

Placement Brochure 2023 - 24

Training and Placement Cell School of Engineering

Tezpur University



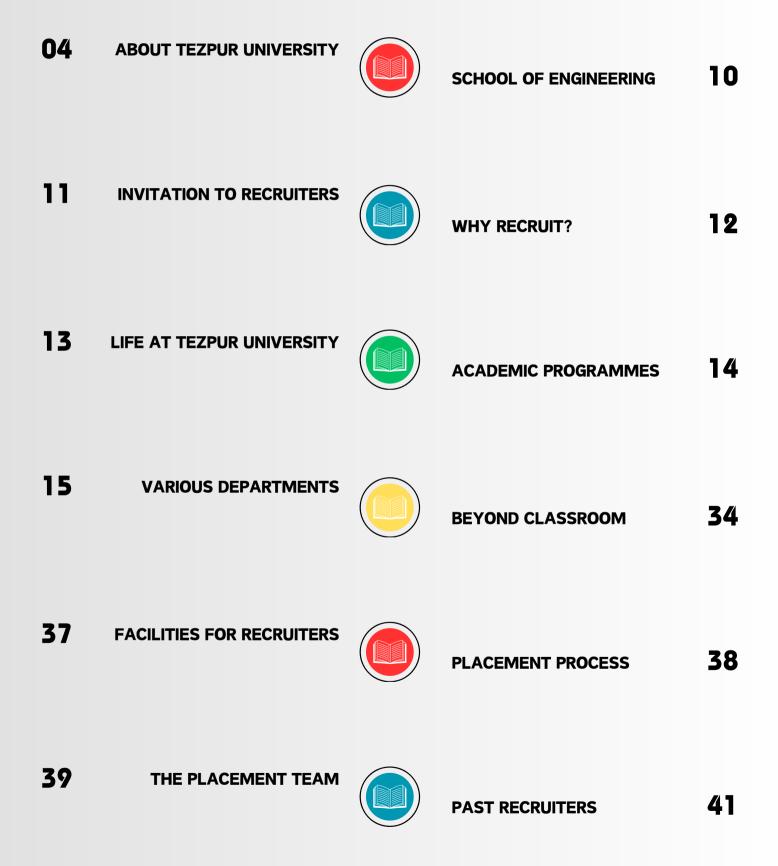
PLACEMENT CELL - SOE



🚺 We are here

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Contents



Vice Chancellor Tezpur University



Greetings!

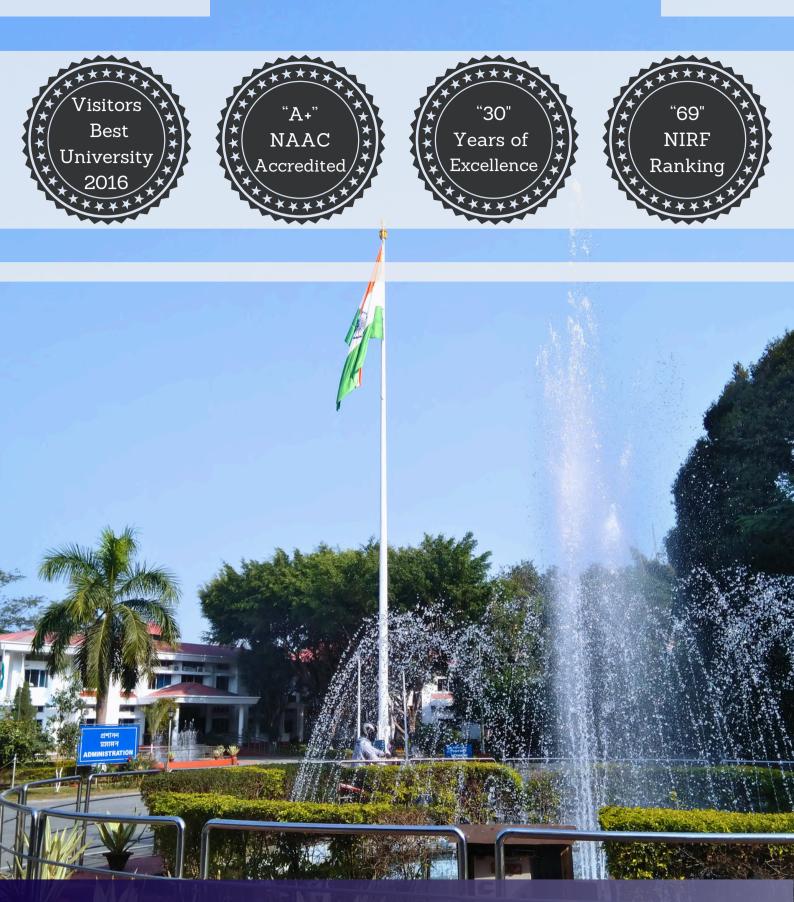
It is with great pleasure and pride that I welcome you to Tezpur University, where innovation, excellence and diversity converge to shape the leaders of tomorrow.

As the Vice Chancellor of this esteemed institution, I am privileged to witness the remarkable journey of our students as they evolve into professionals prepared to make meaningful contributions to society. At our university, we prioritize holistic development, experimental learning, critical thinking and ethical values. Additionally, we providestudents with opportunities to apply their knowledge in real-world settings through internships, research projects, and community service. We also take pride in our faculty who are not only experts in their respective fields but also dedicated mentors to our students. Their guidance ensures that our students are well-prepared to meet the challenges of the professional world.

As our students embark on the next phase of their journey, I encourage you to explore the infinite opportunities available through our placement programs. The Placement Cell at Tezpur University will collaborate with you to ensure that our students secure their dream placements and internships while also providing your organization with suitable students/professionals to move forward.

May this collaboration yield fruitful results in both placements and internships. Best wishes to all for yet another successful placement and internship season at Tezpur University.

(Prof. Shambhu Nath Singh) Vice Chancellor



About Tezpur University

A Central University

ESTABLISHED BY THE TEZPUR UNIVERSITY ACT OF 1993 AS A TEACHING AND RESIDENTIAL INSTITUTION, THE UNIVERSITY HAS BEEN SERVING THE COUNTRY, WITH A SPECIAL FOCUS ON THE NORTH-EASTERN REGION, FOR 30 YEARS. ACCREDITED WITH AN "A+" RATING BY THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL, IT IS RECOGNIZED AS ONE OF INDIA'S PREMIER HIGHER EDUCATION INSTITUTIONS (HEIS).

The UNIVERSITY, SITUATED AT THE HEART OF ASSAM, 200 KM AWAY FROM GUWAHATI, BOASTS A 262-ACRE CAMPUS, A LUSH SPACE THAT SYMBOLIZES ITS TRANSFORMATIVE EDUCATIONAL MISSION. FROM ITS MODEST BEGINNINGS OFFERING THREE ACADEMIC PROGRAMS, IT NOW OFFERS A DIVERSE ARRAY OF 69 PROGRAMS SPANNING THE SCHOOL OF ENGINEERING, SCHOOL OF HUMANITIES AND SOCIAL SCIENCES, SCHOOL OF MANAGEMENT, SCHOOL OF SCIENCES, AND THREE CENTRES.

