



**TRIGUNA SEN**  
**SCHOOL OF TECHNOLOGY**

**ASSAM UNIVERSITY**  
(A CENTRAL UNIVERSITY), SILCHAR



**Prospectus 2021-22**  
**for**  
**B.Tech. & M.Tech.**

# From Vice-Chancellor's Desk



**“Assam University offers a unique environment where the students become empowered through learning and numerous other curricular and co-curricular opportunities”.**

I would like to extend my hearty welcome to the aspiring students seeking admission to the B. Tech. and M.Tech. programmes of the Engineering Departments (Agricultural Engineering, Computer Science and Engineering, and Electronics and Communication Engineering) under Triguna Sen School of Technology (TSSOT), Assam University (a Central University), Silchar.

In the previous years, the School as well as the University has grown both in terms of social responsibilities and intellectual capital leading to academic and economic acceleration of the entire North Eastern region in general and South Assam in particular.

Our advancement has been responded to by the academicians and the students. The number of candidates applying for admission to different courses has increased over the years. In the current session, the number of outstation applicants was significant. We are expecting similar response in the coming year as well.

Considering the present status and future growth of the School, I can say for sure that the students will get rich exposure and better placement after graduation. I wish you all the best for an illustrious career ahead.

*Professor Dilip Chandra Nath  
Vice Chancellor*

# From Dean's Desk



**“Engineering is the professional and systematic application of science to the efficient utilization of natural resources to produce wealth.”**

**- Theodore Jesse Hooverrole**

On behalf of Triguna Sen School of Technology (TSSOT), Assam University (a Central University), Silchar, I welcome you to the Engineering Departments of TSSOT. The Departments such as Agricultural Engineering, Applied Science and Humanities, Computer Science and Engineering, Electronics and Communication Engineering and the School as a whole have been known for providing one of the best teaching, learning and research environments to the students enrolled into B.Tech., M.Tech. and Ph.D. Programme.

During its journey of a decade only, TSSOT strives hard in establishing adequate Academic buildings, Research Laboratories, Hostel, Administrative Infrastructure and Teaching-non-teaching Staff to keep up the efforts in enriching knowledge, industrial exposure, soft skills of the students for achieving better opportunity and placement.

As an Engineering and Technology School, TSSOT provides an optimum mix of theory and practical courses in its syllabus as prescribed by All India Council of Technical Education (AICTE), and as per the Industrial requirements. The TSSOT graduates learn subjects across departmental boundaries, multidisciplinary/ applied open courses in the School/ University level, and also accord exposures in industrial training, field visits, extracurricular activities for enabling them an invaluable asset to any Organization/ Industry.

With the existing infrastructure, facilities and resources, we can assure you better opportunities for strengthening knowledge, personality and academic-industry exposure during your study and future endeavour.

A handwritten signature in black ink, appearing to be 'Laxmi Narayan Sethi', written over a horizontal line.

*Professor Laxmi Narayan Sethi  
Dean, Triguna Sen School of Technology*



# Table of Contents

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About Assam University .....	1
Triguna Sen School of Technology .....	3
Department of Agricultural Engineering .....	5
☛ Programmes and Courses Offered.....	6
☛ Faculty, Technical and Non-Technical Staff.....	7
☛ Esteemed Previous Recruiters.....	10
☛ Eminent Institutions Students Pursued/ Pursuing Higher Studies In.....	10
Department of Computer Science & Engineering .....	11
☛ Programmes and Courses Offered.....	12
☛ Faculty, Technical and Non-Technical Staff.....	13
☛ Esteemed Previous Recruiters.....	15
Department of Electronics & Communication Engineering.....	16
☛ Programmes and Courses Offered.....	17
☛ Faculty, Technical and Non-Technical Staff.....	18
☛ Esteemed Previous Recruiters.....	19
Department of Applied Science & Humanities .....	20
☛ Faculty and Staff.....	21
Seminars/Conferences/Workshops Organized by TSSOT .....	22
Common Facilities and Academic Supports .....	24
☛ Mechanical Workshop .....	24
☛ Workshop Staff .....	25
☛ Central Library.....	26
☛ Hostels.....	26
☛ Computer Centre .....	27
☛ Health Centre .....	27
☛ Gymnasium.....	27

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☛ Transport Service .....	27
Students Activities .....	28
Opportunities .....	28
☛ Fellowship .....	28
☛ Placement Cell .....	28
☛ Scholarships .....	28
Student Welfare .....	29
Student's Discipline .....	29
Internal Quality Assurance Cell (IQAC) .....	29
Facilities Available For SC/ST/OBC and PwD Students .....	30
Admission of Foreign Students .....	30
Rules & Regulations .....	31
☛ Code of Conduct for Student .....	31
☛ Misconduct .....	31
Fee Details .....	32
Admission Details .....	34
Eligibility Criteria .....	35
How to Apply .....	37
Academic Calendar .....	38
For Admission Enquiry Contact .....	40
Dates to Remember .....	41







# About Assam University



Assam University, Silchar (a Central University) was established in January 1994 by an Act of Parliament. The University has been accredited by NAAC with Grade B with a CGPA of 2.92 in 2014.

With the Bhuban and the Barail ranges of hills at the backdrop, the University Campus is surrounded by lush green hillocks, natural lakes and the picturesque tea gardens of South Assam. The inner landscape is featured by sprawling lawns, well nurtured gardens and eco-forests. The serene setting makes Assam University Campus a unique one with exquisite natural beauty which captures viewers imagination and provides an ideal atmosphere for study and research. Distance between the main Campus and the Silchar city is about 23 km. Silchar is the Headquarter of Cachar district.

Silchar city being the gateway to the entire southern part of North East India is the hub of commercial activities and is known for its history as the Tea Capital of South Assam.



The objectives of the University, as enshrined in Section 4 of Assam University Act, are –

*“to disseminate and advance knowledge by providing instructional and research facilities in such branches of learning as it may deem fit and by the example of its corporate life to make provisions for integrated courses in Humanities, Natural and Physical Sciences and Social Sciences in the educational programmes of the University; to take appropriate measures for promoting inter-disciplinary studies and research in the University; to educate and train manpower for development of State of Assam; and to pay special attention to the improvement of the social, economic conditions and welfare of the people of that state, their intellectual academic and cultural development”*

The sprawling University Campus at Silchar spread over an area of about 600 acres has 39 departments under 16 schools with 6 Interdisciplinary Centres. The University provides state-of-the-art facilities to students coming from different parts of the country and abroad. The current roll strength is around 4500 at the Post Graduate and Integrated Courses including around 1500 M. Phil, and Ph. D at research levels. These apart, there are nearly 25000 students in the affiliated and permitted colleges in the five districts of South Assam which together constitute the jurisdiction of Assam University.

During the last one decade, the University has made impressive strides in establishing itself as a premier institution of learning by blending quality education, socially relevant academic endeavors and scientific research with mission orientation and tireless striving for excellence. Assam University has signed Memorandum of understanding (MOU) with Universities/ Institutes like Hyderabad University, North Bengal University, Pune University, North-East Institute of Science and Technology (earlier RRL), Construction Industry Development Council (under Planning Commission, Govt. of India) in India.

The placement cell in the University provides help and support to the students through campus interview. In recent years, organizations like TCS, WIPRO, IDBI, PRADAN, HSBC etc. have selected many of our students from different departments. University also arranged NET coaching for students belonging

to SC/ST, Minority groups. The University has introduced the new Choice Based Credit System (CBCS) from the Academic Session 2015 -2016 for various PG and integrated courses in the University.

The University campus is fast developing and already endowed with amenities / facilities such as Post Office, Telephone Exchange, Public Call Offices, Bank, Police Outpost, Water Treatment Plants, Electric Substations, Students Hostels (both Boys & Girls), Health Centre, Staff Quarters, Shopping Complex, School, Guest House, Central Library, Auditorium and Parks. In addition, other amenities like ATM, Sports Complex, Cafeteria, E-Journals, INFLIBNET, DELCON, Bio-informatics and KIOSK facilities are also available.

## Diphu Campus

Establishment of Assam University Campus at Diphu has been long felt demand of the people of Karbi Anglong, Assam. A satellite campus of Assam University at Diphu has been launched from the Academic Session 2007-08. The authorities of Karbi Anglong Autonomous Council have allocated 272 bighas of land in Diphu-Lumding Road about 8 kms away from Diphu town.

There are ten departments in Diphu Campus

1. English
2. Political Science
3. History
4. Physics
5. Life Science
6. Commerce
7. Assamese
8. Anthropology
9. Hindi
10. Geography

A centre on Tribal studies is also operational.



# Triguna Sen School of Technology

The growing influence of technology on all aspects of society has created a large demand for engineering graduates, not only to enter the professional practices of engineering and technology, but also to bring the strengths of engineering and technology education to related fields such as law, medicine, management and Government. Assam University has established Triguna Sen School of Technology in conformity with its commitment to provide students of the region a global opportunity window.

Within a very short span of time, Assam University has made its presence felt in the education map of India. In its relentless pursuit of knowledge, the university has made inroads in the unexplored region of research and higher education. With 39 post graduate departments along with 6 interdisciplinary centres including Triguna Sen School of Technology, the university has already become a favorite destination for students of the Eastern region in general and the North East region in particular.

The university, spread over an area of 600 acres of sprawling lush green hilltop, is home to students from diverse socio-cultural backgrounds. It respects the plurality of tradition and encourages a multicultural approach to human endeavor. The university aspires to develop itself into a premier academic institution having ethos for excellence, where initiatives are nurtured, where new ideas are received in an atmosphere of constructive criticism, where intellectual honesty is the norm and where research is more useful and more economical is always the motivating force. Though situated in a remote part of the country, it has never missed the larger picture and has tried to integrate the regional aspirations into the mainstream of the nation.

In consonance with the university's mission to provide support to the people of the region, the engineering courses being offered will strive to generate skilled human resources to help provide cost-effective technical solutions to the people for improving their living conditions.

As the university is aware of its role in the nation-building process, this school will serve as a technology-based knowledge resource centre in the region. The University desires to be a catalyst in the growth of the North-East region to make it an active contributor to the transformation of the nation into a technological superpower by 2030.





