



CENTRE FOR CAREER DEVELOPMENT
INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI

DEPARTMENT OF CIVIL ENGINEERING.

Batch of 2027 | Department Presentation

B.TECH · M.TECH · PHD

Index

About IIT Guwahati	01	Infrastructure	16
Director’s Message	02	Faculty	17
About the Department	03	Research	21
Head of the Department’s Message	04	Recognition	23
Department Faculty Representative’s Message	05	Past Recruiters	25
Programmes Offered	06	Department’s Contact Details	26
Student Strength	07	CCD Team	27
Academics	08	Contact	31

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.



Director's Message



Indian Institute of Technology Guwahati was established in 1994 by an Act of Parliament. The academic programme started with 65 students in three undergraduate programmes in 1995. The institute is growing steadily and the total number of students in eleven departments, nine academic centres and five schools in numerous undergraduate and postgraduate programmes is now around 8600. The institute has excellent infrastructure for the all round development of its students. The institute has full-fledged Technology Incubation Centre and Research Park to promote entrepreneurship activities.

IIT Guwahati continues to maintain its superior position in various International and National Rankings. IIT Guwahati secured the 8th position among the top engineering institutions in India in the NIRF 2025 Rankings, released by the Ministry of Education.

Additionally, IIT Guwahati has been ranked as the 11th best university in the country. IIT Guwahati has been ranked 2nd in the 'Swachhata Ranking' conducted by the Govt. of India. IIT Guwahati has been ranked as the topranked university in 2019 for IT developers by HackerRank in the Asia-Pacific region. IIT Guwahati gained 42 position globally in the 'Research Citations per Faculty' category and overall 344 rank in the QS World University Rankings 2025 released recently. Also, IIT Guwahati ranks 6th globally in Sustainable Development Goal 7 (Affordable and clean energy) of the Times Higher Education Impact Rankings 2023.

With Best Wishes,

Prof. Devendra Jalihal

Director, IIT Guwahati

The institute has a very good central library, which provides library and information services to support teaching, learning, and research activities by creating state-of-the-art facilities. It is housed on a four-storey building having a floor area of about 7500 sq. meter. Inhouse services of the library are fully computerised and wi-fi facility is provided within the library building for connecting to the internet and accessing the Institute's electronic resources. The sports facilities of the institute are of international standard. The students graduating from this institute are motivated, bright, and very eager to perform after they graduate.

IIT Guwahati has extensive facilities for cultural and creative activities too. For example, the Technical Board promotes technology, creativity and innovation. IIT Guwahati helps in shaping up bright minds with proper perspectives. IIT Guwahati hosts two supercomputing facilities PARAM-Kamrupa (838 TF) and PARAM-ISHAN (250TF) to carry out research activities in various scientific domains including forecasting of weather and climate, bioinformatics, computational chemistry, molecular dynamics, artificial intelligence (AI) and machine learning and especially data science.

Because of the excellent performance of the students of IIT Guwahati in all the fields of study and research, guided by the dynamic faculty members and with the full support of the non-teaching employees, IIT Guwahati could feature in the coveted list of young universities (under 50 years of age) of the world selected by the Times Higher Education (THE) magazine. IIT Guwahati is the only Indian entry to this elite list. I cordially invite all prospective employers to visit IIT Guwahati and to participate in the on-campus placement and internship processes.

About the Department

Vision

To embark on a knowledge endeavour through innovation in civil engineering education and research for sustainable development of the nation with special emphasis on the Northeastern region.

Mission

- To create collegial, collaborative and stimulating environment for achieving academic excellence.
- To undertake inter-disciplinary research for sustainable development of the nation.
- To integrate research, innovation and technology in the learning domains of undergraduate and postgraduate education.
- To serve as a knowledge hub for the society by fostering continuing education, professional events and innovative consultation

The Department of Civil Engineering at IIT Guwahati was established in 1997 and has continually upgraded itself in terms of academic programs and research infrastructure, including state-of-the-art laboratories. The department attracts the finest young and dynamic faculty members and the best of the students for its Bachelors, Masters, and Doctoral programs. Presently, the department has 50 top quality faculty members. The Department is committed to providing excellent in-classroom infrastructure, enrichment of the academic and professional experience of students, outreach to the engineering community and society, and advancement in Civil Engineering.



Head of Department's Message

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Department of Civil Engineering at IIT Guwahati was established in 1997 and has continually upgraded itself in terms of academic programs and research infrastructure including state-of-the-art laboratories. The department attracts the finest young and dynamic faculty members and the best of the students for its Bachelors, Masters and Doctoral programs. Students are exposed to well-defined academic programs along with a host of sports, cultural and organizational activities in a vibrant and beautiful campus of IIT Guwahati.

The presence of state-of-the-art experimental and computational facilities, active institute-industry interaction, national and international exchange programs and industrial/research training opportunities help the students in the department to excel in the competitive professional life. Our graduates and postgraduates have been selected by leading national and multinational firms and research/academic institutes.

