



TRAINING AND PLACEMENT CELL
ASSAM ENGINEERING COLLEGE
(GOVERNMENT OF ASSAM)



PLACEMENT
BROCHURE 2025-26

ASSAM
ENGINEERING
COLLEGE

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Assam Engineering College

"SERVICE BEFORE SELF"

Established with the above motto in the year 1955 and inaugurated by Pandit Jawaharlal Nehru. Assam Engineering College (AEC) made its mark as the first engineering institute of North-East India. It is also an **NBA accredited** institution.

Assam Engineering College was established to provide skilled technical personnel for the implementation of national schemes. Over the years, it has upheld its promise to deliver the best by offering quality technical education, sensitizing students to societal needs, and maintaining strong ethical standards.

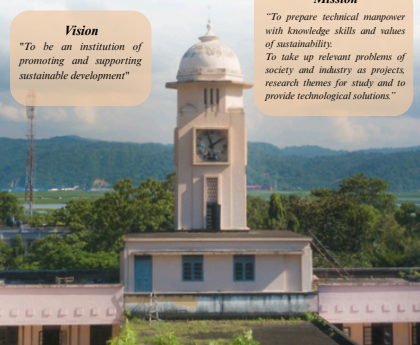
Vision

"To be an institution of promoting and supporting sustainable development"

Mission

"To prepare technical manpower with knowledge skills and values of sustainability.

To take up relevant problems of society and industry as projects, research themes for study and to provide technological solutions."



WHY RECRUIT AT

ASSAM ENGINEERING COLLEGE?

THE PIONEER OF NORTHEAST INDIA

Being the First Engineering College of North-East India and standing tall for more than half a century AEC enjoys the status of venerable Institute of India.

GLORIOUS RECORD

Alumni of AEC have excelled by leaps and bounds across various fraternities and have held important positions in upper echelons of various organisations. Our alumni network is one of the most revered.

SURVIVAL OF THE FITTEST

AEC attracts the top 400 candidates which is less than 2% of total number of completing candidates in the State Level Engineering Entrance Examination. This procedure endures that only the best of the lot make it to the institute.

CUTTING-EDGE CURRICULUM AND INNOVATION HUB

AEC provides a forward-thinking curriculum that blends theory and practical application, preparing students for rapidly evolving industries. The institute cultivates an innovative environment, encouraging students to pursue projects and internships that advance technology, research, and design, thereby equipping them for real-world challenges.



FROM

PRINCIPAL'S DESK



DR. BIPUL TALUKDAR

PRINCIPAL, AEC

Assam Engineering College, the first government engineering college in North-East India, was established in the year 1955. This premier institute celebrated its golden jubilee in 2005.

The glorious journey of AEC Started with admission of First batch of student only in Civil Engineering during 1955. The college provides Bachelor course in Mechanical, Civil, Electrical, Chemical, Electronics & Tele Communication, Computer Science, Instrumentation and Industrial Production Engineering. The college also provides Post Graduate and PhD Courses.

In changing contemporary context, AEC needs Shared Vision for creating ecologically literate, professionally competent and socially responsible engineers. I welcome you to AEC and hope AEC will give you the best.

FROM

THE DESK OF TRAINING AND PLACEMENT OFFICER



DR. SATYAJIT BHUYAN
FACULTY CUM TPO



DR. ASHIM KUMAR BASUMATARY
FACULTY CUM TPO

Placement has become increasingly challenging with the recent expansion of technical education in India. The employability of a technical graduate is now closely tied to their specific skills, including technical and mathematical abilities, core skills like teamwork, leadership, and critical thinking, as well as personal characteristics such as professionalism and effective communication. At Assam Engineering College, the strong tradition and culture that has been nurtured over decades have greatly influenced students, allowing them to develop many of these skills, often unconsciously, by following in the footsteps of their seniors.

Assam Engineering College (AEC) has a distinguished reputation, both within and outside India, for its deep-rooted value system. With over five decades of rich tradition, AEC has consistently been the top choice for technical education in the North-East, recognized for its unwavering commitment to quality. Our Training and Placement Cell is dedicated not only to securing the best placement opportunities for our students but also to ensuring they are fully prepared to meet industry expectations. By actively incorporating feedback from both the industry and our alumni, we continually strive to enhance the quality and employability of our students.

ADMISSION PROCEDURE

COMBINED ENTRANCE EXAMINATION (CEE)

Admission is allowed only to the students clearing state level combined entrance exam course (CEE) conducted by Assam Science and Technology University, Assam in line with JEE. Every year 20,000-25,000 aspirants appear in CEE and approximately only the top 2% of the appeared students get the opportunity to study at AEC.

As per AICTE norms, an additional number of diploma engineers, which is equal to the 1% of the capacity of each B.Tech course, are admitted in the 3rd semester. In this case the willing students are required to take the Joint Lateral entrance examination conducted by Assam Science and Technology University, Assam. AEC also conduct PG Entrance Examination under guideline of Directorate Of Technical Education, Assam to get admission to M-Tech courses.



ACADEMIC PROGRAMME

The different programs at Assam Engineering College (AEC) are designed to build the fundamentals and cater to the industry needs.

UNDERGRADUATE PROGRAMMES

BACHELOR OF TECHNOLOGY(B.TECH)

- Admission Through : CEE
- Duration: 4 years
- Final year project: 1 year
- Industrial training: 1 month

AVAILABLE BRANCHES

- Civil Engineering
- Mechanical Engineering
- Electrical Engineering
- Chemical Engineering
- Electronics and Telecommunication Engineering
- Computer Science and Engineering
- Instrumentation Engineering
- Industrial and Production Engineering



ACADEMIC PROGRAMME

POSTGRADUATE PROGRAMMES

MASTER OF TECHNOLOGY (M.TECH)

DURATION: 2 YEARS

THESIS DURATION: 1 YEAR

At the post graduate level, AEC offers Master of Technology (M-Tech) programmes for engineering graduates and Master of Computer Application for graduates. For M-Tech courses, the students are selected based on an entrance examination conducted by college. The MCA aspirants need to take a state-level entrance exam conducted by the Directorate of Technical Education (DTE), Assam called the Joint MCA Entrance Examination (JMEE). The following departments offer M.Tech with various specializations in the following :

- Civil Engineering
(Specialization: Geo-Tech & Water resource)
- Electrical Engineering
(Specialization: Power System Engineering)
- Mechanical Engineering



DOCTORATE LEVEL

AEC offers Ph.D. Programs in all the branches of engineering available in the college. Selection in the Ph.D. Program is done through an entrance examination conducted by college under direct supervision of ASTU. The Ph.D. scholars perform their research under expert faculties requiring having publication in reputed journals and conferences.