## Mission

The Triguna Sen School of Technology is developed with the belief that education should be both broad and useful, enabling students to participate in “the humane culture of the community” and to discover and apply knowledge for the benefit of society, emphasis on “Experimental Learning”, and on the value of useful knowledge, is the school’s education mission.

Mission of the school is to advance knowledge and educate students in science, technology and other areas of specialization that will best serve the nation and the world in the 21st century.





The school is committed to generating, disseminating and preserving knowledge, and to working with others to bring this knowledge to bear on the world’s great challenges. The school is dedicated to providing its students with an education that combines rigorous academic study and the excitement of discovery with the support and intellectual stimulation of a diverse campus community.

With this backdrop, the University has reserved 50 per cent of the seats for aspirants from the state of Assam with a view to neutralize the present regional imbalance in terms of density of engineering students.

## Objectives

- ❖ To create an environment for technological excellence.
- ❖ To provide technological solution to regional and national problem.
- ❖ To ensure world class technical education.
- ❖ To promote R&D keeping in mind the national and regional needs.
- ❖ To evolve appropriate mechanism for the transfer of knowledge to the society.

## OFFICE OF THE DEAN

Name		Qualification	Designation
Sujit Bhattacharjee		B.A., Stenography	Private Secretary (Stenographer Grade-II)
Nobojyoti Chauhan		B.Tech.	Office Assistant (Contractual)
Purnima Chauhan		M.A.	Office Assistant (Contractual)
Dewraj Singh		B.Com., DCA	Office Attendant (Contractual)

# DEPARTMENT OF AGRICULTURAL ENGINEERING



The Department of Agricultural Engineering started its journey in the year 2006. The detailed course structures and syllabi for the undergraduate (B.Tech.) and postgraduate (M.Tech.) courses are designed considering the AICTE guidelines and also updated time to time. The course structures focused to meet the requirements of

- National level competitive examinations (GATE, JRF, NET, ARS, JE, AE, IFS, Teaching & Technical and Banking etc.).
- National and Regional Level Industries (Tractor and Farm Implement, Soil Survey and Testing, Irrigation, Fisheries, Food & Tea Processing and Packaging, Mechanical, Thermal and Software etc.
- National and Regional Level Agricultural Research & Development organizations, Centres, institutes, and Laboratories.
- Intra/Inter disciplinary higher studies (Master of Technology/ Ph.D.) in National and International Institutes

The faculties and technical staff are achieved very good academics and research experiences from premier institutes like IIT's and Agricultural Universities/ Institutes in repute in India and abroad.

Adding yet another feather to its illustrious cap, the Department has been recognized with published patent from innovative research and also granted institutional World Bank Project (TEQIP) and research projects by UGC, New Delhi and Ministry of Food Processing Industries, GOI, New Delhi.

## Thrust areas of research:

- ❖ Soil and Water Conservation Engineering
- ❖ Ground Water Hydrology
- ❖ Watershed Management
- ❖ Farm Implements and Machinery
- ❖ Waste recycling and Bi-product Utilization
- ❖ Mechanization of Horticultural Crops
- ❖ Bioprocess Engineering
- ❖ Food Engineering and Food Industry Management
- ❖ Climate Change and Climate Resilient Agriculture
- ❖ Tea Processing Technology
- ❖ Aquacultural Engineering
- ❖ Water Resources Development and Management
- ❖ Rainwater Harvesting
- ❖ Remote Sensing and GIS
- ❖ Renewable Sources Energy and Utilization



## PROGRAMMES

The Department of Agricultural Engineering offers Undergraduate, Postgraduate and Doctoral programmes in the field of Agricultural Engineering.

## COURSES OFFERED

### 1. UNDERGRADUATE

- **B. Tech. in Agricultural Engineering (Regular)**  
**Duration: Four Years**

**\*Intake Capacity: 75**

\* Also as advised by the AICTE and GOI, 15% of the total seats on supernumerary basis are reserved for foreign nationals/Persons of Indian Origin (PIC)/Children of Indian Workers in Gulf countries.

- **B. Tech. in Agricultural Engineering (Lateral Entry)**  
**Duration: Three Years**

**\*\*Intake Capacity: 08**

\*\*Two seats will be kept ear-marked for sponsored candidates and the maximum age of entry will be 40 years with two years of experience in the relevant field. However, the event of non- availability of sponsored candidates, the seats may be converted into main-stream.



### 2. POSTGRADUATE

- **M. Tech. in Agricultural Engineering**

**Specializations:**

1. **Water Resource Development and Management**
2. **Food Processing Engineering**
3. **Farm Machinery and Power Engineering**
4. **Aquacultural Engineering**

**Duration: Two years**

**Intake Capacity: 32 (08 in each specialization)**

Five percent of the total seats will be kept ear-marked for sponsored candidates, having two years of experience in relevant



### 3. DOCTORAL

- **Ph.D. in Inter/Intra Disciplines of Agricultural Engineering**

**Admission: Once in a year**

**Duration: Minimum Three Years**

**Course work: One semester**

**Research work: Commenced after the Course Work**

**\*\*Intake Capacity: Based on availability of seats of each faculty.**



## COURSE STRUCTURE AND SYLLABUS

For details visit departmental webpage: <http://www.aus.ac.in/agriculturalengg-department/>



## FACULTY, TECHNICAL & NON-TECHNICAL STAFF

Name		Designation	Area of Interest
Laxmi Narayan Sethi B.Tech.(OUAT, Bhubaneswar) M.Tech. (IIT Kharagpur) Ph.D. (IIT Kharagpur).		Professor (Dean & Head)	Water Resource Development & Management Rainwater Harvesting, Soil Water and Nutrient Balance Modeling, Decision Support System, Protective Cultivation, Integrated Renewable Energy in Micro Irrigation and Farm Mechanization, Solar and Biomass Integrated System, Nano Technology, Value Addition and Process Standardization.
Sudipto Sarkar B.Tech.(JNKVV, Jabalpur) M.Tech. (IIT Kharagpur) Ph.D. (IIT Kharagpur).		Associate Professor	Irrigation and Drainage Engg., Aquacultural Engineering
Ajita Tiwari B.Tech.(JNKVV, Jabalpur) M.Tech.(GBPUA&T, Pantnagar), Ph.D. (IARI, New Delhi)		Assistant Professor	Process and Food Engineering Extrusion Technology, Food Waste Management, Food Industry Management
Mritunjay Padhiary B.Tech.(OUAT, Bhubaneswar) M.Tech.(IIT Kharagpur).		Assistant Professor	Farm Machinery & Power, Energy
Avinash Kumar B.Tech.(Dr. RPCAU, Pusa) M.Tech.(IIT Kharagpur) Ph.D. (IIT Kharagpur).		Assistant Professor	Aquacultural Engg. Farm Mechanization Water Resources, Food preservation and value addition
Chetan B. Khobragade B.Tech.(Dr. PDKV, Akola) M.E (MPUAT, Udaipur) Ph.D. (Dr BSKKV, Dapoli)		Assistant Professor	Development of renewable energy technology, development of farm machinery equipment and value addition products.
Saikat Roy B.Tech. (UBKV, Cooch Behar) M. Tech (Jadavpur University)		Assistant Professor	Water Resource Management
Gajendra Prasad B.Tech.(Dr. RPCAU Pusa) M.Tech (IIT Kharagpur)		Assistant Professor	Dairy and Food Engineering, Transport Process, Thermal and Mechanical Operation in Food Processing, Modelling and Optimization.
Anamika Yadav B.Tech.(JNKVV, Jabalpur) M.Tech.(IIT Kharagpur)		Guest Faculty	Aquacultural Engineering, Waste Water management
Florence Akangle Panme B.Tech. (Assam University) M.Tech.(Assam University)		Guest Faculty	Water Resources Development and Management, Wastewater Treatment





## FACULTY, TECHNICAL & NON-TECHNICAL STAFF

Name		Designation	Area of Interest
Kshetrimayum Monika Devi B.Tech. (Assam University) M.Tech.(IIT Kharagpur)		Guest Faculty	Land and Water Resources Engineering, Agricultural Engineering
Swastika Das B.Tech. (Assam University) M.Tech (IIT Kharagpur)		Guest Faculty	Dairy Food Technology, Food Chemistry and Microbiology, Transport Processes in Food, Food Packaging
Robina Rai B.Tech. (Assam University) M.Tech. (IIT Kharagpur)		Guest Faculty	Food Process Engineering, Non-Thermal Technology, Food Product Design and Development
Sanjeet Kumar Borah B.Tech. (Assam University) M.Tech. (Assam University)		Guest Faculty	Farm Machinery and Power Engineering, Agricultural Machinery, Computerized Design and Application in Farm Machineries, Renewable energy
Azmirul Hoque B.Tech.(Assam University) M.Tech.(Tezpur University)		Guest Faculty	Non-Thermal Technology, Food Products Design and Development, Food Chemistry and Microbiology
Subha Manash Roy B.Tech.(BCKV, WB) M.Tech. (IIT Kharagpur)		Guest Faculty	Aquacultural Engineering, Aquaculture Equipment Design and Design Optimization
Ghanashyam Gogoi B. Tech (NERIST)		Senior Technical Assistant	Agricultural Engineering
Nataraj Nath Diploma (Silchar Polytechnic)		Laboratory Assistant	Agricultural Engineering
Shuvajit Das B.Tech. (Assam University)		Laboratory Assistant (Contractual)	Agricultural Engineering
Terisa Hojai B.Sc. (Hons.) (Assam University)		Laboratory Attendant (Contractual)	Agricultural Engineering
Dibakar Barman H.S.		Laboratory Attendant (Contractual)	Agricultural Engineering

## FACULTY, TECHNICAL & NON-TECHNICAL STAFF

Name		Designation	Area of Interest
Gulam Mustafa Laskar M.A., DCA		LDC	Office work, File and documentation processing
Debashish Deshmukhya B.A		Semi Professional Assistant (SPA)	Library cum Office work
Pawan Kumar Koiri ITI		Office Attendant (Contractual)	Office Work







## ESTEEMED PREVIOUS RECRUITERS



## EMINENT INSTITUTIONS STUDENTS PURSUED/ PURSUING HIGHER STUDIES IN



# DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



The primary objective of the Department of Computer Science & Engineering formerly named as Department of Information Technology is to offer an environment that encourages to one's potential in academic programmes. Within the ambit of IT Industry, the department shall endeavor to develop newer problem – solving methods and apply these to creative design scenarios in contemporary and emerging technologies.

