



CENTRE FOR CAREER DEVELOPMENT  
IIT GUWAHATI

# Department Placement Brochure.

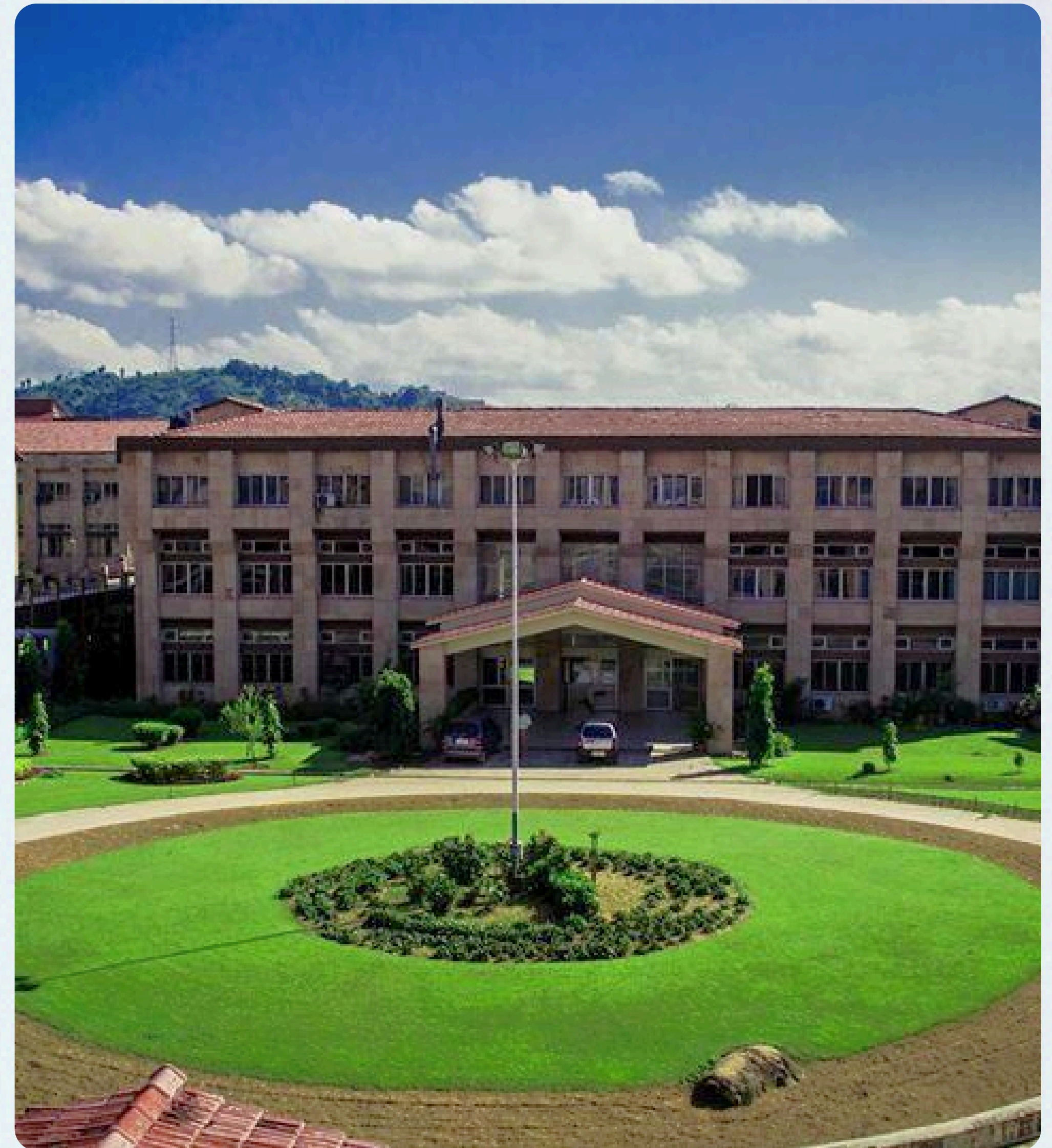
BATCH OF 2026 | Centre for Intelligence Cyber-Physical-System

