 3147 (13 pages).
- Sharma, M., and Nath, R. K. (2022). Relative g-noncommuting graph of finite groups, *Electronic Journal of Graph Theory and Applications*, Accepted.

Publication of Articles in Other Forms

• Baruah, N. D. (2021). e-r Prarambhik kotha (An article in Assamese), Bijnan Jeuti, 56(3): 18-21.

Name of Faculty/Staf f Member	Purpose of Attending	Title of Event	Date/ Period	Organizer and Venue
Bipul Kumar Sarmah	Paper presentation	International e- conference on Number Theory and Differential Equations(ICND-2021)	20-24 December, 2021	Department of Mathematics, School of Physical Sciences, Central University of Karnataka (online)
D. K. Basnet	Session Chairing	Emerging trends in Pure and Applied Mathematics	12-03-2022 to 13-03-2022	Department of Applied Sciences, School of Engineering in association with Department of Mathematical Sciences, School of Sciences, Tezpur University.
Pankaj Kumar Das	Paper presentation	4th International Conference On Mathematical Modelling, Applied Analysis And Computation-2021 (virtual)	05-07-2021 To 07-07-2021	JECRC University, Jaipur (Raj.), India
	Session Chairing	International Conference on Emerging Trends in Pure and Applied Mathematics (virtual)	12-03-2022 To 13-03-2022	Department of Applied Sciences, School of Engineering in association with Department of Mathematical Sciences, School of Sciences, Tezpur University.
Rajat Kanti Nath	Session Chairing	International Conference on Emerging trends in Pure and Applied Mathematics	12-03-2022 to 13-03-2022	Department of Applied Sciences (Mathematics) and Department of Mathematical Sciences, Tezpur University. (Blended Mode)
S. Sen	Session Chairing	Emerging trends in Pure and Applied Mathematics	12-03-2022 to 13-03-2022	Department of Applied Sciences, School of Engineering in association with Department of Mathematical Sciences, School of Sciences, Tezpur University.

Conference/Workshop/Symposium/Seminar etc. Attended

Invited Talk

Name of	Title of the Talk	Title of the Event	Date	Organizer and Venue
Faculty				
Member				
Bipul	LMS Moodle: Site	Interdisciplinary Refresher	10-06-2021	Teaching Learning
Kumar	and Course Set Up	Course on Curriculum and		Centre (TLC), Tezpur
Sarmah		Pedagopgy		University (online)
	Latex	State Level two days Workshop	14-07-2021,	B. Baruah College,
		on Latex	15-07-2021	Guwahati (online)
Debajit	Algebraic	International Conference on	16-12-2021	Centre for advanced
Kalita	connectivity of	Linear Algebra and it's		Research in Applied
	graphs constructed	Applications		Mathemetics and
	with given blocks			Statistics, MAHE,
				Manipal

D. K. Basnet	Foundation (Level O)			MTTS Trust, Funded by NBHM, DAE. (Online)
	Learning Mathematics	Invited Talk (Webinar)	2021 20-07-2021	Tyagbir Hem Baruah College, Jamugurihat, Sonitpur, Assam (Online)
	On primitive and	International Webinar on	08-11-2021	Manipur University
	normal elements of finite fields	Foundations for Contemporary Mathematical Research	- 10-11- 2021	(Online)
	Introduction to Finite Fields	Invited Talk (Webinar)	8-12-2021	University of Science and Technology, Meghalaya (Online)
	Understanding Mathematics	Students Enrichment Programme for M.Sc. students of Manipur University	04-01-2022	Manipur University and Tezpur University, held at Department of Mathematical Sciences, Tezpur University
	Real Analysis	OFCM(Online Foundation Course in Mathematics) follow up camp 2022 on Real Analysis	09-01-2022 - 21-01- 2022	MTTS Trust, Hyderabad under NBHM, DAE
	Real Analysis	Invited talk	22-01-2022	University of Science and Technology, Meghalaya
	Pi Day 2022 Lecture	Pi Day 2022 Invited Talk	14-03-2022	Don Bosco University, Assam
N. Deka Baruah	Matching coefficients in the series expansions of certain q- products and their reciprocals during December 20–24, 2021	International e-conference on Number Theory and Differential Equations	22-12-2021	Central University of Karnataka, Bengaluru (Online)
	Matching coefficients in the series expansions of certain q- products and their reciprocals	Special Functions and Number Theory Seminar	15-04-2021	N. Deka Baruah
	Rational approximations to irrational numbers and some related topics	Seminar on the occasion of Pi Approximation Day	22-07-2021	Asom Jnanbhumi Academy, North Lakhimpur, Assam (Online)
	Teaching Mathematics with fun	Teacher Training Program	11-08-2021	Tezpur Science Centre of Assam Science Society, Assam (Online)
	Ramanujan and his mathematics	Seminar on the occasion of National Mathematics Day	20-12-2021	VIT Bhopal, Madhya Pradesh (Online)
	Ramanujan and his	Seminar on the occasion of	22-12-2021	Sabarmati University,

	Notebooks	National Mathematics Day		Ahmedabad, Gujarat (Online)
	Ramanujan and his mathematics	National Mathematics Day	22-12-2021	St. Anthony's College, Shillong (Online)
	Ramanujan and a glimpse of his mathematics	Seminar on the occasion of National Mathematics Day	22-12-2021	Rajiv Gandhi University, Arunachal Pradesh (Online)
	Some Applications of the Division Algorithm and Arithmetical Functions	Refresher Course in Mathematics for College/University Teachers	27-01-2022 and 28-01-2022	Gauhati University, Assam (Online)
	Ramanujan and a glimpse of his mathematics	On the occasion of National Science Day	28-02-2022	Institute of Advanced Study in Science and Technology (IASST), Guwahati
	History of Pi	Three Days International Conference on Pi on the occasion of Pi Day	12-03-2022	Manipur University, Manipur (Online)
	Ramanujan, Pi and International Day of Mathematics	Seminar on the occasion of International Mathematics Day	14-03-2022	University of Science and Technology, Meghalaya (USTM)
	A Glimpse of Ramanujan's Mathematics	Seminar on the occasion of International Mathematics Day	14-03-2022	Cotton University, Guwahati
	Ramanujan's contribution to Pi	International E-Seminar Advances in Mathematical Sciences (ISAMS-2022, Celebration of International Mathematics Day)	16-03-2022	Departments of Mathematics, Central University of Karnataka, Kalaburagi and Sri Venkatesh University, Tirupati (Online)
	Ramanujan's Contribution to Mathematics	The Fifth Bhupati Chandra Deka Memorial Lecture	28-03-2022	Department of Mathematics, Gauhati University, Gauhati
Pankaj Kumar Das	Hat Problem and Hamming codes	Three Days National Conference on International Pi Day, Manipur University, 12-14 March, 2022 (virtual)	12-03-2022 to 14-03- 2022	Manipur University, India,
	Basic Coding Theory & its Applications	National Webinar on "Basic Coding Theory & its Applications" (virtual)	14-08-2021	Sadiya College, Assam
Rajat Kanti Nath	Commuting and non-commuting graphs of finite groups and their extensions	27th Iranian Algebra Seminar	10-03-2022	Persian Gulf University, Iran (online)

Other Significant Activities of the Department/Centre

International Conference on Emerging trends in Pure and Applied Mathematics; organized by • Department of Applied Sciences (Mathematics) in association with Department of Mathematical

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Sciences, Tezpur University during March 12 to 13, 2022 (Convenors: Dr. R. K. Nath, Prof. R. Haloi and Dr. B. K. Debnath).

• A One Day National Symposium on the occasion of National Science Day; organized by Department of Mathematical Sciences, Tezpur University in collaboration with Inscignis-2022 on March 01, 2022 (Convenors: Prof. D. K. Basnet, Dr. R. K. Nath and Dr. B. K. Debnath).

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
NET-JRF	02	Integrated M.Sc.
NET-JRF	11	M.Sc.
GATE	19	M.Sc.

Notable Placement of Students

Name of Student	Academic Programme	Placement Designation	Company/ Organization	Mode of Selection
Priyanuj Saikia	Int. M.Sc.	Executive	Royal Bank of Canada	Off Campus

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic	Name of other Institute	Enrolled Academic
	Programme		Programme
Dipendranath Mahatu	M.Sc	Tulane University, Louisiana, USA	Ph.D.
Hridoyananda Saikia	Int. M.Sc.	University of Manitoba, Canada	Ph.D.
Manimugdha Saikia	Int.M.Sc.	Western University, Canada	Ph.D.
Priya Bucha Jain	M.Sc.	Western University, Canada	Ph.D.
Rahul Dutta	M.Sc.	Aix-Marseille University, Public	Leading to Ph.D.
		university in Marseille, France	
Sourav Koner	M.Sc.	University of South Africa	Ph.D.

DEPARTMENT OF MOLECULAR BIOLOGY AND BIOTECHNOLOGY

About the Department

The Department of Molecular Biology and Biotechnology (MBBT) is supported by UGC-SAP DRS II and DST-FIST. It was established on July 24, 1997. The Department got recognition from the Department of Biotechnology (DBT) of the Ministry of Science and Technology, Government of India for its Post Graduate programme in 1998. The department offers a two-year M. Sc degree in Molecular Biology and Biotechnology, a five-year Integrated M Sc in Bioscience and Bioinformatics/Life Sciences and PhD in Molecular Biology and Biotechnology. Faculty members of the department are trained in modern areas of Molecular Biology and Biotechnology from various internationally reputed Institutes and are actively involved in research.

Academic Programmes and Student Intake

Academic Programme	Student Intake
<i>M. Sc.</i>	30
Int. M. Sc.	25
Ph.D.	10-15 (variable)

Thrust Research Areas of the Department/Centre

- Microbial, Plant, Animal and Environmental Biotechnology
- Disease Biology
- Bioinformatics and Computational Biology
- Omics in Biology

Major Facilities/Equipment available Genomics/Transcriptomics

DNA sequencers Bioanalyzer RT-PCR

Proteomics

Fast protein Liquid Chromatography (FPLC) UHPLC systems

Biochemistry/Metabolomics

Ultracentrifuge GC/MS HPLC FTIR Spectrofluorometer

Cell biology/Cell imaging

Flow cytometer Fluorescence microscope

Common Facilities

Animal cell culture facility Plant tissue culture facility Microbiology lab Computational facility

Centre

ONGC CPBT Centre for Petroleum Biotechnology (Industry-Academia)

Designation		Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
Senior	Bolin Kumar	Ph D (Lond),	Genetic Engg,	bkkon	13.11.2018
Professor	Konwar,	DIC (Impcol)	Metagenomics	1	12.04.2000
	Ashis K. Mukherjee (on lien)	Ph.D., D.Sc. (Calcutta University)	Biochemical and proteomic analysis of venoms; Quality assessment and novel method of antivenom production; Drug disocovery from natural resources;Molecular diagnostics	<u>akm</u>	13-04-2009
	Shashi Baruah	Ph.D. (PGIMER, Chandigarh)	Immunology	sbaruah	30-01-2004
	Suvendra Kumar Ray	Ph.D. (CCMB, Hyderabad)	Molecular genetics, Plant pathogenic bacteria, Molecular evolution	<u>suven</u>	03-04-2017
	Anand Ramteke	Ph.D. (JNU, New Delhi)	Cancer Biology	anand	21-03-2017
	Manabendra Mandal	PhD (University of Delhi)	Microbial Biofilm, Bioenergy, Probiotics and Nutrition	<u>mandal</u>	21/03/2017
	Robin Doley	Ph. D (Tezpur University)	Snake venom biochemistry, Structure- function relation of venom protein	<u>doley</u>	16-02-2016
Associate Professor	Rupak Mukhopadhyay	Ph.D. (IACS, Kolkata)	Cellular and Molecular Biology	<u>mrupak</u>	10-03-2022
Assistant Professor	Eeshan Kalita (on lien)	Ph.D. (NIPGR, New Delhi and GU)	Nanobiotechnology, Plant-microbe- environment Interactions, Environmental Engineering and Bioenergy	<u>ekalita</u>	24.8.2019
	Surya Prakash G. Ponnam	Ph.D. (UoH), LVPEI, Hyderabad,	Human molecular genetics, Synthetic Biology	<u>Surya_p</u>	29-07-2010

Faculty Members

		Telangana.			
	Anupam Nath Jha	Ph.D. (IISc Bangalore)	Computational biophysics, Systems Biology, Structural bioinformatics	<u>anjha</u>	07-09-2011
	Nima D. Namsa	Ph.D. (IISc Bangalore)	Molecular Virology	<u>namsa</u>	17-01-2012
	Suman Dasgupta	Ph.D. (Visva- Bharati University)	Metabolic Disease Biology, Metabolic Inflammation, Insulin resistance and type 2 diabetes	<u>suman</u>	01-05-2013
	Venkata Satish Kumar Mattaparthi	M.Tech., Ph.D. (IIT Guwahati)	Computational Biotechnology and Bioinformatics	<u>venkat</u>	03-06-2013
	Jyoti Prasad Saikia	Ph.D. (TU)	Plant Biotechnology, Plant Secondary Metabolite	jyoti06	24/3/2017
	Aditya Kumar	Ph.D. (IISc Bangalore)	Computational biology, Gene regulation, Structural bioinformatics	<u>aditya</u>	12-04-2017
	Pankaj Barah	Ph.D (NTNU, Norway)	Genomics, Computational Systems Biology	<u>barah</u>	03-05-2017
	Priyanka Sharma	PhD	Biotechnology		Spring Semester 2021
Guest	Shambhu Kumar	PhD	Biotechnology		Spring 2021
Faculty	Arup Jyoti Borah	PhD (IIT Guwahati)	Microbiology		Spring 2022
	Jahnu Saikia	PhD (IIT Guwahati)	Applied Microbiology		Spring 2022

Officers and Staff Members

Designation	Name	<email></email>	Date of holding the
		@tezu.ernet.in	current position
Technical Officer	Dr. Kalyan Kr. Hazarika	<u>kalyan</u>	16.09.1998
Senior Technical Assistant	Dr. Naba Kr. Bordoloi	nabakb	03.10.2010
Laboratory Assistant	Mr. Pranab Mudoi	<u>pmudoi</u>	06-03-2006
Assistant	Mrs. Pranita S. Talukdar	<u>pranita</u>	17.05.2010
M.T.S	Mr. Guna Das	gunadas	01-01-1995

Major Research and Development Findings

Faculty/	Salient Research Findings			
Researcher				
B K Konwar	Infectious bacteria in reproductive tract of women were isolated, characterized and identified, developed medicated Tempon, produced V-spray with D- and L-lactic acid bacteria. Protease gene (s) in intestinal DNA, gut digesta mg-DNA and proteolytic bacteria from Asiatic mud eel was exploited.			