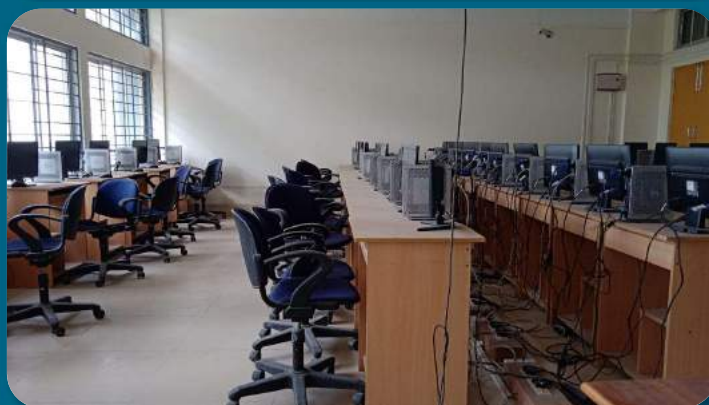
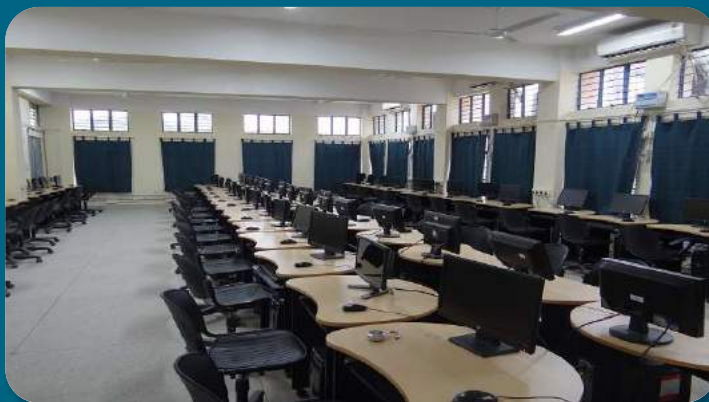
The Department was set up in the academic year 2006-2007 along with the Department of Agricultural Engineering, which offered the first engineering undergraduate course within the University campus. Since its establishment it has climbed victoriously the stairs of excellence

and has acquired huge popularity being one of the most preferred academic engineering Institutions in the region of south Assam. In the year 2011, the Department also opened its door to the postgraduate courses.

The department has been granted Major Research Projects by DIT& DST, GOI New Delhi. Alumni have been working in reputed corporate firms like Infosys, TCS, Zaloni, etc. Some of the alumni are also pursuing higher studies in reputed and premiere institutes of India.

## The thrust areas of research of the Department are:

- ❖ Artificial Intelligence
- ❖ Data Mining
- ❖ Ad-hoc Networks
- ❖ Speech Processing
- ❖ Trust and Reputation
- ❖ Hyperspectral Image Processing
- ❖ Cognitive Radio Network
- ❖ Mobile Computing
- ❖ Artificial Intelligence and Soft Computing
- ❖ Communication and Signal Processing
- ❖ Quantum computing
- ❖ Image Processing
- ❖ Network and Information Security
- ❖ Natural Language Processing
- ❖ Reversible Computing
- ❖ Information Retrieval
- ❖ Network On Chip







## PROGRAMMES

The Department of Computer Science Engineering offers Undergraduate, Postgraduate and Doctoral programmes in the field of Computer Science Engineering.

## COURSES OFFERED

### 1. UNDERGRADUATE

➤ **B. Tech in Computer Science & Engineering**

**Duration: Four Years**

**Intake Capacity: 75**

*\*Also as advised by the AICTE 15% of the total seats on supernumerary basis are reserved for foreign nationals/Persons of Indian Origin (PIC)/Children of Indian Workers in Gulf countries.*

➤ **B. Tech in Computer Science & Engineering (Lateral Entry)**

**Duration: Three Years**

**Intake Capacity: 08**

*\*\*Two seats will be kept ear-marked for sponsored candidates and the maximum age of entry will be 40 years with two years of experience in the relevant field. However, in the event of non-availability of sponsored candidates, the seats may be converted into main-stream.*

### 2. POSTGRADUATE

➤ **M. Tech in Computer Science & Engineering**

**Duration: Two Years**

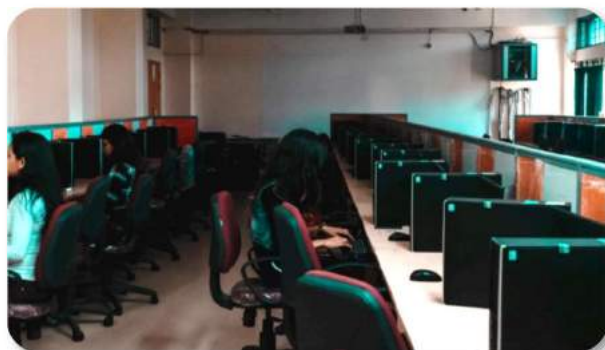
**Intake Capacity: 23**

*\*\*Five per cent of the total seats will be kept ear – marked for sponsored candidates, having two years of experience in relevant field.*

### 3. DOCTORAL

➤ **Ph.D**

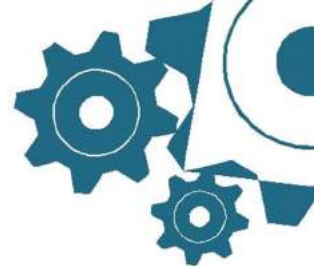
The Ph.D. in the Department of Computer Science & Engineering is done through research work with mandatory course work of minimum one semester. Admission process is as per Assam University norms.





## FACULTY, TECHNICAL & NON-TECHNICAL STAFF

Name		Designation	Area of Interest
Sudipta Roy M.E. (Jadavpur University) Ph.D. (Assam University)		Professor	Image Processing, Speech Processing, Artificial Intelligence
Sunita Sarkar M.Tech. (Tezpur University) Ph.D. (Assam University)		Associate Professor & HOD	NLP, Data Mining
Mousum Handique M.Tech. (Tezpur University) Ph.D. (IIT Guwahati)		Assistant Professor	Automata, Formal Verification of Systems, Reversible Computation, Testing in Quantum Circuits
Tapodhir Acharjee M.Tech. (Tezpur University) Ph.D. (Assam University)		Assistant Professor	Ad-hoc Networks, Network Security
Sourish Dhar M.Tech. (AAI-Deemed University) Ph.D. (Assam University)		Assistant Professor	Information Retrieval, NLP, Data Science
Abhijit Biswas M.Tech. (NERIST) Ph.D. (NERIST)		Assistant Professor	Network-on-Chip, Database, Operating System
Bhagaban Swain M.Tech. (IIT Kharagpur)		Assistant Professor	Quantum Computing, Speech Processing
Arnab Paul M.Tech. (Tezpur University) Ph.D. (Assam University)		Assistant Professor	Trust and Reputation, Information Retrieval, NLP
Wangjam Niranjana Singh M.Tech. (NERIST)		Assistant Professor	Cognitive Radio Network, Network Security
Somnath Mukhopadhyay M.Tech. (Kalyani University) Ph.D. (Kalyani University)		Assistant Professor	Soft Computing, Hyperspectral Image Processing



## FACULTY, TECHNICAL & NON-TECHNICAL STAFF

Name		Designation	Area of Interest
Raktim Deb M.Tech. (Guwahati University)		Guest Faculty	Software Defined Network, Cloud Computing
Abhilash Chakraborty M.Tech (Assam University)		Guest Faculty	Cryptography, Side Channel Analysis
Ramen Pal M.Tech (Kalyani University)		Guest Faculty	Soft Computing, High Resolution Image Processing
Navajyoti Nath ** M.Tech. (NIT Silchar)		Senior Technical Assistant	Computer Networks, Database Management Systems, C
Amit Kumar Deb M.Sc. (Assam University)		Technical Assistant	Database Management Systems, Operating System, C, CPP
Jagannath Nath B.Tech. (Assam University)		Laboratory Assistant	Networking, Speech Processing
Sanghita Deb B.Sc., DOEACC (O)		Laboratory Attendant	C Programming
Kunal Roy B. Com		Junior Consultant	-
Asit Das H. S.		Office Assistant	-

**\*\* on Lien.**



## ESTEEMED PREVIOUS RECRUITERS





# DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



The Department of Electronics & Telecommunication renamed as Department of Electronics & Communication Engineering vide EC resolution no EC: 101:04 – 15:24.4 was established in 2011. The primary objective of the department is to impart quality education and training in the various fields of Electronics & Communication Engineering to meet the requirements of well skilled engineers in the region as well as in the country and abroad.

The department offers courses, which are industrial as well as research oriented. Some of the Graduates of this department have been working in reputed corporate firms like Cadence, IBM, BSNL, etc. and some are pursuing higher studies in NITs and IITs. Many Multinational Companies providing Consulting and Technology Services like Capgemini, Cognizant etc. also participated the on-campus placement programme of the University recently and offered placements to the students of the department.

The department has a clear vision to provide a vibrant and optimum learning environment to students in order to help them excel in today's competitive environment. To keep pace with the current technological trends, the department has a well-designed, constantly reviewed AICTE recommended syllabus for B.TECH and M.TECH courses to incorporate all advancements in existing and emerging technologies which give students a holistic and pragmatic view of the present scenario of the Electronics and Communication industry.

## The primary focus areas of the Department are:

- ❖ Basic Electrical & Electronic Components and circuits
- ❖ Digital Electronic Circuit Design & Synthesis
- ❖ Analog and Digital Communication Engineering
- ❖ VLSI and Embedded System Design
- ❖ Digital Signal Processing & Image Processing
- ❖ Microwave Engineering
- ❖ Xilinx ISE tool & FPGA
- ❖ Cadence Design Systems & Tanner EDA tool
- ❖ Microprocessor & Microcontroller

## Primary Research Area:

- VLSI Interconnects
- Nanoelectronics and Nanotechnology
- MEMS/NEMS Technology
- Image & Video Processing
- Pattern recognition
- Computer Vision
- Bioelectronic





## PROGRAMMES

The Department of Electronics & Communication Engineering offers Undergraduate, Doctoral programmes in the field of Electronics & Communication Engineering.