The achievement of our students have really have made us proud! The department is committed to providing excellent in classroom infrastructure, enrichment of the academic and professional experience of students, outreach to the engineering community and society, and advancements in Civil Engineering. We would be happy to receive any valuable suggestions from your side. Feel free to contact us if you have any such questions or comments

With Best Wishes,

Prof. Rajib Kumar Bhattacharjee

Head of Department · Civil engineering

Department Faculty Representative's Message

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The Department of Civil Engineering attracts the best minds in B.Tech., M.Tech., and Ph.D. programs. Our B.Tech. program is meticulously designed to cover major specializations, including Structural Engineering, Environmental Engineering, Geotechnical Engineering, Infrastructure Engineering and Management, Water Resources Engineering, Transportation Engineering, and Earth System Science and Engineering. Our M.Tech programs are designed to cover tailor-made courses in the area of specialization. The students are groomed through assignments, research projects, and seminars.

The continuous learning and innovation through various courses, state-of-the-art laboratories, modern tools, and software enable our students to be fundamentally strong and well-trained to remain at the forefront in handling complex problems of the industry and society. Our Ph.D. scholars are also vital contributors to the cutting-edge research in Civil Engineering.

We cordially invite the recruiters to participate in our placement drive and connect with this talented branch of students from the Department of Civil Engineering, who can immensely contribute to the growth of your organization.

With Best Wishes,

Dr. Santu Kar

Department Faculty Representative · Civil engineering



Programmes Offered

Bachelor of Technology (B.Tech)

ADMISSION VIA JEE ADVANCED

Our B.Tech program in Civil Engineering offers a meticulously crafted curriculum that covers all major disciplines of civil engineering, including Structural engineering, Geotechnical engineering, Transportation engineering, Environmental engineering, Water resource engineering and management, Infrastructure engineering and management and Earth system science and engineering. We provide our students with a well-rounded education that prepares them for diverse career paths within the field. The B.Tech curriculum involves an eight-semester program with the objective of providing a platform for the students to develop skills and knowledge in the field of Civil Engineering. Apart from that, the program also includes courses on humanities and social sciences and many electives. Our students gain hands-on experience and valuable skills by collaborating with industry leaders in the civil engineering sectors.

Doctor of Philosophy (PhD)

ADMISSION VIA WRITTEN TEST & INTERVIEW

Our Ph.D. program, currently enrolling 206 students, is designed to facilitate comprehensive proficiency in the chosen field. This is accomplished through a structured curriculum comprising coursework and culminating in intensive doctoral research. Our students actively engage in both experimental and theoretical research across seven specialized areas within Civil Engineering.

Master of Technology (M.Tech)

ADMISSION VIA GATE

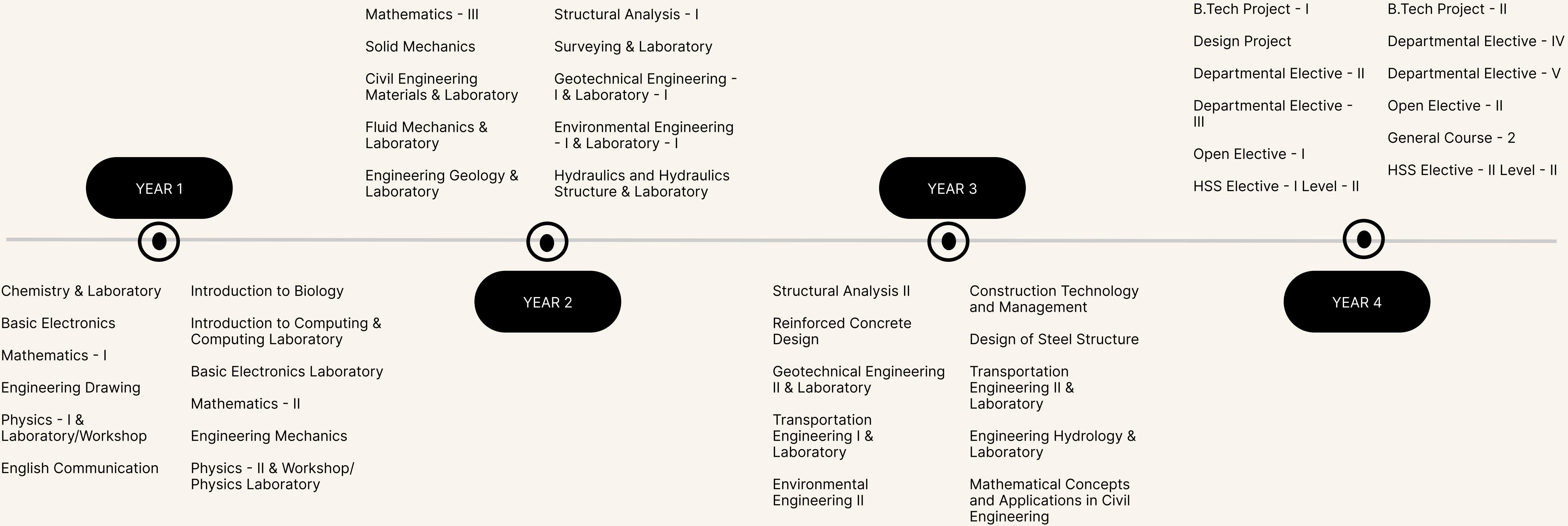
The M.Tech curriculum involves a rigorous four-semester program tailor-made to the area of specialization. The program follows a balanced approach of training in both qualitative/experimental and quantitative aspects of the respective field of specialization. The students are also required to undertake teaching assistantships, thus grooming them into well-rounded individuals capable of completing challenging assignments. The Department offers degrees in seven different specializations: Earth System Science and Engineering, Environmental Engineering, Geotechnical Engineering, Infrastructure Engineering and Management, Structural Engineering, Transportation Systems Engineering, Water Resources Engineering and Management

