

ASSAM ENGINEERING COLLEGE

GOVT. OF ASSAM

Placement Brochure

2012-2013



**ASSAM ENGINEERING COLLEGE :: JALUKBARI
GUWAHATI 13**

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service before self



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Assam Engineering College

Assam engineering college is a premier institute in north-east India. It's the first engineering college of the north-east established in the year 1955.



Assam Engineering College, established in the year 1955 by the Government of Assam, was inaugurated by Pandit Jawaharlal Nehru. It was the first engineering institute of the entire Northeastern part of India, started with the view to produce skilled technical personnel for implementation of national schemes. Over the years it has not only fulfilled its responsibility of imparting quality education and bringing forth technical experts but also fulfilled the greater cause of serving the society. Today, it is premier technical institute and a hub of academic and supplementary activities.

Surrounded on two sides by the historical Deepor Beel (a huge natural wetland now declared a bird sanctuary by the Government of India) and evergreen hills on the outskirts of Guwahati city, about 13km on the west, Assam Engineering College boasts of sprawling campus which spells a magical impact on the visitors.



From the desk of principal

Assam engineering college is a premier institute in north-east india. It's the first engineering college in north-east. est. 1956



Assam engineering college, the first Government college in the Northeast India celebrated its golden jubilee in 2005. the glorious journey of AEC started with admission of its first batch of students only in Civil engineering in the year 1955. The college is currently offering not only the B.E. courses in Civil, Electrical, Mechanical, Chemical, Production, Instrumentation, Computer Science and telecommunication engineering, and but also the post graduate and PhD courses in Civil, Electrical and Mechanical engineering.

In the changing contemporary context, AEC needs a shared vision for creating ecological literate, professionally competent and socially responsible engineers. I welcome you to AEC and hope AEC will give the best.

Atul Bora
principal assam engoneering college
guwahati

From the desk of T.P.O.

AEC is still the most desirable institution in the North East. Every child dreams of joining this premier institution and becoming a mainstream player in the country. We are proud of this.

Placement has emerged as one of the main parameters of success for an engineering college in recent years. How much intellectual potential exists in an institution, what are the facilities for growth and development of students, where are the alumni, and all sundry matters seem to have taken a back seat in today's cut-throat competitive environment. Rather, questions like how many companies visited the college, which are these companies, what packages were offered to the students, and so on have become more pertinent to students and their parents today. As a teacher, I may not fully agree with such trends, but I cannot help it. Neither can I reverse the global economic trends or market moves.

So in 2002 October, responding to the clarion call given by the then Principal of AEC, I took up the responsibility of the TPO as an additional charge to my teaching assignments, and started firing in full cylinders. Success came to AEC after 2003 and I really started enjoying the job. We reached the pinnacle of glory in 2006 with 95% placement, followed by visit of greatest of the Indian ICT and core sector companies.

Dr. Nabajit Saikia
Training Placement Officer &
Professor, Department of Electronics Engineering
Assam Engineering College
Jalukbari, Guwahati 13

We stood the test of time even during the worst of times and recession; and that's the inner strength of AEC. In many occasions we have competed with the IITs and NITs with flying colours.

AEC is still the most desirable institution in the North East. Every child dreams of joining this premier institution and becoming a mainstream player in the country. We are proud of this. The Training & Placement Cell has been a major force of AEC's pride in the last decade. We are committed to make it more vibrant and proactive in the coming years.

Dr. Amrita Ganguly
Asst. Training Placement Officer &
Professor, Department of Electrical Engineering
Assam Engineering College
Jalukbari, Guwahati 13

Programmes offered

AEC offers courses at:

1. Undergraduate level (B.E.)
2. Postgraduate level (M.E.)
3. Doctorate level (Ph.D)

ASSAM ENGINEERING COLLEGE OFFERS THE FOLLOWING COURSES IN VARIOUS FIELDS:

UNDER GRADUATE LEVEL:

AEC offers the Bachelor of Engineering (BE) programme in eight different disciplines.