## COURSES OFFERED

### 1. UNDERGRADUATE

➤ **B. Tech in Electronics & Communication Engineering**

**Duration: Four Years**

**\*Intake Capacity: 75**

\*Also as advised by the AICTE 15% of the total seats on supernumerary basis are reserved for foreign nationals/Persons of Indian Origin (PIC)/Children of Indian Workers in Gulf countries.

➤ **B. Tech in Electronics & Communication**

**Engineering (Lateral Entry) Duration: Three Years**

**\*\*Intake Capacity: 08**

\*\*One seats will be kept ear-marked for sponsored candidates and the maximum age of entry will be 40 years with two years of experience in the relevant field. However, the event of non- availability of sponsored candidates, the seats may be converted into main-stream.

### 2. POSTGRADUATE

➤ **M.Tech in Microelectronics & VLSI Design**

**Duration: Two Years**

**Intake Capacity: 23**

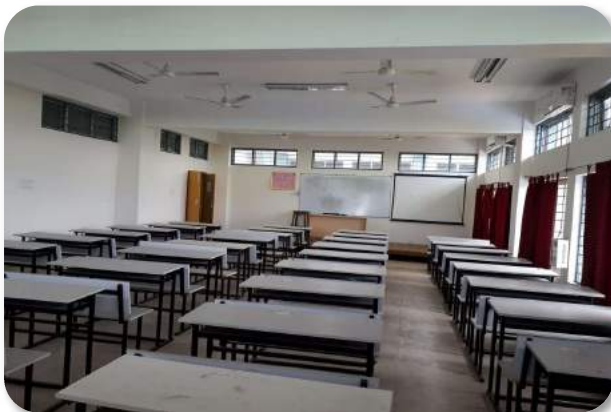
\*\*Five per cent of the total seats will be kept ear – marked for sponsored candidates, having two years of experience in relevant field.

### 3. DOCTORAL



**Ph.D**

The Ph.D. in the Department of Electronics & Communication Engineering is done through research work with mandatory course work of minimum one semester. Admission process is as per Assam University norms.





## FACULTY, TECHNICAL & NON-TECHNICAL STAFF:

Name		Designation	Area of Interest
Debaprasad Das M.E. (Jadavpur University) Ph. D. (IIST, Shibpur)		Professor & HOD	VLSI Design, IoT & Emerging Technology
Mariam Jabali Laskar M.Tech.(Tezpur University)		Assistant Professor	Biomedical CMOS circuit design, Biomedical Instrumentation
Richik Kashyap M.Tech. (NIT Silchar) Ph. D. (NIT Silchar)		Assistant Professor	Microelectronics & MEMS
Rinku Rabidas M.Tech. (NIT Silchar) Ph. D. (NIT Silchar)		Assistant Professor	Image and Video Processing, Pattern Recognition, Computer Vision
Velloree Khuraijam M. Tech. (KIT Mangalore, Karnataka)		Guest Faculty	Semiconductor Devices, IC fabrication technology, Digital VLSI circuits
Nirupom Shome M. Tech. (NIT Silchar)		Guest Faculty	Machine learning, Image Processing, Speech recognition
Adwiti Ashis Deoghare M.Tech.(YCCE, Nagpur)		Guest Faculty	Microcontroller, Image processing, Deep Learning
Anirban Banerjee M.Tech. (Heritage Institute of Technology, Kolkata)		Technical Assistant	Microelectronics & VLSI Design
Mrs. Rima Barua B.Tech. (Dr. M.G.R University, Chennai)		Consultant Lab Assistant (Contractual)	Communication System
Suranjan Das M.A., ITI (Stenography)		Private Secretary (Stenographer Grade-I)	Secretarial Practice, Office Organization and Management





## ESTEEMED PREVIOUS RECRUITERS





# DEPARTMENT OF APPLIED SCIENCE & HUMANITIES



Since its inception, as one among the departments under Triguna Sen School of Technology, Department of Applied Science and Humanities participates in B.Tech and M.Tech programmes by offering courses in Applied Mathematics, Applied Physics, Applied Chemistry, and Professional Communication & Humanities. With an orientation of interdisciplinary learning, the department promotes practical aspects of Applied Sciences and Humanities to build a solid foundation as part of the Engineering Education. Taught by individual faculties, who are highly qualified and professionally competent in their respective fields, the courses focus on promote the applications of scientific knowledge, strengthen the conceptualized frameworks, lay strong foundation, imbibe core essentials and bring forward comfort in communication in the field of Applied Sciences and Humanities.

## Courses Offered:






- ✓ Mathematics
- ✓ Engineering Physics
- ✓ Engineering Chemistry
- ✓ Engineering Graphics
- ✓ Workshop
- ✓ English
- ✓ Programming for Problem Solving
- ✓ Basic Electrical Engineering
- ✓ Indian Constitution
- ✓ Operations Research
- ✓ Universal Human Values

## Objectives of the Major Courses Offered:

Name of Course	Objectives
Engineering Mathematics	<ul style="list-style-type: none"> <li>✓ To impart sound knowledge of the various mathematical tools used, and their applications in the engineering disciplines such as Calculus, Differential equations, Laplace transforms, Fourier transforms, Z transforms, Fuzzy Mathematics, Probability and Graph Theory to help the students in Computational Techniques, Discrete Structure and Statistical Testing</li> <li>✓ To create engineers with strong mathematical background, creative thinking and problem-solving skills through systematic training, and to help student understand the significance of application and logical thinking</li> </ul>
Engineering Physics	<ul style="list-style-type: none"> <li>✓ To enable students to understand the basic ideas and concepts in Physics, which play a primary role in all branches of engineering, and thereby, motivate students to understand the relationship between physics and engineering</li> <li>✓ To provide grounding in Applied Physics such as Optics, Quantum Physics, Materials Science, Applied Mechanics, Nanotechnology and Solid-State Physics</li> </ul>
Engineering Chemistry	<ul style="list-style-type: none"> <li>✓ To impart a scientific approach to familiarize the important applications of chemistry in the field of engineering and technology, and to create awareness about the major environmental issues.</li> </ul>
Communication skill in English	<ul style="list-style-type: none"> <li>✓ To cater to the needs of the Engineering students in the areas of English, Technical Communication, Technical Report Writing</li> <li>✓ To help the students gain proficiency in listening, reading, writing and speaking skills by including activities such as group discussion, mock interviews and presentation, and thereby, help students learn how to understand &amp; communicate in the classroom or workplace</li> </ul>
Universal Human Values	<ul style="list-style-type: none"> <li>✓ To provide a firm grounding in human values to produce conscientious citizens</li> <li>✓ To train the students with a sense of understanding for values and ethics, a commitment to law and morality, an appreciation of human creativity and an analytical inquiring mind.</li> </ul>



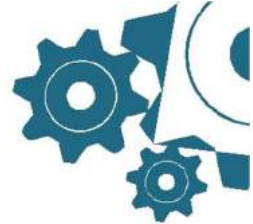
## FACULTY AND STAFF OF THE DEPARTMENT

Name		Designation	Area of Interest
Pranab Kumar Sarkar Ph.D. (NIT Silchar)		Assistant Professor (Applied Physics) HOD (In Charge)	High-dielectric Materials for CMOS Fabrication, RRAM by Transition Metal Oxides, Perovskite Solar Cell.
Pradip Debnath Ph.D. (NIT Silchar)		Assistant Professor (Mathematics)	Real Analysis, Fixed-Point Theory, Fuzzy Mathematics
Arijita Pradhan Ph.D. (English and Foreign Languages University, Hyderabad)		Assistant Professor (English)	Indigenous Studies, Comparative Literature, Subaltern Studies, American Literature
Heikham Farida Devi Ph.D.(NIT Manipur)		Guest Faculty (Chemistry)	Design of Nanomaterial, Biomedical Regime
Mitali Bhattacharjee		Assistant	Office Work