Student Strength

PROGRAMME	GRADUATING YEAR	STUDENTS
Bachelor of Technology	Batch of 2027	105
Master of Technology	Batch of 2027	123
Doctor of Philosophy	Batch of 2027	206
Total		434



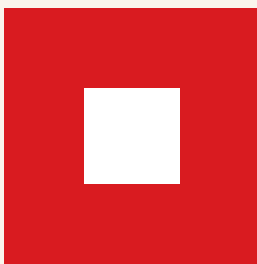
B.Tech Course Curriculum



Earth System Science and Engineering

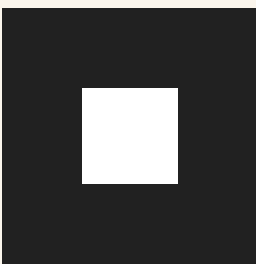
Key Research Area:

- Geodesy and mapping
- Hydrological modeling
- Photogrammetry and LiDAR
- Remote sensing techniques integration
- Sensor calibration and synthetic simulation
- Petrophysical modeling for petroleum exploration
- Sediment dynamics in fluvial systems
- Environmental impact/risk assessment & management
- Groundwater potential and recharge mapping (RS & GIS)
- Airborne remote sensing (UAV) for mapping and exploration
- Advanced RS (hyperspectral, thermal, microwave) & GIS for earth and planetary exploration



Laboratory

Equipped with advanced soil, rock, and material testing facilities to support hands-on geotechnical analysis, geological modeling, and subsurface research.



Software Application

Students gain hands-on proficiency in industry-standard tools, utilizing ArcGIS and ENVI for geospatial analysis and remote sensing, alongside MATLAB and Python for numerical modeling and data processing.

Key Courses / Electives

- Earth System Dynamics
- Exploration Geoscience
- Advanced Remote Sensing
- Geohazard Science and Engineering
- Advanced Techniques in Geoscience
- Numerical Methods
- Optimization Methods
- Statistical Methods in Civil Engineering
- Geodesy and Mapping
- Geostatistics
- Structural Dynamics

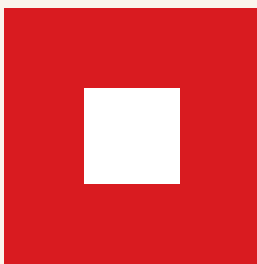
- Advanced Fluid Mechanics
- Flow and Transport Processes in Fractured Media
- Petroleum Geology
- Structural Geology
- Geochemistry
- Advanced Image and Spectral Analysis
- Precision Remote Sensing
- Advanced Hydrogeology
- Rock Mechanics
- Petrophysics
- Subsurface Investigation and Instrumentation
- Underground Exploration
- Environmental Hydrology

- Stochastic Hydrology
- Continuum Mechanics
- Introduction to Multiphase Flow
- Environmental Management of Water Resources
- Pollution and Contaminant Flux in Water Environment
- Water Resources Systems Analysis, Planning & Management
- Sediment Dynamics in Fluvial Systems
- Engineering Seismology
- Earth System Engineering
- Earthquake Engineering
- Climate Change: Causes, Effects and Mitigation
- Landslide Engineering
- Advanced Geological Engineering

Environmental Engineering

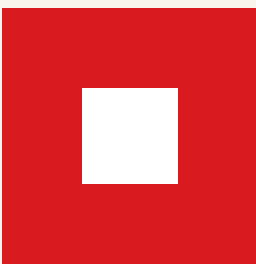
Key Research Area:

- Wastewater treatment
- Solid waste management
- Biogas
- Pollution modeling
- Air quality modeling
- Sludge treatment
- Heavy metal removal and recovery
- Environmental impact, risk assessment & management



Laboratory

Equipped with advanced air, water, and microbiological testing facilities to support hands-on pollutant characterization, air quality modeling, and solid waste remediation research.



Software Application

Students gain proficiency in ArcGIS and AERMOD View for spatial and air dispersion modeling, alongside Ansys and MATLAB for fluid simulations and data processing.