Admission is solely reserved for the students clearing the State-Level Entrance Exam which is called the Combined Entrance Exam (CEE). Following another 4 years of intensive study in a particular department, students are conferred the B.E. degree with specialisation in that particular branch.

POST GRADUATE LEVEL:

At the POSTGRADUATE LEVEL, AEC offers the Master of Computer Applications (MCA) & the Master of Engineering (ME) programmes for graduate students.

MASTER OF COMPUTER APPLICATIONS:

The Department of Computer Applications offers a 3 year post-graduate course leading to a Master in Computer Applications (MCA) degree. Admission is through the MCA Entrance Test.

MASTER OF ENGINEERING:

AEC offers Masters courses in Civil, Mechanical & Electrical Engineering Branches.

DOCTORAL LEVEL:

AEC also offers Ph. D programmes in the Civil, Mechanical, Electrical and Chemical Engineering Departments in various areas. Students conduct research under expert faculty with their results regularly being published in Indian as well as foreign journals.

selection procedure

Common Entrance Exam (CEE) is Assam state entrance exam for Govt. Eng college and Medical college.



Under graduate

common entrance examination is the assam state entrance exam for selections in under graduate program in engineering. Students who are appearing for under graduate engineering they have three papers viz. physics chemistry maths. This exam is objective type. This is one of the toughest entrance exam in India. In this exam only top 2% got selected for Assam engineering college among the 25000 student.

year	appeared	cleared
08-09	19000	360
09-10	21000	420
10-11	23000	420
11-12	25000	420

Lateral entry for Diploma student

10% of each branch in BE is for diploma student. They joined the B.E course in 3rd semester of same year. They got through a separate entrance exam conducted by directorate of technical education

Post Graduate

in post graduate level we have masters in Computer application electrical engineering mechanical engineering and civil engineering.

MCA

MCA students are being selected by a state level entrance exam conducted by directorate of technical education.

M.E

For masters of engineering in civil mechanical and electrical each department conduct entrance test.

Ph.D Programs

For Ph.D program each department follows their own rules and regulation.

CAMPUS INFRASTRUCTURE

Assam Engineering College provides its students with adequate and most modern infrastructure and amenities which assist in creating a proper learning environment



MULTI-DISCIPLINARY CENTRE (MDC)

The MDC is a well equipped edifice which aims at establishing cordial relationships with industries of repute. It comprises of a host of seminar and conference halls with modern amenities and communication aids. It also houses the Entrepreneurship Development Cell of the institution.



COLLEGE LIBRARY

The AEC library is well equipped with more than 1,00,000 books, some of which are extremely rare. It also houses over a 1000 national and international journals and periodicals. The library provides a congenial reading environment to the students.



COMPUTER CENTRE

The Computer Centre, popularly known as the CC among the students, provides 24x7 uninterrupted broadband internet service for the all-round development of students. Regardless to say, it is always abuzz with activity.

Civil Engineering

Department of Civil Engineering offers the following programmes:

1. 4 year B.E. degree
2. 2 year M.E. degree
3. Ph.D programme



student strength

B.E	100
M.E	18
Ph.D	4

Faculty 26

DEPARTMENT PROFILE

The Civil Engineering Department offers the following programmes :

1. 4 year B.E. degree
2. 2 year M.E. degree with specialization in
 - i) Watershed Management & Flood Control
 - ii) Soil Mechanics & Foundation engineering
3. Ph.D programmes in various areas of Civil Engineering

COURSE CURRICULUM

Structural Engineering
Engineering Surveying
Construction Practices & Building Drawing
Hydraulics & Hydraulic Machines
Engineering Geoscience
Structural Design
Environmental Engineering
Transportation Engineering
Concrete Technology
Geotechnical Engineering
Planning & Construction Management

Foundation Engineering
Estimation & Valuation
Hydrology
Irrigation Engineering
Flood Management & River Engineering
Remote Sensing & Surveying
Computer Aided Design
Basic Fluid Mechanics
Advanced Geology
Traffic Engineering