D 1	
Rupak Mukhopadhyay	The laboratory studied the novel role of ribosomal protein L22 (RPL22) in cancer progression. It was found that downregulation of RPL22 increased proliferation and expression of Epithelial-Mesenchymal Transition (EMT) markers. The role of high salt treatment in tumor associated macrophages and its effect on breast cancer has been studied. Bioactive compounds from medicinal plants are investigated for their role as anti- inflammatory and anti-cancer agents Mechanism of polyphenol-based anti-inflammatory action has been studied using monocyte-macrophage system
Pankaj Barah	 Development of two state of the art knowledgebase Knowledgebase for Rice Sheath Blight Information (KriShI : <u>http://www.tezu.ernet.in/krishi/</u>) and knowledgebase on plant combined stress (PlnCoS: <u>http://www.tezu.ernet.in/plncos/</u>). Generated and submitted large scale transcriptomic data on rice sheath blight diseases (NCBI SRA accession: <u>https://www.ncbi.nlm.nih.gov/bioproject/PRJNA725619/</u>). Developed and benchmarked an end to end comprehensive computational pipeline for predicting novel long non-coding RNA prediction https://github.com/evolomics-group.
Jyoti Prasad Saikia	 Germination stimulation of <i>Vigna radiata</i> seed, anticancer activity of <i>Oroxylum</i> <i>indicum</i> compounds, antibacterial activity of <i>Allium sativum</i> and <i>Brassica nigra</i> seeds oil macerate, use of naturally occurring compound to dye silk, cotton and hair, and enhancing quality of tea.
Dr. S. K. Ray	 Development of an easy protocol for determination of bacterial colony forming unit. Development of an online tool to find out dN/dS in homologous coding sequences between closely related bacteria.
Dr. R. Doley	 Reported for the first time the venom composition and venom variation India green pit viper snakes (<i>Trimeresurus erythrurus, T. septentrionalis, Viridovipera medoensis, and Popiea popieorum</i>). Immunoreactivity analysis revealed that Indian polyvalent antivenom has poor efficacy in neutralization the biochemical and biologicals effects of Green pit viper. Through in-silico approach we have designed and validated nucleic acid aptamers against snake venom PLA2, a hydrolytic enzyme present in all venomous snakes.

Research Projects

Project Title	Funding Agency	Amount	Duration	Investigator(s)
		(in INR)		
Integrative approach for	Department of	1,01,10,000	01-02-2018	Pankaj Barah
understanding the role of	Biotechnology		to	
noncoding mutations in the	(DBT), Government		31-01-2023	
evolution of biological systems	of India			
A case-control pilot study for	Indian Council of	19,60,000	29-07-2021	Pankaj Barah
identification and validation of	Medical Research		То	-
Gallbladder cancer biomarkers	(ICMR), Govt. of		28-07-2023	
fromNorth-East Indian population	India.			
using transcriptomics approach.				
Big data and Machine learning	Science and	23,24,000	07-11-2019	Pankaj Barah
based approach to understand	Engineering		to	-
combined stress response signatures	Research Board		19-02-2022	

in multiple cultivating crop plants	(SERB), Government of India			
Integrative systems biology approach to identify the molecular response signatures in Rice during concurrent biotic (Rhizoctonia solani) and abiotic (heat) stresses	Department of Biotechnology (DBT), Government of India	82,96,988	01-07-2018 To 30-06-2021	Pankaj Barah
Enhanced production of anticancer flavones- Baicalein, Chrysine and Oroxylin A, from Oroxylum indicum tissue culture and studies on its chemopreventive activities	Department of Biotechnology (DBT), Government of India	260719	2019-22	J. P. Saikia (PI) & A. Ramteke (Co-PI)
Bioconversion of organic waste and de-oil algal residue into biodiesel and Project 3: value added products (carotenoids using oleaginous microbes)	Department of Biotechnology (DBT), Government of India	1199450	2019/4/29- 2021/4/29	M. Mandal
Bioremediation and reclamation of petroleum oil hydrocarbon contaminated soil/ water by microaerophilic/anaerobic bacterial consortium	ONGC-CPBT	1134000	2020/06/04- 2022/06/03	M. Mandal
Indigenous probiotic Based formulation for Immunity, Carbohydrate, glucose and Lipid Metabolism	Department of Biotechnology (DBT), Government of India	6757360	2019/09/09- 2022/09/09	M. Mandal
Indigenous probiotic based approach for cardiovascular disease management	Indian Council of Medical Research (ICMR), Govt. of India.	5678960	2021/12/21- 2024/12/21	M. Mandal
Investigating the role of ribosomal protein L22 in human breast cancer progression	Science and Engineering Research Board (SERB), Government of India	54,18,010	2022-2025	Rupak Mukhopadhyay, T.U. (PI) Sanjeev Wagmare, ACTREC (Co- PI)

Publications by Faculty and Staff Members Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Thakur, S., Malhotra, A., Giri, S., Lalremsanga, H.T., Bharti, O.K., Santra, V., Martin, G., and Robin Doley.(2022). Venom of several Indian green pit vipers: Comparison of biochemical activities and cross-reactivity with antivenoms *Toxicon*, 210: 66-77.
- Patowary, P., Bhattacharyya, D.K., and Barah, P. (2022). SNMRS: An advanced measure for Coexpression network analysis. *Computers in Biology and Medicine*, 105222.
- Pal, U., Sahu, A., Barah, P., and Limaye, A. M. (2022). Transcriptomic data of MCF-7 breast cancer cells treated with G1, a G-protein coupled estrogen receptor (GPER) agonist. *Data in brief*, 41:107948-107948.
- Barua, D., Mishra, A., Kirti, P. B., and Barah, P. (2022). Identifying Signal-Crosstalk Mechanism in Maize Plants during Combined Salinity and Boron Stress Using Integrative *Systems Biology Approaches*. BioMed Research International

- Eldiehy, K. S., Gohain, M., Daimary, N., Borah, D., Mandal, M., and Deka, D. (2022). Radish (Raphanus sativus L.) leaves: A novel source for a highly efficient heterogeneous base catalyst for biodiesel production using waste soybean cooking oil and Scenedesmus obliquus oil. *Renewable Energy*, 191: 888-901.
- Eldiehy, K. S., Bardhan, P., Borah, D., Gohain, M., Rather, M. A., Deka, D., and Mandal, M. (2022). A comprehensive review on microalgal biomass production and processing for biodiesel production. *Fuel*, 324:124773.
- Bardhan, P., Eldiehy, K. S., Daimary, N., Gohain, M., Goud, V. V., Deka, D., and Mandal, M. (2022). Structural Characterization of Mixed Rice Straw and Deoiled Algal Cake-Based Substrate as a Potential Bioenergy Feedstock for Microbial Lipids and Carotenoid Production. *Waste .and Biomass Valorization*, 13(1): 195-212.
- Rather, M. A., Deori, P. J., Gupta, K., Daimary, N., Deka, D., Qureshi, A., and Mandal, M. (2022). Ecofriendly phytofabrication of silver nanoparticles using aqueous extract of Cuphea carthagenensis and their antioxidant potential and antibacterial activity against clinically important human pathogens. *Chemosphere*, 300: 134497.
- Sen, P., Aziz, R., Deka, R. C., Feil, E. F., Ray, S. K. and Satapathy, S. S. (2022). Stem region of tRNA genes favors transition substitution towards keto bases in bacteria. *Journal of Molecular Evolution*, 90 (1): 114-123.
- Devi, A. and Doley, R. (2021). Neutralization of Daboxin P activities by rationally designed aptamers, 203: 93-103.
- Roy, N., Kshattry, M., Mandal, S., Jolly, M. K., Bhattacharyya, D. K., and Barah, P. (2021). An integrative systems biology approach identifies molecular signatures associated with gallbladder cancer pathogenesis. *Journal of clinical medicine*, 10:3520.
- Konwar, B. K. (2020/3). Construction of a metagenomic DNA library for a novel lipase from the bakery soil of Assam, India. Kalpana Sagar, *International Journal of Research and Analytical Reviews*, 7 (1): 148-151.
- Bharali., and Konwar, B. K. (2021). Bioprospecting of indigenous surfactant-producing oleophilic bacteria for green remediation: An eco-sustainable approach for the management of petroleum contaminated soil", accepted in *3 Biotech*.
- Konwar, B. K., Deka, R. C., and Singh, C. B. (2021). Design of Potential IKK-β Inhibitors using Molecular Docking and Molecular Dynamics Techniques for their Anti-cancer Potential. Singh, Salam P.; Hussain, Iftikar; Current Computer - Aided Drug Design, 17(1): 83-94. Bentham Sci Pub. DOI//doi.org/10.2174/1573409916666200102121505.
- Rather, M. A., Gupta, K., and Mandal, M. (2021). Inhibition of biofilm and quorum sensingregulated virulence factors in Pseudomonas aeruginosa by Cuphea carthagenensis (Jacq.) JF Macbr. L333eaf extract: an in vitro study. *Journal of Ethnopharmacology*, 269: 113699.
- Rather, M. A., Gupta, K., Bardhan, P., Borah, M., Sarkar, A., Eldiehy, K. S., and Mandal, M. (2021). Microbial biofilm: A matter of grave concern for human health and food industry. *Journal of Basic Microbiology*, 61(5):380-395.
- Bardhan, P., Baruah, J., Raj, G. B., Kalita, E., and Mandal, M. (2021). Optimization of culture conditions for biomass and lipid production by oleaginous fungus Penicillium citrinum PKB20 using response surface methodology (RSM). *Biocatalysis and Agricultural Biotechnology*, 37: 102169.
- Rather, M. A., Gupta, K., and Mandal, M. (2021). Microbial biofilm: formation, architecture, antibiotic resistance, and control strategies. *Brazilian Journal of Microbiology*, 52(4): 1701-1718.
- Islam, T., Madhubala, D., Mukhopadhyay, R., and Mukherjee, A.K. (2021).Transcriptomic and functional proteomics analyses to unveil the common and unique pathway(s) of neuritogenesis

induced by Russell's viper venom nerve growth factor in rat pheochromocytoma neuronal cells-, *Expert Review of Proteomics*, 18:463-481. https://doi.org/10.1080/14789450.2021.1941892

Khatun, B., Majumder, M., Mukhopadhyay, R., Yasmin, R., Doley, R. and Maji, T.K. (2021). Effect of Curcumin-Hydroxypropyl-ββ-Cyclodextrin complex and the complex loaded gelatin carrageenan microparticles on the various chemical and biological properties. *J. Pharm. Innovation* (Accepted). https://doi.org/10.1007/s12247-021-09559-0.

Publication of Books

- Konwar. B. K. (2022). Bacterial Biosurfactant. Apple Academic Press, Inc., New Jersy, USA and Ontario, Canada, ISBN 978-1-7746-3056-3.
- Konwar. B. K. (2022). Apple Academic Press, Inc., New Jersy, USA and Ontario, Canada (Online), ISBN 978-1-77491-250-8.
- Konwar. B. K (2022). The struggle with a Hill University, OmniScriptum S.R.L., Str. Armeneasca 28/1, Office 1, Chisinau-2012, Republic of Moldova, ISBN 978-613-7-41454-5.
- Barah, P. Bhattacharyya, D. K. and Kalita, J. K. (2021). Gene Expression Data Analysis: A Statistical and Machine Learning Perspective. Chapman and Hall/CRC, USA.

Publication of Book Chapters

- Kumar, K. and Konwar. B. K. (2022). Gut Metagenomics of Pati Hanh (*Anas platyrhynchos domesticus*), *Molecular Genetics and Genomics Tools in Biodiversity Conser- vation* pp 267-280, DOI: 10.1007/978-981-16-6005-4_13.
- Bardhan, P., Deka, A., Bhattacharya, S. S., Mandal, M., & Kataki, R. (2022). Economical aspect in biomass to biofuel production. In *Value-Chain of Biofuels* (pp. 395-427). Elsevier.
- Gupta, K., Bardhan, P., Saikia, D., Rather, M. A., Loying, S., Mandal, M., & Kataki, R. (2022). Microbial Fermentation: Basic Fundamentals and Its Dynamic Prospect in Various Industrial Applications. *Industrial Microbiology and Biotechnology*, 107-128.
- Gupta, K., Bardhan, P., Rather, M. A., Saikia, D., Loying, S., Mandal, M., & Kataki, R. (2022). Microbes in Resource and Nutrient Recovery via Wastewater Treatment. In *Industrial Microbiology and Biotechnology* (pp. 643-665). Springer, Singapore.

Publication of Articles in Conference Proceedings

- Konwar. B. K. (2022). Alk B gene from mgDNA and assessment with bioinformatics, National Seminar on Advances in Basic and Translational Research in Biology (ABTRiB), Silver Jubilee, Dept of Mol Biol & Biotech, Tezpur University (Central), March 11-12, 2022
- Dutta A, Mattaparthi, V.S.K, Mukhopadhyay, R. (2022). A rational approach for identification of potential polyphenols against IL-6-mediated inflammation. In *National seminar on Advances in Basic and Translational Research in Biology (ABTRiB)*, Tezpur University.