# About IIT Guwahati.

Established in 1994, Indian Institute of Technology Guwahati is the sixth member of the IIT fraternity and one of India's premier institutions for higher education, research, and innovation. Within a short span, the Institute has emerged as a global centre of excellence in science, technology, management, and design. The picturesque campus spans 285 hectares on the northern bank of the Brahmaputra River, approximately 20 km from the heart of Guwahati city. Surrounded by scenic hills and open spaces, it offers a perfect environment for learning, research, and holistic development. IIT Guwahati offers a wide array of academic programmes including B.Tech., B.Des., BSc (Hons), M.Tech., M.Des., M.Sc., MBA, M.A., MS(R) and Ph.D. across 11 departments, 9 interdisciplinary centres, and 5 schools, covering major disciplines in engineering, science, humanities, healthcare, and management.

The Institute has built world-class infrastructure and houses state-of-the-art laboratories and National Centres of Research that support cutting-edge research. Students are encouraged to take up interdisciplinary coursework, pursue minor degrees, and choose from a rich variety of open and interdepartmental electives. IIT Guwahati has signed MoUs with top international universities, facilitating semester exchanges and summer internships, thereby broadening students' global exposure. Our students regularly intern at leading global firms and research institutions, gaining invaluable real-world experience.

Ranked among the top 100 world universities under 50 years by Times Higher Education (THE), IIT Guwahati continues to excel globally. The Institute was ranked 42nd globally in 'Research Citations per Faculty' and 344th overall in QS World University Rankings.





# About the Department .

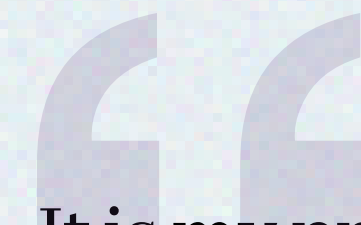
The Centre for Intelligent Cyber-Physical Systems (CICPS) at IIT Guwahati is dedicated to advancing technologies at the intersection of the **digital and physical worlds**. Our vision is to revolutionize industries by **developing intelligent systems that adapt, learn, and optimize operations** in real time, thereby enabling automation, data-driven decision-making, and seamless human–machine collaboration.

Our MTech program in **Robotics and Artificial Intelligence** is designed for top-tier students who excel in the **GATE** examination, ensuring that we attract the **brightest minds**. The program offers an advanced curriculum that seamlessly **integrates AI and robotics**, covering areas like **machine learning, computer vision, and intelligent automation**. Students gain **hands-on experience** through direct engagement with our state-of-the-art laboratories, allowing them to design, develop, and test sophisticated systems and solutions.





# From the desk of HOD.



It is my privilege to introduce the graduating batch of **M.Tech in Intelligent Cyber-Physical Systems (CICPS)** at **IIT Guwahati**. The program is designed to bridge the gap between the physical and digital worlds by combining **Robotics, Artificial Intelligence, and Machine Learning** with real-world engineering applications.

Our curriculum blends core courses with advanced electives across **Machine Learning, control systems, computer vision, deep learning, NLP, optimization, and human-machine interaction**, ensuring our students are not only academically strong but also **industry-ready**. With guidance from **41 faculty members** across **ME, EEE, CSE, Civil, and Design**.

The students of this batch have undergone a rigorous selection process, and their training equips them to tackle complex real-time challenges with **automation, data-driven decision making, and sustainable technological solutions**.

**Name : Prof. R Ganesh Narayanan**  
Head of the Department



# From Department Faculty Representative.



The Center for Intelligent Cyber Physical Systems at IIT Guwahati aims at fostering interdisciplinary research collaborations that integrate physical and computational systems. The academic curriculum of this center is designed to enable students to solve radical problems using **Computer vision, Robotics, Machine learning, Deep Learning, Sensors, and Control** through via fundamental and applied research .

Many of our previous students are doing extremely well in **global companies** and overall, our students possess the necessary knowledge, **multi-disciplinary skills** and **problem-solving abilities** that enable them to take on engineering as well as strategic visionary roles in the industry.

On behalf of the Center, I welcome prospective recruiters to visit us and participate in the on-campus placement process at IIT Guwahati.

**Name : Dr. Chayan Bhawal**

CPPC : Centre of Intelligence Cyber Physical System

# Demographics.

## M.Tech Program

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M. Tech in Robotics and AI is a four semesters program with eleven courses in first and second semesters and followed by two project works in fourth and fifth semesters.