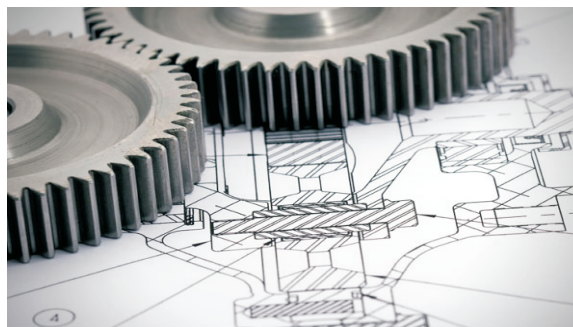
LAB FACILITIES

Soil Mechanics Lab
Hydraulics Lab
Strength of Materials Lab
Geology Lab
Transportation Engineering Lab
Environmental Engineering Lab
Concrete Technology Lab
CAD Centre

Mechanical Engineering

Department of Mechanical Engineering offers the following programmes:

1. 4 year B.E. degree
2. 2 year M.E. degree
3. Ph.D programme



student strength

B.E	60
M.E	10
Ph.D	4

Faculty 29

DEPARTMENT PROFILE

The Mechanical Engineering Department offers the following programmes :

1. 4 year B.E. degree
2. 2 year M.E. degree
3. Ph.D programmes in various areas of Mechanical Engineering

COURSE CURRICULUM

Applied Mechanics
Mechanical Engineering Design
Machine Dynamics & Vibration
Thermal Engineering
I.C. Engines & Steam Power Engineering
Gas Turbine Technology
Hydraulic Machines
Fluid Mechanics
Heat Transfer
Refrigeration & Air Conditioning

Computational Fluid Dynamics
Workshop Production Processes
Material Science & Engineering
Manufacturing Processes
Industrial Engineering Management
Optimization & Operations Research
Environment & Ecology
Instrumentation & Precision Engineering
Graphics & Soft Computing

LAB FACILITIES

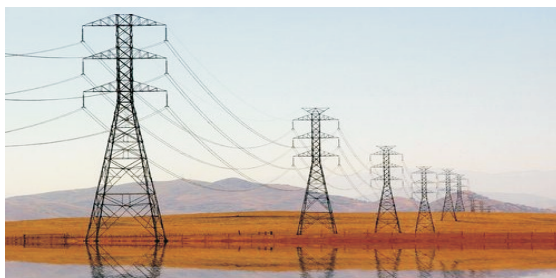
Engineering Mechanics Lab
Machine Dynamics Lab
Vibration Lab
Steam Power Lab
Internal Combustion Lab
Hydraulic Machines Lab
Metrology Lab
Instrumentation Lab

Fluid Mechanics Lab
Heat Transfer Lab
Refrigeration & A.C. Lab
Material Science Lab
Machine Tool Lab
CAD/CAM Lab
Computation Lab

Electrical Engineering

Department of Electrical Engineering offers the following programmes:

1. 4 year B.E. degree
2. 2 year M.E. degree
3. Ph.D programme



student strength

B.E 100

M.E 10

Ph.D 4

Faculty 25

DEPARTMENT PROFILE

The Electrical Engineering Department offers the following programmes :

1. 4 year B.E. degree
2. 2 year M.E. degree

COURSE CURRICULUM

Circuit Theory
Analog Electronics
Electromagnetic Field Theory
Signal Processing & Systems
Electrical Machines
Digital Systems
Control Systems
Electrical Power Systems
Instrumentation
Microprocessors
Communication Engineering
Industrial Drives

Digital Electronics
Data Structures
Advance Computer Programming
Power Electronics
Digital Image Processing
Digital Signal Processing
Electromagnetic Fields
Electrical Materials & Devices
Non Conventional Energy
Microprocessor based Instrumentation
Digital System Design
Computer Networking

LAB FACILITIES

Basic Electrical Engineering Lab
Microprocessor Lab
Electrical Machines Lab
Instrumentation Lab
Analog Electronics Lab
Digital System Lab
Control System Lab
Electrical Simulation Lab

Chemical Engineering

Department of Chemical Engineering offers the following programmes:

1. 4 year B.E. degree
2. 2 year M.E. degree
3. Ph.D programme



student strength

B.E	60
Ph.D	4

Faculty 14

DEPARTMENT PROFILE

The Chemical Engineering Department offers the following programmes :

4 year B.E. degree

COURSE CURRICULUM

Process Calculation
Chemical Technology
Process Equipment Design & Drawing
Mass Transfer Operation
Heat Transfer Operation
Fluid Flow Operation
Petroleum Refinery Engg & Petrochemicals
Transport Phenomenon
Fertilizer Technology

Fiber Science Technology
Pollution Control Engineering
Polymer Science Engineering
Process Utilities
Pulp & Paper Technology
Alternative Energy Resource & Engg.
Chemical Engg. Thermodynamics
Process Engineering Economics
Process Dynamics & Control

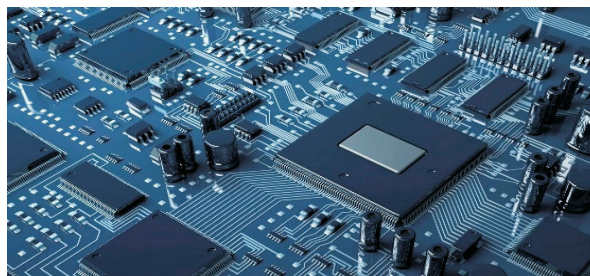
LAB FACILITIES

Energy Lab
Heat Transfer Lab
Fluid Flow Operation Lab
Mass Transfer Operation Lab
Petroleum Lab
Computer Stimulation Lab
Technical Analysis Lab
Instrumentation Lab

Electronics & Telecommunication Engineering

Department of Electronics and Telecommunication Engineering offers the following programmes:

1. 4 year B.E. degree



student strength

B.E	60
M.E	00

Faculty 09

DEPARTMENT PROFILE

The Electronics & Telecommunication Engineering Department offers the following programmes :
4 year B.E. degree

COURSE CURRICULUM

Basic Electronics
Network Theory
Digital Electronics
Control System
Microwave Engineering
Instrumentation
I.C. Technology & Design
Microprocessor & Micro Controller
Electronic Devices & Circuits
Satellite Communication

Antennae Theory
Signals & System
PLSI Technology
Digital Signal Processing
Digital Image Processing
Optical Communication
Analog & Digital System Design
Advance Processor Architecture
Wireless Communication & Networking

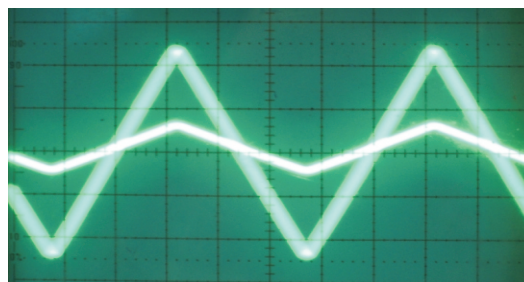
LAB FACILITIES

Circuit Lab
Basic Electronics Lab
Digital Electronics Lab
Communication System Lab
Microprocessor Lab
Microwave Engineering Lab
Satellite Communication Lab
Computer Lab

Instrumentation Engineering

Department of instrumentation Engineering offers the following programmes:

1. 4 year B.E. degree
2. 2 year M.E. degree



student strength

B.E 20

M.E 01

Faculty 23

DEPARTMENT PROFILE

The Instrumentation Engineering Department offers the following programmes :

4 year B.E. degree

COURSE CURRICULUM

Data Structure
Control Systems
Electronic Instrumentation
Analog & Digital Electronics
Advance Computer Programming
Fundamental of Instrumentation
Fluid Flow Operation
Microprocessors & their Applications
Analytical Instruments

Modeling & Simulation
Industrial Instrumentation
Optical Instrumentation
Telemetry & Telecontrol
Digital Image Processing
Expert Systems
Bio- Medical Instrumentation
Fluid Process Control