Name of	Purpose of Attending	Title of Event	Date/Period	Organizer and Venue
Faculty/ Staff				
Member				
Pankaj Barah	Conducted workshop.	Big data analysis	21-03-2022	The workshop was
	'KARYASHALA' is an	and integration in	То	organized online
	endeavor of	biology	25-03-2022	collaboratively with
	Government of India by			Indian National Young
	Science and			Academy of Sciences

Conference/Workshop/Symposium/Seminar etc. Attended

	Engineering Board (SERB) under Accelerate Vigyan Scheme.			(INYAS), Tezpur University; Indian Institute of Sciences, CSIR-National Chemical Laboratory, Pune; Shiv Nadar University; National Rice Research Institute – Cuttack.
J. P. Saikia	Participation	Week long FDP organized by TLC and MBBT, TU	06/9/2021 to 10/9/2021	TLC & Dept. of MBBT, TU (Online)
Rupak Mukhopadhyay	Organizing committee	National seminar on Advances in Basic and Translational Research in Biology (ABTRiB)	11-03-2022 to 12-03-2022	Department of MBBT, Tezpur University
J. P. Saikia	Participation	Biology is fascinating	01/3/2022	Dept. of MBBT, TU (Offline)
	Participation	National Webinar on Advances in Basic and Translational Research in Biology (ABTRiB)	11-12 March 2022	Dept. of MBBT, TU (Offline)

Invited Talk

Name of	Title of the Talk	Title of the Event	Date	Organizar and Vanua
	The of the Talk	The of the Event	Date	Organizer and Venue
Faculty				
Member				
Dr Pankaj	Incredible North-East	DKFZ Global Alumni	20-11-2021	German Cancer
Barah	India and Awesome	Reception Event		Research Center,
	Assam			Heidelberg, Germany
	Presented an invited	Recent Trends of	10-03-2022	The Advanced Centre
	talk	Computational Biology	То	for Treatment, Research
		in Basic &	11-03-2022	and Education in Cancer
		Translational Research		(ACTREC), Mumbai
Dr. Rupak	Good Academic	Sensitization Talk on	12-11-2021	Department of MBBT,
Mukhopadhyay	Research Practice	Good Academic		Tezpur University
	(GARP) for Master's	Research Practice		
	and Integrated	(GARP)		
	Master's degree			
	students			
	Recombinant DNA	Weeklong FDP on	10-09-2021	Teaching Learning
	Technology:	Emerging Areas of		Center, Tezpur
	Revolutionizations of	Molecular Biology and		University
	Modern Biology	Biotechnology		
Dr. S. K. Ray	Molecular	Four days programme.	17.02.22 to	CDFD Hyderabad
	Intricacies in Plant		20.02.2022	

Associated		
Microorganisms		
(MIPAM-2022)		

Awards/Honours/Notable Achievements

Name of	Designatio	Achievement	Event/Awarded by
Awardee	n of Awardee		
Ria Lodh	M.Sc	First prize in PG Thesis Competition for Women	IEEE-GRSS Kolkata
	student	2021, organized by IEEE-GRSS Kolkata Chapter.	Chapter.
Akash	PhD	Best oral presentation award during the National	Organised by the
Das	Research	Seminar on "Advances in Basic and Translational	Department of Molecular
	Scholar	Research in Biology (ABTRiB)".	Biology and Biotechnology,
			Tezpur University, 11-12
			March, 2022

Other Significant Activities of the Department

Rupak Mukhopadhyay:

1. Organized National Seminar on "Advances in Basic and Translational Research in Biology" at Tezpur University, Mar 11-12, 2022 as Convener.

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
NET	05	MSc in MBBT
GATE		MSc in MBBT & Int. MSc in
	05	Bioscience and Bioinformatics
DBT-JRF	01	MSc in MBBT

Notable Placement of Students

Name of Student	Academic	Placement	Company/ Organization	Mode of
	Programme	Designation		Selection
Niharika Das	MSc in MBBT		Chegg India Pvt. Ltd.	On-Campus
Ria Lodh	MSc in MBBT		Dr. Reddy's Laboratories Ltd	On-Campus
Minu Thapa	MSc in MBBT		Dr. Reddy's Laboratories Ltd	On-Campus
Sonali Singh	MSc in MBBT		Dr. Reddy's Laboratories Ltd	On-Campus
Sudem Boro	MSc in MBBT		Dr. Reddy's Laboratories Ltd	On-Campus
Ujjayita Chowdhury	MSc in MBBT		Dr. Reddy's Laboratories Ltd	On-Campus
Angshuman Das	MSc in MBBT		Dr. Reddy's Laboratories Ltd	On-Campus
Priya Joshi	MSc in MBBT		Dr. Reddy's Laboratories Ltd	On-Campus

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic Programme	Name of other Institute	Enrolled Academic
	(in TU)		Programme
Anahita D.	Int. MSc in Bioscience	Kanazawa University, Japan	PhD
Choudhury	and Bioinformatics		
	Int. MSc in Bioscience	Kanazawa University, Japan	PhD
Sistrilekha Nath	and Bioinformatics		
	Int. MSc in Bioscience	IIT Guwahati	
Nilave Ranjan Bora	and Bioinformatics		PhD
Tangkam R Marak	MSc in MBBT	University of Nottingham, UK	PhD

Arnav Saha	MSc in MBBT	IISER Pune	PhD
Antara Chakraborty	MSc in MBBT	IISER Pune	PhD
Komal Rani	MSc in MBBT	JNU Delhi	PhD
Krishna Pradhan	MSc in MBBT	IISER Kolkata	PhD
Pawan Kumar	MSc in MBBT	CDRI Lucknow	PhD
		Saha Institute of Nuclear	
Subhradip Nath	MSc in MBBT	Physics, Kolkata	PhD
Pallav Sengupta	MSc in MBBT	IIT Guwahati	PhD
Usashi Guha Roy	MSc in MBBT	IIT Gandhinagar	PhD
Akash Das	MSc in MBBT	Tezpur University	PhD

DEPARTMENT OF PHYSICS

About the Department

Twenty-three years since its commencement in January 1998, the Department of Physics has stridden out not only in its post-graduation teaching but also in new frontiers of research. To keep pace with the advancement in science and technology, new special papers have been included with adaptation to new developments within the course content. The areas of specialization for post-graduation are Condensed Matter Physics, Electronics and Photonics, High Energy Physics, and Nano Science and Technology. To develop the students from the graduate level, the Department also started an Integrated M.Sc. in Physics in 2009. To add to this, keeping in mind the need of teachers at the school level, the Department has also been running a B.Sc., B.Ed. programme since July 2011.

Academic Programmes and Student Intake

Academic Programme	Student Intake
M.Sc. Physics	38
Integrated M.Sc. in Physics	25
Integrated B.ScB.Ed. in Physics	22
Ph. D. in Physics	Variable

Thrust Research Areas of the Department

- Condensed Matter Physics
- Electronics and Communications
- Photonics
- High Energy
- Plasma Physics
- Astrophysics

Major Facilities/Equipment available

- FESEM
- TRPL
- X-RD
- UV-Vis
- SEM

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
	Jayanta Kumar Sarma	Ph.D. (G.U)	High Energy Physics	jks	24/09/2009
Professor	Nidhi Saxena Bhattacharyaa	Ph.D. (D.U)	Microwave Communications	ndas	05/12/2012
	Nilakshi Das	Ph.D. (G.U)	Plasma Physics	nidhi	05/12/2012
	Gazi Amin Ahmad	Ph.D. (G.U)	Optoelectronics	gazi	11/09/2013
	Dambarudhar	Ph.D. (T.U)	Soft Condensed Matter	best	03/09/2014

	Mahanta				
	Pritam Deb	Ph.D. (J.U)	Mesoscopic Physics; Magnetism in low dimension; Molecular imaging; Surface Science; Electronic structure calculation	pdeb	21/03/2017
	Mrinal Kumar Das	Ph.D. (G.U)	High Energy Physics	mkdas	05/12/2015
	Pabitra Nath	Ph.D. (G.U)	Photonics	pnath	05/12/2015
	Pralay Karmakar	Ph.D. (G.U)	AstroPlasma	pralay	5/12/2015
Associate	N. G. K.	Ph.D. (G.U)	High Energy Physics	francis	18/11/2019
Professor	Francis				
	Rajib Biswas	Ph.D. (D.U)	Optoelectronics	rajib	29/08/2010
	Rupjyoti Gogoi	Ph.D. (G.U)	AstroPhysics	rgogoi	24/08/2011
	Shyamal Kumar Das	Ph.D. (IISc.)	Material Science	skdas	03/01/2013
	Ritupan Sarma	Ph.D. (IISc.)	Nonlinear dynamics	ritupan	31/03/2017
Assistant Professor	Moon Moon Devi	Ph.D. (TIFR)	Neutrino and Astroparticle Physics	deimm	17/05/2017
	Jugal Lahkar	Ph.D. (GU)	QCD and Phenomenology	srinayan	01/12/2021
	Diana Thongjaomayu m	Ph.D. (NEHU)	Non equilibrium statistical mechanics	dianat	03/01/2022
Guest Faculty	Manisha Mandal	Ph.D. (G.U)	Condensed Matter	monisha	03/03/2022

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the current position
Technical Officer	Kishor Boruah	kiba	23/07/1998
Technical Assistant	Palash Dutta	duttapk	12/10/2015
Lab Assistant	Mrinmoy Gohain	mgohain	01/08/2011
	Dhruba Deka	ddeka	01/07/2013
	Biju Boro	bbiju	31/07/2012
Upper Divisional Clark	Umesh Patir	patir	27/03/2007
MTS	Narayan Sarma	narayan	01/01/1995

Major Research and Development Findings

Faculty/	Salient Research Findings
Researcher	
J.K. Sarma	Solutions of various equations describing parton distributions inside hadrons like DGLAP, GLR, Modified DGLAP, BFKL, Modified BFKL, GLR-MQ-ZRS etc. and their phenomenological studies.
N. Das	Proton bunch having energy of the order of 100 MeV with strong collimation has been observed in laser plasma interaction using PIC simulation of spherical plasma target in near critical density regime and having Gaussian density profile. Formation of strong shock wave due to wave breaking is found to be responsible for emergence of such energetic proton beam.
P. Deb	Obtained band alignment at heterointerface with rapid charge transfer supporting

	excellent photocatalytic degradation. Demonstrated the spin-wave dependent electronic structure and susceptibility behavior of model rapheme–phosphorene Van der Waals heterostructure in the framework of renormalization group approach.
M.M. Devi	The impact of scalar non-standard interactions on the physics potential of long-baseline neutrino experiments. The effects of environmental decoherence on neutrinos.

Research Projects (both Ongoing and New)

Project Title	Funding	Amount	Duration	Investigator(s)
	Agency	(in INR)		
Neutrino Mass, Lepton Number Violation, Baryogenesis, Dark Matter and related cosmology within Beyond Standard Model framework	DST-SERB, Delhi	21.97 lakhs	May 2018 to March, 2022	Mrinal Kumar Das
Iridescent colour and transparent (super)hydrophobicity in natural systems within a class.	DST-SERB	58.67 lac.	3 years (2022-25)	Dambarudhar Mohanta
Ion irradiation effects on conducting polymer@carbon nanomaterials-based nanocomposites functionalized with metal (Au/Ag) nanoparticles for amperometric immunosensors for efficient detection of mycotoxins.	IUAC, New Delhi	10.11 lac.	3 years (2019-22)	Dambarudhar Mohanta
Effect of energetic γ-photons and ion beams on the structural, opto-electronic and rheological property of Tungsten Dichalcogenides-based composites.	UGC-DAE CSR, Kolkata	6.79 lac.	3 years (2019-22)	Dambarudhar Mohanta
Neutrino Astrophysics with next generation Water Cherenkov Detectors	DST-SERB, India	3090494	3 years	PI: Sovar Chakraborty (Deptt. of Physics, IIT Guwahati) Co-PI: Moor Moon Devi
R&D for probing neutrino properties with hyper-kamiokande detector	DST-JSPS	ТВА	2 years	Indian PI: Dr. Moon Moon Devi Japanese PI: Prof. Takashi Kobayashi High Energy Accelerator Research Organization KEK, J-PARC Center
Spin Dynamics investigation and structural co-relation of the two-dimensional primary nanosystem	UGC-DAE- CSR	-	2022-2024	Prof. Pritam Deb
Realizing proximity effect in superconductor/semiconductor-ferromagnet van der Waals heterostructure	DST-SERB	32.5 lacs	2021-2023	Prof. Pritam Deb
Efficient oil recovery as conventional	Department of	15 lacs	2019-2022	Prof. Pritam

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energy using smart graphitic nanocomposite	Biotechnology, Govt. of India			Deb
A study on laser-driven ion acceleration from plasma target and generation of large-scale magnetic field in relativistic laser-plasma interaction	DST-SERB	25,56,400/-	17-01-2020 to 16-01- 2023	Prof. Nilakshi Das
Stability analysis of astrophysical complex plasma	DST-SERB	16 Lakhs Approx.	4 years	Prof. Pralay Kumar Karmakar
Development of multimodal optofluidic prototype for sensing heavy metal ions	BIRAC	49.25 Lakhs	2021-2023	Dr. Rajib Biswas
Unravelling the trivalent ion electrochemistry of niobium and bismuth based chalcogenides and understanding the electrochemical mechanism by X-ray photoelectron spectroscopy for aluminum based energy storage devices	UGC DAE	213000	2022-2023	Dr. S.K. Das

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Das, P., Das, M.K., and Khan, N (2022). Five-zero texture in neutrino-dark matter model within the framework of minimal extended seesaw. *Nuclear Physics B*, 980: 115810
- Boruah, B.B., Das, M.K. (2022). Neutrinoless double-beta decay and lepton flavor violation in discrete flavor symmetric left-right symmetric model, *International Journal of Modern Physics*, 37(6): 2250026
- Das, P., Das, M.K., Khan, N. (2022). The FIMP-WIMP dark matter in the extended singlet scalar model. *Nuclear Physics B*. 975: 115677
- Das, P., Das, M.K., Khan, N. (2021). FIMP DM in the extended hyperchargeless Higgs triplet model. *Physical Review D*. 104(9): 095026
- Gautam, N., Das, M.K. (2021), Impact of texture zeros on dark matter and neutrino less double beta decay in inverse seesaw. *Nuclear Physics B*, 971: 115519
- Gautam, N., Krishnan, R., Das, M.K. (2021). Effect of Sterile Neutrino on Low-Energy Processes in Minimal Extended Seesaw With Δ (96) Symmetry and TM1 Mixing. *Frontiers in Physics*, 9: 703266
- Boruah, B.B., Sarma, L., Das, M.K. (2021). Lepton flavor violation and leptogenesis in discrete flavor symmetric scotogenic model. *Nuclear Physics B* 969:115472
- Lalung, M., Phukan, P. and Sarma, J. K. (2021). On analytical solutions of proton's structure functions in the framework of GLR–MQ-ZRS equation, *Results in Physics*, 28: 104551
- Abe, K., ..., Devi, M.M., Medhi, A., ... (2021). Supernova model discrimination with Hyper-Kamiokande. *The Astrophysical Journal* 916(1), 15
- M. Talukdar and P. Deb (2022), Recent progress in research on Multifunctional Graphitic Carbon Nitride: An emerging wonder material beyond catalyst. *Carbon 192*
- K. Baruah and P. Deb (2022), Enabling methanol oxidation by interacting hybrid nano system of spinel Co3O4 nanoparticles decorated Mxene. *Dalton Transactions 51*
- M. Talukdar, S. K. Behera, S. Jana, P. Samal and P.Deb (2022), Band alignment at heterointerface with rapid charge transfer supporting excellent photocatalytic degradation of Methylene Blue under sunlight. *Advanced Materials Interfaces 9*
- K. Baruah and P. Deb (2021), Electrochemically active site-rich nanocomposites of two-dimensional materials as anode catalysts for direct oxidation fuel cells: new age beyond rapheme. *Nanoscale Advances 3*