Embodying its motto, 'Specialized Knowledge Promotes Creativity,' Tezpur University is committed to fostering creativity and excellence through flexible academic programs, innovative curriculum, and value-driven pedagogy. Its dynamic academic programs are constantly evolving to keep pace with global knowledge trends. Extracurricular activities hold equal importance, nurturing students for success in the competitive corporate world.

BENEFITING FROM THE SUPPORT OF DEDICATED ALUMNI AND ESTEEMED FACULTY, TEZPUR UNIVERSITY PROVIDES A NURTURING ENVIRONMENT CONDUCIVE TO HOLISTIC STUDENT DEVELOPMENT, EMPOWERING ITS GRADUATES TO TACKLE THE CHALLENGES OF THE FUTURE WITH CONFIDENCE AND COMPETENCE.

Dean, School of Engineering Tezpur University



It is my pleasure to know that the students of School of Engineering (SOE), Tezpur University have taken an important step to bring out a Placement Brochure highlighting academic infrastructure, industry-specific course curriculum, faculty information and their research. The course curriculum is designed and updated regularly to meet the needs of industries and employers with special input from industry experts.

It also emphasizes analysis and solving challenging technical problems and also imbibes the qualities. The State-of-the-art laboratories and dedicated faculty have contributed to the learning of our students, meeting the requirements of industries in today Global Market. The Placement scenario of Engineering are also improved over the year. We are glad to inform you that major recruiters from both PAN India and Global Giants have come for Campus Placement. We are happy to inform that our university has been placed among top 7 Higher Education institute (HEI) in India.

I appreciate hard work and efforts by the Professor-in-Charge, Deputy Director, students, and the staff of the Placement Cell of Tezpur University.

I wish all the students enrolled in School of Engineering, a bright future and appropriate employment and grand success in future Endeavors.

(Prof. Partha Pratim Sahu) Dean, School of Engineering

Chairman, Training & Placement Cell School of Engineering



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Dear Recruiters,

It is our proud privilege to extend our cordial invitation to your esteemed organization to participate in the Campus Recruitment program at our institute. Tezpur University was established by an Act of Parliament in 1994. However, in a very short spell of about 30 years Tezpur University has turned into a Center of Excellence in technical education to combat the growing need of technological professionals in India as well as in the world.

Our students have continuously been able to excel not only in their fields of study but also in cocurricular activities. Training and Placement Cell of Tezpur University gives support for the undergraduate students to undergo an eight-weeks training/internship in reputed organization & during the summer vacation in partial fulfilment of the recruitment of their B.Tech curriculum. The alumni of our institute are showing distinction in their respective positions.

We are also trying our level best to broaden their mindsets to create a positive attitude so that they can have all the qualities required to make them a part of any prestigious organization. At Tezpur University, we take care of grooming our students according to the needs of industry. So that they can easily adjust to the industry environment which is a mutual benefit to students and industry.

The Training and Placement Cell of Tezpur University has the required infrastructure like seminar hall, video conferencing facility, and excellent accommodation arrangement etc. to organize campus placement activities.

We invite esteemed organization to visit our campus for the recruitment. Your visit shall provide a platform to utilize technical knowledge and motivate young talent of our students to establish a synergetic interface. Besides we also invite the companies to take our third-year undergraduate students for summer training/internship.

It would be our proud privilege to welcome you to the on-Campus recruitment process that can be organized at Tezpur University.

And the

(Prof. Sankar Chandra Deka, FRSC) Chairman, Training & Placement Cell, SoE

Faculty In-charge, Training & Placement Cell School of Engineering



It is my pleasure to welcome you all to the School of Engineering, Tezpur University, Assam, India. The institute was established in the year 2006 and within this short span of period it has been able to carve a niche for itself in the academic scenario of the country. The institute has been playing a very significant role in creating competent professionals capable of taking leading roles in industry, academia and entrepreneurship. The academic environment in our university in general and School of Engineering in particular is among the best in the country. Recently the University has been ranked as the 20th University among the small Universities in the world. In a very short spell of about 30 years, Tezpur University has become a center of excellence in higher education and has been able to contribute to the growing need of competent professionals in India and abroad. Our students have continuously been able to excel not only in their field of academics but also in cocurricular activities.

Our curriculum and syllabi are regularly updated with inputs from various sources including Industry, alumni, and academic experts from India and abroad. Apart from providing placement supports to the students, the Training and Placement Cell of School of Engineering also supports the undergraduate students to undergo an eight-week training/internship in reputed organizations during the summer recess in partial fulfilment of the recruitment of their B-Tech curriculum. The alumni of our institute have been able to excel in various fields in their organizations.

Training and Placement Cell of Tezpur University was excellent infrastructure to organize campus placement activities. We sincerely hope that your esteemed organization will surely visit our campus for recruitment and assist to provide a platform to utilize the knowledge and innovative ideas of our highly motivated young students. I am quite confident that your organization will benefit by establishing a synergy with our university.

I sincerely invite you once again to visit our institute of higher learning and contribute towards our mission of developing human excellence and inculcate leadership through hard work and creativity.

(Dr. Ratul Kumar Baruah) Faculty In-charge, Training & Placement Cell, SoE

Deputy Director, Training & Placement Cell School of Engineering



It brings us immense pleasure to extend a warm and cordial invitation to participate in the Campus Recruitment Process at Tezpur University. We extend our sincere gratitude to all esteemed organizations for their relentless support in transforming Tezpur University into one of the world-class institutions.

Through our Industry-Academia initiative, we've enhanced the skills of students who have joined our institute through the Joint Entrance Examination (JEE). Tezpur University boasts of an "A+" accreditation from NAAC, with most Engineering disciplines NBA accredited. Our programs feature internships ranging from two months to one year, providing invaluable practical experience. Soft skill and technical grooming sessions, along with interactive training led by industry experts, enrich our students' capabilities.

Our focus extends beyond academic disciplines, aiming to instill qualities essential for industry and national success. The Student Placement Coordinators facilitate a seamless placement process, ensuring our graduates possess the competencies sought by global giants in both public and private sectors. Our technical departments actively engage in innovative R&D projects, fostering strong relationships with industry stakeholders.

The recruitment process for the batch of 2024 commenced in August 2023. We welcome our esteemed recruiters to our campus and offer infrastructure support for in-person or virtual recruitment activities, including online tests, interviews, and video conferences.

We look forward to a successful Campus Recruitment program and eagerly anticipate a mutually beneficial relationship with our recruiters.

(Dr. Pijush Chandra Das) Deputy Director, Training & Placement Cell, SoE

School of Engineering

School of Engineering, Tezpur University was established in 2006. School of Engineering has nine Departments. Applied Sciences(ASc), Civil Engineering(CE), Computer Science & Engineering (CSE), Electronics & Communication Engineering (ECE), Electrical Engineering (EE), Energy Technology (ENE), Design, Food Engineering & Technology (FET), Mechanical Engineering (ME) include various educational programmes offered by School of Engineering include Under Graduate (UG), Post Graduate(PG) and Ph.D programmes.