Key Courses / Electives

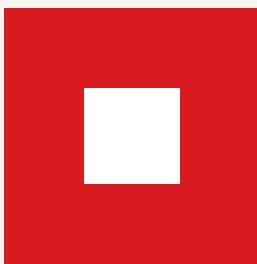
- Process Chemistry for Water and Wastewater Treatment
- Physico-chemical Processes in Environmental Engineering
- Air and Noise Pollution
- Biological Processes in Environmental Engineering
- Solid and Hazardous Waste Management
- Design of Environmental Engineering Systems
- Numerical Methods
- Optimization Methods

- Computational Methods in Hydraulics and Environmental Engineering Applications
- Air Quality Modeling
- Environmental Systems Engineering Laboratory
- Environmental Management
- Principles of Water Quality and Legislation
- Industrial Wastewater Pollution Control
- Water Distribution and Wastewater Collection System Design

Geotechnical Engineering

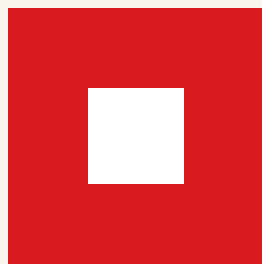
Key Research Area:

- Soil characterization
- Shallow and Deep foundations
- Reinforced soil structures
- Seismic stability of slopes and retaining walls
- Design of offshore foundations
- Field instrumentation and testing
- Ground improvement techniques
- Geo-environmental engineering
- Soil dynamics
- Seismic hazards of Urban Centers
- Analysis and design of machine foundations
- Engineering seismology
- Seismic soil-structure interaction



Laboratory

Equipped with advanced soil, rock, and geosynthetic testing facilities to support hands-on geomaterial characterization, subsurface condition analysis, and foundation engineering research.



Software Application

Students gain proficiency in GeoStudio and PLAXIS for geotechnical and finite element modeling, alongside rocscience and MATLAB for rock mechanics and numerical data processing.

Key Courses / Electives

- Advanced Soil Mechanics
- Dynamics of Soil and Foundations
- Advanced Foundation Engineering
- Numerical Methods
- Optimization Methods
- Fuzzy Logic and Artificial Intelligence in Civil Engineering Applications
- Computer Aided Design
- Earthquake Engineering
- Random Vibration
- Finite Element Analysis

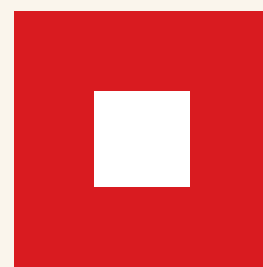
- Computational Plasticity
- Pavement Analysis and Design
- Reinforced Soil Structures
- Subsurface Investigation and Instrumentation
- Earthquake Geotechnical Engineering
- Elastic Analysis in Geotechnical Engineering
- Soil-Structure Interaction
- Rock Mechanics
- Environmental Geotechnology

- Applied Soil Mechanics
- Ground Improvement Techniques
- Geotechnical Practice for Waste Disposal
- Expansive Soil
- Mechanics of Unsaturated Soils
- Landslide Engineering
- Applied Seismology
- Geo-energy Systems

Construction Engineering and Management

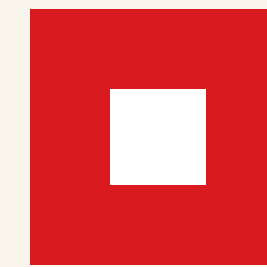
Key Research Area:

- Sustainability in construction
- Cost of Quality
- Durability in concrete
- Geopolymer concrete
- BIM and construction automation
- Resource optimization
- Construction workers
- PPP projects
- Infrastructure Management



Laboratory

Equipped with advanced computing and project management facilities to support hands-on financial modeling, nDimensional facility modeling, and infrastructure risk assessment research.



Software Application

Students gain hands-on proficiency in industry-standard tools, utilizing Autodesk Revit and Navisworks for nDimensional building modeling and project coordination, alongside MS Project and Oracle Primavera for resource-driven scheduling and earned value analysis.

Key Courses / Electives

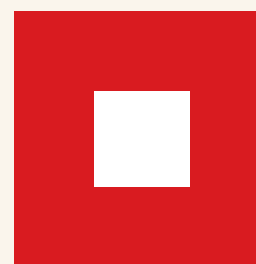
- Infrastructure Planning
- Project Management in Construction
- Construction Methods and Equipment Management
- Financing Infrastructure Projects
- Advanced Concrete Technology
- Project Management Laboratory
- Numerical Methods
- Optimization Methods
- Quality and Safety Management in Construction
- Advanced quantitative techniques in construction management

- Advanced Structural Design
- Urban Transportation Systems Planning
- Water Distribution and Wastewater Collection System Design
- Solid and Hazardous Waste Management
- Environmental Management
- Transportation System Management
- Public Transportation Systems Planning
- Water Resources Systems Analysis, Planning and Management
- Stochastic Calculus for Finance
- Mathematics of Financial Derivatives

Transportation Systems Engineering

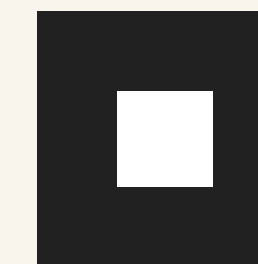
Key Research Area:

- Pavement Materials
- Analysis and Design of Pavement Structures
- Pavement Management Systems,
- Pavement Evaluation and Maintenance
- Precast and Cast In-Situ Concrete Block Pavement
- Use of Waste and Marginal Materials in Road Construction
- Sustainable Pavement Construction through Innovative Technologies
- Traffic Flow Theory and Modeling
- Traffic Data Collection and Analysis
- Travel Demand Modeling
- Driver Behavior Modeling
- Road Safety and Accident Analysis



Laboratory

Equipped with advanced traffic, pavement, and structural testing facilities to support hands-on material characterization, structural load evaluation, and transportation systems research.