LAB FACILITIES

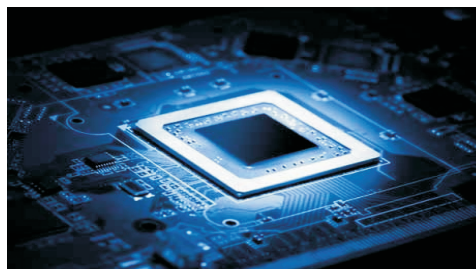
Advance Computing Lab
Control System Lab
Opto Electronics Lab
Process Control Lab
Digital Electronics Lab
Power Electronics Lab
Analog Electronics Lab
Instrumentation & Control Lab

Measurement & Measuring Lab
Instrument Lab
Instrumentation System Lab
Components Lab

Computer Science & Engineering

Department of Computer science and Engineering offers the following programmes:

1. 4 year B.E. degree



student strength

B.E 60

M.E 10

Ph.D 4

Faculty 29

DEPARTMENT PROFILE

The Computer Science & Engineering Department offers the following programmes :
4 year B.E. degree

COURSE CURRICULUM

Basic Electronics
Programming Languages
System Programming
Microprocessor & Applications
Software Engineering
Numerical Methods
Operations Research
Data Structures
Computer Networking

Computer Architecture & Organization
Formal Languages & Automata Theory
Operating Systems
Multimedia
Database Management System
Algorithms
E- Commerce
Compiler Design
Distributed & Expert Systems

LAB FACILITIES

Programming Lab
Data Structure Lab
Advanced Computing Lab
Software Engineering Lab
Digital Systems Lab
Database Management Lab
Digital Communications Lab
Computer Graphics Lab

Industrial Production Engineering

Department of Industrial Production Engineering offers the following programmes:

1. 4 year B.E. degree
2. 2 year M.E. degree



student strength

B.E	10
M.E	00
Ph.D	00

Faculty 29

DEPARTMENT PROFILE

The Industrial & Production Engineering Department offers the following programmes :

4 year B.E. degree

COURSE CURRICULUM

Workshop & Manufacturing Processes	Applied Electronics
Non- Traditional Production Processes	Instrumentation
Foundry & Welding Engineering	Precision Engineering
Design Engineering	Applied Mechanics
Material Science & Testing	Machine Dynamics & Vibration
CAD/CAM	Plant Layout
Soft Computation	Ergonomics
Thermal Engineering	Material Management
Fluid Machineries	Production Planning
Optimization & Operations Research	Project Management
Quality Engineering	Industrial Statistics

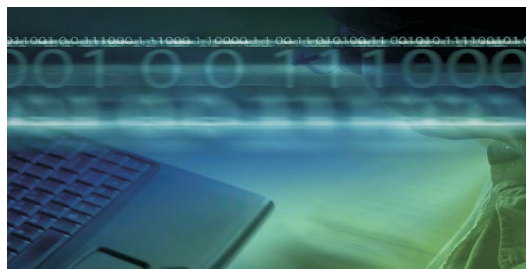
LAB FACILITIES

The Industrial & Production Engineering Department uses the same lab facilities. As the Mechanical Engineering Department. In addition to this it has an independent computational and numeric control lab.

Computer Application

Department of Computer Application offers the following programmes:

2 year Masters in Computer Application.



student strength

M.C.A 30

Ph.D 00

Faculty 09

DEPARTMENT PROFILE

The Computer Science & Engineering Department offers the following programmes :

4 year B.E. degree

COURSE CURRICULUM

Basic Electronics
Programming Languages
System Programming
Microprocessor & Applications
Software Engineering
Numerical Methods
Operations Research
Data Structures
Computer Networking

Computer Architecture & Organization
Formal Languages & Automata Theory
Operating Systems
Multimedia
Database Management System
Algorithms
E- Commerce
Compiler Design
Distributed & Expert Systems

LAB FACILITIES

Programming Lab
Data Structure Lab
Advanced Computing Lab
Software Engineering Lab
Digital Systems Lab
Database Management Lab
Digital Communications Lab
Computer Graphics Lab

Extra- Curricular Activities

AEC has a vibrant culture which allows its students to showcase and expand their talents. Our students have regularly proven their mettle in various extra-curricular activities and brought

AEC campus is a place providing fun filled interactive learning ambience. As a part of our holistic development strategy, there are plenty of co-curricular and extra curricular activities dotting the curriculum spaces, providing students stimulating personality building experiences by providing avenues for all round development. AEC encourages technical festivals, cultural activities, model making and exhibitions, paper presentations, workshops, seminars, debates, quizzes, symposia etc. Some of the events organised annually are...