The School of Engineering has a dedicated T&P Cell housed in the Dean's building of the Engineering (SoE) premises with all the required infrastructure. It facilitates the process of placement of students besides collaborating with leading organizations and institutes to provide internship and training programs for the students.

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An Invitation to Recruiters

Dear Esteemed Recruiters,

Greetings from Tezpur University!

Tezpur University is situated at Tezpur in Central Assam (India) and was recently ranked among the 20th best small universities of 2018, published by Times Higher Education World University ranking on 3rd August 2018. The University is NAAC "A+" accredited and most of the Engineering programmes are NBA accredited. Our Computer Science and Engineering has been recognized as the Centre of Excellence by UGC for the period 2014-19. The University also ranked 5th among the top 100 universities by the MHRD-Institutional Ranking 2016. The Visitor's "Best University" Award 2016 (among the Central Universities) was also conferred on Tezpur University in 2016.

The School of Engineering, Tezpur University has established itself as a premiere institute of technical education in the country. A good number of our alumni have secured numerous challenging cum managerial high-paid positions in many prestigious organizations in India and abroad. The professionalism and abilities of our students are proficiently reflected in the appreciative feedback we receive from our recruiters from time to time. The numbers of students graduating in June 2024 along with other relevant information are mentioned herewith:

COURSE	BRANCH	NO OF STUDENTS
B.Tech. (Admission through JEE)	Electrical Engineering	29
	Computer Science & Engineering	59
	Electronics & Communication Engineering	64
	Mechanical Engineering	62
	Civil Engineering	65
	Food Engineering & Technology	26
M.Tech. (Admission through valid GATE score and TUEE)	Information Technology	12
	Civil Engineering (Geotechnical)	12
	Electronic Design & Technology	29
	Bioelectronics	6
	Mechanical Engineering	14
	Food Engineering & Technology	18
	Energy Technology	18
	Computer Science and Engineering	11
MCA (Admission through TUEE)	Computer Application	58
Master of Design (M. Des)	Design	5

The university has a well-equipped state-of-the-art facility for conducting campus recruitment drives with the placement activities for the session 2023- 2024 commencing from the 1st week of August 2023 and continuing till July 2024. We take pride in cordially inviting you/your esteemed organization to participate in our placement endeavour and look forward to welcoming you to our campus.

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Please visit www.tezu.ernet.in/TP ENGG

Academic Excellence:

Being in the **top 7%** of India's Higher Educational Institutions (HEI), the institute is recognized as a centre of academic excellence.

Research and Innovation:

Less than **30 years old** and the institute has already set many benchmarks in the field of R&D, which entirely has been made possible by its diverse pool of talents

Industry Interaction:

The institute maintains strong ties with industry through workshops, seminars, internships, and guest lectures, fostering a mutually beneficial relationship.

Diverse Skill Sets:

At Tezpur University, students from different backgrounds bring skills in tech, creativity & leadership. Recruiters can find candidates in diverse areas

Our Culture:

 Despite busy schedules, students enthusiastically join diverse extracurriculars, including competitions and festivals at university, national, and international levels.







Life at Tezpur University is meant to pique your curiosity and stimulate your intellect at every turn. In spite of the tight academic schedule followed by the students, they eagerly pursue various extra-curricular activities, ranging from inter hostel sports to national and international level competitions. This also includes the mess and hostel infrastructure facilities managed by the students, clubs and societies to promote technical, managerial and social well-being of the students.

There are a total of 14 (6 men's and 8 women's) hostels in the campus. All of them have necessary facilities like:

- 24 x 7 Campus Wi-Fi
- Clean
 Washrooms
- Bicycle Stand
- Laundry Rooms
- Indoor Games



Academic Programmes

Under the School of Engineering

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Bachelor of Technology (B.Tech)

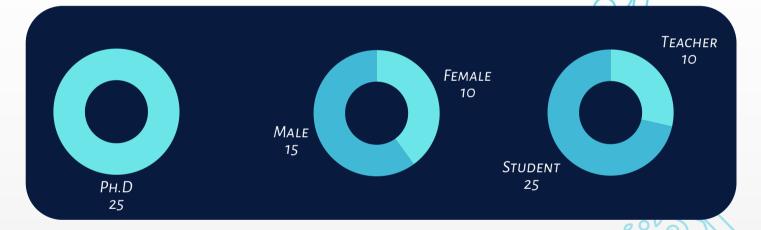
- Civil Engineering
- Computer Science and Engineering
- Electrical Engineering
- Electronics and Communication Engineering
- Food Engineering and Technology
- Mechanical Engineering



Master of Technology (M.Tech)/Master of Design (M.Des)

- Bioelectronics
- Computer Science and Engineering
- Design
- Data Science
- Electronics Design and Technology
- Energy Technology
- Food Engineering and Technology
- Civil Engineering
- Information Technology
- Mechanical Engineering

Department of Applied Sciences



About the Department:

The Department of Applied Sciences, one of the newest departments of Tezpur University, was established in 2019. It aims to provide high quality teaching of basic science subjects to engineering students. The department provides well equipped laboratory facilities to the students as a part of their curriculum. Their research interests encompass diverse areas of applied as well as fundamental sciences, spanning fields like astrophysics, condensed matter physics, materials chemistry, pure and applied mathematics. The faculty members are currently focused on establishing their own research groups to pursue research on their respective thrust areas.

Academics:

- Ph. D in Applied Mathematics
- Ph. D in Applied Physics
- Ph.D in Applied Chemistry

Facilities:

- Physics laboratory for UG and PG students
- Chemistry laboratory for UG and PG students

Research Activities:

- No. of papers published in the year 2022- 2023: 02
- No. of ongoing research projects: 02
- No. of current Ph.D. scholars: 05

Selected Publications:

- D. Chutia, R. Haloi, Weighted integral inequalities for modified integral Hardy operators, Bulletin of Korean Mathematical Society 59(3), 757 (2022).
- S. Mahata, B. K. Debnath, A profit maximization single item inventory problem considering deterioration during carrying for price dependent demand and preservation technology investment, RAIRO-Operations Research 56(3), 1841 (2022).
- Medhi, A., Dhar, A., Sarmah, K., Dutta, P., Haloi, D.J. Copolymers of Poly (butyl acrylate): Synthesis, Characterization and Compositional Analysis, Asian Journal of Chemistry, 2022, 34(4), pp. 912–916.
- Seth, S., Jhulki, S. Porous Flexible Frameworks: Origin of Flexibility and Applications Mater. Horiz., 2021, 8, 700–727.
- B. Mondal, P. K. Gogoi, Nanoscale hetero-structured materials based on metal oxides for chemiresistive gas sensor, ACS Applied Electronic Materials 4(1), 59 (2022).
- A. Nath, B. Sarkar, J. Roy, R. Misra, AstroSat observation of rapid Type-I thermonuclear burst from the low mass X-ray binary GX 3+1, Journal of Astrophysics and Astronomy, 43:93, 2022.