- S. K. Behera, M. Ahalawat, S. Jana, P. Samal and P.Deb (2021), Renormalization group analysis of weakly interacting van der Waals Fermi system. *Journal of Physics: Condensed Matter 33*
- B. Baruah and P. Deb (2021), Performance and application of carbon-based electrocatalysts in direct methanol fuel cell. *Materials Advances 2*
- Hota J., Shah Z., Khatoon R., Misra R., Pradhan A.C., Gogoi R. (2021). Understanding the X-ray spectral curvature of Mkn 421 using broad-band AstroSat observations, Monthly Notices of the Royal Astronomical Society, Volume 508(4): 5921–5934
- Khatoon R., Prince R., Shah Z., Sahayanathan S., Gogoi R. (2022). Temporal and spectral study of PKS 0208–512 during the 2019–2020 flare, *Monthly Notices of the Royal Astronomical Society*, 513(1), 611–623
- Haloi, A., and Karmakar, P.K. (2021). Astromodal wave dynamics in multifluidic structure-forming cloud complexes. *Pramana- Journal of Physics*, 95:1-12
- Kalita, D., and Karmakar, P.K. (2021). Adapted instabilities excited in spherical magnetized viscoelastic astroclouds with extreme dust-fugacity moderations. *European Physical Journal Plus*. 136:1-25
- Kalita, D., and Karmakar, P.K. (2021). Jeans instability in non-ideal MHD plasma clouds with geometric curvature effects. *IEEE Transactions on Plasma Science*, 49(7), 2042-2047
- Dasgupta, S., and Karmakar, P.K. (2021). Propagatory dynamics of nucleus-acoustic waves excited in gyrogravitating degenerate quantum plasmas electrostatically confined in curved geometry. *Scientific Reports*,11:1-12
- Nag, A., Devi, K., Paul, J., and Karmakar, P.K. (2021). Effect of levitated dust kinetics in the dynamic evolution of inhomogeneous plasma sheath. *Chinese Journal of Physics*, 73: 213–223
- Dutta, P., and Karmakar, P. K. Instability dynamics in gyrogravitating astroclouds with cosmic moderation in non-ideal MHD fabric. *Pramana- Journal of Physics*, 95: 1-12
- Sarma, P., and Karmakar, P.K. Nonlinear dynamics of structure formation in protoplanetary disks. *Chinese Journal of Physics*, 74: 9-19
- Dasgupta, S., and Karmakar, P.K.(2022). Relativistic ion-acoustic waves in electrospherically confined gyromagnetoactive quantum plasmas. *Chinese Journal of Physics*, 76: 299-309
- Bhagawati, A. and Das, N. (2021). Laser-accelerated protons using density gradients in hydrogen plasma spheres. *Journal of Plasma physics*. 87(4): 905870413
- Dutta, B., Bezbaruah, P., & Das, N. (2021). Magnetized wake driven anomalous diffusion in complex plasma. *Physics of Plasmas*, 28(8), 083703.
- Dutta, B., Sarma, H., Bezbaruah, P., & Das, N. (2022). Tunable rheological rapheme of magnetized complex plasma. *Physics Letters A*, *438*: 128110
- Bhagawati, A. and Das, N. (2022). Effect of density gradients on the generation of a highly energetic and strongly collimated proton beam from a laser-irradiated Gaussian shaped hydrogen microsphere. *Physics of Plasmas.* 29(5): 053107
- Bora, N., Biswas, R., and Srinivassan, V. (2021). CodaQback- A simplified Python Code facilitating auto-windowing for estimating Seismic Coda attenuation parameter. *International Journal of Geotechnical Earthquake Engineering*, 12(1): 1-11
- Paul, D., Biswas, R., and Saikia, G. (2021). Multiple Material Domain based Computational tools for Ease Assessment of Modal Parameter in Photonic Crystal Fibers. *International Journal of Communication Systems*,
- Paul, D., and Biswas, R. (2021). Influence of probe geometry of optical fibers in sensing volatile liquids through localized surface raphem resonance. *IEEE Transactions on Nanotechnology*, vol. 20, 69-74, 2021

- Boruah, B.S., and Biswas, R. (2021). In-situ sensing of hazardous heavy metal ions through an ecofriendly scheme. *Optics & Laser Technology* 137: 106813
- D. Paul, R. Biswas and S. Dutta, Optical fiber-based localized surface raphem resonance for volatile liquid sensing for different probe geometry, Micro and Nano Technologies, in Handbook of Nanomaterials for Sensing Applications, https://doi.org/10.1016/B978-0-12-820783-3.00020-8, 191-201
- Biswas, R. (2021). Can Wood Replace the Constituent Material of Optical Fiber? JOJ Wildl. Biodivers, 3(5):002 555625
- Biswas, R., Bharali, N, and Neog, A. A Novel Route towards Sustainable Synthesis of Graphene. *Letters in Applied NanoBioScience*, 10(4), 2760–2765
- Biswas, R. (2021). Covid-19 and race for rapid diagnosis. *J Bacteriol Mycol Open Access*. 9(2):54–55
- Neog, A., and Biswas, R. (2021). Exfoliated WS2 nanosheets as a potential candidate towards sensing heavy metals: a new dimension of 2D material. *Material Research Bulletin*. 144: 111471
- Biswas, R. (2021). BIG Data Analytics: A boon for SMART Healthcare. *International Journal on Engineering Technologies and Informatics*. 2(1):15–16
- Biswas, R. (2021). Engineered nanoparticles eluding bacteria to obliteration. Int J Biosen Bioelectron, 7(4):102–103
- Biswas, R., Saha, D., and Biswas, S. (2021). Novel ethanol sensing via clad modified fiber with SnO2:CuO with wireless adaptability. *Appl Nanoscience* 11, 2617–2623
- Biswas, R. (2021). A brief review of the recent Assam Earthquake. *Phys Astron Int J*, 5(3):90–91.
- Biswas, R. (2021). Catheter like in vivo fiber optic probe for rapid diagnosis of SARS-CoV-2, *Results in Optics*, 5:100180
- Neog, A., Das, P. & Biswas, R. A novel green approach towards synthesis of silver nanoparticles and it's comparative analysis with conventional methods. *Appl. Phys. A* 127: 913
- Biswas, R. (2021). Magnetic Heating and Anti-Cancer Nonmagnetic Nano Systems. *Biomed J Sci & Tech Res*, 38(1)
- Biswas, R. (2021). Variants of SARS-Cov-2: a cause of concern. J Bacteriol Mycol Open Access, 9(4):150-151.
- Barman, C., Neog, A., Biswas, S., Biswas, R. A Preliminary Investigation Towards Detecting Heavy Metal Ions with a Cost-Effective Scheme. *Letters in Applied NanoBioScience*, 11 (3), 3822 3825
- Paul, D., and Biswas, R. (2022). Clad modified varying geometries of fiber optic LSPR sensors toward detection of hazardous volatile liquids and their comparative analysis, *Environmental Technology & Innovation*, 25: 102112
- Biswas, R. (2022). Outlining Big Data Analytics in Health Sector with Special Reference to Covid-19. *Wireless Pers Commun*, 124(3), 2097–2108
- Bora, D.K., Singh, A.P., Borah, K., ..Biswas, R. (2022). Crustal Structure Beneath the Indo-Burma Ranges from the Teleseismic Receiver Function and Its Implications for Dehydration of the Subducting Indian Slab. *Pure Appl. Geophys.* 179, 197–216
- Bora, D.K., Mukherjee, P., Singh, A.P., Borah, K., and Biswas, R. (2022). Source parameters and scaling relations for small to moderate earthquakes in the Indo-Burma Ranges, North-east India, and its seismotectonic implications, *Geological Journal*. 57(2), 863–876
- Neog, A., Biswas, R., and Bharali, N. (2022). A novel electrochemical synthesis of rapheme oxide: Converting waste product to utility, *IOP: EuroPhysicsLetters* 137(1): 16001
- Nandi, S. Das, S. K. (2021) An electrochemical study on LiMn₂O₄ for Al³⁺ ion storage in aqueous electrolyte. *Phys. Chem. Chem. Phys.*, 23, 19150-19154

- Aideo, S.N., and Mohanta, D. (2021). Unusually diverse surface-wettability features found in the wings of butterflies across Lepidoptera order and evaluation of generic and vertical gibbosity-based models. *Physica Scripta*, 96:085004
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- Ansari, A., Mohanta, D., and Saha, A. (2021). Exploiting valence band mapping and select bluegreen and red phosphorescence decay of γ -irradiated nanoscale Eu³⁺: Gd₂O₃ below concentration quenching. *Optical Materials*, 122:111627. DOI:10.1016/j.optmat.2021.111627
- Singha, N., Das, M.K., Ansari, A., Mohanta, D., and Rajamania, P. (2021). Biogenic nanosized gold particles: Physico-chemical characterization and its anticancer response against breast cancer. *Biotechnology Reports*, 30:e00612. DOI:10.1016/j.btre.2021.e00612
- Ansari, A., Dey, S. and Mohanta, D. (2022). Significant red-luminescence from citrate-gel and hydrothermally derived nanoscale Eu³⁺: Gd₂O₃ with alkali metal ion (Na⁺, K⁺) co-doping. *Bulletin of Materials Science*, 5:21. DOI:10.1007/s12034-021-02592-2.
- Medhi, A., Baruah, S., Singh, J., Betty, C.A., and Mohanta, D. (2022). Au nanoparticle modified GO/PEDOT-PSS based immunosensor probes for sensitive and selective detection of serum immunoglobulin g (*IgG*). *Applied Surface Science*, 575:151775. DOI:10.1016/j.apsusc.2021.151775.
- Deka, B., Mohanta, D., and Saha, A. (2022). Featuring exfoliated 2D stacks into fractal-like patterns in WS₂/carboxy methyl cellulose nanocomposites. *Surfaces and Interfaces*, 29:101727. 10.1016/j.surfin.2022.101727

Publication of Book Chapters

- Korobi Konwar, Pritam Deb. (2021). A review on soft computing techniques in nanomagnetism and its impact on biomedical applications. In *Soft Computing Techniques in Engineering, Health, Mathematical and Social Sciences*, pages 33-46, ISBN: 1000409813, 9781000409819. CRC Press.
- Rohaan Deb and P. K. Karmakar. (2021). A new simplistic equation of a macroscopic equilibrium state for degenerate neutron stars. In *An introduction to molecular clouds*, pages 13-26, ISBN: 978-1-53619-178-3. Nova Science Publishers
- Rohaan Deb and P. K. Karmakar. A new P® relationship for stellar structures. In *An introduction to molecular clouds*, pages 27-40, ISBN: 978-1-53619-178-3. Nova Science Publishers
- Rajib Biswas. (2022), A Brief Appraisal of Machine Learning in Industrial Sensing Probes. In *Machine Learning in Industry*, pages 83-96. Springer. Cham
- Rajib Biswas and Sankar Biswas. (2022), Diatom assisted SERS. In Eds N. Mazumder and R. Gordon, *Diatom Spectroscopy*, Ch 9, ISBN: 978-1-119-71155-1, Wiley.
- Rajib Biswas. (2022), A Brief Appraisal of Blockchain-Assisted Secured Healthcare. In M Dutta Borah, R. Moro-Visconti, G.C. Deka, *Prospects of Blockchain in Digital Healthcare*, Ch 5, ISBN: 9781003133179, CRC Press.

Publication of Articles in Conference Proceedings

- Das, P., Das, M.K. (2022). KeV sterile neutrino mass model and related phenomenology. In *TiMP* 2021, volume- 265, pages 167-172, Assam Don Bosco University, Assam, India, Springer Link
- Gautam, N., Das, M.K. (2022). Impact of texture zeros of neutrino mass matrix on dark matter phenomenology. In *TiMP 2021*, volume- 265, pages 153-158, Assam Don Bosco University, Assam, India, Springer Link
- Sarma, L., Boruah, B.B., Das, M.K. (2022). Neutrinoless double beta decay in a flavor symmetric scotogenic model. In *TiMP 2021*, volume- 265, pages 217-222, Assam Don Bosco University, Assam, India, Springer Link

- Boruah, B.B., Das, M.K. (2022). Realization of left-right symmetric model by discrete flavor symmetries. In *TiMP 2021*, volume- 265, pages 285-291, Assam Don Bosco University, Assam, India, Springer Link
- Medhi, A., Dutta, D., & Devi, M. M. (2021, March-April). Exploring Scalar NSI Effects in Long Baseline Neutrino Experiments. In Beyond Standard Model: From Theory to Experiment (BSM-2021) March 29, 2021 to April 2, 2021, Cairo, Egypt.
- Medhi, A., Dutta, D., & Devi, M. M. (2021). Scalar Non Standard Interactions at long baseline experiments. In 37th International Cosmic Ray Conference, 12-23 July 2021 Berlin, Germany PoS ICRC2021 (2021), 1225.
- Medhi, A., Dutta, D., & Devi, M. M. (2022, March). Probing the effects of scalar Non Standard Interactions at Long Baseline Experiments. In The 22nd International Workshop on Neutrinos from Accelerators. 6-11 Sep 2021. Cagliari, PoS NuFact2021 (2022), 150.
- Sarker, A., Bhuyan, H., & Devi, M. M. (2022, March). Exploring environmentally induced decoherence effect on neutrino oscillation probabilities. In The 22nd International Workshop on Neutrinos from Accelerators. 6-11 Sep 2021. Cagliari, PoS NuFact2021 (2022), 210.
- Kashmiri Baruah, Pritam Deb, (2021). Nanocomposites of NiO/Graphene as Efficient Electrocatalyst in Fuel Cell. In *Proceedings of 28th National Conference on Condensed Matter Physics*, Springer Proceedings in Physics, SPPHY Volume 269, pages 211-216, Springer, Singapore.
- Khatoon, R., Shah, Z., Prince, R., Misra, R., Gogoi, R. (2021). Flux Distribution Study of Mkn 421 with SPOL, RXTE and Fermi-LAT Telescopes. In: Sengupta, S., Dey, S., Das, S., Saikia, D.J., Panda, S., Podila, R. (eds) Selected Progresses in Modern Physics. Springer Proceedings in Physics, vol 265. Springer, Singapore.
- Goswami P., Sinha A., Mankuzhiyil N., Misra R., Malik Z., Sahayanathan S., Chandra S., Gogoi R. (2021), X-ray emission study of extreme blazars using AstroSat, Proceedings of Science, 37th International Cosmic Ray Conference.
- A. Neog, R. Biswas. (2021), Optical Study of Liquid Dispersed Few-Layered WS2 Nanosheets, Springer Proceedings in Physics, pp. 243–249