MCA PROGRAMME

The Department of Computer Applications at AEC was formed in 1990 with the approval of Ministry of Human Resource & Development. It provides the program of Master of Computer Applications (MCA), which has been designed keeping in mind the needs of the Global Information Technology Industry.

TRAINING AND PLACEMENT CELL



THE T&P CELL

Scripting Success Stories



The Training and Placement Cell of Assam Engineering College plays a pivotal role in shaping the professional journey of its students. As a cornerstone of the college's career development ecosystem, the TPC has transformed AEC into a vibrant hub of opportunities and growth. Each year, a significant number of students secure placements in some of the most reputed and leading industries across various sectors.

Beyond placements, the TPC is committed to guiding AECians toward fulfilling and enriching career paths. It serves as a launchpad, introducing talented aspirants to a world of limitless possibilities. With a focus on equal opportunity and holistic development, the Cell ensures that every student is equipped and empowered to pursue their dream careers in the right direction.

FACILITIES AT TRAINING AND PLACEMENT CELL



- Group discussions and personal interviews can be conducted smoothly in fully furnished GD and interview rooms that have online video conferencing capabilities and high-speed internet connectivity available around the clock



- On-campus accommodation, food, and travel arrangements from the airport and railway station for the company executives are arranged by the cell.



- The coordinators of the training and placement cell provide full assistance throughout the placement process.



- With a total seating capacity of more than 130, the well-equipped seminar and lecture halls have projectors, microphones, sound systems, and Wi-Fi for conducting pre-placement talks, workshops, seminars, etc.

CONTACT

Interested Companies or organisations connect with the Training and Placement Cell, Assam Engineering College through email at placement@aec.ac.in

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STEP

01

MUTUAL INFORMATION SHARING

Companies/ Organizations send emails detailing job profiles, descriptions, eligibility criteria, CTC, and the selection process, which are then communicated to students. The Training and Placement Cell schedules dates based on availability and convenience.

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STEP

02

FORMAL INVITATION

Invites are sent to the companies/organisations with relevant information along with the Placement Brochure and Batch Demographics through email.

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STEP

03

STEP

04

PRE-PLACEMENT TALKS & PLACEMENT PROCESS

Interested Companies/Organizations can request to conduct a Pre-Placement Talk. These recruiter-led presentations offer students a direct introduction to the company, followed by the placement process stages according to the recruiter's specifications.

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FINAL DECLARATION

Upon completing the selection process, the company provides the list of selected students along with their offer letters to the Training & Placement Cell, marking the conclusion of the placement session.

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STEP

05



THE T&P CELL

ACTIVITIES AT T&P CELL

Scripting Success Stories

GROOMING ACTIVITIES:-

- A seminar on Group Discussion (GD) and Personal Interview (PI) was organized in collaboration with TIME, conducted by Mr. Soumen Das, and was followed by a mock session to provide practical exposure to the participants.
- Mock Interview By Mr. Prasanna Kumar Hazarika, Retd. GM, APDCL For Electrical Engineering Students.
- Mock Interview By Mr. Jayanta Baruah, Director-Skill Development Institute For Mechanical Engineering Students.
- Holding Of AMCAT Exam For Measurement Of Employability Of Technical Students.



OUTREACH ACTIVITIES:-

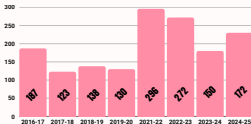
- The BARC outreach program, conducted on 27th January 2024 at the Assam Engineering Seminar Hall, featured esteemed dignitaries Dr. Amit Sharma and Dr. Narasimha Anaganti, who shared their expertise on nuclear science and technology.
- The Indian Air Force successfully conducted an engaging and informative publicity drive featuring an interactive session, hands-on experience with the Induction Publicity Exhibition Vehicle (IPEV), and distribution of goodies to students, effectively raising awareness about career opportunities within the IAF.
- An inspiring session on entrepreneurship was organized at Assam Engineering College, featuring Partha Kakati and Rimjhim Deka, founders of Little Box, who shared their entrepreneurial journey and valuable insights with the students.
- Various Awareness/Educational Programs by Experts From BARC, STPI, SMIT, GMC, ASEB, PGCI Etc. From Time to Time.
- Webinar On Steam Turbine Power Plant (NTPS) By Mr. Bulbul Bhuyan, Retd. Engineer Of ASEB For Electrical Engineering Students.
- Webinar On Soft Skill Development by N.B. Debchowdhru Prof. NIT Slicher.
- T&P Team Visited IIT Madras Research Park Incubation Cell, Many Companies In Hyderabad And Bangalore, OIL, NRL BCPL, Gas Company.
- Holding Of AMCAT Exam For Measurement Of Employability Of Technical Students.
- Webinar On GM, ASEB M Power System Control By Mr. Tanuj Baruah, GM ASEB.



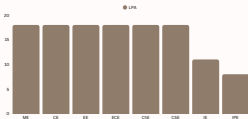
PLACEMENT STATISTICS 2024-25

Scripting Success Stories

Session	Total Placed	Highest CTC	Average CTC	Companies Visited
2021-22	296	24 LPA	7 LPA	50+
2022-23	272	24 LPA	6.8 LPA	50+
2023-24	150	18 LPA	7 LPA	50+
2024-25	172	18 LPA	7LPA	50+



Recent Statistics



Branch wise Highest Package

BATCH OF 2026 DEMOGRAPHIC

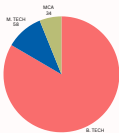
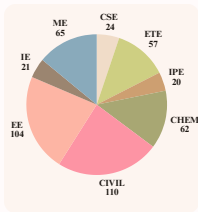
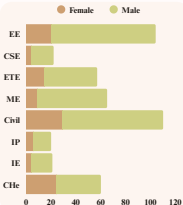
Scripting Success Stories