Events:

- National Webinar on Advances in Mathematical Modelling of Infectious Diseases, 31/08/2020
- 2-days International Conference on Emerging Trends in Pure and Applied Mathematics, 12-13 March 2022.
- 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 (Wednesday).
- Meet The IAU Astronomers! A One Day Online Astronomy Workshop with Interactive Session & Career Guidance for Young Aspirants, 22 April 2023.
- Invited talk on "Understanding Physics around Black Holes with General Relativistic Magnetohydrodynamics (GRMHD)", by Dr. Indu Kalpa Dihingia, Postdoctoral Fellow, Tsung-Dao Lee Institute, Shanghai Jiao-Tong University on 20th November 2023, at Dean's Gallery, School of Engineering, Tezpur University.

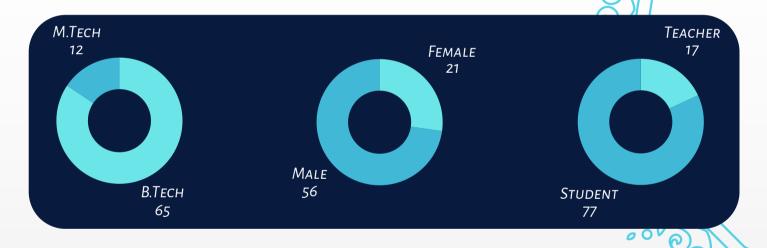
Sponsored Projects:

- Title: Investigation of the accretion flow properties of black hole binaries with AstroSat
 - Funding Agency/Description: ISRO Sponsored AO Proposal for Utilizing AstroSat Archival Data (No.DS_2B-13013(2)/2/2019-Sec.2)
 - \circ Duration: November 11, 2020– ongoing
 - PI: Dr. Biplob Sarkar
- Funding Agency/Description: SERB Start-up Research Grant (SRG/2020/001014)
 - \circ Duration: December, 2020- ongoing
 - Pl: Dr. Saona Seth



Department of Civil Engineering

NBA Accredited, AICTE Approved



About the Department:

The Department of Civil Engineering was established in the year 2009 under the School of Engineering with a B. Tech. programme. Ph.D. Programme was initiated in winter, 2010 and the M. Tech. programme of the department was started from Autumn, 2018. The Department aims to provide quality education, research and professional experiences that enable its graduates to become leaders in their professional careers, to pursue excellence in research and to serve the profession, community and nation, and to be competitive in the international scene.

Academics:

- B.Tech in Civil Engineering (4 Years)
- M.Tech in Civil Engineering (2 Years) [Specialization in Geotechnical Engineering]

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• Ph.D in Civil Engineering

Facilities:

- Departmental Laboratories-
 - Structural Engineering Laboratory
 - Geotechnical Laboratory
 - Hydraulics Laboratory
 - Environmental Engineering Laboratory
 - Transportation Engineering Laboratory
 - Surveying Laboratory
 - Computational Laboratory

Computational Facilities-

- MATLAB
- SIMULINK
- PLAXIS 2D
- AUTOCAD
- SAP 2000
- \circ ETABS version 9 etc.
- Advanced Instruments-
 - Triaxial Apparatus
 - Atomic Adsorption Spectrophotometer
 - \circ Universal Testing Machine etc.





Apparatus

Vernier Theodolite

Recent Developments:

- 2022- MoU with National Highways Authority of India (NHAI) for knowledge sharing, research, and student internships.
- 2022- Received Consultancy grant of Rs 50 Lakhs from Govt. of Manipur (In collaboration with Dept of Energy, Chemical Science and Environmental Science).

Departmental Consultancy:

- Total no. 441 since beginning
- Total revenue generated INR 1.01 Cr

Entrepreneurship:

- Mukesh Kumar 2010 -14 Established a consultancy firm "Sunshine Structures" in Noida known for Commercial Architects, Builders, Structural Engineers, Residential Builders
- Mahesh Agarwal 2010 -14 Established AGARWAL BUILDING DESIGN, an Engineering and Architectural Design, and Planning Consultant in the year 2017
- Vidya & Manjit 2011-15 Techsapphire Infra Consultants Pvt. Ltd., is a fast-growing company in the field of engineering consultancy services of Infrastructure projects.
- Chiranjib Borgohain 2014–18 Co-founded "Such A Dream", a real estate firm based in Assam.
- Sudhir Kumar 2015-19 Founded "Grocery on Door", a home delivery service for groceries during the COVID lockdown in his hometown Purnia in Bihar.

Recent Workshops/ Seminars:

- Site visit inside university campus on 27th January 2023. Photo (a)
- Workshop on "Application of Fibre Reinforced Polymer (FRP)" (1st March 2022). Photo (b)
- Workshop on Surveying (9th March 2022)



Site Visit (a)

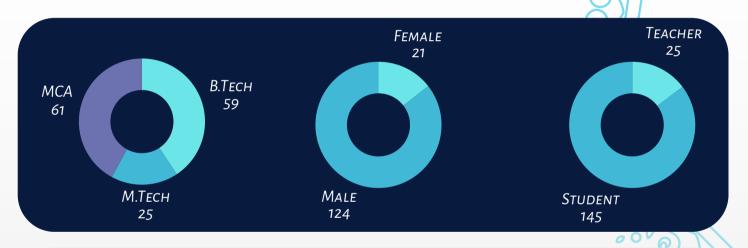




Workshop (c)

Department of Computer Science and Engineering

NBA Accredited, AICTE Approved



About the Department:

The department came into being in 2006 after the merging of The Department of Computer Science and the Department of Information Technology in 2004.

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). The department has also been recognized as ISEA member, MeitY,GoI and BRICS-NU Member.

Academics:

- B.Tech in Computer Science & Engineering (4 Years)
- M.Tech in Computer Science & Engineering/Information Technology/Data Science (2 -Years)
- Master of Computer Applications (3 Years / 2 Years)
- Ph.D in Civil Engineering

Facilities:

• High Performance Computing Centre (In Association with C-DAC) (Super Computer "PARAM SHAVAK")

Basic Laboratory-

- Basic Hardware Lab
- Basic Programming Lab
- Software Engg. Lab
- Mobile Computing Lab

• Research Laboratory-

- Big Data Analytics and Bio-Net Lab
- Cognitive Radio Network Lab
- Natural Language Processing Lab
- Malware and Network Security Lab
- IOT and Cognitive Robotics Lab
- ISEA Project Lab
- Embedded System Trainer Lab (8085 & Arm) Processor Based (2 Nos)
- IBM X3550 M3 Server
- Dell EMC S-4148-ON SDN switch

Research Projects:

- Development of Secured and Reliable Spectrum Allocation Schemes for Next-generation Elastic Optical Networks (2021 - 24)
 - Funding Agency MeitY, Govt. of India
 - Amount INR 86,31,624.00
 - Investigator Prof. N. Sarma. Co-Investigator Dr. S. K. Deka
- Developments of semantic-aware structure-preserving image filtering techniques (2021 24)
 - Funding Agency SERB
 - Amount 38,87,664.00
 - Investigator Dr. S Patra

Recent Workshops/ Seminars:

- MeitY Sponsored Two Day Workshop on "Recent Trends in Information Technology, Networking, Communication and Healthcare" March 2023 Photo (a)
- Workshop on Data Science and its Applications organized by Dept. of CSE, March 2023 Photo (b)



Workshop (a)



Workshop (b)