Software Application

Students gain hands-on proficiency in industry standard tools, utilizing PTV VISSIM and HCS for microscopic traffic simulation and highway capacity analysis, alongside OpenRoads and AutoCAD for advanced highway geometric design and infrastructure drafting.

Key Courses / Electives

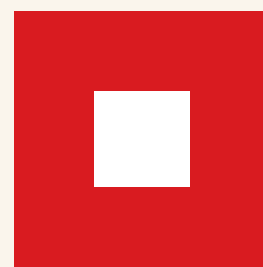
- Urban Transportation Systems Planning
- Pavements Materials
- Pavement Analysis and Design
- Traffic Engineering
- Classical Matrix Methods for Structural Analysis and Introduction to FEM
- Numerical Methods
- Optimization Methods
- Design and Construction of Rural Roads
- Bridge Engineering

- Geometric Design of Transportation Facilities
- Pavement Evaluation, Rehabilitation and Maintenance
- Highway Construction Practice
- Transportation System Management
- Economic Evaluation and Analysis of Transportation Projects
- Geographical Information System and Remote Sensing in Transportation Engineering
- Traffic Flow Modelling and Simulation
- Public Transportation Systems Planning
- Applied Soil Mechanics
- Ground Improvement Techniques
- Road Safety Engineering

Water Resource Engineering & Management

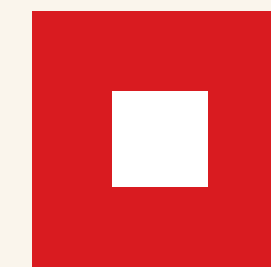
Key Research Area:

- Hydrology and Hydro-Climatology
- Computational River Hydraulics and River Mechanics
- Watershed and Irrigation Management
- Remote Sensing and GIS for Water Resources
- Sediment Dynamics and Fluvial Processes
- Groundwater and Subsurface Hydrology
- Dam-Break and Urban Flood Modelling
- Water Resources Systems Management and Reservoir Optimization
- Flow and Transport through Porous Media
- Water Quality and Environmental Impact Assessment
- Stochastic Hydrology and Hydrological Modelling
- Numerical Modelling, CFD and Machine Learning Applications



Laboratory

The laboratory supports experimental studies in fluid mechanics, open-channel flow, pipe flow and sediment transport, with facilities including flumes, hydraulic turbines and flow-measuring instruments. It also supports hydrological and geospatial studies using instruments.



Software Application

Advanced computational fluid dynamics (CFD) software used to simulate fluid mechanics, open-channel flows, dam breach hydraulics, and dynamic hydraulic structures.

Key Courses / Electives

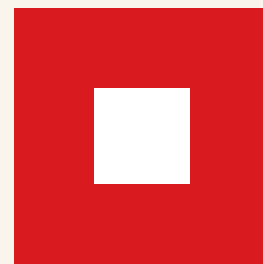
- Surface Water Hydrology
- Advanced Hydraulic Engineering
- Advanced Fluid Mechanics
- Principles of Water Quality and EIA
- Subsurface Hydrology
- Numerical Methods
- Optimization Methods
- Water Resources Systems Analysis, Planning & Management
- Environmental Hydrology
- Fuzzy Logic and Artificial Intelligence in Civil Engineering Applications

- Watershed Management and Remote Sensing Applications
- Computational Methods in Hydraulics and Environmental Engineering Applications
- Water Power Engineering
- Transient Flow Analysis
- Flow and Transport Processes in Fractured Media
- Stochastic Hydrology
- Introduction to Multiphase Flow in Porous Media
- Sediment Dynamics in Fluvial Systems
- Environmental Management of Water Resources
- River Engineering
- Pollution and Contaminant Flux in Water Environment
- Genetic Algorithms

Structural Engineering

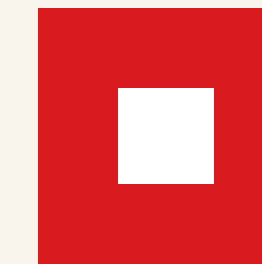
Key Research Area:

- Structural Dynamics and Earthquake Engineering
- Seismic Strengthening and Retrofitting of Structures
- Structural Health Monitoring, System Identification and Damage Detection
- Seismic Control and Wind-Induced Vibration Control
- Structural Mechanics and Continuum Damage Mechanics
- Fracture Mechanics and Engineering Fracture & Fatigue
- Finite Element Analysis and Computational Structural Mechanics
- Constitutive Modelling and Nonlinear Behaviour of Structures
- Durability of Structures and Non-Destructive Testing



Laboratory

Equipped for static, cyclic and dynamic testing of structural elements, including MTS hydraulic actuators, a uniaxial shake table, and data-acquisition systems. The lab also supports non-destructive testing and structural health assessment using instruments such as LVDTs, strain gauges, accelerometers, UPV, rebound hammer and rebar locator.



Software Application

Structural research and analysis are supported using SAP2000, STAAD.Pro, MIDAS Civil, ABAQUS, MATLAB and AutoCAD, along with other finite element, computational and structural analysis tools for modelling, simulation, seismic analysis and structural design.