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INDUSTRY EXPERIENCE



OUR PAST RECRUITERS



zaloni



vedanta

transforming for good



TVS



Together for Tomorrow



TATA POWER

tcs

TATA CONSULTANCY SERVICES



ELECTRONICS



TATA CHEMICALS



Reliance Industries Limited



Indian Oil Corporation Limited

Tech Mahindra



ऑयल इंडिया लिमिटेड
Oil India Limited



LARSEN & TOUBRO

amazon



JINDAL STEEL & POWER



Hindustan Unilever Limited



HAVELLS

Infosys



DENSO



HUAWEI

GAMMON Builders to the Nation



FEDERAL BANK
YOUR PERFECT BANKING PARTNER



Capgemini



BishwasgaurCracker and Polymer Limited



BOSCH



ASEB



OUR PAST RECRUITERS



OUR PAST RECRUITERS

A

ABB INDIA
ABC INFRASTRUCTURES PVT LTD
ADANI GUWAHATI INTERNATIONAL
ADPORT ABSOLUTE SURVEYORS
PVT LTD
ACCENTURE
ADHUNK GROUP
ADNIG TECHNOLOGIES
ADVAIT VEDANTA INSTITUTE OF
TECHNOLOGY
ADITYA BIRLA GROUP
AFCONS INFRASTRUCTURE LTD
AMERICAN TOWER CORPORATION
AMW APGCL (ASER)
APL (NAMRUP)
ARDEN
AREVA
ARISTOCRAT GAMING
ASEB
ASHOK LEYLAND
ASIAN MOTORS
ASIAN OIL SERVICES
AMAZON
ABAQUS INC.

B

BARC
BCPL
BEL
BALCO
BERGER PAINTS
BHARTI INFRASTRUCTURE
BHIL
BHET, SIKAR
BOC
BOSCH
BPCL
BRIGOSIA TECHNOLOGIES
BRITISH PAINTS
BUTCHER
BLACK TIGER CEMENT BYJUS

C

CALCOM CEMENT
CAPGEMINI
CALICHE PVT LTD
CDB LTD
CENTURY LINK
CENTURY PLY
COCURS
COFFEE DAY BEVERAGES
COGNIZANT
CRID TECHNOLOGY PVT
LTD
CONCEPT EDUCATIONS
CONTROL PRINT CUE
LEARN CUMMINS GROUP

D

DATALOGICS INDIA PVT LTD
DELL INDIA
DENSO
DENSO GLOBAL
DIRECT-4
DALMIA

E

ELLENBARRIE INDUSTRIAL GASES
LTD
EMAMI LTD
ENERGY INFRASTRUCTURE PVT LTD
ERICSSON INDIA
EUREKA FORBES
EVEREADY
ETS INFRASTRUCTURES

F

FEDERAL BANK
FUTURES FIRST

G

GALLUP CONSULTANCY
GAMMON INDIA
GANNON AND DUNKERLY
GENERAL ELECTRIC HEALTHCARE
GENPACT
GERUDA POWER
GNG CEMENTS
GODREJ & BOYCE
GODREJ CONSUMER PRODUCT
GSG

H

HALLIBURTON
HAVELLS
HCC
HINDUSTAN STEELWORKS
CONSTRUCTION LTD.
HINDUSTAN UNILEVER LIMITED
HPCL PAPER
HUAWEI
HUMAN RESOCIA CO. LTD.

I

IBM
ICICI
IMC
IMH SOFT
INDIA FIRST LIFE
INSURANCE INFOWAYS
INNOVED TECHNOLOGIES
INTERGLOBE
INTERVIEW AIR
IOCL
ITCL
ITC FOODS
ITD CEMENTATION INDIA
LTD IVRCL

J

JENDAL STEEL & POWER LTD
JUD CEMENT
JOHNSONS CONTROL
JUBILANT

K

KALPATARU POWER TX
KANBAY
KAZIRANGA UNIVERSITY
KC ENGINEERS PVT LTD
KEC INTERNATIONAL
KENNAMETAL
KIRLOSKAR BROTHERS LTD
KSK ENERGY

L

L & T INFOTECH
L & T LTD
LIBRESOFT
LIFE HEALTH
LNJ BHILWARA GROUP
LUIT MINERALS

M

MAHINDRA ENGINEERING
MARICO
MAVERIC
MAX CEMENT
MEGHA ELC
MICROSOFT INDIA
MOHISOFT TECHNOLOGIES
MUSIGMA

OUR PAST RECRUITERS

N

NAGMAN INSTRUMENTS
NCOMPASS TECHSTUDIO
NILE STREAM
NPCC
NRL
NANO INFORMATICS

O

OASIS
OIL
ONGC
OVO ROOMS

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PAHARPUR COOLING TOWERS
LTD
PARKER HANNIFIN
PARKING RIBNO
PATEL ENGINEERING LTD
PATIL GROUP
PHILIPS INDIA
POLYCARB
POSCO STEELS
POWERGRID
PRADAN
PREMIUM TRANSMISSION
LIMITED
PROGRESS SOFTWARE PVT LTD
PROTECH GROUP
PUNJ LLOYD

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QUEST

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REGALIX
RELIANCE
RELIANCE POWER LTD.
RELIANCE TELECOM
RESONANCE
RITES LIMITED
RIVIGO
RMC READYMIX
RNB CEMENT
ROYAL GROUP OF INSTITUTION
ROYAL UNIVERSITY OF BHUTAN
RVNIL

S

SAMSUNG ELECTRONICS
SAP LABS INDIA
SATYAM
SC JOHNSON
SCHWING STETTER
SESTA
SEW CONSTRUCTION
SHERIRAM
SIB & JET'S LIFE
SIGNUM ITECHNOLOGY
SIMPLEX INFRASTRUCTURES LTD
SIMS
SIS PROSEGUR
SLING INFOCOM
SM GROUP
SMARTPIX
SOLITARIE
SOMA ELECTRONIC
SONY SOFTWARE
SPEECHWARENET
SPML INFRA LIMITED
SSDA
STAR CEMENT
STERLING
SUBEX
SIMPLILEARN
SCHINDLER
SYNORIQ

T

TAFE
TATA CHEMICALS
TATA ADVANCED SYSTEMS
LIMITED
TATA CONSULTANCY SERVICES
TATA CONSULTING ENGINEERS
LIMITED
TATA ELXSI
TATA POWER
TATA TECHNOLOGIES LIMITED
TECH BRIVO
TECH MAHINDRA
TECHNOSOFT CONSULTANCY
TEXAS INSTRUMENTS
THERMAX
THOMSON DIGITAL
TOPCEM CEMENT
TORRECID GROUP
TRACTORS INDIA LTD
TRAWELLTAG
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TVS MOTORS

