

অসম চৰকাৰ



GOVERNMENT OF ASSAM



ASSAM ENGINEERING COLLEGE

BROCHURE 2020-21



JALUKBARI, GUWAHATI, ASSAM



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ABOUT 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 started with the view to provide skilled technical personnel for implementation of national schemes. It continued with a promise to deliver the best and over the years, with this responsibility it has continued to impart a quality technical education bolstered by sensitizing students towards the need of society and believing in upholding strong ethics.

OUR VISION:

To be an institute of National repute serving humanity and truly upholding the spirit of “Service Before Self”.

OUR MISSION:

- To ignite the spirit of technical learning in the minds of students.
- To prepare students to be caring citizens of tomorrow, equipped with life-skill, to sustain them vigorously in life.
- To be technologically savvy. yet rooted to the soil.

WHY RECRUIT AT ASSAM ENGINEERING COLLEGE

THE PIONEER OF NORTH-EAST 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 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.



FROM PRINCIPAL'S DESK

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.



**DR. ATUL BORA,
PRINCIPAL OF AEC**

FROM THE DESK OF TPOs

Placement has become a challenge after the recent expansion of technical education in India. Employability of a technical person depends on his/her specific skill (technical, mathematical etc.), core skill (teamwork, leadership, critical thinking etc.), personal characteristics (professionalism) and communication skill (speaking, writing skill etc.). Tradition in this institute has been highly influential on the students who unknowingly develop many of the skills from their seniors.

AEC is known within and outside India for its value system since its establishment with more than five decades of rich tradition, AEC has been the most opted technical institute in the north-east India for its consistent quality. Our T&P Cell not only explores the best placement opportunities for our students. But also constantly monitors whether the students can deliver in their job as expected. We sincerely work on the inputs from the industry and alumni for enhancing the quality and employability of our students.



Dr. Satyajit Bhuyan
Faculty cum TPO



Dr. Ashim Kumar Basumatary
Faculty cum TPO



ADMISSION PROCEDURE

Admission is allowed only to the students clearing state level combined entrance exam (CEE) conducted by Directorate Of Technical Education, Assam in line with AIEEE. 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 BE course, are admitted in the 3rd semester. In this case the willing students are required to take the Joint Lateral entrance examination conducted by Directorate Education, 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 Engineering (B.E.)

Duration: 4 years

Final year project: 1 year

Industrial training: 1 month

AVAILABLE BRANCHES

Civil Engineering

Mechanical Engineering

Chemical Engineering

Electrical Engineering

Electronics and Telecommunication Engineering

Computer Science and Engineering

Instrumentation Engineering

Industrial and Production Engineering



POSTGRADUATE PROGRAMME

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.

- Mechanical Engineering
- Electrical Engineering

Specialization: Power System Engineering

- Civil Engineering

Specialization: Geo-Tech

Water resource

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

DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering was established in 1957. Annual intake capacity of is around 60 students in BE and 18 students in M-Tech, course. Equipped with lab facilities, and experienced faculties. This branch has produced generations of Mechanical Engineers who are working in the public and private organizations and as academia across the globe. It also offers M-Tech. in various areas of Mechanical Engineering.

DEPARTMENT OF ELECTRICAL ENGINEERING

The department of Electrical Engineering was established in 1957 along with Mechanical Engineering Department. Intake capacity of BE course is 90 and 18 students in M-Tech, course. The department boasts of highly experienced faculties. Curriculum has been designed such that the graduates can excel in both the core and IT industries. The department also offer postgraduate courses in Electric Energy System and control and instrumentation besides.

DEPARTMENT OF CHEMICAL ENGINEERING

The department of Chemical Engineering, being the first of its kind was established in 1963, intake capacity for BE course is 60. The Department is equipped with laboratories having instruments and machines of international standards, besides having its auditorium equipped with state-of-art facilities. The department aims to meet the growing need for well qualified Chemical Engineers in the design manufacturing and marketing segments of chemical industry.

DEPARTMENT OF CIVIL ENGINEERING

The Department of Civil Engineering, established in 1955 was the first branch to be introduced in this college. The department comprises of highly qualified faculties and well equipped laboratories. This department is one of the pioneers of Earth- Quake Engineering in India, having started in 1972. The annual intake capacity is 90 students semester in BE degree course and 36 students in M-Tech, course. This department offers PhD programs in specialization under Civil Engineering.