HPCC (Param Tez)

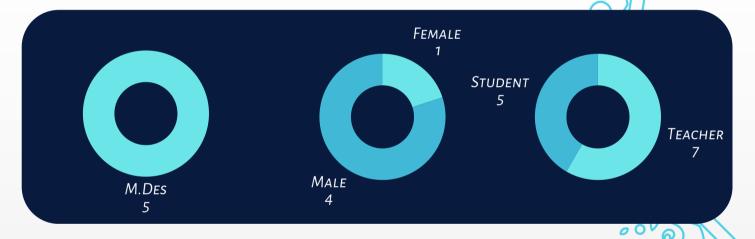
Departmental Achievements:

- Selected as a participating institute under the Ministry of IT's "ISEA" Project for 2015-20.
- Selected for setting up MHRD's Center of Excellence based on Machine Learning and Big Data Analysis, for 2014-19.
- UGC nominated the Department as a participant of BRICS Network University.
- The Dept is awarded DST-UKIERI Project on 'BCI as an Intelligent Sensor: BCI Integrated Collaborative Control of a Cognitively Enhanced Smart Wheelchair' in collaboration with the University of Essex, UK.

- Faculty Achievements:
 - Prof. D.K. Bhattacharyya has been included in the list of Тор 2% Scientists in Computer Sc. & Engg. (Al Domain) in the Globe published by Stanford University Professors in PLOS Journal in August, 2021.



Department of Design AICTE Approved



About the Department:

Tezpur University started the Department of Design under the School of Engineering, considering the importance of design aspects in the success of any product. Currently, the department is offering a Master of Design (M.Des) programme and design-based elective courses to the B. Tech. and M. Tech. Programmes. The department will start offering UG / PhD programmes on design in phases. The design department can add a new perspective to the design and innovation of various engineering products by adding a human-centric focus.

Academics:

- B.Des + M.Des Dual Degree (5 Years)
- Master of Design (2 -Years)
- Ph.D in Design

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Facilities:

- Digital Prototyping Studio
 - High-End Workstations, Creative Pen Displays (4K Res)
- Physical Prototyping Studio
 Having 3D Printers
- Communication Studio
 - DSLR Cameras, Tripods, Projectors, Scanners and Printers
- Product Development Workshop

Research Thrust Areas:

- Design methods
- Form Studies
- Design Education & Pedagogy
- Product Design
- Industrial Design
- Interaction Design
- Visual Communication Design
- Ergonomics

Recent Research Outcomes:

3D - Printing Setup



Digital Prototyping Studio

Notable Achievements:

- Best paper award (2022): Dr.Srinivasan G International Conference on Refrigeration and Air Conditioning (NCRAC) IIT Guwahati.
- Mr Ankit Basak (M.Des Student) won 1st place in the "Independent India Design Challenge" event organised by IIITDM Jabalpur in September 2021.

Placements and Internships:

- Our students are currently in various reputed organisations like TCS Pune, MEWT Bangalore, Medblue Innovations Pvt Ltd at SGPGI, Lucknow, SR Solutions Gurgaon, Delhi, IIT Bombay and IIT Guwahati.
- Harsh Mohan Shrivastava and Srinivasan G (2023). Design Process Issues and Concerns Observed While Improving Taylors Slate for Visually Impaired Students, Co-evolution of design research and design practice
 Implications of new methodological developments on future design processes, Indian Institute of Science, Bangalore - January 12.
- Verma S.K. and Punekar R.M. (2022). Gaining Insights into the Creative Process of Designing Nature Inspired Product Forms. International Journal of Technology and Design Education. Springer.
- Ankit Basak and Verma S.K. (2022). Understanding various factors affecting tea garden workers and their working conditions in a tea garden ecosystem: An exploratory study, 20th International Conference on Humanizing Work and Work Environment, Punjabi University, November 24 26.

Recent Workshops/ Seminars:

- Creative Creases An Introduction to paper engineering (5 6 Feb 2022) Photo (a)
- Problem Identification (1 2 April 2022)
- UI and UX: Ideation, Design, and Implementation Aspects (30 April 1 May 2022) Photo (b)



Creative Creases (a)



UI and UX (b)

Skill Set:

Our students have expertise in various design tools like -

- SolidWorks
- Fusion 360
- Keyshot
- Adobe Photoshop
- Illustrator
- Figma etc.

Department of Electrical Engineering AICTE Approved



About the Department:

The Electrical Engineering department started in 2014 with the B. TECH program. The prime motive 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 B.Tech. in Electrical Engineering. This programme aims at producing engineers with sound basic and applied knowledge in electrical engineering.

Academics:

- B.Tech in Electrical Engineering (4 Years)
- Ph.D in Electrical Engineering

Facilities:

- Basic Electrical Engg. Lab
- Measurement and Instrumentation Lab
- Electrical Machine Lab
- Power Systems Lab
- Control System Design and Simulation Lab
- Power Electronics and Drives Lab

Power Systems Lab



Electrical Machine Lab

Awards and Recognitions:

- Dr. Manashita Borah joined the University of California Berkeley, USA as a Post Doctoral Fellow, 2022-23.
- Dr. Anish Ahmad awarded with the IEEE Senior Member Award in 2021.
- Dr. Manashita Borah has won the Young Scientist Award, 2019 from the Department of Science and Technology (DST), Government of Assam, and presented by the Honourable Chief Minister of Assam, with a citation and cash prize of Rupees 1 Lakh only, on 5th March 2019.
- Dr. Manashita Borah won the Young Engineer's Award, 2018 Senior Engineers Forum, Institution of Engineers (IEI), Assam State Centre, presented by Padmashree awardee Dr. Uddhab Bharali, in 2019.

Sponsored Research Projects:

- Development of On-Board Hybrid Charging for Hilly-station Performance Light Electric Vehicle (2022-24)
 - Investigator Name & Role: Dr. Asim Datta, PI | Dr. Anish Ahmad, Co-PI
 - Funding Agency: CPRI-RSOP
 - Approved Funds: INR 34.32 Lakh
- High Voltage Gain Converters for Renewable Energy Resource Applications (2021 23)
 - Investigator Name & Role: Dr. Anish Ahmad, Pl
 - Funding Agency: UGC-FRPS
 - Approved Funds: INR 10 Lakh

Recent Workshops/ Seminars:

- IOT integrated, Solar Powered, Smart Scoreboard developed by Dr Manashita Borah and her team was inaugurated by the Honorable Vice-Chancellor, Tezpur University, Prof. Vinod Kumar Jain on 16 June 2022. Photo (a)
- Two-day training on PCB Designing in association with Maverick Technologies, 18 19 April 2022. Photo (b)
- One-day academic excursion to Power Grid Corporation of India Limited(PGCIL), HVDC Converter Station. Biswanath Chariali Assam on 19th May 2022. Photo (c)

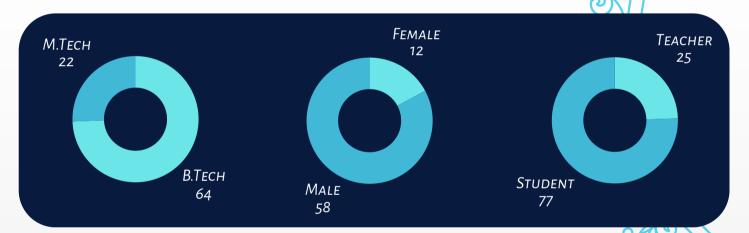


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Department of Electronics and Communication Engineering

DST-FIST Supported, NBA Accredited, AICTE Approved



About the Department:

Established in 1997, the Department of ECE is one of the oldest departments in the University. Starting with an M.Tech. Programme in Electronics Design and Technology in 1997, and M.Tech. in Bioelectronics. The department expanded its academic activities to undergraduate programmes, with a B.Tech. programme in Electronics and Communication Engineering in 2006. The department is supported by DST-FIST, DeitY – MIT, UGC-SAP (DRS-I), AICTE, RPS, AICTE NEQIP, Visvesvaraya Ph.D. Scheme under Meity, Gol. 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 Janerio, Brazil.