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UDYOGINI
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UNSCHOOL

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VEDANTA
VODAFONE-IDEA
VALUELABS

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WIPRO LTD
WSP
WYREFLOW TECHNOLOGY

X

XL DYNAMICS

Y

YODLEE
YIHILLS

Z

ZALONI
ZENOOVA TECHNOLOGIES
PVT LTD
ZOLA CODE

NOTABLE ALUMNI



DHRUBAJYOTI GOGOI

Vice President,
Morgan Stanley

RAJONISH BARUAH

Additional Director,
Oil Industries
Safety Directorate

NILOTPAL BORUAH

CEO,
Tech Variable

HIDAM RAJEEV SINGH

Scientist,
ISRO

PRATIP DAS

Technical Program
Manager, META

BHASKAR PHUKAN

Director,
NRL

ANITA PAL

General Manager,
NTPC

DIPANKAR SENGUPTA

Deputy Director
General at National
Informatics Centre,
MeitY

DAVID GOGOI

Director,
Zerund

NOTABLE ALUMNI



AGAD MEDHI

Executive director,
OIL

VIJAY ASHOK SHARMA

Talent Acquisition,
Google

DIPAK CHAKRABORTY

Chairman,
Assam Engineering
Service recruitment
board

JOGEN BORPUJARI

Ex-executive
director, IOCL

PANKAJ KUMAR GOSWAMI

Director(Operations)
OIL

MINTOO KAKATI

Program Management
leader,
Amazon

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Apple

SANTANU K CHOUDHURY

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JP Morgan Chase &
Co

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BHARGAV BORPATRA GOHAIN

GEOTECHNICAL ENGINEERING

AVIK BARMAN

POWER SYSTEMS ENGINEERING

DARADI PHUKAN

CIVIL ENGINEERING

Established in 1955, the Civil Engineering Department of Assam Engineering College was the first branch introduced at the institution. Known for its pioneering work in Earthquake Engineering since 1972, the department boasts highly qualified faculty and well-equipped laboratories. The department is known for its experienced faculty, strong academic foundation, and active involvement in research and consultancy projects. The department has an annual intake of 110 students for the B.Tech program and 36 students for the M.Tech program. Additionally, it offers PhD programs specializing in various areas of Civil Engineering. The department is actively involved in sponsored research and provides industrial consultancy services to government bodies, public sector units (PSU's), and reputed private sector organisation

CORE SUBJECTS

- Building Construction And Planning
- Strength Of Materials
- Engineering Surveying
- Engineering Geology
- Construction Materials & Concrete Technology
- Fluid Mechanics
- Hydraulics & Hydraulics Machines
- Structural Analysis
- Structural Design
- Environmental Engineering
- Geotechnical Engineering
- Transportation Engineering
- Engineering Hydrology
- Open Channel Flow & Irrigation Engineering
- Quantity Survey And Estimation
- Construction Project Management

ELECTIVE SUBJECTS

- Advanced Engineering Geosciences
- Prestressed Concrete
- Flood Management And River Engineering
- Optimization Techniques
- Design Of Sub-Structures
- Water Resources Engineering
- Earthquake Engineering Labs

LABS

- Soil Mechanics Lab
- Hydraulics Lab
- Strength Of Materials Lab
- Geology Lab
- Transportation Engineering Lab
- Environmental Engineering Lab
- Concrete Technology Lab
- Cad Centre



MECHANICAL ENGINEERING

Established in 1957, the Mechanical Engineering Department of Assam Engineering College has an annual intake of around 60 students for the B.Tech program and 18 students for the M.Tech program. The department is equipped with state-of-the-art laboratory facilities and experienced faculty members. This department has produced generations of mechanical engineers who are contributing to public and private organizations as well as academia worldwide. It offers M.Tech programs in various specialized areas of Mechanical Engineering, providing students with opportunities for advanced learning and research.

CORE SUBJECTS

- Basic Thermodynamics
- Theory Of Machine
- Machine And Assembly Drawing
- Workshop Theory And Practice-I
- Fluid Mechanics-I
- Materials Science
- Mechanics Of Materials
- Applied Thermodynamics-I
- Machine Design-I
- Mechanics And Dynamics Of Machines
- Heat Transfer-I
- Engineering Inspection And Metrology
- Machine Design- II
- Fluid Mechanics- II
- Mechanical Measurements And Instrumentation
- Workshop Theory And Practice- II
- Heat Transfer- II
- Refrigeration And Air Conditioning
- Dynamics Of Machines
- System Optimization Techniques
- Turbo Machinery
- Industrial Engineering
- Project And Production Management

LABS

- Theory Of Machine Lab
- Fluid Mechanics-I Lab
- Mechanics Of Materials Lab •Heat Transfer-I
- Lab
- Fluid Mechanics- II Lab
- Heat Transfer- II Lab
- Refrigeration And Air Conditioning Lab
- Dynamics Of Machines Lab
- Cad/Cam Lab



ELECTIVE SUBJECTS

- Automobile Engineering
- Advanced Welding Technology
- Computational Fluid Dynamics
- Integrated Design And Manufacturing Project - I
- Seminar On Summer Training
- Control Engineering
- Mechatronics
- Finite Element Method
- Advance Manufacturing Technology
- Tribology
- Computational Methods In Engineering
- Industrial Instrumentation
- Industrial Robotics
- Renewable Manufacturing Technology
- Engineering System Analysis And Design
- Engineering For Sustainable Development
- Disaster Management
- Energy Conservation And Management
- Quality And Reliability Engineering Project
- Comprehensive Viva

ELECTRICAL ENGINEERING

Established in 1957 alongside the Mechanical Engineering Department, the Electrical Engineering Department offers a B.Tech program with an intake of 90 students and an M.Tech program admitting 18 students. With a highly qualified faculty and a forward-looking curriculum, the department prepares students for excellence in both core electrical and IT sectors. Postgraduate studies are offered in Electric Energy Systems and Control & Instrumentation. Alumni have consistently secured positions in leading organizations worldwide.