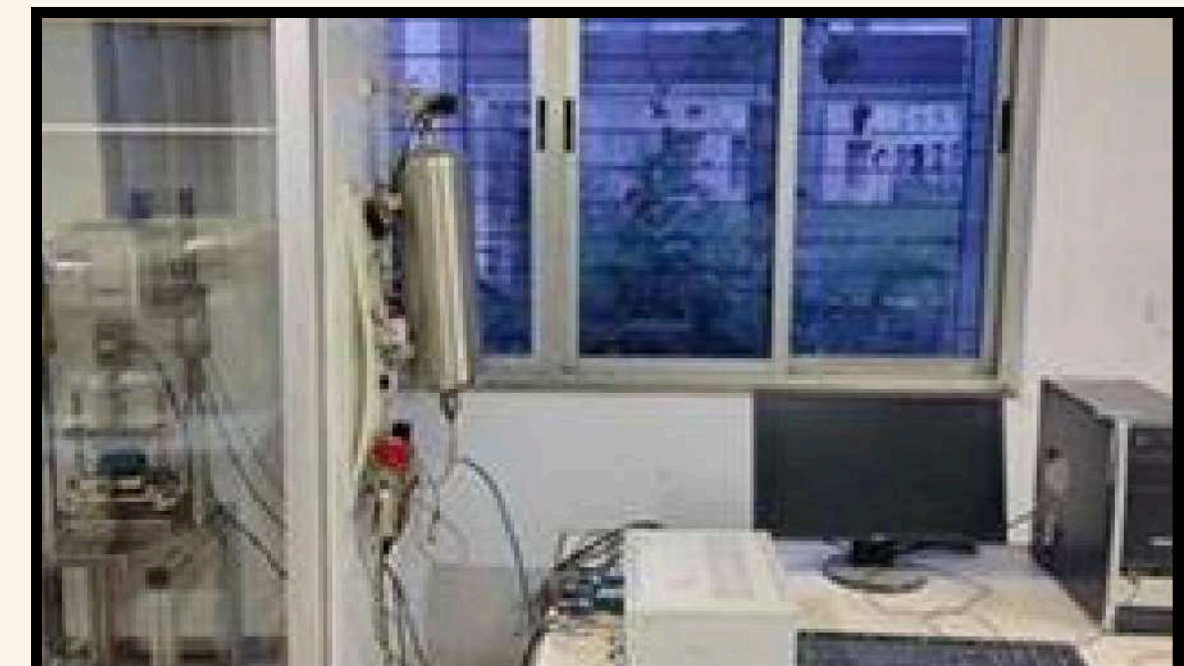
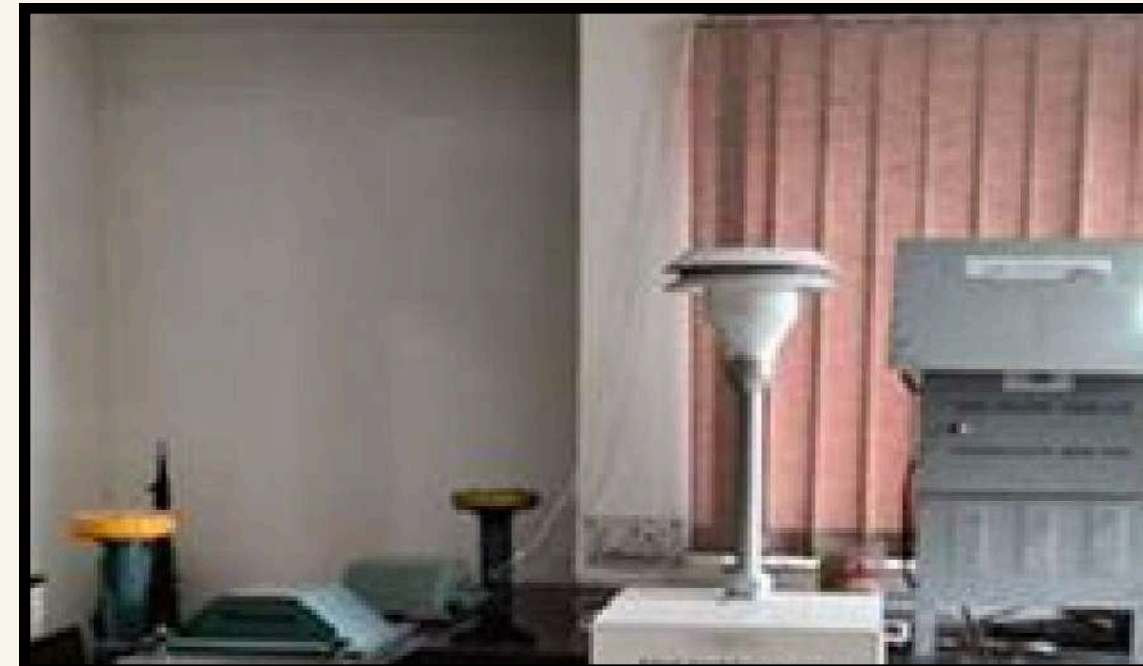
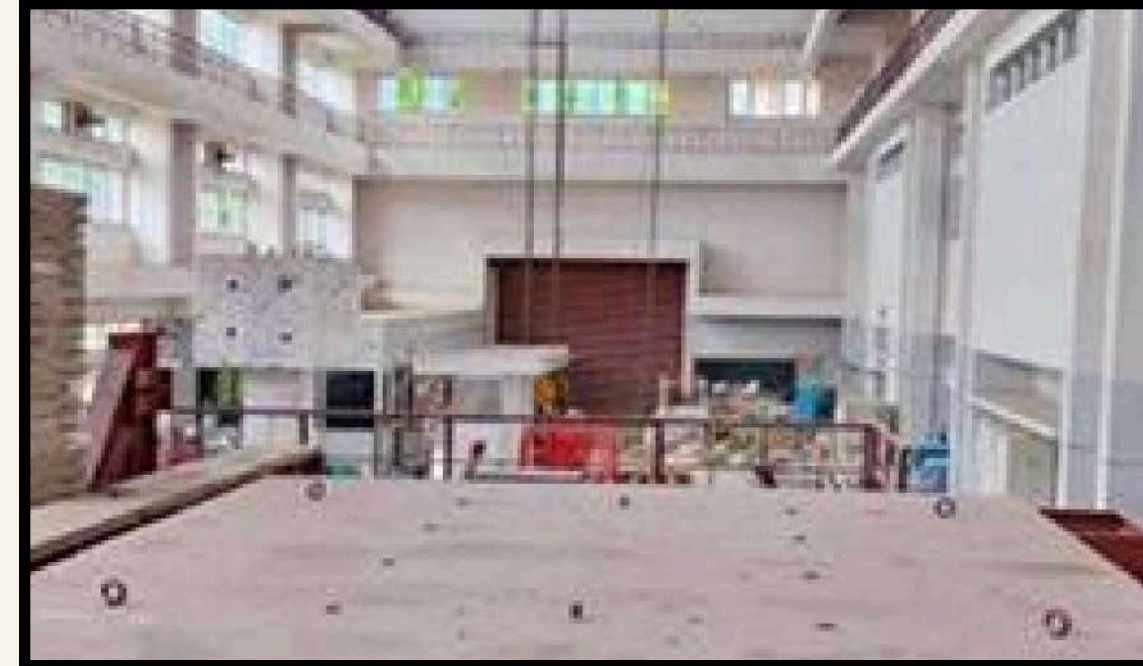
Key Courses / Electives