Inventor(s)	Patent Title	Application/	Published/	Country
		Patent Number	Granted	
Rajib Biswas, Pritam Deb,	Development of multimodal	202131041315	Published	India
Nirmal Mazumder and	optofluidic system for sensing			
Soumyabrata Banik	heavy metal ions			
Pritam Deb, Monika	Device for sensing and collection	202131054965	Published	India
Sharma, Manas Chetry	of oil spill on water bodies.			
Pritam Deb, Monika	Smart Phone based remote	202131055185	Published	India
Sharma, Nitumoni Konwar	controlled device for collection of			
	oil from the oil spill on Land			

Publication of Patents

Conference/Workshop/Symposium/Seminar etc. Attended

Name of	Purpose of Attending	Title of Event	Date/ Period	Organizer and
Faculty/Staff				Venue
Member				
	Irradiation of material	CUPAC-NE Accelerator	24-01-2021	Cotton University
Dambarudhar	targets: Possibilities	Facility National Workshop		(Online mode)
Mohanta	and challenges			
Monanta	Radiation induced		16-07-2021	UGC-DAE CSR
	effects in layered			Kolkata (Online

	nanomaterials			mode)
	Nanodimensional 2D systems: Properties,	AICTE Training and Learning (ATAL) Academy	04-10-2021 to 08-10-2021	Department of Physics,
	challenges and future scope	Faculty, Development Programme (FDP) on Progress in Novel two dimensional Materials		Tripura University (Online mode)
	Layered nanostructures and irradiation effect: optical, electrical and mechanical properties	6 th International Conference on 'Nanostructuring by ion beams', (ICNIB 2021)	05-10-2021 to 08-10-2021	IoP Bhubaneswar and IUAC, New Delhi (Online mode)
	Biophotonic Coloration in Wings and Petals	3 rd World Congress on Lasers Optics & Photonics (WCLOP 2021)	16-11-2021	(Online mode)
	2D flakes of dichalcogenides and radiation impact	ICETNMST-2022	27-01-2022 to 29-01-2022	NIT Nagaland (Online mode)
	Optical and biophysical perspectives of nanoscale rare earth oxides	EMDT-2022	27-01-2022 to 28-01-2022	Satyabhama Univer sity (Online mode)
	Scope and challenges for studying optimistic 2D nanomaterials	Discussion meeting "Contemporary Aspects of Radiation Based Material & Chemical Sciences: The Macro, The Nano & The Lights"	28-01-2022	UGC-DAE CSR Kolkata (Online mode)
	Scope and journey of CMDAYS	PANE, (Organizing member and participant) Chairperson-Central Committee, CMDAYS 21	15-12-2021 to 17-12-2021 10-12-2021 to 12-12-2021	Tripura University (Online mode) Central University of Jharkhand
	Participation	Astrophysics and Space	12-12-2021 15 April, 2021	(Online mode) Belgium
	-	Research (CASR-2021)	•	C
Pralay Kumar	Participation	2 nd International Conference on Advances of Plasma Science and Technology (ICAPST-2020)	27-29 May, 2021	Department of Physics, Shri Shakthi Institute of Engineering and Technology, Shakthi Nagar, Coimbatore- 641062, Tamil Nadu
Karmakar	Participation	8 th International Conference on Astrophysics and Space Science (APSS-2021)	04-06 December, 2021	Sanya, China, during 04-06 December, 2021.
	Participation	7 th North-East Meet of Astronomers 2020 (NEMA- VII)	27-29 January, 2022.	Department of Physics, Rajiv Gandhi University, Rono Hills, Doimukh, Arunachal Pradesh- 791112

	Participation	3 rd International Conference	18-19	University of
		on Physics	February, 2022	Tarino, Tarino, Italy, Rome
Jugal Lahkar	Paper presentation	National Seminar on Recent trends in Physics Research	21-22 Feb,2022	Dept.of Physics, Manipur University
0	Paper presentation	National Symposium	1 march,2022	Dept.of Physics, Tezpur university
	Contributory talk	Beyond Standard Model: From Theory to Experiment (BSM- 2021)	29.03.2021 to 02.04.2021	The Center for Fundamental Physics (CFP) at Zewail City of Science and Technology and Fa culty of Engineering and Natural Sciences at Sabancı University.(Online)
M.M. Devi	Contributory talk, poster	The 22 nd International Workshop on Neutrinos from Accelerators. 6-11 Sep 2021	06.09.2021- 11.09.2021	INFN, Cagliari, Italy (Online)
	Contributory talk	37 th International Cosmic Ray Conference	12.07.2021- 23.07.2021	International Union of Pure and Applied Physics, DESY Germany (Online)
	Contributory poster, Session Chair	National Conference on Emerging Trends in Physics- 2021 (NCETP-2021)	16.06.2021 – 17.06.2021	Tezpur University (Hybrid Mode)
	Session Chair	Northeast Astronomer's Meet-2021 (NEMA-2021)	27.01.2022 – 29.01.2022	Rajiv Gandhi University, Itanagar (Online)

Invited Talk

Name of	Title of the Talk	Title of the Event	Date	Organizer and Venue
Faculty				
Member				
	Statistical Methods in	VIRTUAL SCHOOL ON	31.08.2021	IISc, IIT Kanpur, IOP
	High Energy Physics	FLAVOR STRUCTURE	– 12. 09.	Bhubaneswar, IIT
	(3 lectures)	OF THE STANDARD	2021	Kharagpur (Online)
M.M. Devi		MODEL		
	Simulation of Water	School on Detector	26.10.2021	IUAC (Online)
	Cherenkov detectors (3	Simulation using Geant4	_	
	lectures)		29.10.2021	

Awards/Honours/Notable Achievements

Name of	Designation of	Achievement	Event/Awarded by
Awardee	Awardee		
Mrinal Kumar	Professor	Member, Governing Body,	Nominated position
Das		IUAC, New Delhi	
Rupjyoti Gogoi	Assistant Professor	Councilor, ASI	Elected position
Abinash Medhi	Research Scholar	IUPAP	37th International Cosmic Ray

		Young Scientist Awards Program for ICRC 2021	Conference
Abinash Medhi	Research Scholar		National Symposium on National Science Day, March 1, Department of Physics, Tezpur University.

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
NET	01	M.Sc.

Notable Placement of Students

Name of Student	Academic	Placement	Company/ Organization	Mode of
	Programme	Designation		Selection
Biswajit Dutta	M. Sc.	Assistant Professor	D.R. College, Golaghat (in 2021)	Off-Campus
Jyotismita Doley	M. Sc.	Assistant Professor	Suren Das College, Hajo (in 2021)	Off-Campus
Naba Kumar Kalita	M. Sc.	Assistant Professor	Suren Das College, Hajo (in 2021)	Off-Campus

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic Programme	Name of other Institute	Enrolled Academic Programme
Dhritishman Hazarika	Int. M.Sc.	University of Tubingen, Germany	M.Sc.
Mrinal Jyoti Powdel	Int. M.Sc.	ICTS-TIFR, Bangalore.	Int. Ph.D.
Debasish Dutta	Int. M.Sc.	IIT, Palakkad	M.Sc. programme
Devidutta Gahan	M.Sc.	University of Cagliari	Ph.D. programme

CENTRE FOR DISTANCE AND ONLINE EDUCATION

About the Centre

The Centre for Distance and Online Education (CDOE), rechristened as per the UGC (Open and Distance Learning Programmes and Online Programmes) Regulations, 2020, from "Centre for Open and Distance Learning" (CODL), was established in 2011 with the objective of disseminating knowledge and imparting quality education in the open and distance learning mode. As the UGC Regulations 2020 has been adopted at TU, online programmes too are being introduced at the earliest possible opportunity. Currently, the Centre offers various post-graduate, post-graduate diploma and certificate programmes in the emerging areas of social sciences, management and humanities with a flexible and learner-friendly teaching-learning system. The Centre strives to facilitate high-quality learning for those who cannot avail themselves of higher education in the conventional mode and those who look upon learning as a life-long activity. The academic programmes are carefully designed keeping in mind the need of the hour, and courses are updated regularly based on the feedback of stakeholders such as students, teachers, parents, academicians, and employers. Study materials are authored/edited by qualified and experienced faculty members and are made available to the learners so that they can devote their quality time to the focused areas of learning. In order to meet the aspirations of the learners, the Centre extends every possible support and guidance for which necessary infrastructure is in place. The Centre is committed to making education accessible to the masses and creating high-grade human resources in an affordable manner.

Academic Programme	Student Intake
MA in English	41
MA in Sociology	67
MA in Mass Communication and Journalism	17
Diploma in Human Resource Management	34
Diploma in Environmental & Disaster Management	10
Diploma in Child Rights and Governance	10

Academic Programmes and Student Intake

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
Assistant	Suchibrata Goswami	Ph.D, Dibrugarh University	American Literature, Life writing, Women studies	suchitu	09-08-2017
Professor	Madhusmita Boruah	Ph.D, Tezpur University	Advertising and Public Relations	madhu	03-12-2018
Guest Faculty	Dhriti Sonowal	M.Phil M.Phil, JNU	Social Stratification	dhritis	22-02-2021

Officers and Staff Members

Designation	tion Name <email>@tezu.ernet.in</email>		Date of holding the	
			current position	
Director	Rajeev K Doley	rkdoley, cdoedirector	29-09-2020	
Assistant Registrar	Partha Pratim Kalita	parthap	07-12-2017	
Office Assistant	Anita Ghosh	anitag_ta	31-12-2017	

Computer Operator	Kalpadroom Almanya	kalpa01	01-05-2019
MTS	Mohan Saikia	mohans2015	28-10-2020

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Boruah.M (2022). Sad that public space is now an intolerant battleground. In *VIDURA, A Journal* of the Press Institute of India, Volume 14, Issue 1, January-March
- Doley, Rajeev K. (2022). Tezpur University: The Educational Luminary in the North-East India. *University News:A Weekly Journal of Higher Education*, Volume 60, pages 15 – 17

Publication of Books

• Goswami, S. and Sarma, J. (2022) Intellectual Property Rights. Kalyani Publishers, Delhi.

Publication of Book Chapters

- Goswami, S. A. (2022). Journey from 'Defined' to 'Definer': The Politics of Memory in *Paradise*. In Das, N, editor, *Contours of Black Literature*, Volume -I, pages 119-129. ABS Books-Delhi 2022. ISBN 978-93-91002-95-4
- Doley, Rajeev K. (2021). Tabu Taid in the Making of Bhupen Hazarika's Miri Jiyori. In Borgohain, Homen, Neog, Milan, and Payeng, Sadananda, editors, *Mising Navajagoronor Utgata Asom Gaurav Tabu Taid*, pages 190 – 199, ISBN:978-93-82680-53-6. Anundoram Borooah Institute of Language, Art and Culture.

Publication of Articles in Other Forms

- Boruah. M (2022). Understanding geopolitics and India's role. *Assam Tribune*, Editorial page, dated 29/03/2022
- Boruah.M (2022). Media Education and National Education Policy, 2020. Assam Tribune, Editorial Page, dated 01/02/2022
- Goswami, S. E-Content Development and Copyright. Assam Tribune. 2488. Page 6, 2021 29/08/2021

Invited Talk

Name of	Title of the Talk	Title of the Event	Date	Organizer and Venue
Faculty				
Suchibrata	Intellectual Property	Celebration of	23-04-2021	IQAC, Furkating College
Goswami	Rights and Importance of	World Book and		
	Copyrights in Academics	Copyright Day		

Conference/Workshop/Symposium/Seminar attended

Name of Faculty/	Purpose of	Title of Event	Date/	Organizer and Venue
Staff Member	Attending		Period	
Suchibrata	Participated	NEP 2020: Changing role of	24-03-2022	STRIDE- IGNOU, New
Goswami		Teachers in Distance and	to	Delhi (Online)
		Online Learning'	26-03-2022	
Rajeev K. Doley	Presented	Webinar/Outreach on	19-04-2021	Fulbright India
		Fulbright-Nehru and other		Commission (Online)
		Fulbright Fellowships		
Rajeev K. Doley	Participated	Webinar on International Day	03-12-2021	Centre for Inclusive
		of Persons with Disabilities		Development, Tezpur

				University (Online)
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TEACHING LEARNING CENTRE

About the Cell

The Teaching-Learning Centre (TLC), Tezpur University, was formally inaugurated on January 28, 2016, as a Centre of Excellence for Curriculum and Pedagogy under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) scheme. The scheme was launched by Department of Higher Education, Ministry of Education (formerly MHRD), Govt. of India. TLC envisages developing and promoting a responsive and relevant teaching-learning system for higher education communities and contributing to excellence in teaching and learning as an innovative and resourceful Centre through reflective research-based practice and the optimal use of technology. Due to the unprecedented situation created by the COVID-19 pandemic, TLC had to switch to fully online training programs. Besides keeping in view the need of the teaching community, TLC conducted several ICT training programs to enable the teaching community for online teaching. TLC collaborated with 11 colleges of Assam to train their faculty members for ICT Based Pedagogy.

Altogether, the Centre conducted 24 online training programmes this financial year, including two refresher courses and two faculty induction programs. During this period, TLC,TU, trained more than 1900 teachers and prospective teachers from across the country. Through these programmes, TLC has provided assistance and support for promoting best practices in teaching-learning environment among higher education communities. The areas of focus of the activities are teaching-learning pedagogy, curriculum development, training on ICT-based pedagogy, assessment, and evaluation. Two interdisciplinary Refresher Course were also conducted during this period in online mode.