CORE SUBJECTS

- Electrical Machines -I Electrical Machines - II
- Analog Electronics
- Digital Electronics
- Control System
- Network And Circuit Analysis
- Electrical Measurements And
- Measuring Instruments
- Power System-I
- Power System-II
- Power System-III
- Power System-IV
- Power Electronics
- Microprocessor
- Electromagnetic Field Theory
- Signals & Systems
- Electric Drives

LABS

- Basic Electrical Engineering Lab
- Electrical Machines Lab
- Analog Electronics Lab
- Digital System Lab
- Electric Simulation Lab
- Microprocessor Lab
- Power Electronics Lab
- Instrumentation Lab
- Power System Lab
- Electronic Design Lab



ELECTIVE SUBJECTS

- Principles Of Telecommunication Engineering
- Embedded System
- Advanced Control System
- Advanced Electrical Measurements Computer
- Oriented Numerical Methods Digital Signal Processing
- Digital Image Processing
- Optimization Techniques In Engineering



CHEMICAL ENGINEERING

The Chemical Engineering Department, established in 1963, offers a B.Tech course with an annual intake of 60 students. It is the only department in North-East India, besides IIT Guwahati, offering an undergraduate course in Chemical Engineering. The department features specially equipped laboratories recognized by Assam Science & Technology University for Ph.D. research. It aims to meet the growing industry demand for well-qualified chemical engineers in design, manufacturing, and marketing segments.

CORE SUBJECTS

- Material Science And Corrosion
- Chemical Process Industries
- Energy Engineering
- Process Calculation
- Mechanical Operations
- Fluid Flow Operations
- Chemical Engineering Thermodynamics
- Chemical Reaction Engineering-I
- Mass Transfer Operations-I
- Heat Transfer Operations
- Process Control And Instrumentation
- Mass Transfer Operations-II
- Chemical Reaction Engineering-II
- Petroleum Refining And Petrochemicals
- Process Equipment Design-I
- Polymer Science Engineering
- Transport Phenomena
- Process Equipment Design- II

LABS

- Energy Engineering Lab
- Heat Transfer Lab
- Fluid Flow Operation Lab
- Mass Transfer Operation Lab
- Petroleum Lab
- Computer Simulation Lab
- Technical Analysis Lab
- Instrumentation Lab
- Process Dynamics And Control Lab
- Chemical Engineering
- Thermodynamics Lab

ELECTIVE SUBJECTS

- Process Utilities
- Modelling And Simulation
- Environmental Pollution Control
- Nano Science And Nano Technology
- Petroleum Production Technology
- Alternative Energy Resources
- Fluidization Engineering
- Biochemical Engineering
- Advanced Separation Processes
- Safety In Chemical Industry



OTHER SUBJECTS

- Introduction To Computational Methods.
- Constitution Of India
- Process Engineering Economics And Optimization
- Engineering Economics
- Accountancy
- Principles Of Management

ELECTRONICS AND TELECOMMUNICATION

The department of Electronics & Telecommunication Engineering was established in the year 1983. Presently, it offers Bachelor of Technology (B.Tech) course in Electronics & Telecommunication Engineering with an annual intake capacity of 60+. The syllabus of the B.Tech course cover all major thrust areas in electronics and communication technology and also in the allied fields. The department has been always attracting quality students through the Common Entrance Examination conducted by Government of Assam. It has been always an endeavor for the teachers of this department to impart quality knowledge to the students such that as an engineer they can contribute accountably to the technological world as well as for the betterment of the society.

CORE SUBJECTS

- Semiconductor Devices and Circuits
- Digital Circuits
- Network Theory
- Signals And Systems
- Analog Circuits
- Analog Communication
- Electrical Engineering Materials
- Instrumentation
- Microprocessor and Embedded System
- Data Structure and Algorithm
- Digital Communication
- Control Systems
- Computer Networks
- Digital Signal Processing
- Advanced Programming
- Electromagnetic Waves
- Microwave Engineering
- VLSI
- Antenna and Wave Propagation
- Mobile Communication



ELECTIVE SUBJECTS

- Advanced Microcontrollers
- Optical Fiber Communication
- Integrated Circuit Technology
- Digital System Design Using Verilog
- MemS
- Nanoelectronics
- Image Processing
- Internet Of Things (Iot)
- Machine Learning
- Biomedical Electronics

LABS

- Basic Electronics Lab
- Digital Circuits Lab
- Network Theory Lab
- Signals And Systems Lab
- Analog Circuits Lab
- Analog Communication Lab
- Microprocessor And Embedded System
- Data Structure And Algorithm Lab
- Digital Communication Lab
- Advanced Programming Lab
- Advanced Microcontrollers Lab
- Digital System Design Using Verilog Lab

COMPUTER SCIENCE & ENGINEERING

The Computer Science and Engineering Department, established in 1988, offers a B.Tech degree with an intake of 24 students. With experienced faculty, a well-structured curriculum, and ample laboratory resources, the department ensures a comprehensive education. Students also benefit from the facilities of the Electronics and Telecommunication Engineering Department. The department's vision is to create a robust teaching and learning environment to meet current and future challenges.

CORE SUBJECTS

- Digital Electronics
- Computer Organization And Architecture
- Data Structures
- Discrete Mathematics
- Algorithms
- Microprocessor And Embedded Systems
- Computer Networks
- Operating Systems
- Theory Of Computation
- Compiler Design
- C, C++, Java Programming
- Object Oriented Programming
- Graph Theory
- Signals And Systems
- Database Management System

ELECTIVE SUBJECTS

- Microcontrollers And Applications
- Queuing Theory And Modelling
- Computer Graphics
- Data Mining
- Image Processing
- Ad Hoc And Sensor Networks
- Robotics
- Advanced Computer Architecture
- Software Engineering
- Information Theory And Coding
- Fault Tolerant Computing
- Cryptology And Security Systems
- Optimization Techniques
- Artificial Intelligence

LABS

- C, C++, Java, Python
- Data Structures And Algorithms
- Computer Networks
- Compiler Design
- Object Oriented Programming
- Database Management System
- Web Programming
- Operating Systems



INSTRUMENTATION ENGINEERING

The Department of Instrumentation Engineering, established in 1998, addresses the growing demand for instrumentation engineers in industries. It offers B.Tech courses with an intake of 20 students. Graduates have secured positions in esteemed organizations like Google, OIL, IOCL, GAIL, and ONGC, with notable GATE performance, including an AIR 2 rank in 2018. The department features well-equipped laboratories and a dynamic group of faculty and students ready to face challenges.