- Structural Dynamics
- Earthquake Engineering
- Finite Element Method
- Continuum Mechanics
- Structural Mechanics
- Computational Structural Mechanics
- Advanced Structural Design
- Structural Engineering Laboratory
- Plates, Shells and Elastic Stability
- Computational Plasticity
- Dynamics of Bridges

- Advanced Concrete Technology
- Engineering Fracture and Fatigue Mechanics
- Random Vibration
- Reliability-Based Structural Design
- Numerical Methods and Optimization Methods
- Statistical Methods in Civil Engineering
- Mechanics of Composite Materials
- Computer-Aided Design
- Fuzzy Logic and Artificial Intelligence in Civil Engineering Applications
- Construction/Infrastructure Project Management

Laboratories & Facilities

- Concrete Laboratory
- Computational Laboratory
- Earth System Science and Engineering Laboratory
- Environmental Engineering Laboratory
- Fluid Mechanics Laboratory
- Geoinformatics Laboratory
- Geotechnical Engineering Laboratory
- Hydraulic Engineering Laboratory
- Pavement Evaluation Laboratory
- Infrastructure Engineering and Management Laboratory
- Structural Engineering Laboratory
- Transportation Systems Laboratory
- Water Resources Engineering Laboratory
- Water Quality Laboratory



Faculty

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Faculty

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Sponsored Research Projects

Projects & Their Sponsoring Agency

Pre-opening Safety audit of Shillong Bypass Connecting NH-40 and NH-44

- Sponsoring Agency: **National Highways Authority of India**

Resistance Characteristics of Alluvial Channel with Mobile Bed vegetation

- Sponsoring Agency: **Ministry of Earth Sciences, Government of India**

Safer roads for Safer childhood

- Sponsoring Agency: **IFRC, Geneva, Switzerland**

Characterisation of sludge from secondary treatment plant of Nagaon Paper mill

- Sponsoring Agency: **HPCL, Kagaznagar**

Suitability of water sample for construction purpose

- Sponsoring Agency: **M/s: NTPC**

Road Surface Quality Assessment of Selected Border Roads Sections of India through Advanced Remote Sensing Technique

- Sponsoring Agency: **Defense Terrain Research Laboratory, DRDO, MoD (Govt. of India)**

Determination of the suitability of material as blanketing material

- Sponsoring Agency: **Northeast Frontier Railway**

Study of Glacial Dynamics and Sustainable Hydrological Resources in Arunachal Himalaya

- Sponsoring Agency: **National Mission for Sustaining the Himalayan Ecosystem, Dept. of Science & Technology, Govt. of India**

Evidence comparison between Tharsis, Hawaii island volcanism and Deccan Volcanic Provinces based on geomorphology and lithology

- Sponsoring Agency: **ISRO (Indian Space Research Organization)**

Road Surface Quality Assessment of Selected Border Roads Sections of India through Advanced Remote Sensing Technique