# SEMINARS/ CONFERENCES/ WORKSHOPS ORGANIZED BY TSSOT

- ❖ CSI sponsored CSI State Student Convention Assam, organized by Department of Computer Science and Engineering, Triguna Sen School of Technology, Assam University, Silchar, on 4th December, 2020.
- ❖ 3rd International Seminar on Intelligent Computing, organized by Department of Computer Science and Engineering, Triguna Sen School of Technology, Assam University, Silchar, on 12th September, 2020.
- ❖ International Web Conference on Recent Advances in Nanoscience & Nanotechnology for High-end Applications (IWCRANHA-2020), Organized by Department of Applied Science and Humanities, Assam University Silchar, during 25th -26th July 2020.
- ❖ One Day International Webinar on Remote Sensing: Trends and Perspectives, organized by Department of Computer Science and Engineering, Triguna Sen School of Technology, Assam University, Silchar, on 2nd July, 2020.
- ❖ One Day International Webinar on Quantum, Data and Algorithms, organized by Department of Computer Science and Engineering, Triguna Sen School of Technology, Assam University, Silchar, on 28th June, 2020.
- ❖ One Week Workshop on Machine Learning and Data Science using Python, organized by Department of Computer Science and Engineering, Triguna Sen School of Technology, Assam University, Silchar, during 24th February, 2020 to 29th February, 2020.
- ❖ An Invited Lecture on Fuzzy Logic in Medical Disease Diagnosis, organized by Department of Computer Science and Engineering, Triguna Sen School of Technology, Assam University, Silchar, on 23rd August, 2019.
- ❖ In-house Training Programme on “Improving Teaching Skills” in collaboration with NITTTR Kolkata, organized by Department of Computer Science and Engineering, Triguna Sen School of Technology, Assam University, Silchar, during 5th August, 2019 to 9th August, 2019.
- ❖ Three Days Training Programme on Soft Skill and Career Development, organized by Department of Computer Science and Engineering, Triguna Sen School of Technology, Assam University, Silchar, during 1st August, 2019 to 3rd August, 2019.
- ❖ AI and Deep Learning Workshop, organized by Department of Computer Science and Engineering, Triguna Sen School of Technology, Assam University, Silchar, during 26th April, 2019 to 27th April, 2019.
- ❖ One Day Workshop on Computational Intelligence: Theories, Application and Future Aspects, organized by Department of Computer Science and Engineering, Triguna Sen School of Technology, Assam University, Silchar, on 8th August, 2017.
- ❖ Ishan Vikas Programme with IIT Roorkee, organized by Department of Computer Science and Engineering, Triguna Sen School of Technology, Assam University, Silchar, during 10th May, 2017 to 10th June, 2017.
- ❖ Ishan Vikas Programme with IIT Indore, organized by Department of Computer Science and Engineering, Triguna Sen School of Technology, Assam University, Silchar, during 1st May, 2017 to 25th June, 2017.
- ❖ 2 Days Finishing School on Succeeding in Group Discussions and Personal Interviews (under TEQIP – II) organized by Triguna Sen School of Technology, Assam University, Silchar in collaboration with TIME, Guwahati during 19–20 September, 2016.
- ❖ One Week Workshop on Role of Statistics in Engineering Research (under TEQIP – II) organized by Department of Computer Science & Engineering, Triguna Sen School of Technology, Assam University, Silchar during 20 – 24 September, 2016.
- ❖ 2 Days Workshop on Speech Processing Application on North-East Languages (under TEQIP – II) organized by Department of Computer Science & Engineering, Triguna Sen School of Technology in collaboration with IEEE Student Branch (STB18601), Assam University, Silchar and CDAC, Kolkata during 9 – 10 August, 2016.
- ❖ 2 Days Workshop on Ethical Hacking conducted by Network Bulls & Redmap eLearning Solution, Gurgaon at Department of Computer Science & Engineering, Triguna Sen School of Technology, Assam University, Silchar during 9–10 October, 2015.
- ❖ IEEE International Symposium on Advanced Computing and Communication (ISACC – 2015) organized by Department of Computer Science & Engineering, Triguna Sen School of Technology, Assam University, Silchar during 14-15 Sept., 2015.
- ❖ TEQIP – II Sponsored One Day Workshop on Intellectual Property Rights organized by Triguna Sen School of Technology, Assam University, Silchar on 28th August 2015.



# SEMINARS/ CONFERENCES/ WORKSHOPS ORGANIZED BY TSSOT

- ❖ TEQIP – II sponsored Two Weeks Faculty Development Programme on Effective Teaching organized jointly by Triguna Sen School of Technology and Assam University Teachers' Association, Assam University, Silchar during 14-25 July, 2014.
- ❖ One Week On-Site Training Course on MATLAB Fundamentals and Signal Processing under TEQIP – II held at Department of Agricultural Engineering, Triguna Sen School of Technology, Assam University, Silchar during April 28 – May 02, 2014.
- ❖ TEQIP-II sponsored One Day Hands on Training on LaTeX held at Department of Information Technology, Assam University, Silchar on 25th March 2014.
- ❖ TEQIP – II Sponsored 3 Days Finishing School on Succeeding in Group Discussions & Personal Interviews organized by Training and Placement Cell, Triguna Sen School of Technology, Assam University, Silchar during February 10 - 12, 2014.
- ❖ 3 Days Workshop on Advanced Web & Mobile Technologies under I-I-I Cell (TEQIP – II) organized by Department of Information Technology, Triguna Sen School of Technology, Assam University, Silchar during December 26 – 28, 2013.
- ❖ Two Weeks On-Site Training Course on “Geographical Information System” (GIS) and Environment for Visualizing Image (ENVI) Tools, Work flows and Analysis” under TEQIP II held during 16 - 27 December, 2013 organized by Department of Agricultural Engineering, Assam University, Silchar.
- ❖ 2 Days Hands-on Training on NETSIM jointly organized by Department of Information Technology, Triguna Sen School of Technology, Assam University, Silchar & TETCOS, Bangalore during 11–12 September, 2013.
- ❖ 13th Workshop on Computational Information Processing jointly organized by Department of Information Technology, Triguna Sen School of Technology, Assam University, Silchar & Electronics & Communication Sciences Unit, ISI Kolkata during 03–07 December, 2012.





# COMMON FACILITIES AND ACADEMIC SUPPORTS

## MECHANICAL WORKSHOP



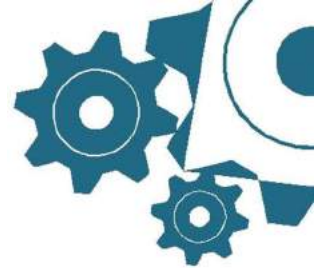
Workshop forms an integral part of the Triguna Sen School of Technology as it is heavily involved in carrying out the manufacturing activities with the help of some sophisticated equipment for the research activities in the school as well as for the undergraduate training on workshop courses for the students throughout the School in every second & third semester. With the assistance of qualified technical staff, undergraduate and postgraduate students are able to carry out the fabrication work for their B. Tech, M. Tech as well as Ph. D. research and thesis works.






The workshop under Triguna Sen School of Technology contains highly sophisticated machines presenting a unique and unparalleled quality. These include Machine Shop, Welding, Fitting, Smithy and Carpentry Shops. The workshop has also Centre Lathes, Turret Lathe, Drilling Machines (sensitive, polar & radial), and Slotting Machine, Grinder Pedestal, Surface Grinder M/C and many other machines.

Prof. Ram Shanker Katheria, Hon'ble Minister of State MHRD, GOI inaugurated the permanent workshop building on 16th May 2015.





## WORKSHOP STAFF

Name		Qualification	Designation
Mr. Lalan Prasad Yadav		B. Tech	Workshop Superintendent
Mr. Monowar Ahmed Barbhuiya		ITI (Fitting, Machinist)	Fitter
Mr. Nataraj Nath**		Diploma in Mechanical Engineering	Blacksmith
Mr. Nurul Amin		ITI (Welding, Fitting)	Welder
Mr. Sushant Deb		Diploma in Mechanical Engineering	Carpenter (Contractual)

**\*\*on lien**







## CENTRAL LIBRARY

The University Central Library was established in 1994. At present the central library has a collection of books over 1,26,000. It also subscribes to nearly 400 Indian and Foreign Journals, 12 newspaper, several magazines. It has a good collection of rare books donated by prominent academicians. Moreover, the facility of more than 10000 Electronic Resources is also available through UGC-Infonet, Delnet & Delcon consortia. Besides these, access to internet is provided to students through 40 terminals. The library provides all academic library services in an automated environment with the help of Koha OS LMS. The library follows open access system where the users can visit the stacks and chose their required documents. The books and library cards are bar-coded for easy operations. The Library remains open from 9.30 am to 7.00 pm on all working days including Saturdays. It has a reading room sitting capacity of 200 and Internet Access Lab with 20 nodes.

## HOSTELS

There are at present nine hostels in the University campus. The hostels are: four for boys and five for girl having approximately 750 single and shared room accommodation. The Hostels are furnished with basic facilities, Hostel seats are limited and every student may not get the seat in hostel. Availability of seats depends upon the vacancy in the Hostel. A separate Booklet Hostel Boarders & conduct Rules of the Hostel is also available. Hostel forms are available at the cash counter of the University Administrative Building and the form has to be filled by the student and submitted to Dean S&W offices. The dean S&W office issued a separate notice for admission to the hostel.



## INTERNET

The school is equipped with one server for providing wireless access to internet throughout the School of Technology. Besides, the school is equipped with up to- date hardware to provide a powerful computing environment.

## AUDITORIUM

The campus has two auditoriums with seating capacity of over 300 and are adequately equipped with uninterrupted power supply, air conditioners and LCD projectors.





## COMPUTER CENTRE

The Assam University Computer Centre is a central facility to facilitate, foster and support the computing and communication needs of the University fraternity. Students have access to more than 50 computers for their lab or project work. To assist research, there is a range of computing environment available, backed by staff with considerable expertise. The Centre has acquired all the latest software/ computers to cater to all types of computing requirements.



## HEALTH CENTRE

The University Health Centre, managed by experienced Medical personnel including Lady Medical Officer, supported by para-medical staff. The centre cater to the medical needs of the University community. The University has introduced Medical Insurance to each student. Besides these, health camps are frequently organized in the campus with specialist doctors from Silchar Medical College. University is issuing Health Card to each student for the extending Medical facilities to the students efficiently.

## GYMNASIUM

A well-equipped Gymnasium exists for both gents & ladies. Interested students can enroll their name for availing these facilities.



## TRANSPORT SERVICE

In addition to State Transport Bus service, six buses are also available for the benefit of both student and staff.





# STUDENTS' ACTIVITY

## NSS ACTIVITY

Students are encouraged in participating NSS (National Service Scheme) activities organized by the Programme Officer and Coordinator, NSS Unit of Assam University. NSS is sponsored by the Ministry of Human Resource Development (MHRD) to train the youths in community services.

## NCC TRAINING

The NCC Units in Assam University arrange NCC training for the students of the University - both boys and girls. For enlisting names for NCC training, the contact person will be the Dean, Students Welfare, Assam University.

## GAMES & SPORTS

Since its inception in 1994, games and sports have been one of the important foci of Assam University's endeavor to facilitate all-round development of students physical and mental abilities. Every year an Annual Social Meet is organized in the University where along with cultural activities indoor and outdoor sports are held. The University is currently a member of the Inter-University Sports Board of India and its teams participate in Zonal and all-India University tournaments bringing laurels and prizes and medals for the University. The Central Sports-complex which is in the process of coming up is expected to give a major boost to games and sports and to other extra-curricular activities of the students in Assam University.

# OPPORTUNITY

## PLACEMENT CELL

The Placement Cell of the University extends counselling services to all placement aspirants. The Cells activities include organization of workshops and lectures by corporate professionals and placement consultants and preparation of students resume / bio-data / curriculum vitae and placement brochure. The Placement Cells in the various departments of the University are currently engaged in developing detailed Employers Database that would help the students to trace out employment opportunities in India and abroad. Since inception, University students are being offered good placement both in Public and in Private sector. Many companies had participated during last couple of years placement programme. The Companies include: IDBI Bank, ICICI Bank, TCS, HSBC Global Outsourcing, Stock Holding Corporation of India, Wipro BPO, Tata Motor Finance, Pradan, Capart, Axis Bank and ICICI Prudential Life Insurance Company. Students from almost all the departments have been participating in the placement sessions.