CORE SUBJECTS

- Transducers
- Process Control
- Industrial Instrumentation
- Electronics Instruments
- Electrical Machine
- Optical Instrumentation
- Bio-Medical Instrumentation
- Modern Analytical Instrumentation
Microprocessor • Control System
- Telemetry And Tele Control
- Bio-Medical Signal Processing
- Power Electronics
- Object Oriented Programming And Data
Structure(C++)
- Electrical Circuit Analysis
- Signal And System
- Digital Electronics
- Analog Electronics
- Electrical Measurements

LABS

- Transducers Lab
- Instrumentation Lab
- Process Control Lab
- Electronics Design Lab
- Digital Electronics Lab
- Measurement Lab
- Control System Lab
- Analog Electronics Lab
- Object Oriented Programming And Data
Structure Lab
- Basic Electrical Engineering Lab

ELECTIVE SUBJECTS

- Digital Signal Processing
- Digital Image Processing
- Pattern Recognition And Machine Learning
- Embedded System
- Introduction To Iot
- Micro-Electro-Mechanical System(Mems)
- Logic And Distributed Control System
- Introduction To Robotics
- Computer Vision
- Vlsi Signal Processing
- Electromagnetic Waves
- Conom
- Operating System
- Fluid Power & Control
- Principle Of Analog Communication
- Optimization Techniques In Engineering



INDUSTRIAL & PRODUCTION ENGINEERING

The Department of Industrial Production Engineering was established in the year 1998 due to a high demand of production engineers in petroleum and other engineering sectors. The department has well equipped laboratories and offers B.Tech degree course with an annual intake capacity of 20 students. It has a dynamic group of extremely intellectual faculties are well aware of the essential requirements of course. It also utilizes the facilities of Mechanical Engineering.

CORE SUBJECTS

- Engineering Graphics and Design
- Engineering Mechanics
- Electrical Technology
- Basic Thermodynamics
- Theory of Machines
- Machine and assembly Drawing
- Microprocessor Control and Mechatronics
- Manufacturing Process
- Fluid Mechanics
- Materials Science
- Mechanics of Materials
- Machine Tool Technology
- Plant Layout and Material Handling
- Mechanisms and Dynamics of Machines
- Engineering Inspection and Metrology
- Machine Design
- Heat Transfer and Fluid Machines
- Mechanical Measurements and Instrumentation
- Ergonomics and Work Design
- Numerical Methods and Computer Graphics
- Production Planning & Control
- Non-Traditional Production Process
- Organisational Behaviour and Industrial Relation
- Computer Aided Design and Manufacturing
- Design of Jigs, Fixtures and Press Tools
- Material Management



ELECTIVE SUBJECTS

- Environment Engineering and Renewable
- Energy Sources
- Tool Design
- Supply Chain Management
- Total Quality Management
- Industrial Marketing
- System Dynamics and Modelling
- Automotive Mechanics
- Project Planning and Appraisal
- Management and Information System

LABS

- Engineering Mechanics Lab
- Fluid Mechanics
- Theory Of Machines Lab
- Mechanics Of Materials Lab
- Machine Tool Technology Lab
- Engineering Inspection And Metrology Lab
- Heat Transfer And Fluid Machines Lab



COMPUTER APPLICATIONS

The Department of Computer Applications at Assam Engineering College, established in 1990 by former Principal Prof. A. K. Padmapati with the approval of the Ministry of Human Resource and Development, aims to produce skilled IT professionals for the growing industry. The department provides a unique environment for mastering computer science disciplines, with a regularly updated course structure that aligns with current technological demands and prepares students for various fields, including Research and Development.

CORE SUBJECTS

- Computer Organization and Architecture
- Design and Analysis of Algorithms
- Programming Techniques using Python and Java
- Advanced Database Systems
- Operating Systems
- Theory of Computation
- Computer Networks
- Software Engineering
- Distributed Systems
- Artificial Intelligence and Machine Learning
- Web Technology and Services
- Introduction to Data Science

LABS AND PROJECTS

- Laboratory- Java and Python Programming (OOPs)
- Laboratory DBMS / Web Technology
- Mini Project and Seminar
- Major Project

BRIDGE COURSE SUBJECTS

- Introductory Programming and Data Structures using C
- Mathematical Foundation of Computer Science
- Fundamentals of Computer Systems and Networking
- Introduction to Web Technology

Practical -

- Laboratory- C and Data Structures
- Laboratory Web Technology



ELECTIVE SUBJECTS

- Graph Theory
- Advanced Data Structures
- Compiler Design
- Advanced Computer Architecture
- Cryptography and Network Security
- Microprocessors
- Optimization Techniques
- Information retrieval Systems
- Soft Computing
- Unix Network Programming
- Big Data Analytics
- Embedded Systems

ONLINE MODE

- Mobile Computing
- Image Processing
- Remote Sensing and GIS
- Internet of Things
- Cloud Computing
- Bioinformatics
- Simulation and Modelling

MASTER OF TECHNOLOGY

ELECTRICAL ENGINEERING (POWER SYSTEM)

Core Subjects:

- Computer-Aided Power Flow Management
- HVDC And Facts Devices
- Renewable Energy Sources And Conversion
- Power System Dynamics
- Power System Protection
- Power Quality Analysis And Assessment

Program Elective:

- Insulation In Power Apparatus & Systems
- Power System Instrumentation
- Power System Reliability
- Power System Optimization
- Power System Operation And Control
- Smart Electric Grid
- Distributed Generation
- AI Techniques In Power System
- Photovoltaic Power Generation System
- Substation Engineering And Automation
- Power System Deregulation And Restructuring

OPEN ELECTIVES:

- Advanced Control System
- Energy Audit And Management

LABS:

- Power System Simulation Lab-I
- Power System Simulation Lab-II

MECHANICAL ENGINEERING

Core Subjects:

- Advanced Engineering Mathematics
- Finite Element Methods
- Material Characterization
- Techniques
- Optimization Techniques
- Numerical Methods
- Design Of Experiments For Engineering Applications

Program Elective:

- Advanced Engineering Thermodynamics
- Solar Energy And Technology
- Advanced Solid Mechanics
- Theory Of Machining
- Heat Exchanger Design
- Advanced Fluid Mechanics
- Noise And Vibration Control
- Manufacturing Facilities Planning And Control

Open Electives:

- Pollution Control Engineering
- Non-Linear Vibrations
- Fatigue, Creep And Fracture
- Production And Operations Management
- Artificial Neural Network And Machine Learning
- Energy Conservation And Waste Heat Recovery
- Heat And Mass Transfer
- Tribology
- Welding Technology