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

The department of Electronics and Tele-Communication Engineering, with an intake capacity of 60 students for BE course was established in the year 1983 Having highly qualified faculties and well equipped laboratories. This department covers syllabus covering the moor and upcoming areas in the field of Electronics Communication Information Technology (ECIT). It also offers PhD degree in various domain of ECIT.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

The department of Computer Science and engineering was introduced in the year 1988. It offers BE degree course with an intake capacity of 20 students. The Department has experienced faculty and a well structured curriculum as well and adequate laboratory resources. Apart from these, students also utilize various facilities of the Electronics and Tele-Communication Engineering.

DEPARTMENT OF INSTRUMENTATION ENGINEERING

The department of Instrumentation Engineering was established in the Year 1998. It offers BE degree course with an intake capacity of 20 students. The department boasts of well equipped laboratories faculties. Apart from these, students also utilize various facilities of Electrical Engineering department.



DEPARTMENT OF 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 BE 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.



DEPARTMENT OF COMPUTER APPLICATION

The department of computer application was established in 1990 for promoting specialized knowledge in the field of computer applications. The department has been designed keeping in mind the requirements of Information Technology Industry, The department strives to channelize talented youths of the region to this challenging and knowledgeable field by imparting quality technical knowledge and skills. The department provides an outstanding research environment complemented with superior teaching.

CAMPUS INFRASTRUCTURE



MULTI-DISCIPLINARY CENTER



AEC HOSTEL



CAFETERIA



AEC MAIN AUDITORIUM



MAIN ACADEMIC BUILDING



PRINCIPAL OFFICE BUILDING



AEC HOSPITAL



AEC CENTRAL COMPUTING CENTER



PLAYGROUND



GYM CENTER



SEMINAR HALL



CENTRAL LIBRARY

CAMPUS INFRASTRUCTURE



COLLEGE BUS SERVICES



AEC BUS STAND



CONFERENCE HALL



POST OFFICE



AEC GUEST HOUSE



CLASS ROOM



AEC MARKET



BASEKET BALL COURT



BANK



AEC LABORATORIES



DRAWING HALL



CULTURAL ACTIVITIES

LAB FACILITIES

MECHANICAL ENGINEERING

- ENGINEERING MECHANICS LAB
- FLUID MECHANICS LAB
- MACHINE DYNAMICS LAB
- HEAT TRANSFER LAB
- VIBRATION LAB
- REFRIGERATION AND A.C LAB
- STEAM POWER LAB
- MATERIAL SCIENCE LAB
- INTERNAL COMBUSTION LAB

ELECTRICAL ENGINEERING

- BASIC ELECTRICAL ENGINEERING LAB
- MICROPROCESSOR LAB
- ELECTRICAL MACHINES LAB
- INSTRUMENTATION LAB
- ANALOG ELECTRONICS LAB
- DIGITAL SYSTEM LAB
- CONTROL SYSTEM LAB
- ELECTRICAL SIMULATION LAB
- POWER ELECTRONICS LAB

CIVIL ENGINEERING

- SOIL MECHANICS LAB
- HYDRAULICS LAB
- STRENGTH OF MATERIALS LAB
- GEOLOGY LAB
- TRANSPORTATION ENGINEERING LAB
- ENVIRONMENTAL ENGINEERING LAB
- CONCRETE TECHNOLOGY LAB
- CAD CENTRE

LAB FACILITIES

CHEMICAL ENGINEERING

- 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

ELECTRONICS AND TELECOMMUNICATIONS ENGINEERING

- DIGITAL ELECTRONICS LAB
- CIRCUIT LAB
- MICRO-PROCESSOR LAB
- SATELLITE COMMUNICATION LAB
- COMPUTER LAB
- MICROWAVE ENGINEERING LAB
- ELECTRONICS DEVICES LAB
- POWER ELECTRONICS LAB
- HARDWARE DESIGNING LAB
- CONTROL SYSTEMS LAB