Major Facilities and Equipment available

• ICT LAB with 25 PCs

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
Director	Subhrangshu Sekhar Sarkar	PhD (Tezpur University)	Accounting, Taxation, Social Development	Subh	20-04-2021
Deputy Director	Bipul Kumar Sarmah	Ph.D (Tezpur University)	Theory of Partitions; Ramanujan Mathematics	bipul	31-12-2021
Assistant	Swapnarani Bora	Ph. D (Dibrugarh University)	Assamese and Cultural Studies	swapnabora	24-05-2016
Professor	Ikbal H. Ahmed	M. Phil. (Delhi University)	Philosophy and Education	<u>ikbal</u>	02-06-2016

Faculty and Staff Members

Publications by Faculty and Staff Members Publication of Articles in UGC-CARE Listed Group I/Group II Journals

• Bora, Swapnarani. (2022). Cutter-wardor xobdokox aru dugoraki missionary mohila. *Satsori*, 17(9):83-90

Publication of Book Chapters

• Bora, Swapnarani. (2022). Tathya-projuktir madhyomere axomiya bhaxar xomriddhi. In *Anukhilan*, pages 49–56, ISBN:978-93-94095-45-8. Mahabir Publication, Dibrugarh.

Publication of Articles in Other Forms

- Ahmed, I. H.(2022). Animal Rights. In Applied Ethics, pp.157-172, IGNOU, New Delhi
- Ahmed, I. H.(2022). Truth and Validity. In Logic, pp.90-112, IGNOU, New Delhi
- Ahmed, I. H.(2022). Propositional Logic. In Logic, pp.298-327, IGNOU, New Delhi

Name of	Title of the Talk	Title of the Event	Date	Organizer and Venue
Faculty Member				
Swapnarani Bora	OER with special reference to Assamese language	Departmental Webiner on OER	16-06-2021	Department of Assamese, Kaliabor College (ONLINE)
	Mukto xikhyon xomol: Aahoron aru byobohar	Webiner on Open Educational Resources	19-06-2021	IQAC & Dept. of History, HPB Girls, College (ONLINE)
	Mukto xikhyon xomol: Aahoron aru byobohar	Webiner on Open Educational Resources	22-06-2021	IQAC & Dept of Assamese, Teok CKB College (ONLINE)
	Use of OER in Education	Webiner on Open Educational Resources	03-07-2021	IQAC & Dept of Assamese, Sapekhati College (ONLINE)
	OER and Digital Learning Platforms for Education	Seven-Day Online FDP on " Research Ethics and Academic Writings in Social Sciences"	01-07-2021	Dhakuakhana College in Collaboration with Department of Sociology, Dibrugarh University
	Use of OER with special reference to Assamese language	National Level Workshop on OER	01-06-2022	IQAC & Dept of Assamese, Gargaon College (ONLINE)
Ikbal H. Ahmed	E-Content Creation and Dissemination of Resources	Invited Talk for P.G. Students of Law	17-05-2021 18-05-2021	Department of Law, Tezpur University

Invited Talk

Conference/Workshop/Symposium/Seminar etc. Organized

Title of Event	Level	Date/Period	Mode of
			Conduct
Online Workshop on Use of ICT Tools for Effective Teaching	State	03-05-2021 to	Online
in Association with Gargaon College		07-05-2021	
Online Workshop on Use of ICT Tools for Effective Teaching	State	05-05-2021 to	Online
in association with Rangapara College		06-05-2021	
Online Workshop on Use of ICT Tools for Effective Teaching	State	10-05-2021 to	Online
in association with LTK College		11-05-2021	
Online Workshop on Use of ICT Tools for Effective Teaching	State	12-05-2021 to	Online
in association with Tihu College		13-05-2021	
Online Workshop on Use of ICT Tools for Effective Teaching	State	17-05-2021 to	Online
in association with Silapathar College		18-05-2021	

Online Workshop on Use of ICT Teels for Effective Teeching	State	21-05-2021 to	Online
Online Workshop on Use of ICT Tools for Effective Teaching	State		Onnne
in Association with S.B.M.S.College, Sualkuchi	Ct. t.	22-05-2021	
Online Workshop on Use of ICT Tools for Effective Teaching	State	24-05-2021 to	Online
in Association with IQAC, LOKD College	<u> </u>	25-05-2021	0.1
Online Workshop on Use of ICT Tools for Effective Teaching	State	27-05-2021 to	Online
in Association with IQAC, Sibsagar Girls College	<u>a</u>	28-05-2021	0.1
Online Workshop on Use of ICT Tools for Effective Teaching	State	31-05-2021 to	Online
in Association with IQAC, S. B. Deorah, College		01-06-2021	
Online Workshop on Use of ICT Tools for Effective Teaching	State	04-06-2021 to	Online
in Association with IQAC, Bhawanipur Anchalik College		05-06-2021	
Online Interdisciplinary Refresher Course on Curriculum and	National	07-06-2021 to	Online
Pedagogy		21-06-2021	
Weeklong Online Workshop(FDP) on Online Evaluation	National	22-06-2021 to	Online
Systems		26-06-2021	
Weeklong FDP in Assamese: Issues of Exclusion in Assamese	National	12-07-2021 to	Online
Literature		16-07-2021	
FDP on Intellectual Property Rights in Academic Excellence	National	12-07-2021 to	Online
		16-07-2021	
Weeklong Online Faculty Development Program on Emerging	National	26-07-2021 to	Online
Areas in Food Engineering and Technology		30-07-2021	
Weeklong Online Faculty Development Program on Emerging	National	26-07-2021 to	Online
Areas in Foreign Language Study		30-07-2021	
Online Monthlong Induction Training of Faculty	National	03-08-2021 to	Online
		02-09-2021	
FDP in Emerging Areas in Molecular Biology and	National	06-09-2021 to	Online
Biotechnology		10-09-2021	
Two Day Online Workshop on Use of ICT Tools in Teaching	State	14-09-2021 to	Online
Organized by TLC, Tezpur University in association with		15-09-2021	
NEF Law College, Guwahati			
Ten Day Online Self-Paced Workshop on ICT tools for	National	25-10-2021 to	Online
Effective Teaching and Learning		03-11-2021	
Online Interdisciplinary Refresher Course On Pedagogical	National	06-12-2021 to	Online
Innovations in Higher Education		20-12-2021	
Online Weeklong Faculty Development Programme On New	National	17-01-2022 to	Online
Trends in English Studies In collaboration with Department of		21-01-2022	
English, Tezpur University			
Online Faculty Induction Program	National	01-02-2022 to	Online
		01-03-2022 10	
Online Weeklong FDP on ICT tools for Effective Teaching and	National	14-03-2022 to	Online
Learning	1 varional	18-03-2022 10	
Louining		10-05-2022	

Distinguished Visitors

Name of the Visitor	Designation	Organization/Company	Date/Period
Ashis K Mukherjee	Director	IASST, Guwahati	17-05-2022

CENTRAL LIBRARY

About the Central Library

The Central Library, Tezpur University, was established in 1994 along with the establishment of the University. The Library is housed at the center of the University campus in an aesthetically built threestoried building occupying an area of 4734 sq m. The library aims to be an ideal University library in the region as well as in the country. Central Library has a diverse collection of over one lakh books and journals. The Library is modernized with an RFID system, automated with the KOHA Open source software, an integrated multi-user library management system that supports all its in-house operations. The library maintains the research publications in Knowledge Repository (Institutional Repository) and Theses & Dissertations in an Electronic form in an ETD server. The collection of the library covers the latest information resources on all areas of Engineering, Science, Management, Social Science and Humanities. The library provides access to its e-resources and databases in a remote access facility through INFED Shibboleth. The Central Library is member of INFLIBNET Centres and DeLCon; through these Consortia library can access e-resources and databases. The library is also a member of DELNET and utilizes its services. Library users can access book database, thesis, journal database, ejournals and other e-resources from any computer within the University campus. In addition, the library has facilities for remote access to OPAC and other e-resources. The Central Library is an invaluable resource for students, researchers, and faculties of the University. The library delivers innovative information products, services and programmes of the highest quality that are integrated with teaching, learning and research activities. The library occupies a unique place in academic and research activities of the university. The mission of the library is to support and supplement learning, teaching and research programmes.

Opening Hours: The Library is open from 9.00 am–1.00am midnight throughout the year.

Volume	Number	
Books	112928	
Books added during	3765	
Print Journals	91	
EBooks	361	
E-Journals	8700	
Back Volumes of Journals	10280	
Online databases	37	
Thesis	836	
Dissertations	1765	
Braille Collection	212	
CDs	2898	
VCDs	81	
VHS Cassettes	36	
Newspaper/Magazines	10	
Manuscripts	32	

Collections

Services

The Central Library provides the following services

- Self-issue/return of books with RFID system
- Remote access of Library e-Resources

- Book Bank Facility for EWS
- Reference Services.
- OPAC/WebOPAC /CD Lib. Catalogue
- EBooks (intranet/Internet).
- Current Awareness Service (Monday Morning, InfoJ, InfoGranth)
- New Arrival of Books
- Training cum Demo on Electronic Resources
- Online Renewal and Reservation of Books
- Photocopy Services
- Children Library Corner
- Library & Information Services to Outsiders on Request
- Research Support Services
- Plagiarism Check (Urkund/Turnitin)
- Document Delivery Services (DELNET, JCCC)
- Special services to differently able person.

Visitors

Visitor category	Student	Research Scholar	Faculty member	Staff	Outsider	Total
Average daily visitor (Physical)	359	37	15	5	2	418
Average Virtual Visitors						111

Events Organized

Title of Event	Level	Date/Period	Mode of Conduct
Oxford Scholarship Online	Local	29-05-2021	Online
A Guided Tour of the Taylor & Francis eBooks	Local	03-06-2021	Online
SAGE online resources awareness workshop	Local	02-06-2021	Online
Orientation on Pearson e-Library	Local	01-06-2021	Online
User Awareness Session - eBooks on Cambridge Core	Local	05-06-2021	Online

Officers and Staff Members

Designation	5		Date of holding the current position
Librarian	Dr. Mukesh Saikia	librarian	19-03-2012
Assistant Librarian	Mr. Jitu Mani Das	jmdas	25-08-2015
Information Scientist	Mr. Anuj Kumar Singh	anujsingh	31-03-2022
Professional Assistant	Mr. Dipak Sarma	dsarma	20-10-1995
	Mr. Anjan Gohain	anjang	11-04-2007
Semi-Professional	Mr. Dipak Kr. Gogoi	dkgogoi	09-02-2011
Assistant	Mrs. Monmi Choudhury	monmi	31-07-2012
Library Assistant	Mr. Rajesh Kr. Sharma	rajesh	09-02-2011
	Mr. Ijaz Ahmed	ijazah	16-09-2016
	Mr. Sourav Kr Mahanta	souravk	03-08-2018
Lower Divisional Clerk	Mr. Pinchu Basumatary	pinchu7	11-04-2014
Library Attendant	Mr. Mahendra Kr Nath	mknath	24-12-1994
Library Attendant	Mr. Manjit Tamuli	mtamuli	02-07-2012
MTS	Md. Derajuddin Ahmed	deraj	01-03-1996
MTS	Md. Ahmed ALi	ahmed	01-03-1996
MTS	Mrs. Kanaka Das	kanaka	01-01-2008

CENTRE FOR INCLUSIVE DEVELOPMENT

About the Centre

One of the University's objectives as enshrined in the Tezpur University Act, 1993, is "to educate and train manpower in an equal learning space". In line with the spirit of this objective, the Centre for Inclusive Development was established in 2013 as a training and development centre. The Centre plays a catalytic role in uplifting the underprivileged students of the University through education, training, engagement and counseling. The Centre makes efforts to identify the areas requiring intervention and takes appropriate measures to address the issues. The Centre also offers a two-semester academic programme named *P.G Diploma in Child Rights and Governance* (started in 2016 in partnership with UNICEF) both in the conventional mode and Open and Distance Learning mode. Additionally, the Centre reaches out to the community outside the University's periphery and extends support to the needy people, particularly children and youth, through resource sharing, intellectual support and counseling. The Centre envisions engaging itself in various activities required for development of the underprivileged people, particularly in north-east India, in the future.

Academic Programmes and Student Intake

Academic Programme	Intake
Post Graduate Diploma in Child Rights and Governance (Conventional Mode)	04
Post Graduate Diploma in Child Rights and Governance (ODL Mode)	10

Thrust Research Areas

• Child Rights and Governance

Major Facilities/Equipment available

- Computer Laboratory with 13 Desktop Computers
- Seminar Hall (80-seater)
- Multi-media projection system

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in</email>	Date of holding the current position
Professor	Rajeev Kumar Doley	Ph.D. (IITG)	Sociolinguistics	rkdoley	2014
Assistant Professor	Subbhrangshu Dhar	Ph.D. (VBU)	Social Work	Sdhar	2017
Guest Faculty	KrishnamoniBordoloi	LLM (GU)	Human Rights	krishnabordoloi123	2020

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in</email>	Date of holding the
			current position
Assistant Education Officer	Bhanu Panging Gogoi	bhanubj@tezu.ernet.in	2013
Multi-Tasking Staff	Mohan Saikia		2016

Publications by Faculty and Staff Members Publication of Articles in UGC-CARE Listed Group I/Group II Journals

• Doley, Rajeev K. (2022) Tezpur University: The Educational Luminary in the North-East India. *University News:A Weekly Journal of Higher Education*, 60 (Jan 10-16, 2022): 15 – 17.

Publication of Books

• Sarkar, A. K and Dhar, S. (2021). *Contextualizing Peace: Experiences of Contemporary India and Neighbouring Countries*. Manak Publications Pvt. Ltd. New Delhi.

Publication of Book Chapters

 Doley, Rajeev K. (2021) Tabu Taid in the Making of Bhupen Hazarika's Miri Jiyori. In Borgohain, Homen, Neog, Milan, and Payeng, Sadananda, editors, *MisingNavajagoronorUtgata Asom Gaurav Tabu Taid*. Pages 190 – 199. ISBN:978-93-82680-53-6. AnundoramBorooah Institute of Language, Art and Culture, Assam.