MASTER OF TECHNOLOGY

CIVIL ENGINEERING (GEOTECHNICAL)

CORE SUBJECTS:

- Advanced Soil Mechanics
- Dynamics of Soil and Earthquake Engineering
- Continuum Mechanics
- Advanced Foundation Engineering
- Geotechnical In-situ Testing and Instrumentation
- Earth and Rockfill Dams
- Mini Project

PROGRAM ELECTIVE:

- Rock Mechanics
- Nature and Behavior of Soils and Rocks
- Finite Element Analysis
- Ground Improvements Techniques

OPEN ELECTIVES:

- Numerical Analysis and Statistical Methods
- CAD of Foundations
- Geohazard Management

LABS:

- Geotechnical Lab
- Software La
- Dissertation Phase-I
- Dissertation Phase- II

CIVIL ENGINEERING (WATER RESOURCE MANAGEMENT)

CORE SUBJECTS:

- Surface and ground water hydrology
- Principles and practices of irrigation
- Integrated water resource management
- Water and Ecosystem
- On farm Management
- Remote sensing and GIS
- System analysis in water
- Statistical methods for engineers

ELECTIVE:

- Water Quality
- Design of irrigation structure and drainage works

LABS:

- Water Quality Laboratory
- GIS laboratory
- Dissertation Phase-I
- Dissertation Phase- II

CLUBS



CODING CLUB



GOOGLE DEVELOPERS
STUDENT CLUB



AUTOMOBILE CLUB OF
AEC



SPACE TECHNOLOGY
CLUB



ENTREPRENEURSHIP
DEVELOPMENT CELL



ROBOTICS CLUB



MUKHA-DRAMA CLUB



ORATORS CLUB



SOVIC



BEATHOUSE CLUB



AEC JAM CLUB



CHESS CLUB



ENERGY CLUB



AEC LITERARY SOCIETY



FLASHPOINT



QUIZ CLUB



ART CLUB

BEYOND ACADEMICS...

SPACE TECHNOLOGY CLUB

- STC IS AN ENTHUSIASTIC AND DYNAMIC GROUP FOCUSED ON THE ADVANCEMENT AND OUTREACH OF SPACE SCIENCE AND TECHNOLOGY.
- MOON IMAGES WERE CAPTURED USING A 6-INCH DOBSONIAN TELESCOPE EQUIPPED WITH A 32MM LENS, GENEROUSLY DONATED BY DR. ANUP GOGOL.
- THREE STUDENTS FROM BIMALA ACADEMY PARTICIPATED IN BEYOND
- BEYOND LAB 3.0 DURING UDVABANAM 12.0 UNDER THE GUIDANCE OF DR. PLABON KAKATI SIR, SEVERAL STUDENTS FROM VARIOUS COLLEGES PRESENTED THEIR INNOVATIVE PROJECTS WHICH INCLUDES ACCIDENT DETECTION, VOICE FOR THE VOICELESS, FOOD AUTOMATION, AND TERABOAT (BY PHYTRONIX).



SAE INDIA COLLEGIATE AUTOMOBILE CLUB

- THE AUTOMOBILE COLLEGIATE CLUB OF ASSAM ENGINEERING COLLEGE IS RECOGNIZED BY THE SOCIETY OF AUTOMOTIVE ENGINEERS INDIA (SAEINDIA), A MEMBER SOCIETY UNDER SAE INTERNATIONAL.
- HOSTED A WEBINAR ON INDUSTRY-READY ENGINEERS WITH MR. C. PRAKASH, RETIRED GM OF ASHOK LEYLAND - 2022.
- ORGANIZED FIELD VISITS TO ASHOK LEYLAND AND BRAHMAPUTRA AUTOMOBILES FOR HANDS-ON INDUSTRIAL EXPOSURE.
- AUTOMOBILE WORKSHOP 2025 IN COLLABORATION WITH EICHER MOTORS .ENGINE ASSEMBLY WORKSHOP,RC CAR ASSEMBLY AND RACE AND MANY MORE.



AEC CODING CLUB

- CODEWAR 5.0, 5TH EDITION OF THE HACKATHON AND COMPETITIVE PROGRAMMING COMPETITION ORGANISED BY AEC CODING CLUB DURING PYROKINESIS
- ONLINE WEBINAR, 14/09/2022, ONLINE WEBINAR BY SPECIAL SPEAKER RAJAT KANTI BHATTACHARJEE ON "SCALING CS FUNDAMENTALS TO REAL WORLD & THE MISSING BITS"
- AI WORKSHOP, 04/11/2023, AN AI WORKSHOP HOSTED BY TARUN R JAIN "BUILD A CHATGPT LIKE PERSONAL CHATBOT INTERFACE
- ONLINE GUIDANCE SESSION ON AI AND MODERN TECH, 26/10/2024, WEBINAR WITH MR. ASHWIN GOYAL AND CODING NINJAS ON BUILDING A CAREER IN TECH AND INTRODUCTION TO NEW TECHNOLOGIES, MAPPING A CLEAR PATH FOR EACH YEAR IN COLLEGE, AND DISCUSSING ALTERNATIVE CAREER OPTIONS LIKE CYBERSECURITY, AI/ML, AND DATA ANALYSIS.



BEYOND ACADEMICS...

ENERGY CLUB



INDUCTION QUIZ COMPETITION CONDUCTED ON 17TH SEPTEMBER 2024, ORGANISED BY ENERGY CLUB OF AEC IN COLLABORATION WITH QUIZ CLUB OF AEC

THE INTELLECTUALLY STIMULATING EVENT WAS DESIGNED TO CHALLENGE PARTICIPANTS IN ENERGY CONSERVATION RELATED FIELDS WITH ADDITION TO A WIDE RANGE OF TOPICS SUCH AS HISTORY, POLITICS, SCIENCE, CURRENT AFFAIRS, ENTERTAINMENT ETC



ENERGYTHON 2.0 CONDUCTED BY ENERGY CLUB OF AEC UNDER THE BANNER OF UDBHAVANAM IN PYROKINESIS 2025 IN MSSC, AEC ON 26TH OF FEBRUARY 2025. THIS EXCITING COMPETITION INVITED STUDENTS, INNOVATORS AND CHANGEMAKERS TO BRAINSTORM AND PRESENT GROUNDBREAKING IDEAS AIMED AT CONSERVING ENERGY AND PROMOTING ECO-FRIENDLY PRACTICES IN DAILY LIFE, INDUSTRY, OR PUBLIC INFRASTRUCTURE.