COMPUTER SCIENCE AND ENGINEERING

- PROGRAMMING LAB
- DATA STRUCTURE LAB
- ADVANCED COMPUTING LAB
- SOFTWARE ENGINEERING LAB
- DIGITAL SYSTEM LAB
- DATABASE MANAGEMENT LAB
- DIGITAL COMMUNICATIONS LAB
- COMPUTER GRAPHICS LAB

LAB FACILITIES

INSTRUMENTATION ENGINEERING

- ADVANCED COMPUTING LAB
- MEASUREMENT AND MEASURING LAB
- CONTROL SYSTEM LAB
- INSTRUMENT LAB
- PTO ELECTRONICS LAB
- INSTRUMENTATION SYSTEM LAB
- PROCESS CONTROL LAB
- COMPONENTS LAB
- DIGITAL ELECTRONICS LAB
- POWER ELECTRONICS LAB
- ANALOG ELECTRONICS LAB
- INSTRUMENTATION & CONTROL LAB

INDUSTRIAL PRODUCTION ENGINEERING

- ENGINEERING MECHANICS LAB
- FLUID MECHANICS LAB
- MACHINE DYNAMICS LAB
- HEAT TRANSFER LAB
- VIBRATION LAB
- REFRIGERATION AND A.C. LAB
- STEAM POWER LAB
- MATERIAL SCIENCE LAB
- INTERNAL COMBUSTION LAB

COMPUTER APPLICATION

- DIGITAL SYSTEM LAB
- COMPUTER GRAPHICS LAB
- ADVANCED COMPUTING LAB

TRAINING AND PLACEMENT | PAST RECRUITERS

A	Cummins D	I	N	S	U
ABB India		IBM			
ABCI Infrastructures Pvt Ltd	Datalogics India Pvt Ltd	ICICI	Nagman Instruments	Samsung Electronics	
Absolute Surveyors Pvt Ltd	DELL India	IMC	Nile Stream	SAP Labs India	Udyogini
Accenture	Denso	IMI Soft	NPCC	Satyam	Unisys Global
Adhunik Group	Denso Global	India First Life Insurance	NRL	SC Johnson	
Adnig Technologies	Direct-I	Infosys	Nano Informatics	Schwing Stetter	V
Advait Vedanta Institute of Technology	Dalmia	INNOFIED Technologies		Sesta	
Afcons Infrastructure Ltd	E	Interglobe	O	SEW Construction	Vedanta
American Tower Corporation		Interview Air		Shriram	Vodafone
AMW	Ellenbarrie Industrial Gases	IOCL	OASIS	SIB & JIT's Life	ValueLabs
APGCL (ASEB)	Ltd	IOTL	OIL	Signum ITechnology	
APL (NAMRUP)	EMAMI Ltd	ITC Foods	ONGC	Simplex Infrastructures Ltd	W
Arden	Energy Infratech Pvt Ltd	ITD Cementation India Ltd	Oyo Rooms	SIMS	
AREVA	Ericsson India	IVRCL	P	Sis Prosegur	Wipro Ltd
Aristocrat Gaming	Eureka Forbes	J		Sling Infocom	WSP
ASEB	Eveready		Paharpur Cooling Towers Ltd	SM Group	
Ashok Leyland	ETS Infrastructures	Jindal Steel & Power Ltd	Parker Hannifin	Smartprix	X
Asian Motors		JUD Cement	Parking Rhino	Solitarie	
Asian Oil Services	F	K	Patel Engineering Ltd	SOMA Electronic	XL Dynamics
Amazon	Federal Bank	Kalpataru Power Tx	Patil Group	SONY Software	
Abaqus Inc.	Futures First	Kanbay	Philips India	SpeechWareNet	Y
B	G	KC Engineers Pvt Ltd	Polycab	SPML Infra Limited	
BARC		Kaziranga University	POSCO Steels	SSDA	Yodlee
BCPL	Gallup Consultancy	KEC International	Powergrid	Star Cement	
BEL	Gammon India	Kennametal	PRADAN	Sterling	Z
Berger Paints	Gannon and Dunkerly	Kirloskar Brothers Ltd	Premium Transmission	Subex	
Bharti Infratel	General Electric Healthcare	KSK Energy	Premium Transmission Limited	Schindler	Zaloni
BHEL	Genpact	L	Protech Group	T	Zenoova Technologies Pvt Ltd
BIET, Sikar	Geruda Power		Punj Lioyd		Zola Code
BOC	GNG Cements	L & T Infotech	Q	TAFE	
BOSCH	Godrej & Boyce	L & T Ltd		TATA Chemicals	
BPCL	Godrej Consumer Product	Libresoft	Quest	Tata Advanced Systems Limited	
Brigosha Technologies	GSG	Live Health	R	Tata Consultancy Services	
British Paints	H	LNJ Bhilwara Group		Tata Consulting Engineers Limited	
BitChem	Halliburton	Luit Minerals	Regalix	TATA Elxsi	
Black Tiger Cement	Havells	M	Reliance	TATA Power	
C	HCC	Mahindra Engineering.	Reliance Power Ltd.	Tata Technologies Limited	
Calcom Cement	Hindustan Steelworks	Marico	Reliance Telecom	Tech Brivo	
Capgemini	Construction Ltd.	Maveric	Resonance	Tech Mahindra	
CCDB Ltd.	Hindustan Unilever Limited	MAX Cement	Rites Limited	Technosoft Consultancy	
Century Link	HPCL Paper	MEGHA elc	Rivigo	Texas Instruments	
Century Ply	Huawei	Microsoft India	RMC Readymix	Thermax	
CoCubes	Human Resocia Co. Ltd.	Mobisoft Technologies	RNB Cement	Thomson Digital	
Coffee Day Beverages		MuSigma	Royal Group of Institution	Topcem Cement	
Cognizant			Royal University of Bhutan	Torrecid Group	
Concept Educations			RVNIL	Tractors India Ltd	
Control Print				Trawltag	
Cue Learn (Math)				TTS	