## FELLOWSHIP

Assam University provides AUS-UGC fellowship. Students are also encouraged to avail meritorious students fellowship, ICSSR Fellowship, JRF/SRF, Dr. D. S. Kothari Fellowship, Rajib Gandhi Fellowship etc.

## SCHOLARSHIP

Following scholarships are applicable for the students who have taken admission in various academic programmes under TSSOT.

"ISHAN UDAY" SPECIAL SCHOLARSHIP SCHEME FOR NORTH EASTERN REGION (Eligibility): Students with domicile of NER who have passed Class XII or equivalent exam from a school situated within NER through any recognized Board of Education, including Central Board of Secondary Education (CBSE), Indian Certificate of

Secondary Education (ICSE), National Institute of Open Schooling (NIOS) within NER only, and have secured admission in general degree course, technical and professional courses including medical and Para-medical courses (Integrated courses included) in Universities/ Colleges/Institutions recognized by UGC under Section 2(f) of UGC Act, within and outside the States of NER.

Important Note: As instructed by the UGC vide letter no F.1-27/2009(SCT), the eligible SC/ST, OBC, and PwD students etc. should submit their scholarship form for the academic year by February, for processing scholarship to SC/ST, OBC, PwD etc. each year.



# STUDENTS WELFARE

The office of the Dean of Students Welfare looks after the welfare of the students with active support of the representatives of the students, faculty and administration. Student Community Centre has been added from the year 2010 for various students' activities.

For the benefit of the needy and deserving students, the University maintains and operates a Fund called the Assam University Students Aid Fund which is instituted out of the contribution from the students of the University and collections from other sources.

The main objective of the Fund is to render financial assistance to poor and deserving students.

There is a Students Council in the University which caters to the students interests and contributes towards the promotion of students extra-curricular activities. The Students Council also organizes a week-long social meet every year. During the seven days, the students display their creative talents in the field of sports and other cultural activities.

## STUDENT'S DISCIPLINE

Each student with respect to his/her work in the course (P.G./Integrated course/ M. Phil/Ph.D./Certificate/Diploma) as well as his/her general conduct in the University, shall remain under the control of the respective School and the Department and shall be guided by the disciplinary code of the University. The Proctor looks after the discipline amongst the students.

A student must have attended a minimum of 75% of the lectures, seminars and tutorials organized by the Department during a semester to be eligible to appear at the end-semester examination. It is mandatory for the students to keep the irrespctive photo identity card with them while moving within the university campus.

There is complete ban on ragging in the campus as per order of the Supreme Court of India. As per guidelines, ragging is strictly prohibited inside or outside the university campus. Each student will be required to submit one affidavit as per the format provided by the MHRD at the time of admission. Format is enclosed along with the forms of admission in the prospectus. If any incident of ragging or any other act of gross violation of discipline comes to notice of the authority, the concerned students will be given adequate opportunity to explain and if his / her explanation is not satisfactory he/she will be expelled from the University. It is being informed to all that in the previous academic session two cases of ragging were detected and punishment was accorded to them.

Also, there is one committee on violence against women and sexual harassment to combat the menace of violence and sexual harassment against women in the campus, if any, and another for looking after the maintenance of discipline and decorum among the students.

## INTERNAL QUALITY ASSURANCE CELL (IQAC)

To act as a nodal agency for coordinating quality related activities, the Assam University has established an Internal Quality Assurance Cell (IQAC) as per UGC - NAAC guidelines in 2008. The cell has Vice Chancellor, as its Chairman and Prof. Asoke K. Sen from Department of Physics as its Director. Some of the responsibilities that the IQAC has been entrusted which include:

- ❖ Development and application of quality bench marks/ parameters for the various academic and administrative activities of Assam University.
- ❖ Facilitating the creation of a learner - centric environment conducive for quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process.
- ❖ Arrangement for feedback responses from students, parents and other stakeholders on quality-related institutional process.
- ❖ Dissemination of information on the various quality parameters of higher education.



# FACILITIES AVAILABLE FOR SC/ST/OBC and PwD

- ❖ There is a provision for reservation of seats for SC, ST, OBC and PWD students @15%, 7.5 %, 27% and 3% respectively. OBC reservation will be allowed excluding creamy layer category as defined by GOI. The candidates seeking admission against OBC quota must submit non creamy layer certificate from the appropriate authority.
- ❖ Relaxation of marks in qualifying examination for SC/ST/ PWD.
- ❖ Selection of SC/ST students for admission in hostel will be made on the basis of their previous qualifying examination results.
- ❖ Rent will not be charged from SC/ST students residing in the University hostels.
- ❖ Coaching for NET or SET to SC, ST & Minority communities' students are available.
- ❖ Coaching for entry into services for SC, ST & Minority communities' students are available

## ADMISSION OF FOREIGN STUDENTS

1. A Foreign student will be required to furnish the following documents from concerned authorities
  - a) Equivalence and Eligibility Certificate from Association of Indian Universities, AIU House, 16, Kotla Marg, New Delhi –110002. (Ph 911112320059 Fax 911123232131)
  - b) Student Visa obtained from the Indian Mission (Embassy/High Commission/Consulate) before leaving his/her home country. However, students from SAARC countries may be selected for admission provisionally on Tourist Visa, subject to production of valid Student Visa.
  - c) A foreign student will be allowed provisional admission on production of the above documents and his/her admission will be confirmed after successful completion of all other formalities as per GOI/AUS rules.
  - d) Foreign diplomats wishing to study M.Phil./PhD courses will be permitted on student visa.
  - e) Foreign students sponsored through cultural exchange programme of the Govt. of India or under the provisions of MoU signed with Foreign Universities will be given preference.
2. 15% supernumerary seats may be available in the universities for admission of foreign students including PIOs as per UGC/GOI rules.
3. 5% of the 15% Supernumerary quota will be earmarked for admission of foreign students being children of Indian workers in the Gulf and South East Asia.
4. A foreign student will have to pay fees as below:
  - a) Self-sponsored students from SAARC countries will pay the same amount in INR as applicable for Indian students.
  - b) Students from SAARC countries who are sponsored by their respective Governments or Government of India as well as students from other developing countries will pay three times the amount as applicable for Indian students in INR.
  - c) Students from other than SAARC countries shall pay, five times the amount as applicable for Indian students in INR.
5. A foreign student seeking admission shall not be required to appear for the admission test procedure provided he/she furnishes letters of references from two teachers testifying his/her suitability for the course applied for and submit the transcript of his/her mark sheet issued by the competent authority.





# RULES & REGULATIONS

## CODE OF CONDUCT FOR STUDENT

- I. Students enrolled at Assam University must recognize their responsibilities to this university, to the teachers, to the officials and to fellow students bearing in mind the prestige and the reputation of the institution. Failure to maintain appropriate standards of conduct, decency and decorum would warrant disciplinary action.
- II. 75% of attendance is compulsory to all the students. A student shall be considered to have satisfied the requirement of attendance for appearing the semester end examination, if he/she has attended not less than 75% of the number of classes held up to the end of the semester including tests, seminars and practical etc.
- III. However, there is a provision for condonation of attendance for the students those who have put up the attendance between 60% and 74% on Medical Grounds on production of medical certificate.
- IV. If a student represents his/ her institution, University, State or Nation in Sports, NCC, NSS or Cultural or any other officially sponsored activities, he/ she shall be eligible to claim the attendance for the actual number of days participated subject to a maximum of 20 days in a Semester based on the specific recommendations of the Head of the Department.
- V. A student who does not satisfy the requirements of attendance shall not be permitted to take internal assessment as well as the Semester end examinations.
- VI. Students should not possess mobile phones/ pagers/ any other electronic device for communication in the class rooms/seminar halls/examination halls/library/any other place of academic interest within the University.
- VII. Any problem related to students must be processed through the DSW or Head of the Departments or Deans of Schools, whose copy may also be forwarded to the Proctor & Students Council.
- VIII. If Students have grievances, they are to register their grievances through the Grievance Redressal Committee of the University. Students are prohibited from approaching any outside agency regarding their grievances.

- IX. Consequent upon the order of the Honble Supreme Court of India on curbing of Ragging in educational institutions, it has been decided that, if any incident of ragging comes to the notice of the authority, the concerned student shall be given adequate opportunity to explain and if his explanation is not found satisfactory, the authority will expel him/her from the University.

## MISCONDUCT

Student misconduct includes but is not limited to the following:

- I. Disruption of classroom activities or hindering the learning of other students anywhere in the University,
- II. Cheating on assignments or examinations,
- III. Behavior, which interferes significantly with the normal operation of the University, disrupts education, challenges the health or safety of staff or students, or causes disfiguration or damage to the property of the University or belongings of staff members or students.
- IV. Possession and/or use of intoxicating beverages on campus,
- V. Possession of illicit drugs in the campus,
- VI. Falsification of documents or the supply of false information in order to obtain admission, the possession of weapons.
- VII. Failure to return loaned materials to settle debts with the university
- VIII. Disobeying any instructions of any kind issued by the Head of the University, i.e. the Vice Chancellor, or the Head of the Department or any authority empowered by the VC to make decisions regarding matters related to students.
- IX. Bringing the University into disrepute by any action / behavior / instigation with a proven intention to tarnish the image of the university.

Failure to adhere to the guidelines as above shall invite strict disciplinary action which may lead up to expulsion from the University.

BESIDES, STUDENTS SHALL HAVE TO ABIDE BY RULES AND REGULATIONS OF THE UNIVERSITY WHICH MIGHT BE ADOPTED FROM TIME TO TIME.