Academics:

- B.Tech in Electronics and Communication Engineering (4 Years)
- M.Tech in Electronics Design and Technology (2 Years)
- M.Tech in Bioelectronics (2 Years)
- Ph.D in Electronics and Communication Engineering

Facilities:

- Basic Electronics Laboratory
- Design and Prototyping Laboratory
- Computer Laboratory (Software)
- Communication Laboratory
- DSP Laboratory
- Image Processing Laboratory
- Instrumentation Laboratory

Research Laboratory:

- Sensors and Systems Engineering Laboratory
- Bioelectronics Research Laboratory
- Microwave Engineering Laboratory
- E-mobility Laboratory
- ERL Laboratory
- Intelligent Imaging and Vision Research Laboratory
- Sensors & Nanotechnology Laboratory
- Statistical Visual Computing Laboratory
- Semiconductor Devices & Flexible Electronics Laboratory
- Micro-fabrication facility
- Integrated Teaching and research infrastructure for VLSI-EDA
- Sophisticated Semiconductor Devices Characterization Laboratory
- Technology in Semiconductor and Devices Laboratory
- M. Tech Project Laboratory





Bioelectronics Lab

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Sophisticated Instruments/ Facilities:

- Photolithography
- Vacuum Thin Film Deposition
- Probe Station (I-V)
- Biological Signal Acquisition
- Reactive Ion Etching
- Plasma-enhanced chemical vapor deposition (PECVD)
- I-V and Quantum Efficiency Measurement
- Milli-Q Water Purification Unit
- EDA Tools- Cadence Virtuoso, Sentaurus, Xilinx suite, and Calibre by Mentor Graphics.

Sponsored Research Projects:

- Development of A Cost-Effective EMG Controlled Prosthetic Hand for Multiple Patterns (2021 24)
 - $\circ\,$ Funding Agency: I-Hub Foundation for COBOTICS, Technology Innovation Hub of IIT Delhi
 - Amount: INR 43.44 lakhs
 - Investigator: Prof. Nayan M. Kakoty
- Development of a Mobile App and Agroclimatic Atlas for Climate Smart Agriculture in Assam (2022-25)
 - Funding Agency: AAU (ISRO)
 - \circ Investigator: Dr. Ratul Kr Baruah
- Facility for simulation and characterization of advanced electronic devices and circuits (2019 24)
 - Funding Agency: DST, Govt. Of India, Under FIST program
 - Amount: INR 172 lakhs
 - Investigator: Dr. Biplob Mondal
- Sensor array on flexible substrate for monitoring BTEX VOCs and hydrocarbons particularly present in oil and natural gas industrial environment (2022 - 25)
 - Funding Agency: SERB, DST
 - Amount: INR 23.82 lakhs
 - Investigator: Dr. Biplob Mondal



Patents Granted / Filed:

Notable Achievements:

- Prof. P.P. Sahu listed in world's top 2% scientists by Stanford University, 2020 published in the journal, PLOS Biology.
- Dr. Rupam Goswami awarded with Young Scientist Award 2021, DST, Government of Assam.

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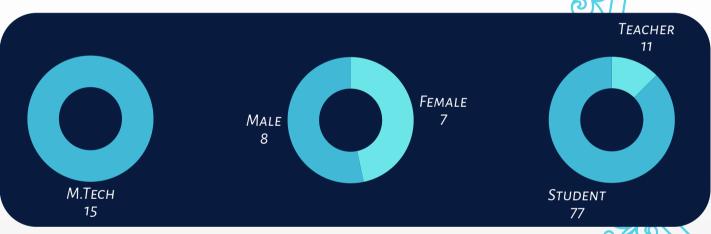
- S. Sarma, B. Sarma, R. Chutia and P. P. Dutta. System for measuring and correction of alignment parameters camber and toe of wheel of a vehicle. Patent Number 357468.
- N. M. Kakoty and L. Gohain. An EMG Based Multi Grasp Prosthetic Hand with an Android Interface. Application No. 202131022730. Status: Filed on 21.05.2021.
- IOT based Portable Ventilator' has been provisionally filed with application no. 202131045925.
- R. Goswami. Double Drawer Match Box.Application number 202231076570: Indian Patent (complete): filed.
- R. Hussain and D. Sonowal. BIONIC ARM. Registered Design Application No. 375272-001 on 08-12-2022.
- R. K. Baruah, A. Kumar, S. Dutta, S. Paul. Intelligent Helmet System. Indian patent no. 362974 (valid since May 14, 2016)
- P . P. Sahu, A portable Optical fiber instrument for instant petrol purity detection, Patent No. 201831009528, (Granted 2022)
- P P Sahu Patent, A Reduced Size Linearly Tapered 3dB (Half Power Splitter) Multimode Interference (MMI) Coupler, No: 390482 Application no 0522/ KOL/2008 (Granted 2022)

Recent Workshops/ Seminars:

- Hands-on Training on Advanced Digital Design with Verilog from May 13-14, 2023.
- Digital VLSI System Design Using Cadence Tool and FPGA from March 17-21, 2023.
- Two-day Workshop on Embedded Machine Learning on System-on-Chip (SoC) in Association with IIT Guwahati, IIT Mandi, and CoreEL Technologies, Bangalore on December 20-21, 2022.
- 5-Day Demo cum training program on sophisticated facilities of the department from 12 16 Sep, 2022.
- Hands-on Training Programme on Computation, Fabrication, and Characterization of Devices and Systems, Under SYNERGISTIC TRAINING PROGRAM UTILIZING THE SCIENCE & TECHNOLOGY INFRASTRUCTURE (STUTI-DST, Gol) from June 13 – 19, 2022. Photo (a)
- Invited talk on "Intelligent data storage systems for cyber-security, extreme-reliability and edge-computing" by Prof. Biswajit Ray, Associate Professor (ECE), The University of Alabama in Huntsville, AL, USA on May 18, 2022. Photo (b)
- Webinar Series on Electronic Devices and Systems (ElDeS) 2022 from Jan 31 Feb 4, 2022. Photo (c)



Department of Energy AICTE Approved



About the Department:

Department of Energy started in 1996, with an aim to produce manpower pool in the field of energy, develop new and efficient energy conversion technologies, R & D and extension activities in diverse areas of energy. Department is offering two years AICTE approved M. Tech program in Energy Technology from the year 2000. The Graduates of the Program are working in organizations/Institutes like Nagoya Institute of Technology, Japan, GE Energy, METSO, TERI, BOSCH, Bangalore, SGS India, New Delhi, MNRE, Tezpur University, NEHU, NERIST, SMIT, MANIT, Bhopal etc. Apart from that, the alumni are also doing/did PhD/PDF at Imperial College, London, NUS, Singapore, NTU, Singapore, University of Exeter, UK, Cardiff University, UK, IISc Begaluru, IIT Delhi, IIT Bombay, IIT Guwahati etc.