LOCATING AND REACHING

The AEC Campus is at a 30 minute drive away from LGBI Airport, 15 minutes from ISBT Guwahati, 1 hour from the Paltan Bazar Railway Station and around 11 kms from the heart of the city. Guwahati, being the gate-way of North East is well connected by air, rail and road with the rest of the country. There are direct air services to/from all major cities in the country.

Indian Airlines, Jet Airways, Indigo, Spice-Jet etc. operate regular flights to and from Guwahati. Assam State Transport Corporation runs the college bus service for the students and staff which connects to the city.



TRAINING AND PLACEMENT OFFICER

Dr. Satyajit Bhuyan

Faculty , Electrical Engineering
Training and Placement Officer
Mobile:- +91 9854536170

Dr. Ashim Kumar Basumatary

Faculty , Chemical Engineering
Training and Placement Officer
Mobile:- +91 9101151604

TRAINING AND PLACEMENT SECRETARY

DEPARTMENT CO-ORDINATOR

B- TECH

CIVIL ENGINEERING

RITURAJ BORAH
KHANJAN BARMAN
NOIN RIFATUL KHAIR MAJUMDAR

MECHANICAL ENGINEERING

AVEGAROHAN JAISWAL
ABHILASH DAS

ELECTRONICS AND COMMUNICATION ENGINEERING

PRASURJYA KASHAP
PARTHA DUTTA

COMPUTER SCIENCE ENGINEERING

SUDARSHAN SAIKIA

CHEMICAL ENGINEERING

HRISHIKESH BHATTACHARYA
SUMAN KUMAR KURMI

INDUSTRIAL AND PRODUCTION ENGINEERING

JYOTIRMOY DAULAGUPHU

ELECTRICAL ENGINEERING

ANUJ PRATIM TALUKDAR
RAJDEEP SINGH
SAMEER KASERA

INTRUMENTATION ENGINEERING

KRISHNA DAS

M-TECH

CIVIL ENGINEERING

MRIDUL KALITA (WATER RESOURCE)
RAJDEEP KALITA (GEO-TECH)

MCA

SANDIP DAS

ELECTRICAL ENGINEERING

DHRUBAJYOTI CHOUDHURY (POWER SYSTEM)

POSTAL ADDRESS

TRAINING AND PLACEMENT CELL

ASSAM ENGINEERING COLLEGE

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