# FEE DETAILS

Sl. No	PARTICULARS	B.TECH	M.TECH
ONE TIME FEE INCLUDE			
1	Admission Fee	500.00	500.00
2	Identity Card	75.00	75.00
3	Placement Brochure fee	1500.00	500.00
ANNUAL FEE INCLUDE			
4	University Development Fund	1500.00	1500.00
5	Transportation Charge	1000.00	1000.00
6	Library Fee	500.00	500.00
7	Sports Fee	100.00	100.00
8	Basic Primary Health Service	200.00	200.00
9	Medical Insurance	320.00	320.00
10	Students Co-curricular Fund	300.00	300.00
11	Students Aid Fund	150.00	150.00
12	Alumni Fee	100.00	100.00
13	Magazine Fee	100.00	100.00
14	Study tour/Industry Visit		
15	Laboratory Fee	1000.00	1000.00
16	Computer Lab & Internet Fee	100.00	100.00
17	School Development Fund	5000.00	5000.00
18	Department Development Fund	6000.00	6000.00
19	Fest/Industry Interface Fee	1000.00	1000.00



Sl. No	PARTICULARS	B. TECH	M.TECH
20	Teaching Materials		
21	Technical Journal Fee		
22	Annual Course Fee	30000.00*	16000.00*
23	Tuitions Fee (monthly @ 200)	2400	2400
REFUNDABLE DEPOSITS			
24	Library Caution Money	1000.00	1000.00
25	Laboratory Caution Money	2000.00	2000.00
<b>Total Payable at The Time of Admission</b>		<b>54845.00</b>	<b>39845.00</b>
Fee payable for Examination (per semester)			
1	Examination fee @ Rs. 200.00 per paper up to maximum of Rs. 800.00 per semester	800.00	800.00
2	University Registration fee	300.00	300.00
3	Mark sheet fee per semester	75.00	75.00
4	Centre Fee	300.00	300.00

**FOR SPONSORED CANDIDATE: \***

Annual Course fee component will be 3 times mentioned above. In addition to the other fees will be payable as applicable.

**FOR FOREIGN STUDENTS:**

1. Five times of the total fees for both B. Tech. and M. Tech. as applicable.
2. For admission of foreign students, the school shall follow the guidelines issued by the Assam University.

*Note:*

1. Students already registered with this university need not pay University Registration fee as applicable.
2. Students admitted through CSAB Special round where seat acceptance fees paid more than the above-mentioned B.Tech. admission fees shall claim for refund of excess amount (excluding processing fee) at their respective departments after the completion of the admission process.
3. Students wanting to cancel / withdraw seat before commencement of class can claim for refund at their respective departments after the completion of the admission process.
4. Admission fees paid to take admission in one particular department will not be adjusted with the admission fee of another department, in case the student wants to change the department anytime during the process of admission.
5. Late admission fee: As per Assam University Rules.



# ADMISSION DETAILS

The admission for 75% of the total seats (in the respective departments) of the B. Tech programme shall be filled up by Joint Entrance Examination Main (JEE Main) conducted by the C.B.S.E. The total seats are regulated by **CENTRAL COUNSELLING BOARD** (through all India Counseling based on the all-India Rank of a candidate in the JEE-Main. Candidates are advised to follow **CCB** instructions. Moreover, Selection for remaining 25% (in each department) of the seats in the B. Tech programme will be filled up through admission test conducted by the School. For B. Tech (Lateral Entry) Programmes all the seats shall be filled up through admission test conducted by the school.

DEPARTMENT	TOTAL NO. OF SEATS AVAILABLE	ALLOCATION OF SEAT FROM CENTRAL COUNSELING BOARD (75% OF TOTAL SEATS)	ALLOCATION OF SEAT FROM ADMISSION TESTS CONDUCTED BY SCHOOL (25% OF THE TOTAL SEATS)
AGRICULTURAL ENGINEERING	75	56	19
COMPUTER SCIENCE & ENGINEERING	75	56	19
ELECTRONICS & COMMUNICATION ENGINEERING	75	56	19





# ELIGIBILITY CRITERIA

Programme	Academic Qualification	Maximum age limit	Eligible for Admission to the Department	Scheme of Examination
<b>UG (75% seats)</b>	10+2/ Higher Secondary	As per CSAB guidelines	B. Tech in AGE/ CSE / ECE	Joint Entrance Examination Main (JEE Main) conducted by the C.B.S.E. The total seats are regulated by Central Seat Allocation Board (CSAB) through all India Counselling based on the all-India Rank of a candidate in the JEE- Main. Candidates are advised to follow CSAB instructions.
<b>UG (25% seats)</b>	10+2/ Higher Secondary who secured 45% (40% for SC/ST/PwD/OBC-NCL) marks with science subjects only.	21 years as on last date of application	B. Tech in AGE	On the basis of qualifying examination.
	1. 10+2 / Higher Secondary with aggregate 60% marks (55% for SC/ST/PwD and 54% for OBC-NCL) 2. Mandatory subjects: Physics, Mathematics and any one subject from Chemistry, Biology, Biotechnology, Computer Science, Statistics or Technical vocational subjects. 3. Qualifying marks in each subject.		B. Tech in CSE	
	1. 10+2 / Higher Secondary with aggregate 60% marks (55% for SC/ST/PwD and 54% for OBC-NCL) 2. Mandatory subjects: Physics, Chemistry, and Mathematics (PCM) 3. Qualifying marks in each subject (PCM)		B. Tech in ECE	
<b>UG (Lateral Entry)</b>	10+3/10+2+2/10+2+3 Years Diploma in Agricultural Engg./ Civil Engg./ Mechanical Engg./ Food Engg. or Technology discipline with minimum 60% (55% for SC/ST/PwD and 54% for OBC-NCL) marks in qualifying diploma.	25 years as on last date of application	B. Tech in AGE	On the basis of qualifying examination.
	10+3/10+2+2/10+2+ 3 Years Diploma in Computer Science Engg./Information Technology discipline with minimum 60% (55% for SC/ST/PwD and 54% for OBC-NCL) marks in qualifying diploma.		B. Tech in CSE	
	10+3/10+2+2/10+2+ 3 Years Diploma in Electronics & Communication Engg. /Electronics & Instrumentation Engg. /Electrical & Electronics Engg. Or Technology discipline with minimum 60% (55% for SC/ST/PwD and 54% for OBC-NCL) marks in qualifying diploma.		B. Tech in ECE	



Programme	Academic Qualification	Maximum age limit	Eligible for Admission to the Department	Scheme of Examination
<b>PG</b>	BE/B. Tech or A.M.I.E degree in Agricultural Engg. / Civil Engineering from a recognized Institute / University with minimum of 55% marks (50% for SC/ST/PwD/OBC-NCL)	NIL	M.Tech. in Aquacultural Engineering under the department of AGE	PG admission shall be conducted through CUCET- 2021/ Departmental selection.
	BE/B. Tech or A.M.I.E degree in Agricultural Engg. / Civil Engineering from a recognized Institute / University with minimum of 55% marks (50% for SC/ST/PwD/OBC-NCL)		M.Tech. in Water Resource Development and Management under the department of AGE	
	BE/B. Tech or A.M.I.E degree in Agricultural Engg. / Mechanical Engineering from a recognized Institute / University with minimum of 55% marks (50% for SC/ST/PwD/OBC-NCL)		M.Tech. in Farm Machinery and Power Engineering under the department of AGE	
	BE/B. Tech or A.M.I.E degree in Agricultural Engg./ Food Engg./Chemical Engg. Or Technology/ M. Sc. in Food Processing Technology/ Food Technology / Post Harvest Technology / Food Engineering and Technology from a recognized Institute/ or University with minimum of 55% marks (50% for SC/ST/PwD/OBC-NCL)		M.Tech. in Food Processing Engineering under the department of AGE	
<b>PG</b>	<ul style="list-style-type: none"> <li>BE/B.Tech or A.M.I.E degree in Computer Science &amp; Engineering/ Information Technology/ Electronics/ Electrical Engg. or equivalent from a recognized Institute/ University with a minimum of 60% marks in aggregate (55% for SC/ST/PwD and 54% for OBC-NCL)</li> </ul> OR <ul style="list-style-type: none"> <li>M.Sc. in CS/ Electronics/ IT/ Mathematics/ Physics or equivalent with minimum of 60% marks in Aggregate (55% for SC/ST/PwD and 54% for OBC-NCL)</li> </ul> OR <ul style="list-style-type: none"> <li>MCA with minimum of 60% marks in Aggregate (55% for SC/ST/PwD and 54% for OBC-NCL)</li> </ul>	NIL	M.Tech. in Computer Science & Engineering under the Department of Computer Science & Engineering.	PG admission shall be conducted through CUCET- 2021/ Departmental selection.
<b>PG</b>	<ul style="list-style-type: none"> <li>BE/B.Tech or A.M.I.E degree in Electronics &amp; Communication Engineering/ Computer Science &amp; Engineering/ Electrical Engineering/ Information Technology/ Electrical &amp; electronics Engg. or equivalent from a recognized Institute/ University with minimum of 60% marks throughout the academic career (55% for SC/ ST/PwD and 54% for OBC-NCL)</li> </ul> OR <ul style="list-style-type: none"> <li>M.Sc. in Electronics /Physics (with specialization in Electronics) or equivalent with minimum 60% marks in aggregate throughout the academic career (55% for SC/ST/PwD and 54% for OBC-NCL)</li> </ul>	NIL	M.Tech. in Microelectronics & VLSI Design under the Department of Electronics and Communication Engineering	PG admission shall be conducted through CUCET- 2021/ Departmental selection.