Total forty seats, in which 30 is for regular category, and rest 10 seats for sponsored category. Candidates applying in regular category, have completed B. Tech or equivalent in EE/EEE/CSE/Mech/PE/Civil/IT/Design and with valid GATE or CEED Score in EE/ECE/ME/CSE/CE/PE/Design.

## PhD Programs

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The Ph.D. programme consists mainly of an open-ended research work that is expected to make a contribution to Technologies for Underwater Exploration. Major goal of the centre is to provide students with a broad variety of educational experiences: developing their problem solving skills, challenging them with open-ended problems and design projects, developing their written and verbal communication skills, and making research or independent experiences available to those students with the desire and capability.



# Courses Offered.

## M.tech Core Courses:

Artificial Intelligence

Fundamental of robotics

Machine Learning

Robot Sensing & Vision

Technical Writing

## LABS

Python Programming Lab

Robot Design Laboratory

Artificial Intelligence Lab

# Electives.

Deep Learning

Control System

Electronics Product Design

Mobile Robotics

Mathematics for ML

Pattern Recognition with ML

Image processing with ML

Computing with Signals

Computer Vision

High Performance Computing



# Key Research Areas.

Underwater Systems:  
Design and Development

Underwater Exploration

Underwater Structural Analysis

Sonar and Underwater Acoustics

Power Electronics for Underwater Systems

Underwater Concrete Printing

AR/VR Lab

Drone Navigation LAB

Robotics Manufacturing

AI and ML in Manufacturing Processes

Digital Twin of Manufacturing Systems and  
processes

# Instrument Facilities/ Laboratories.



Product Development Lab



Internet of Things Lab



E-Mobility Lab



Underwater Natural Resources Lab



# Past Recruiters.



## Major Projects.

Project Title	Principle investigator	Funded agency
Design and Development of a Robotic Vision System for Underwater Trash Detection using Subsea Inpainting and Textual Artifact Analysis	Dr. Anirban Dasgupta	CICPS
Computer Vision for Under Water Exploration under Technology Innovation Hub on Under Water Exploration	Dr. Arijit Sur	CICPS
Design and Development of a Motion Planning and Control Scheme for an AUV swarm with Application to Underwater Surveillance	Dr. Parijat Bhowmick	CICPS
Multi-Axis Multi-Material Wire Arc Additive Manufacturing	Dr. Sajan Kapil	DSTA, GOI



# Contact Details.

## Prof R Narayanam

Head of the Centre

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## Dr Chayan Bhawal

CPPC

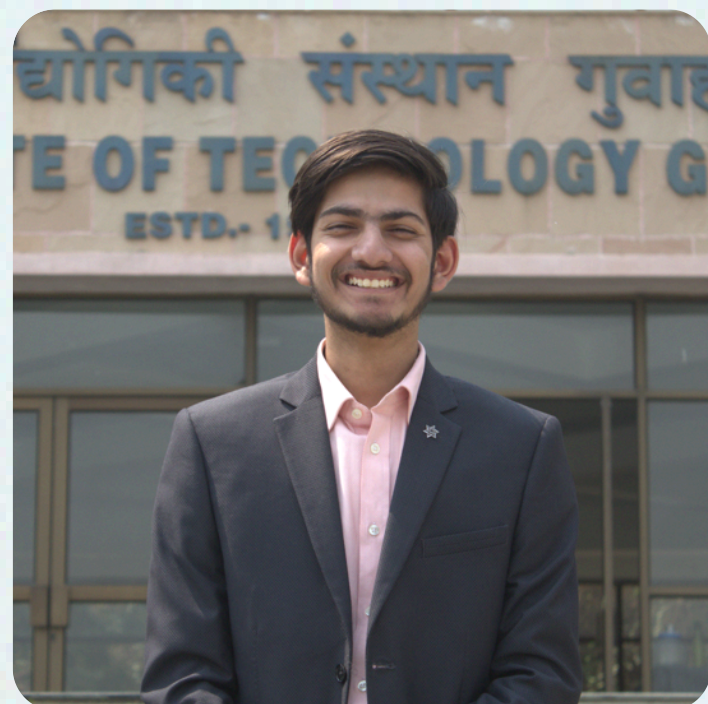
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# Department Placement Representatives.

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**Department Website**

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