LITERARY CLUB AEC

- THE NILA KHAMOR SITHI AN LOVE LETTER WRITING COMPETITION HELD BY AEC LITERARY SOCIETY ON SEPTEMBER 8, 2024. IT WAS AN EXCELLENT OPPORTUNITY FOR THE STUDENTS TO SHOWCASE THEIR TALENTS OF BEAUTIFULLY EXPRESSING EMOTIONS AND IMAGINATION IN WORDS.
- DIKANTIK WAS A WONDERFUL POEM WRITING COMPETITION HELD BY AEC LITERARY SOCIETY. IT GAVE THE STUDENTS THE OPPORTUNITY TO PRESENT THEIR UNIQUE TALENT OF CREATIVITY, ARTICULATION SKILLS AND LINGUISTIC EXCELLENCE.
- WORD OF THE WEEK IS ANOTHER ATTEMPT FROM AEC LITERARY SOCIETY TO INTRODUCE THE STUDENTS TO UNIQUE AND BEAUTIFUL ASSAMESE WORDS. EVERY WEEK, THREE UNIQUE WORDS FROM ASSAMESE, ENGLISH AND SANSKRIT (ONE FROM EACH LANGUAGE) AND THEIR MEANING IS POSTED.



ROBOTICS CLUB



- ARDUINO EXHIBITION: THIS WAS THE FIRST EVENT OF THE 2024-2025 SESSION, AIMED AT ENCOURAGING HANDS-ON INNOVATION AND SHOWCASING BEGINNER-LEVEL HARDWARE PROJECTS.
- TECH EXPO: THE TECH EXPO SERVED AS AN INTRODUCTORY SESSION FOR FIRST-YEAR STUDENTS, OFFERING THEM A GLIMPSE INTO THE EXCITING WORLD OF COMPETITIVE ROBOTICS.
- R-AEC 7.0 - ROBO RACE & ROBO SOCCER: AS PART OF UDBHAVANAM 12.0 AT PYROKINESIS 2025, THE ROBOTICS CLUB HOSTED R-AEC 7.0 FEATURING TWO FLAGSHIP ROBOTICS COMPETITIONS: ROBO SOCCER AND ROBO RACE. THESE CONTESTS CHALLENGED PARTICIPANTS TO SHOWCASE SPEED, CONTROL, AND STRATEGIC THINKING IN HIGH-INTENSITY MATCHES.
- ROBOTICS 101: ARDUINO OFFLINE WORKSHOP: WITH OVER 50 PARTICIPANTS, THE EVENT REQUIRED NO PRIOR EXPERIENCE AND ENCOURAGED STUDENTS TO TRANSITION FROM THEORETICAL KNOWLEDGE TO REAL-WORLD APPLICATION THROUGH A GUIDED LEARNING ENVIRONMENT.

BEYOND ACADEMICS...

Recent notable achievements & activities of students



**DED HAH ALL INDIA KARATE
CHAMPIONSHIP, GOLD**



**2nd RANK IN DILOO DHAIR
DPEN INTERNATIONAL FIDE
RATING CHESS
TOURNAMENT**



**NATION MIXED BOXING
CHAMPIONSHIP, GOLD**



**RUNNER UP IN
ARACANEX, DHEMAJI**



**1st PLACE IN ROBO SOCCER, ROBO
SUMO IN TECHNETRA, TEZPUR**



**1st PLACE IN ROBO SOCCER, ROBO
SUMO IN TECHNETRA, TEZPUR**



8th RANK IN BRAIN JAM 2025



Carmine Galasso • 3rd •

Professor of Catastrophe Risk Engineering & Research Director ...
3mo • 15

+ Follow ...

Many congratulations to [Preetish Kakoty](#) for being awarded a €260,000 Marie Curie Postdoctoral Fellowship for his project, 'RE-EnForce - Resilience Enhancement through Multi-Hazard Recovery Analysis of Earthquake and Flood-Affected Infrastructure,' with a perfect score of 100 out of 100! 🎉 We are thrilled to have Preetish joining our lab soon as our fourth Marie Curie Fellow over the past four years!

**PREETISH KAKOTY, AN ALUMNI OF 2011-2015
RECEIVED MARIE CURIE POSTDOCTORAL
FELLOWSHIP**

Udhhbhanam

The Annual Technical Festival, aptly named Udhhbhanam caters to the budding engineering students. It presents them with an opportunity to demonstrate their knowledge, and build or create something to benefit society. It consists of various workshops, competitions and seminars organised over a week to interest everyone, from a young student to a venerable professor. The previous editions of Udhhbhanam included a host of competitions organised by the technical clubs of AEC.



TECH AXOM

Assam Engineering College (AEC) proudly hosts its annual technical festival, Tech AXOM, a much-anticipated event that draws aspiring engineers and tech enthusiasts from various colleges across the state. More than just a competition, Tech AXOM serves as a vibrant platform for students to showcase their technical prowess, foster innovation, and engage in healthy rivalry.

The festival features a diverse range of events designed to challenge and inspire. Regular highlights include the ever-popular Tech Quiz, testing participants' knowledge across a spectrum of scientific and technological domains. Hands-on challenges like Seismic Tower push teams to design and build structures capable of withstanding simulated tremors, while Robo Sumo pits custom-built robots against each other in thrilling, strategic battles. The precision and programming skills of participants are put to the test in the Line Following Robot competition, a staple that requires careful calibration and intelligent design.



REACH US



Assam Engineering College is well connected by air to major cities like New Delhi, Kolkata, Bengaluru, etc. with the nearest airport being LGBI Airport which is a 30 minutes drive from the campus. Jet Airways, Indigo Airlines, SpiceJet, etc. operate flights regularly to and fro Guwahati.



Assam Engineering College (AEC) is also well connected by rail with the nearest railway station being Guwahati Railway Station, Paltan Bazaar and is only 1 hour away.



Assam State Transportation Corporation runs the college buses for the ease of travel of the students and staff connecting them to the heart of the city.



GET CONNECTED

POSTAL ADDRESS

TRAINING AND PLACEMENT CELL,
ASSAM ENGINEERING COLLEGE, JALUKBARI,
GUWAHATI, ASSAM, INDIA PIN-781013



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