Academics:

- M.Tech in Energy Technology (2 Years)
- Ph.D in Energy Technology
- PG Diploma in Renewable Energy and Energy Management (Distance)

Major Facility / Instruments:

- Grid Tied Solar Photo Voltaic Training System
- Wind Energy Training System with VFD & 300W generator
- Solar Thermal Training System with 100LPD Flat Plate Collector
- 1 kW SPV plant for DoE Garden lighting
- Micro Hydel Power Generating Equipment
- Biodiesel production pilot plant
- Auto Bomb Calorimeter
- Gas Analyser
- UV VIS (Spectrophotometer)
- Fuel Cell kit
- Computerized Diesel Engine Test Rig
- Dual Fuel Engine
- Closed top Gasifier
- Muffle Furnace
- Vacuum furnace
- Biogas plant of capacity 50 m3
- AdaptNET E-Lab facility equipped with Sever (2TB) and 18 Computers.
- Renewable Energy Powered Mobile Eatery "Jivika"



- Building Energy Lab
- Future Energy Lab
- Hybrid Energy Lab
- Heat Energy Lab
- Energy Conversion Lab
- Energy Conservation Lab
- Solar Energy Lab
- Gasifier Lab
- Engine Lab

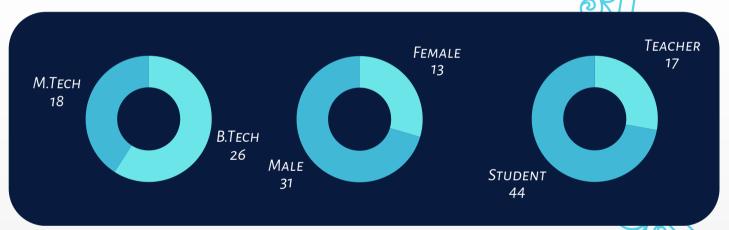
Community Projects:

- Biogas Plant. Photo (a)
 - Tezpur University installed a 50 m^3/day capacity bio-methanation plant in the Patkai Mens Hostel. The biogas plant (Model: Shakti Surabhi; Make: VK-NARDEP) was commissioned in 2014.
 - At full load, feeding with 250 kg of kitchen waste, the plant has the potential to generate 20 kg LPG equivalent biogas per day.
 - Biogas-powered mobile eatery. Photo (b)
- 1000 KWP Solar Power Plant. Photo (c)
 - Tezpur University is the First academic institution to initiate the installation of a MW-scale Rooftop grid-connected Solar PV power plant in the entire North-East region.
 - Solar power generation on average has replaced 24.4% of electricity requirement from the utility grid during October 2018 to May 2022.



Department of Food Engineering and Technology

NBA Accredited, AICTE Approved



About the Department:

The department of Food Engineering and Technology was established in the year 2006 with the aim of creating skilled human resources in the engineering aspect of food processing to cater the needs of the rapidly growing food processing sector. The department is currently offering B. Tech., M. Tech. and Ph. D. programmes. The department has well-developed laboratories for teaching and research created from grants received from various schemes of government agencies viz., MoFPI-HRD, DST-FIST, UGC-SAP and AICTE- NEQIP. The department is running NABL accredited Food Quality Control Laboratory with support from the MoFPI. The Department has been recognized as the State Level Technical Institute (SLTI) for Assam, Meghalaya and Arunachal Pradesh under the PM-FME scheme of the Ministry of Food Processing Industries (MoFPI), Gol, New Delhi.

Academics:

- B.Tech in Food Engineering and Technology (4 Years)
- M.Tech in Food Engineeering and Technology (2 Years)
- Ph.D in Food Engineering and Technology

Major equipment available :

- Milk Pasteuriser Unit (GOMA Engineering, India)
- Hunter Color Spectrophotometer (Hunter Lab, USA)
- Texture Analyser (Stable Micro System, UK)
- Rapid Viscosity Analyser (Newport, Australia)
- Freeze Dryer (Labtech, Korea)
- Falling Number Appatratus (Perten, Australia)
- Automatic Solvent Extraction System (Pelican Equipments, India)
- FTIR (Perkin Elmer, USA)
- HPLC (Waters, USA)
- Modified atmospheric packaging unit (Vacstar, Sweden)
- Kjeldahl apparatus (Pelican Equipments, India)
- Supercritical fluid extraction system (Waters, USA)

Patents Granted / Filed:

Notable Achievements:

- Received NBA accreditation (as per Washington Accord) for B. Tech. program for the year 2016-2022.
- The Department has been recognized as the State Level Technical Institute (SLTI) for Assam, Meghalaya and Arunachal Pradesh under the Pradhan Mantri Formalization of Micro Food Processing Enterprises (PM-FME) scheme.
- Received grant of Rs. 2.75 Crores for establishment of Incubation Centre under PM-FME scheme.
- The Food Quality Control Laboratory of the Department is NABL accredited since 2017.
- Department recognized as minor Quality Improvement Program (QIP) center of AICTE.
- Department recognized forAICTE-Doctoral Fellowship (ADF).
- Recently, received Certificate of Excellence under Eat Right Research Institute Award, by Food Safety & Standards Authority of India (FSSAI) in 2022.
- A process for the preapration of amla chips (2020), Dr. Poonam Mishra, Indian Patent No : 283552
- A process for manufacturing bottle gourd juice (2021), Prof. S. C. Deka, Australia Innovation Patent No. 2020103333
- A process for manufacture of turmeric powder from raw turmeric rhizomes (2021), Prof. Brijesh Srivastava, Indian Patent No: 366731

Recent Workshops / Seminars:

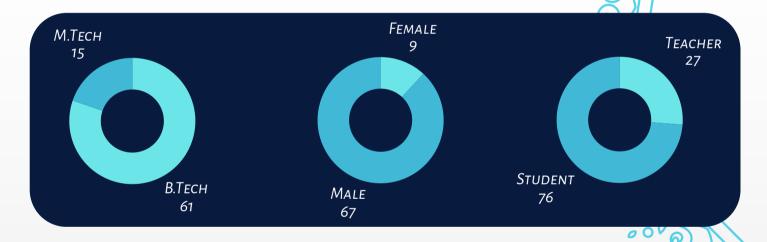
- Workshop on "Bakery and Confectionery Products" is conducted by the Department of Food Engineering and Technology in association with Adani Wilmer in the year 2018. Photo (a).
- FSSAI participated in the 27th Indian Convention of Food Scientists and Technologists (ICFoST), 2019 hosted by the Department of FET in association with Association of Food Scientists & Technologists (India) AFST(I) Tezpur Chapter during 30th January to 1st February 2020. Photo (b), (c).