**Reservation of seats/ relaxation for the above-mentioned programme shall be provided as per Govt. of India rules.**



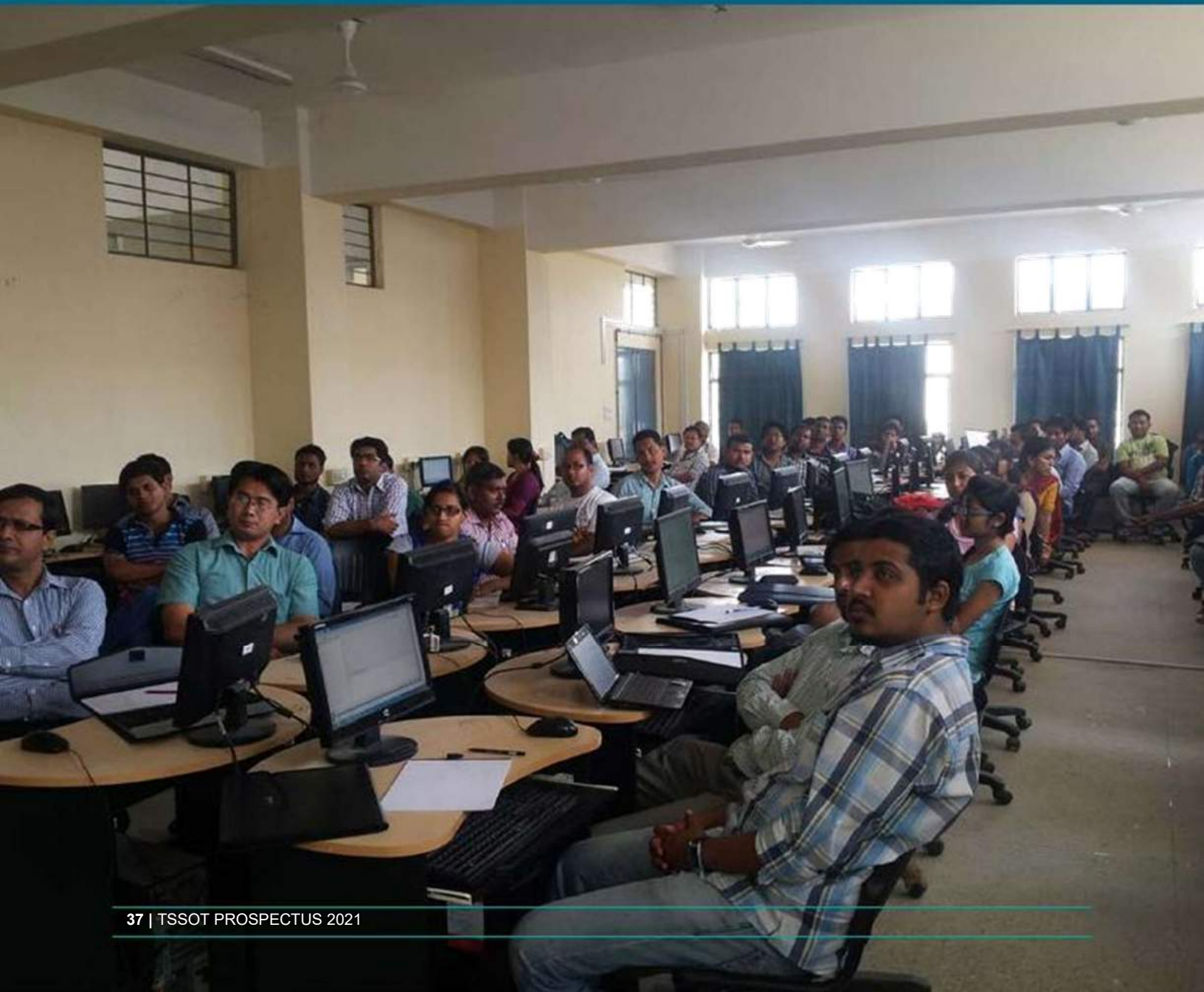
# HOW TO APPLY

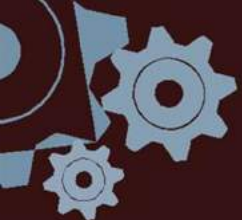
As per UGC guideline the admission process will be conducted through online mode only.

The applicants should fill up their application form through online from the official website of Assam university [www.aus.ac.in](http://www.aus.ac.in). for M.Tech & B.Tech (25% and Lateral Entry). All matters relating to the admission such as submission of forms, fees, attachment of certificates has to be done online.

Candidates may apply online for the course(s) on payment of Rs. 600.00 (for General and OBC students), Rs. 500/- (for OBC Non Creamy Layer/ EWS Category) and Rs. 400.00 (for SC/ST/PWD students) through online payment only. The weblink for the purpose shall be <https://ausexamination.ac.in/admission/>

All shortlisted candidates will have to appear for admission test followed by personal interview at the respective departments of the Triguna Sen School of Technology.





# Academic calendar 2021-22

ACADEMIC CALENDAR	
ODD SEMESTER: August, 2021- March, 2022	
Registration of all continuing students Online (Google Form/other tool)	10th -13th August 2021
Paper Registration of students with backlogs (Google Form/other tool)	14th -17th August 2021
First Day of Instruction for all continuing students excluding B.Tech. (Lateral) and newly admitted students (Online/Offline/Blended)	10th August 2021
First Day of Instruction for B.Tech. & M.Tech. First year students (Online/Offline/Blended)	1st Week of September 2021
1st Internal for all continuing and B.Tech. (Lateral) newly admitted students (Online/Offline/Blended)	2nd Week of September 2021
Puja Vacation (Continuing online classes optional for the concerned)	21th October to 5th November 2021
Mid Term Examination (Online/Offline/Blended)	2nd Week of November 2021
2nd Internal (Online/Offline/Blended)	3rd Week of November, 2021
Date of showing the evaluated mid-term answer scripts to the students (within 5 days from the date of examination/receipt of answer scripts)	3rd week of November 2021 onwards
Last date for submission of mid-term marks by the Department to CoE	18th November 2021
Submission of Internal Marks	29th November, 2021
End Semester Examination (Online/Offline/Blended as applicable)	14th December 2021 onwards
Date of showing the evaluated answer scripts to the students (within 7 days from the date of examination/receipt of answer scripts)	21st of December 2021
Last date for submission of marks by the Department to CoE	7th of January 2022
Declaration of Results	21st January 2022



<b>EVEN SEMESTER: March - August, 2022</b>	
Paper Registration of all continuing students for the semester (Google Form/other tool)	17th -19th January 2022
First Day of Instruction (Online/Offline/Blended)	20th January 2022
Paper Registration of students with backlogs (Google Form/other tool)	20th -22nd January 2022
1st Internal	2nd week of February 2022
Mid Term Examination	2nd Week of March 2022 onwards
Last date of showing the evaluated mid-term answer scripts to the students (within 5 days from the date of examination/receipt of answer scripts)	3rd Week of March 2022 onwards
Last date for submission of mid-term marks by the Department to CoE	28th March 2022
2nd Internal (Online/Offline/Blended)	2nd week of April 2022
Submission of Internal Marks by the Department to CoE	4th Week of April 2022
End Semester Examination (Online/Offline/Blended)	10th May- 2022 onwards
Date of showing the evaluated answer scripts to the students (within 7 days from the date of examination/receipt of answer scripts)	17th May 2022 Onwards
Last date for submission of marks by the Department to CoE	30th May 2022
Declaration of Results	20th June 2022
Summer training / Internship programme	1st June to 30th June 2022



# FOR ADMISSION ENQUIRY CONTACT

NAME & DESIGNATION	CONTACT NO.
<b>Mr. Lalan Prasad Yadav</b> <i>Admission Coordinator, BTech</i>	+91-7002263933
<b>Prof. Laxmi Narayan Sethi</b> <i>Head Department of Agricultural Engineering</i>	+91-9864372058 / +91-9401847943
<b>Dr. Pranab Sarkar</b> <i>Head (i/c), Department of Applied Science and Humanities</i>	(03842) 270 990 (O)
<b>Dr. Sunita Sarkar</b> <i>Head Department of Computer Science and Engineer</i>	(03842) 270 988 (O)
<b>Prof. Debaprasad Das</b> <i>Head Department of Electronics and Communication Engineering</i>	(03842) 270 281 (O)

Official Address:

**Assam University**  
Silchar, Assam, Pin: 788011  
Website: [www.aus.ac.in](http://www.aus.ac.in)





# DATES TO REMEMBER

Name of the Programme	Starting Date of Online Application	Last date of Online Application Submission	Entrance Examination/ Admission Test	Display of 1 <sup>st</sup> list of Provisionally Selected Candidates	Date of Admission from 1 <sup>st</sup> List	Display of list of provisionally selected candidates from waiting list	Date of Admission from waiting list
B. Tech. (75% Seats) (For AGE, CSE & ECE)	Candidates appearing for / possessing valid JEE score and eligibility criteria are required to apply for the B.Tech. Admissions through Central Counselling Board and Spot Counselling (if required) as per the schedule to be notified by Central Seat Allocation Board (CSAB)/ (JoSAA)/ Triguna Sen School of Technology.						
B. Tech. (25% Seats) (For AGE, CSE & ECE)	12 <sup>th</sup> July, 2021	9 <sup>th</sup> August, 2021	13 <sup>th</sup> - 14 <sup>th</sup> August, 2021	17 <sup>th</sup> August, 2021	17 <sup>th</sup> - 19 <sup>th</sup> August, 2021	21 <sup>st</sup> August, 2021	21 <sup>st</sup> - 24 <sup>th</sup> August, 2021
B. Tech. (Lateral Entry) (For AGE, CSE & ECE)	12 <sup>th</sup> July, 2021	9 <sup>th</sup> August, 2021	13 <sup>th</sup> - 14 <sup>th</sup> August, 2021	17 <sup>th</sup> August, 2021	17 <sup>th</sup> - 19 <sup>th</sup> August, 2021	21 <sup>st</sup> August, 2021	21 <sup>st</sup> - 24 <sup>th</sup> August, 2021
**M. Tech. (For AGE, CSE & ECE)	12 <sup>th</sup> July, 2021	9 <sup>th</sup> August, 2021	13 <sup>th</sup> - 14 <sup>th</sup> August, 2021	To be intimated later based on the results of CUCET (if conducted) and Departmental Admission Test			
	** Candidates appearing for /possessing valid Central University Common Entrance Test (CUCET) score and eligibility criteria are required to apply for the M.Tech. admissions through online portal.						

**NOTE:** Students are advised to visit the University website regularly for further details.

**AGE**-Department of Agricultural Engineering

**ECE**-Electronics and Communication Engineering

**CUCET**-Central University Common Entrance Test

**CSE**-Computer Science and Engineering

**JoSAA**-Joint Seat Allocation Authority

**JEE**-Joint Entrance Examination





**Triguna Sen School of Technology**  
**Assam University, Silchar**  
Cachar District, Silchar, Assam - 788011  
03842 270 806 / 9401847943  
<http://www.aus.ac.in/>