



2026-27 B.Tech Programme in ELECTRONICS COMMUNICATION AND ARTIFICIAL INTELLIGENCE

ADMISSION OPEN

Programme admission is strictly through JoSAA/CSAB

Approved Intake **80** Students



ABOUT THE INSTITUTE

- Indian Institute of Information Technology Guwahati (IIITG) is an **Institution of National Importance** under the IIIT (PPP) Act, 2017. Commenced its academic operations in **2013**.
- Located 6.8 km from Lok Priya Gopinath Bordoloi International Airport and 24 km from Kamakhya Railway Station.
- IIRF 2026**: Ranked **5th** among IIITs & **1st** among PPP-mode IIITs.
- NIRF 2024**: IIITG is the **only PPP-mode IIIT** to be **ranked among the Top 200 Engineering Institutions** in India.
- Home to **highly motivated faculty members** actively engaged in research, innovation, and quality teaching.
- Students actively participate** in startups, research publications, national/international conferences & hackathons, showcasing technical and entrepreneurial excellence

FACILITIES WE PROVIDE

Expert Faculty in AI, Electronics and Communication Engineering



Learn from leading researchers in smart hardware and AI. Faculty expertise spans Neuromorphic VLSI circuits, Edge AI accelerators, 6G wireless networks, autonomous robotics, SoC-FPGA optimization, machine learning, and massive IoT, preparing graduates for leadership in the global AI and electronics industry.

High-end Computing & Software Suite



Access industry-standard tools such as Cadence, Synopsys, FPGA boards, Xilinx Vivado, MATLAB & Simulink, ANSYS HFSS, CST Studio Suite, and high-performance GPU workstations for AI hardware design, intelligent IoT development, and advanced AI/deep learning model training.

Advanced Infrastructure



State-of-the-art labs for hands-on learning & advanced research, including Advanced VLSI & CAD Lab with Cadence, Synopsys, & FPGA boards (Basis-3, Zedboard); Embedded Systems & Robotics Labs with mobile robots, robotic arms, & MATLAB integration; a Microwave Engineering Lab with VNAs, Microwave Signal Generators, & ANSYS HFSS; a Communication Lab featuring NI USRP, LabVIEW, & MATLAB; well-equipped Basic Electronics Lab.

ECE Alumni



ECE alumni are employed at leading semiconductor, communication, software, and AI companies, including NVIDIA, Qualcomm, ARM, Google Silicon, Cadence, GlobalFoundries, Amazon, Oracle, Accenture, and many others.

For more information regarding the programme please visit:

- <https://www.iiitg.ac.in/eca-curriculum.html>, or
- JoSAA /CSAB official portal**, or
- Scan the QR code to know about ECAI curriculum



ABOUT THE PROGRAMME

- The programme is designed to create innovators and researchers capable of addressing the rapidly growing demand for artificial intelligence-driven technologies in modern electronics and communication systems.
- With the recent boom of AI across industries, the B.Tech programme in Electronics Communication and Artificial Intelligence at IIITG aims to develop strong interdisciplinary expertise by combining the foundations of electronics and communication engineering with advanced AI technology and intelligent computing techniques.
- Students are introduced to core areas such as electronics, signals and systems, communication engineering, embedded systems, VLSI, & intelligent hardware systems in the early semesters.
- The curriculum further integrates emerging subjects, including machine learning, deep learning, data analytics, computer vision, intelligent wireless networks, and AI-enabled automation.
- The programme prepares students to contribute towards next generation smart systems, autonomous technologies, IoT applications, semiconductor industries, and intelligent communication networks.
- In addition, the students are also well prepared to pursue higher studies, research, innovation, and entrepreneurship in rapidly evolving domains related to Electronics and Artificial Intelligence.

Physical reporting: **As per CSAB Special Round Schedule (13-18 August 2026)**

For programme details, please contact: [Dr. Mourina Ghosh](mailto:hodece@iiitg.ac.in)

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