Conference/Workshop/Symposium/Seminar etc. Attended

Name of	Purpose of	Title of Event	Date/ Period	Organizer and Venue
Faculty/Staff	Attending			
Member				
Rajeev	Presented	Webinar/Outreach on Fulbright-	19-04-2021	Fulbright India
Kumar Doley		Nehru and other Fulbright		Commission (Online)
		Fellowships		
Rajeev	Attended	Webinar on International Day of	03-12-2021	Centre for Inclusive
Kumar Doley		Persons with Disabilities		Development, Tezpur
				University (Online)
Krishna	Participant	FDP on Intellectual Property	12-07-2021 to	Tezpur University
Bordoloi	_	Rights	16-07-2021	(Online F/N)
Krishna	Participant	Course Behavioral Remodeling	12-10-2021to	Electronics & ICT
Bordoloi		& Use of ICT for Classroom	19-10-2021	Academy and IIT
		Delivery of Teachers		Guwahati. (Online A/N)

Notable Placement of Students

	Academic Programme		L V	Mode of Selection
Student		Designation	Organization	
Joy Doley	PG Diploma in Child	Child Development	Government of	Off-Campus
	Rights & Governance	Project Officer	Assam	

COMPUTER CENTRE

About the Centre

The University has a well-equipped Computer Centre (CC) with the latest configured Desktop Personal Computers (PCs) spread over two units of laboratories supported by high-end servers and a host of the latest software packages. The resources procured through the CC are used mostly for computational & laboratory purposes and sometimes for skill tests, online interviews, workshops, etc. The Computer Centre (CC) serves the whole university with ICT services. It is the main ICT resource centre for the whole University. Computer Centre maintains and offers two well-equipped Computer Laboratories with modern computational capabilities. Computer Centre also serves as the support system for the University Community in the terms of Computing Hardware, Software and Network related activities. There is a constant endeavour to envisage better services under its umbrella. The campus-wide Local Area Network (LAN) is equipped with a 10Gigabit backbone and high-speed Switching Network Devices. Most of the components in its Local Area Network (LAN) are Internet Protocol (IP) based and therefore have its manageability mostly centralized.

Along with all departments, offices, hostels, facilities now residential apartments have been extended with WiFi facilities. Almost all Internet services like Email, WWW, Proxy, Software applications are fully hosted in-house with its own set of servers and storages and run on a 24x7 basis in a dedicated air-conditioned environment. Several applications developed in-house by the Computer Centre Staff are used extensively in automation of Administration, Academic Departments, and other user departments. Computer Centre has recently acquired HPC cloud-based infrastructure and modernized it with latest applications. The Computer Centre has a multifunctional 70-seater state-of-the-art Video Conferencing cum classroom facility for Online Meetings, Interviews, conferences, and Virtual Classes etc. Furthermore, a recording studio cum virtual classroom is also operational to aid in recording and preparation of audio/video lectures and conducting online classes of the University.

Programme	Student Intake
DOEACC 'O' Level Diploma	30
DOEACC 'A' Level Diploma	20

Academic Programmes and Student Intake

Thrust Areas of the Centre

The primary goal of the Computer Centre is to provide quality ICT services including computational and internet facilities to the University community. In addition to maintenance of computational infrastructure, the following services are supported by the Computer Centre:

- Email & Internet Services
- Credit/audit practical courses of different Departments
- Organizing practical sessions for various workshops and refresher courses of various Academic Departments.
- Organizing training programmes for the University Employees
- Assist Administration in selection and procurement of computing resources
- Providing maintenance services for computers/peripherals to the Faculty/Staff /Departments
- Maintaining and monitoring the Campus LAN
- Maintaining and monitoring various Internet Links
- System Administration, Network Administration, and monitoring of various servers Email, Web,

Application, Database, Proxy, Firewall, etc.

- Maintaining University Website and intranet portal
- Develop, procure, and maintain software for administration and other sections of the University
- Software maintenance Services
- Providing presentation assistance in the auditorium and conference halls
- EPABX system administration and maintenance
- IP CCTV Surveillance Management

Major Facilities/Equipment Available

Particulars	Hardware (Make/Model)	Qty
Video Conferencing System	Polycom 8000 Series	1
VoIP Telephony System in collaboration with BSNL	Clixxo series Server and Media	1set
and Clixxo Broadbands Pvt. Ltd.	Gateway	
Core Switch with 64 10G Ports	Cisco C6807-XL	1
Distribution Switch with 32 10GPorts	Cisco WS-C3850-24XS	16
Access Switches	Cisco WS-C2960X-24TD-L	80
	Extreme X350 48T	56
	Extreme X350 24T	19
	Allied Telesis AT-x510L-28GT	11
	Allied Telesis AT-x510L-52GT	3
	HP 2520G	9
Firewall	Huawei Eudemon 200E-X7	1
Router (NKN)	Cisco ASR 1000	1

Servers

Server Particulars	Hardware (Make/Model)	Operating System and Application Platform
Seconday Storage	HP StoreEasy 1650	Windows Storage Server 2012
Server		
Email cum DNS Server	Dell PowerEdgeR730xd	CentOS 6.4/ Sendmail, Bind
Proxy/NAT/Firewall Server	Dell PowerEdgeR730xd	CentOS 6.4/ Squid Proxy 4.0
Email Storage Server	Dell NX 3230	Windows Storage Server 2012R2
Proxy Storage Server	Dell NX 3230	Windows Storage Server 2012R2
Application Server	Dell PowerEdge 540	Windows 2019 Server/ xampp
Database Server	Dell PowerEdgeR740xd	Windows 2019 Server/ MySql
Oracle 10g Database	IBM/X3560	Windows 2008 R2 Server/Oracle10g DB
Video Streaming	IBM/X3650 +IBM/DS3524	Windows 2008 R2 Server/Adobe Media
Serverwith Storage		Server 5
Web Server	IBM/X3560	RHEL 6/Apache
Local Cloud Cluster	LENOVO /VX SERIES	VMware EXSI

Computer Terminals & Peripherals Available

Unit No	Unit Name/Location	Terminals & Peripherals
Unit-0	Central Computer Centre	Terminals = 60 (Core i5 /Windows 7 Pro./Windows 10
	(Academic Building -2)	Pro. Desktops) Scanner = 2, Projector =1
Unit-1	Computer Centre-Cluster-1	Terminals = 100 (Core i5 / Windows 10 Pro. Desktops)
	(SoE Complex)	Scanner = 1, Projector = 1

Software Subscriptions

Packages	Renewal Period
Microsoft Campus Agreement	Yearly
Kaspersky Total Space Security	Yearly

Officers and Staff Members

Designation	Name	<email></email>	Date of holding the
		@tezu.ernet.in	current position
Director	Nityananda Sarma	nitya	22-12-2020
Computer Engineer	Dhiraj Kumar Sarma	dhiraj	23-12-1999
Junior Programmer	Dipak Chandra Choudhury	dcc	27-08-2007
	Jamil Ahmed	Jamil	31-07-2018
Senior Technical Assistant	Abani Kumar Das	Abani	01-06-1998
	Niranjan Kumar Deka	niranjan	26-07-2018
Technical Assistant	Manjul Baruah	manjul	03-11-2004
	Prandeep Borah	prandeep	17-08-2012
	Raghvendra Choudhary	raghav	25-11-2016
	Milan Kumar Deka	milan16	16-08-2019

Other Significant Activities of the Centre

- Setting up and using G-Suite for education to cater the need of anLMS (mainly Google classroom, Google meet) for online teaching-learning activities from academic session Autumn 2020 onwards (Covid-19 time) and still being used along with physical classroom sessions. More than 5000 user accounts are active at present.
- To cope with pandemic and growing need to work from home, Computer Centre has started rolling out WiFi services to quarters of Teaching Staffs and Other Officials.
- Computer Centre has also stepped into world of cloud computing with installation of infrastructure
- A state-of-the-art recording studio cum virtual classroom is also built to aid quality Audio/Video teaching/learning experience both in online and offline mode.
- Other important services rendered by the Computer Centre are the Campus Telephony System and the Video Surveillance System which runs over the Campus's LAN. The Internet facility is being facilitated through the high performance 1Gbps link of National Knowledge Network (NKN). The *Campus Connect WiFi* Scheme of the MHRD has been operational since 2017 mostly covers academic complexes, administration, student hostels and student activity areas with a user base of 4300. The WiFi services under this scheme is fully maintained and managed by dedicated company engineers.

ENGINEERING CELL

About the Cell

The Engineering Cell of the university was established in March 1995. It is assigned the prime responsibility of developing and maintaining the infrastructure in the University campus, covering an area of about 262 acres of land. The following are the major duties and responsibilities entrusted on the Engineering Cell:

- Allotment and execution of construction projects involving civil, electrical, water
- supply and sanitary works.
- Maintenance and repairing of buildings and roads.
- Maintenance of power supply to the university campus.
- Maintenance of water supply to all the buildings including hostels and canteens.
- Preparing of agenda notes and writing minutes of Building Committee meetings.
- Maintenance and development of the University campus.

Construction Activities

The following construction activities were accomplished during 2020-21.

- Construction of RCC 3storied 180 capacity Girls Hostel
- Repairing of 02 nos. of Basketball court.
- Repairing of Lawn tennis court.

Work Done with Tender process

- Nine building projects which includes Academic Buildings & Hostels under HEFA funding is in construction stage under Assam PWD
- Renovation of Academic Building No. I & II
- Repairing and Restoration of damaged portion of Boundary Wall.

Power Supply

The Govt. of Assam has sanctioned 2 MW of power to Tezpur University. This power is released to the university by APDCL as per the load demand. Currently, the university is drawing 1500 KW (1.5MW) from the 132/33 KV Depota Grid Sub-Station of APDCL through a 13.50 KM long dedicated power line. This power is received at the university end through a 2 x 2.5 MVA, 33/11KV Sub-Station constructed by the university and is distributed through an 11KV H.T. Ring Main connected to 4 nos. of Sub-station of capacity 2 x 315 KVA, 11KV/0.433 KV located at peak load centers inside the campus. During 2019-20, the total hours of interruptions in supply of power to the university was 214.50 hours. Out of this maintenance shut down availed by the university was 18 hours, which was rather insignificant considering the present power crisis in Assam.

Solar Power

The University has 1MW capacity Roof top Solar panels installed at different locations within the campus. The electricity generated from solar is directly fed to the APDCL grid. This system resulted in reduction of electricity bill served by APDCL. The net saving in amount of electricity bill plus payment made to the Solar Company is about Rs. 39.86 lakh for the said year.

Water Supply

Four deep tube-well, each 102 meters deep, associated with submersible pumps were installed in the University campus to access ground water. The treatment plant consisting of aerator, flush-mixture, sedimentation tan, filter unit, chlorination, underground clear water constructed for proper treatment of raw water. Two overhead reservoirs (OHR) of capacity 3.0 lakh liter and 3.50 lakh liters were constructed to store treated water. Water from the OHR reaches the consumer points through a pipe-line network under the gravity flow. The present requirement of water in the university campus is more than 10.00 lakh liters per day. The demand is likely to increase with the increase of new Academic Buildings, Hostels and Residential Buildings. There was no instance of interruption in supply of treated water during the concerned year.

Designation	Name	Highest Qualification	<email></email>	Date of
		(Institute)	@tezu.ernet.in	holding the
				current
				position
Executive Engineer	R.R. Hazarika	BE (Civil)	rrhz	06-05-2011
Assistant Engineer	Jadav Ch. Nath	BTCM	jnath	21-01-2011
	Gobinda Kalita	Diploma in Electrical	gobinda	26-03-2012
		Eng.		
Junior Architect	Rashmi Dutta	Diploma in Architecture	rashmidh	16-02-1995
		Assistantship		
	Debasish Borkotoky	Diploma in Electrical	dborkataky	04-02-2002
		Eng.		
	Sapon Goswami	Diploma in Civil Eng.	sapon	06-05-2011
	Sailendranath Talukdar	Diploma in Electrical	sailen	01-05-2013
		Eng.		
Assistant	Dhiren Kr. Kalita	MĂ	dhiren	29-12-2017
Electrician	Pradip Nath	ITI	pradipn	01-03-1997
	Himanendra Khatanair	ITI	himan	19-03-2015
Pump Operator	Sanjay Dutta	ITI	sanjayd	12-02-2002
	Mriganka M. Das	ITI	mmdas	12-10-2015
Multi Tasking Staff	Tarani Das	X Pass	taranid	01-06-1995
	Prabhat Keot	VII Pass	parbhat	19-01-1995
	Mukul Ch. Handique	IX Pass	mukul	01-03-1998
	Mon Bahadur Chetry	VII Pass	mbchetri	01-01-1995
	Mohammad Ali	VIII Pass	mdali	01-01-2008

Officers and Staff Members

HEALTH CENTRE

About the Centre

The Health Centre of Tezpur University has been functioning since 1995. It provides health care services mainly to the students, faculty members, staff, their families, and involved with the University. At present, we have over 6000 beneficiaries.

Major Facilities/Equipment available

The Health Centre offers OPD services, and ten beds are available to provide initial care to indoor patients, including emergency cases. One Medical Officer is always available for 24hrs emergency duty. The cases requiring hospitalization are referred to the referral Hospitals at Tezpur. Ambulance service is available round the clock and is free of cost for students. There are three ambulances available at present, and one is specifically for PWD candidates to attend to their classes with a payment of a nominal charge. A stock of common medicines, including lifesaving drugs, is maintained, and is supplied free of cost. Routine laboratory investigations are also done. Additionally following equipment are available:

- An Autoanalyser (fully automatic)
- Hormone Analyser (Mini-Vidas)
- ECG
- X-ray
- Appliances for a person with disability.

OPD timings

Session	Morning	Evening
April to September	8.30AM to 12.30PM	4 PM to 6 PM
October to March	8.30AM to 12.30PM	3 PM to 6 PM
Saturdays and Sundays	10 AM to 12 NOON	

Visit by Specialists

The University has engaged Specialists of different disciplines (Paediatrics, Obstetrics and Gynaecology) who regularly visit the Health Centre on different days of the week for the benefit of the University community. A Clinical Psychologist is also regularly available on working days at the DSW office to provide counselling on stress-related problems. In addition, a Physiotherapist visits the Health Centre twice a week for offering physiotherapy to the differently abled students and other patients.