Department of Mechanical Engineering

NBA Accredited, AICTE Approved



About the Department:

The Department of Mechanical Engineering was established in the year 2006 under the School of Engineering for offering B.Tech. programme in Mechanical Engineering. Subsequently, M.Tech. and Ph.D. programmes were started in the year 2013. Both B.Tech. and M.Tech. programmes are approved by the All India Council for Technical Education (AICTE). The B.Tech. programme is also accredited by the National Board of Accreditation (NBA). The Department of Mechanical Engineering has the principal objective to cater to the latest need for technical manpower in infrastructural sectors of the country.

Academics:

- B.Tech in Mechanical Engineering (4 Years)
- M.Tech in Mechanical Engineering (2 Years)
- Ph.D in Mechanical Engineering

Facilities:

- Automobile and IC Engine Lab
- Fluid Mechanics Lab
- Heat Transfer Lab
- Material Science Lab
- Metrology Lab
- Strength Of Materials Lab
- Theory Of Machines Lab
- RAC Lab
- Renewable Energy Lab
- Turbo-Machinery Lab
- Vibration Lab
- Central Workshop
 - \circ CNC Lathe and Milling Machines
 - Shaping Machine
 - High precision Surface Grinding Machine
 - Universal Tool and Cutter Grinder
 - Radial Drilling Machine
 - Double ended Pedestal Grinding Machine
 - Slotting Machine
 - Welding Machines: AC and DC Arc Welding, Oxy-Acetylene Gas welding, TIG, MIG



Torsion Testing Machine



Biodiesel Transesterification

Vertical Milling Machine

Publications:

- Research Papers : 109
- Authored Books : 02
- Patents : 04
- Papers in Conf. Proceedings : 115
- Book Chapters: 63

Student Achievements:

- Prestigious Gandhian Young Technological Innovation (GYTI) Award won by Saurav Jyoti Sarma, Abhjit Nath and Chandeep S. Gogoi (2014-18) in 2019. The award was presented by the Vice President of India to the students for developing a panipuri vending machine that produces panipuri faster in a hygienic manner.
- Arindam Sinha (2016-20) qualified Mathematics Olympiad 2017 organised by National Board of Higher Mathematics and got selected among 75 awardes from North East India to attend a fully sponsored training conducted by Mathematical Training and Talent Search (MTTS)and Department of Atomic Energy India.
- Manoj Sharma (batch: 2016-20) participated in the PHOTOTRON event of the ROBOTICS module organised during Techniche 2018 at IIT Guwahati between 30th Aug-2nd Sept and secured the 2nd position. He developed a bot which could navigate its way by recognising hurdles and shapes through the arena and return back home.



Placement Brochure 2023-24



Universal Vibration Apparatus

Student Clubs

Tech Clubs:

- Society of Automotive Engineers
- Tezpur University Robotics Society
- IEEE Student Branch, Tezpur University Chapter
- Google Developers Student Club
- Tezpur University Coding Society
- Astronomy Club



Other Clubs:

- Adventure Sports Club
- Archery Club
- Badminton Club
- Basketball Club
- Cricket Club
- Football Club
- Volleyball Club

- Animal Welfare Club
- Nrityangan Dance Club
- Hobby Club
- Literary Club
- Photography Club
- Quiz Club
- Social Service Club

Placement Brochure 2023-24

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Youth Empowerment

National Cadet Corps:

NCC Tezpur University, established on September 1, 2011, proudly operates under the Army Wing, affiliated with the 5 Assam Battalion of Tezpur Group in the NER Directorate. Grooming a vibrant community, our NCC unit comprises 60 dedicated cadets.

National Service Scheme:

NSS Tezpur University is the Tezpur University chapter of the National Service Scheme, institutionalized under the Ministry of Youth Affairs & Sports Govt. of India. Our sole aim is to motivate students at TU to indulge in nation-building activities



Awareness Drives

- AWAAZ Campaign
- Nasha Mukt Bharat Abhiyan
- Puneet Sagar Abhiyan
- Blood Donation Drive
- Gyan Utsav
- Flag Distribution Drive

Annual Events

TechXetra:

The annual technical festival of Tezpur University organized by the students of the School of Engineering has given a new identity to the University itself. It hosts events like workshops, exhibitions, robotic events, invited lectures, webinars, hardcore quizzing, gaming and cultural extravaganza. Technical issues like Green Technology, Sustainable Energy and Water and their use are discussed over the years by a combination of students from around the country, senior faculties and new age inventors.



Inscignis:

The science fest of Tezpur University organized by the students of the School of Sciences on the occasion of National Science Day.

Unifest:

The University participates in the inter-university competitions and has won many prizes in cultural and literary events and sports.

Annual Meet:

Held every year in January, the Annual Meet comprises Inter-hostel sports, quiz and various other cultural and literary events.

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Facilities for Recruiters

The University has created every possible facility required for conducting campus placement activities. It is well-equipped with handpicked Training and Placement officers and a carefully crafted Training and Placement Cell capable of handling and supporting the placement procedure at all stages. Any placement-associated activity can be smoothly conducted for around 150 students at a time.



Guest House



Conference Room



Gallery



Group Discussion Room



Computer Centre



Interview Room



Process lacement



The Placement Office sends invitations to the Organizations along with relevant information.

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Interested organizations register with the T&P cell and send job announcement letters.



Pre-placement talks and all other formalities are done according to the convenience of both parties

Organizations take written tests, group discussions and interviews according to their recruitment criteria



Offer / Joining letters are given to the selected candidates.

The Placement Team



PROF SANKAR CH DEKA

(CHAIRMAN, T & P CELL)



DR PIJUSH CH DAS (DEPUTY DIRECTOR. T & P CELL)



DR RATUL KR BARUAH (FACULTY IN CHARGE, T & P CELL)



NAYAN KALITA (MULTI TASKING STAFF, T&PCELL)

Student Coordinators

B. Tech



HIMAKSHI DAS (CIVIL ENGINEERING)



ARNAB GAUTAM SAHA (ELECTRONICS & COMM ENGINEERING)



SOUHARDYA S. BAISHYA (CIVIL ENGINEERING)



TULAK CHOWDHURY RANADITYA SANDILYA HIMANSHU CHAUDHARY (MECHANICAL ENGINEERING)

ARINDOM AICH (COMPUTER SCIENCE AND ENGINEERING)



PRASANJIT DAS (ELECTRONICS & COMM ENGINEERING)



(MECHANICAL ENGINEERING)

(FOOD ENGINEERING & TECHNOLOGY)

Placement Brochure 2023-24

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Student Coordinators





Placement Brochure 2023-24

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Past Recruiters



Past Recruiters



Placement Brochure 2023-24

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Dr. Pijush Chandra Das, Deputy Director Training & Placement Cell School of Engineering Tezpur University Napaam, Assam – 784028 Contact no: 03712–273258, 9678003942, 8822842046 Email: tuplacementlegmail.com, pijushetezu.ernet.in