- College Foundation Day, 25th January
- Rebati Mohan Dutta Choudhury Memorial Debating Competition (State Level)
- Bulid Xtra (Bridge Making Competition)
- Chemical Day (Biswajit Chowdhury Memorial)



THE TRAINING & PLACEMENT CELL

The Training & Placement Cell is headed by the TPO who is assisted by the TPS and other student coordinators.



Assam Engineering College has an active Training & Placement Cell which is sensitized to function all through the year towards generating placement and training opportunities for its graduating students. It facilitates the conduction of workshops and seminars at regular intervals on leadership and personality development. It also ensures proper exposure of students to the industrial world for their self realization as true engineers through timely educational tours. We also provide excellent infrastructure to augment every stage of the recruitment process.

Facilities provided to Corporate Firms/Organisations visiting the Assam Engineering College Campus:

- Well equipped auditoriums for conducting Pre-Placement Talks.
- Well equipped rooms for conducting Tests & Group Discussions.
- Well equipped Air-Conditioned Interview Rooms with all the requisite facilities.



Some Of Our past recruiters

The Training & Placement Cell is headed by the TPO who is assisted by the TPS and other student coordinators.

Major PSU's



Some Of Our past recruiters

The Training & Placement Cell is headed by the TPO who is assisted by the TPS and other student coordinators.

Major I.T's

Microsoft

Capgemini
CONSULTING. TECHNOLOGY. OUTSOURCING

accenture
High performance. Delivered.

TATA
TATA CONSULTANCY SERVICES

1m Tech Mahindra
IT Services and Telecom Solutions

Cognizant

TECH BRIVO SOFTECH
PRIVATE LIMITED

IMsoft

WIPRO
Applying Thought

ZALONI

patni

Infosys
POWERED BY INTELLECT
DRIVEN BY VALUES

Satyam

Major Electrical & Electronics's

G
Smart solutions.
Strong relationships.

TRUSTED NAME IN ELECTRICAL WORKS
MES

Amara Raja

SAMSUNG
ELECTRONICS

RELIANCE

SIEMENS

DENSO

TATA POWER

SONY

IBM

TVS

AREVA

Bharti Infratel Limited

Cummins

PHILIPS
sense and simplicity

VSNL

HUAWEI

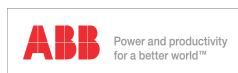
Some Of Our past recruiters

The Training & Placement Cell is headed by the TPO who is assisted by the TPS and other student coordinators.

Major Big Brands



Elevators Escalators



Some Of Our past recruiters

The Training & Placement Cell is headed by the TPO who is assisted by the TPS and other student coordinators.

Major Big Brands



Major Construction brands



and many more....

Locating And Reaching us

The AEC Campus is a picturesque 30 minutes drive away from the Lokpriya Gopinath Bordoloi International Airport and around 11 kms from the heart of the city centre.

Guwahati, being the gateway to the North-East is well connected by air, rail and road with the rest of the country. There are direct air services to/from all the major metro cities as well as connectivity to the major cities in the country. Direct train services to/from all major cities in the country are also available. Indian Airlines, Jet Airways, Jetlite, Indigo, Kingfisher and SpiceJet operate regular flights to and from Guwahati.

The AEC Campus is a picturesque **30 minutes** drive away from the Lokpriya Gopinath Bordoloi International **Airport** and around 11 km from the heart of the city. Assam State Transport Corporation runs the College Bus Service for the students and staff which connects the campus to the city.



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Electronics

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