Officers and Staff Members

Name	Designation	Highest Qualification	Status	Date of holding the current position
J.S.Goswami	СМО	MBBS, DLO	Permanent	07-01-2008
R.Boro	MO	MBBS	Permanent	20-01-2021
B. Barman	MO	MBBS	Contract	27-08-2020
M. Rahman	Sr. Consultant	MD (Paediatrics)	Visiting	29-01-2008
Purnima Das	Consultant	MBBS, DGO	Visiting	18-11-2019
Utpal Bora	Physiotherapist	MPT	Visiting	16-09-2015
Asish P Bora	Clinical Psychologist	M.Phil. in Clinical Psychology	Contract	01-02-2022
Eliza H. Barla	Nurse	Diploma GNM	Permanent	10-01-2002

Tezpur University :: Annual Report 2021-22 (Health Centre)

Amrita Purty	Nurse	Diploma GNM	Permanent	07-08-2012
Pranab Baruah,	Pharmacist	D. Pharm.	Permanent	22-06-1998
Anuj Baruah,	Lab. Technician	BA, CMLT	Permanent	05-06-1998
Niramoni Das	Lab. Technician	Certificate in ANM	Permanent	31-12-2010
Hiten Debnath	Radiographer	DMRT	Contract	14-08-2013
Manoj K Saikia	MTS	10 th	Permanent	01-03-1996
Jiten Rajbongshi	MTS	9 th	Permanent	01-04-1997

Major Activities

- The Medical Officers visit the hostels and canteens to assess the overall hygiene of the dining hall and the drainage system of the surroundings to check for any outbreak of waterborne diseases.
- Fogging on the campus was done on 19-08-2021 to prevent any outbreak of mosquito-borne diseases.
- The Medical Officers regularly attended KV, TU as a VMC member and selection committee member to select Counsellor and Nurse.
- During Covid -19 Pandemic period, various suggestions and advices were given to the TU Covid-19 Task Force and patients.
- Pulse Polio Immunization camp was organized on the campus as per directive of the Govt. on 28-02-2022
- Covid -19 screening was done as per the direction of the district authority for the Tezpur University community and for guests who visited Tezpur University.
- Covid-19 Vaccination camps were held at Health Centre on 09-04-2021, 10-05-2021, 22-06-2021, 23-06-2021, 17-09-2021, and 25-09-2021 respectively.
- Blood donation camp was held at Health Centre on 19-02-2022 in collaboration with Indian Red cross Society and with assistance of Tezpur Medical College prior to the visit of Hon'ble President of India during convocation.
- A lecture was given to MCJ students by Dr. Rupom Boro, MO, regarding awareness activities for promotion of good health.
- Laboratory practical classes related to common blood tests were demonstrated by Mr. Anuj Baruah, Lab. Technician, Health Centre for the Integrated MSc. Students of MBBT dept. on 25-11-2021 & 26-11-2021.
- A lecture was given to women of nearby surrounding area related to maternal health & hygiene.

HORTICULTURE CELL

About the Cell

The Horticulture Section of Tezpur University is entrusted to carry out plantation, landscaping, and beautification activities inside the University campus. The Assistant Horticulturist of the Horticulture Section looks after the day-to-day landscaping and maintenance activities of the University with the guidance from the Campus Horticultural Committee with a faculty Coordinator. The annual horticultural activities during the concerned period were:

Plantation Programme

More than 1200 plant saplings of different species (like ornamental plants/shrubs, fruit trees and medicinal plants etc.) were planted in different parts of the University campus, which include the Administrative Building, Tezpur University Botanical Garden, Cafeteria, Guest House, Auditorium, Library, Additional plot, School of Engineering, School of Management Science, New water treatment plant, the Kendriya Vidyalaya, TLC Building, HSS Building, near University Entrance gate, *Citrus* garden I & II, along roads of residential area and other locations, through routine and special plantation program organized by the Horticulture Section on various events/occasions with active participation from university communities.

Maintenance of Plantations

Apart from the maintenance of gardens, all previously planted trees (like roadside and other plantations) in different locations of the University campus were regularly nurtured by cleaning, fertilization, and watering.

Maintenance of the Gardens and Landscape

In addition to new plantation drives and landscaping/beautification activates, all essential maintenance work (like lawn, hedge, existing plants/shrubs, growing of seasonal flowers) for previously developed flower and other gardens and other locations of the University campus were done regularly.

Maintenance of House Plant Pots for Indoor Decoration

Considering the different benefits of house plants, more than 1300 House plant pots were placed in the interior space of different Administrative offices and Academic building, Guest House, Library, Auditorium, VC's residence and other amenity centers for beautification, greenery and purifying air. Essential maintenance works of these house plants were carried out regularly.

Maintenance of Vermicompost Unit

A Vermicompost unit has also been running successfully to fulfill the need of organic manure for plantation/gardening work of the University. Vermicompost is produced entirely from leaf litters collected throughout the University campus. About 37 quintals of vermicompost was produced during the concerned year. Essential maintenance works of the Vermicompost Unit were carried out throughout the year.

Maintenance of the Departmental Nursery

The Horticulture section has a nursery, which is the source of seedlings of ornamental/avenue trees and shrubs, fruit trees, shrubs, valuable timber trees, indoor plants of different types and also some seasonal

flowers for the use of the University. It is located within the premise of the Botanical Garden. Essential maintenance works of the nursery were carried out throughout the year.

Other Activities

In addition to the above, cleaning (by jungle cutting) of different parts of University campus like surroundings of the Administrative Building, different Offices and Academic Buildings, the Library, the KBR Auditorium, the Guest House, the Chandraprabha Saikianee Bhaban, the Community hall, the Shopping Complex/Day Care Centre, the Children park, the Takshashilla Vidyapeeth, the Kendriya Vidyalaya, the Car parking area, and both sides of different roads, including boundary and footpath, were done from time to time.

Officers and Staff Members

Designation	Name	Highest	<email></email>	Date of
		Qualification		holding the
				current
				position
Faculty Coordinator	Satya Sundar Bhattacharya	PhD	satya72	25-09-2021
Assistant Horticulturist	Girindra Hazarika	MSc	girin	16-07-1997

SOPHISTICATED ANALYTICAL INSTRUMENTATION CENTRE (SAIC)

About the Centre

Instrumental methods of analysis are an indispensable aspect of research and development. Tezpur University has several departments and centres working in diverse areas that require sophisticated analytical equipment. Sophisticated Analytical Instrumentation Centre (SAIC), Tezpur University, has been set up to cater to these needs. The Centre extends these facilities not only to users in the university, but also to other educational institutions and industries in the north-east region and beyond, as many do not have the resources to procure and maintain such sophisticated instruments. The Centre also provides demonstration of instruments and their utility in different fields of research to the UG/PG students of colleges. The Centre was established in 2010 with two equipment, High-performance liquid chromatography (HPLC) and Gel permeation chromatography (GPC). Twenty-five types of equipment including Transmission electron Microscope (TEM), Scanning Electron microscope (SEM), Single crystal XRD, Powder XRD, BET (Surface and Pore size analyser), Raman Spectrometer, Fourier Transform Infrared Spectrometer (FTIR), Atomic absorption spectrometer (AAS), Nuclear magnetic resonance spectroscopy (NMR), and Bomb calorimeter are currently housed and maintained by SAIC. The centre also focuses on installing many sophisticated equipment like XPS, HR-MS, Confocal Microscope, etc. in the near future.

Equipment	Model	Date of
		Installation
Transmission Electron	Make: FEI Company, USA	22-10-2013
Microscope	Model: FEI 200KV TEM model Tecnai G2 F20 S-TWIN	
BET Surface Analyzer	Make: Quantachrome, USA	15-06-2011
-	Model: ASiQC0000-4	
Powder X-ray	Make: Bruker AXS, Germany	02-11-2012
Diffractometer	Model: D8 Focus	
Single Crystal X-Ray	Make: Bruker, Germany	04-07-2012
Diffractometer	Model: AXS SMART APEX-II	
High Performance Liquid	Make: Waters Corporation, USA	
Chromatography	Model No.: a. UV/Visible Detector-2489	
	b. Refractive Index Detector-2414 c. HPLC Pump-515	08-06-2011
Gel Permeable	Make: - Waters Corporation, USA	
Chromatography	Model No.: a. UV/Visible Detector-2489	
	b. Refractive Index Detector-2414 c. HPLC Pump-515	09-06-2011
Atomic Absorption	Make: Thermo Scientific, UK	18-09-2012
Spectrometer	Model: (a) AAS-ICE 3500	
Raman Spectrometer	Make: Renishaw, United Kingdom	12-10-2012
_	Model: inVia (514 Lase)	
Fourier Transform Infrared	Make: Perkin Elmer	29-01-1998
Spectrometer	Model No.: Spectrum 100	
CHN Analyzer	Make: Perkin Elmer, USA	24-09-2006
	Model No.: 2400 Series 2	
Thermal Analyzer (TGA-	Make: SHIMADZU(Asia Pacific)	26-05-2006
DSC)	Model No.:TGA-50 & DSC-60	
Nuclear Magnetic	Make: JEOL, Japan	08-04-2010
Resonance	Model: ECS-400	
Scanning Electron	Make : JEOL, Japan	18-11-2008
Microscope	Model: JSM 6390LV	

Major Facilities and	l Equipment available
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UV-Visible Spectrometer	Make: Shimadzu Corporation Japan Model: UV 2450,206-55672-34	13-06-2008
X-Ray Diffractometer	Make: Rigaku Corporation,Japan Model: MINIFIEX	18-10-2006

Conference/Workshop/Symposium/Seminar etc. Organized

Title of Event	Level	Date/ Period	Mode of
			Conduct
Training & Demonstration of TEM instrument	Local	29-03-2013 to	Offline
		30-03-2013	Omme
Presentation on Fast SAXS studies of Sensitive Biological samples	Local	08-06-2017	Offline
Advancement of Mechanical Measurement and Analysis	Local	27-11-2017	Offline
Technical Presentation on Small Angle X-Ray Scattering(SAXS)	Local	04-09-2018	Offline
system		04-09-2018	Onnie
RAMAN Spectrometer	Local	11-03-2019	Offline
Dynamic Light Scattering	Local	19-02-2020	Offline
Training on Analytical Instruments	Local	09-03-2021 to	Offline
		15-03-2021	Onnne

Officers and Staff Members

Designation	Name	<email></email>	Date of holding the
		@tezu.ernet.in	current position
Head	Prof. Pabitra Nath	pnath	2020
Technical Officer	Dr. Ratan Boruah	rboruah	2021
Technical Assistant	Prakash Kurmi	pkurmi	2012
	Nava Kr. Gogoi	navag	2010
	Tridip Ranjan Nath	trnath	2016
Multitasking Staff	Mohendra Das	mohen13	2018

PROGRAMMES ORGANISED BY TEZPUR UNIVERSITY

130th Birth Anniversary of Dr. B. R. Ambedkar: The birth anniversary of Bharat Ratna Babasaheb Dr. B. R. Ambedkar was celebrated on 14th April 2021 on the Tezpur University campus. Amid the ongoing Covid-19 situation, the day was observed with a short programme of offering floral tributes and distribution of sweets.

World Environment Day: The Dept of Environmental Science organised a One Day National Seminar on "Ecosystem Restoration" on World Environment Day. The Horticulture Section of the University also celebrated World Environment Day on 5th June 2021 by planting 23 plant saplings of different species on various sites on the University campus.

7th International Day of Yoga: Tezpur University observed the 7th International Day of Yoga on 21st June 2021 by organizing activities such as a video blogging contest on the topic "My Life My Yoga" (Jeevan Yoga) from 12th to 20th June 2020.

75th Independence Day: Owing to the Covid-19 pandemic, the University celebrated the 75th Independence Day with caution on 15th August 2021. Prof. V. K. Jain, Vice-Chancellor of the University hoisted the National Tricolour in the KBR Auditorium.

Fit India Freedom Run: The Fit India Freedom Run 2.0 was organized on 29th August 2021 in front of the KBR Auditorium. A good number of TU fraternity members participated in a Freedom Run organized during the event.

Hindi fortnight: The University observed the Hindi fortnight through online mode from 14th to 28th September 2021. Various competitions were organized during the occasion.

National Education Day: Department of Education celebrated National Education Day on 11th November 2021 to commemorate the birth anniversary of the first Education minister of Independent India Abul Kalam Azad. The department organized an online talk to commemorate the event.

152nd Birth Anniversary of the Father of the Nation Mahatma Gandhi and the 117th Birth Anniversary of Lal Bahadur Shastri, Former Prime Minister of India: Tezpur University celebrated the Birth Anniversary of the Father of the Nation and the Birth Anniversary of the former Prime Minister of India on 2nd October 2021 in front of KBR auditorium.

National Unity Day: To mark the birth anniversary of Sardar Vallabhai Patel, Tezpur University in collaboration with NSS Cell, NCC & TUSC, Tezpur University observed National Unity Day on 31st October 2021. Several cultural competitions were organized in online mode to commemorate the event.

72nd Constitution Day: Under the aegis of Azadi Ka Amrit Mahotsav the 72nd Constitution Day was celebrated by Dr. Ambedkar Chair, Tezpur University on 26th November 2021. A preamble reading session, a drawing competition and a public lecture were organised during the day.

Vigilance Awareness Week 2021: The University organised Vigilance Awareness Week 2021 to uphold the spirit of vigilance among the students, faculty members and non-faculty staff of the University. All employees were requested to take the integrity pledge on is where is basis.

66th Mahaparinirvana Diwas of Bharat Ratna Babasaheb Ambedkar: The University observed 66th Mahaparinirvana Diwas remembering Dr. B. R. Ambedkar on his death anniversary on 6th December 2021. The 7th Dr. Ambedkar Memorial Lecture was organized during the day.

Foundation Day: Tezpur University celebrated its 29th Foundation Day on 21st January 2022. Prof. T. G. Sitharam, Director, IIT Guwahati graced the occasion as the chief Guest and delivered the Foundation Day oration. Prof. Pulickel Ajayan, Benjamin M. and Mary Greenwood, Professor of Engineering at Rice University, Houston, Texas, USA also joined the event as Guests of Honour and delivered a talk.

Convocation: The 19th Convocation of the University was solemnised on 26th February 2022 with 1249 students graduating as B.Techs, M.Techs, M.As, M.Scs and Ph.Ds. His Excellency, the President of India, Shri Ram Nath Kovind graced the ceremony as the Chief Guest and delivered the Convocation address. His Excellency, the Governor of Assam & Chancellor of the University, Professor Jagadish Mukhi and Hon'ble Chief Minister of Assam, Dr Himanta Biswa Sarma, were also present at the ceremony and addressed the awardees.

Republic Day: Owing to the Covid-19 crisis, the University celebrated the 73rd Republic Day with great caution. Prof. V. K. Jain, Vice-Chancellor of the University, hoisted the National Flag at the KBR auditorium of the University. A craft project and essay writing competition were organized to commemorate the event.

"InSCIgnis" organised on the occasion of National Science Day: Tezpur University celebrated inSCIgnis, one of the biggest Science Fests of North East India, on the occasion of "National Science Day". Several events were organised with much gusto from 27th February to 1st March 2022.

International Women's Day: Dept of Law, Dept of Mass Communication and Journalism and the Dept of Social Work observed International Women's Day on 8th March 2022. Several competitions and lectures were organised during the day.

24th Annual Meet: The 24th Annual Meet of the University was organised from 5th to 20th March 2022. Several cultural, literary and sports competitions were organised during the event where the students of the University participated wholeheartedly.

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