- Sponsoring Agency: **Defence Research and Development Organisation (DRDO), MoD, GoI**

Sponsored Research Projects

Projects & Their Sponsoring Agency

Development and Performance Evaluation of Ready Mix Thermal Insulation Foam Plasters for Energy Efficient Structures

- Sponsoring Agency: **DST–SERB**

Attenuation Ability of Municipal Solid Waste Landfill Liners for Viral Pathogens

- Sponsoring Agency: **SERB, DST, GoI**

Geopolymerization of fine fraction obtained from biomining of legacy waste from old MSW dumpsite

- Sponsoring Agency: **TDP, DST**

Environmental Audit of City Action Plan under the National Clean Air Programme for Guwahati and Nalbari cities

- Sponsoring Agency: **Pollution Control Board Assam**

Revision of IS 3114: 1994 Code of Practice for Laying of Cast Iron Pipes (Second Revision)

- Sponsoring Agency: **BIS**

Emission Inventory, source apportionment, carrying capacity studies for five non-attainment cities of Assam

- Sponsoring Agency: **CPCB, PCBA**

Performance study of primary clarifier of ETP in HPCL, Kagaznagar.

- Sponsoring Agency: **HPCL, Kagaznagar**

Preparation of Feasibility Study Report on Measures for Flood Mitigation and Control of Riverbank Erosion/ Shifting of River Course of Jia Bharali, Assam

- Sponsoring Agency: **Water Resources Department, Government of Assam**

Smart Hybrid Fiber Reinforced Polymer Composite Strengthening System for Civil Infrastructure

- Sponsoring Agency: **SPARC**

Enhancing Construction Safety, Sustainability, and Project Performance Using Cutting-Edge Technologies

- Sponsoring Agency: **NBCC (India) Limited**

Achievements



MatiDhan: Turning Waste into Wealth

2025 · SUSTAINABLE WASTE MANAGEMENT RESEARCH

IIT Guwahati Civil Engineering researchers developed a novel biodegradation technique that produces vermicompost in just 27 days, cuts waste volume by 71%, and delivers a nutrient-rich soil conditioner through MatiDhan.



L&T CreaTech 2026 Winner

2026 · LARSEN & TOUBRO

Team Concrete Queens from IIT Guwahati emerged as the National Winners, competing among 15,000+ participants across 200+ campuses. Their solution addressed precast-construction challenges using AI and IoT-driven monitoring.

Faculty distinctions

Civil Engineering faculty received the prestigious ISH Jal Vigyan Puraskar for Best Paper in 2023, recognising pioneering research on BRAHMA-2D, an indigenous river modelling system developed to understand the complex dynamics of braided rivers such as the Brahmaputra.

Faculty from the Department of Civil Engineering received the prestigious Young Faculty Excellence in Teaching Award 2026, recognising outstanding contributions to teaching, mentorship and academic development at IIT Guwahati.

A Civil Engineering faculty member received the prestigious MITACS Globalink Research Award in 2024 from Canada, recognising research at the intersection of quantum computing, satellite imagery and geospatial analysis.

Faculty members of the Department have received prestigious national recognitions including the INAE Young Engineers Award, IEI Young Engineers Award and INSPIRE Faculty Award, reflecting excellence in engineering research, innovation and academic contribution.

A Civil Engineering faculty member received the David Fischetti Award from the Association for Preservation Technology International, recognising outstanding research and contribution towards the preservation and understanding of the built environment

Student distinctions

Civil Engineering researcher received the Best PhD Thesis Award in 2025 at IIT Guwahati, recognising outstanding doctoral research on turbulence structures and bank erosion processes in dredged channels.

Civil Engineering student was selected among 10 students from India and 112 students globally for the AI & Graduate Program under the NUS Young Fellowship Programme 2026, earning international recognition for academic excellence and potential in emerging technologies.

Civil Engineering research scholar was selected as an International Advisory Board Member for the Symposium on Circular Economy and Urban Mining for 2022, 2024 and 2025, reflecting international recognition of his research expertise in sustainable waste management.

Civil Engineering doctoral scholar was selected for the prestigious 2025 LOTUS Programme of Japan’s Science and Technology Agency (JST), supporting advanced research on debris-flow hazards and protective barrier systems.

Civil Engineering student emerged as winner of the International Rover Design Challenge (IRDC) 2025, demonstrating excellence in engineering design, innovation and interdisciplinary problem-solving on an international platform.

Outreach Activities

National Seminar on Sensitizing Hill Area Development Engineering Through Indian Standards

Date: 22 May 2026

Organizers: Bureau of Indian Standards (BIS) in association with IIT Guwahati

Key Speakers: Dr. R. Anbalagan (IIT Roorkee/CED 56), Dr. Pankaj Gupta (CRRRI), Dr. K. Lakshmanan (GSI Kolkata), Dr. D.P. Kanungo (CBRI Roorkee)

Workshop on Role of Isolators in Seismic Resilience of Infrastructure.

Date: 26–27 February 2026

Organizers: Department of Civil Engineering, IIT Guwahati

Key Speakers: Prof. Lotfi Guizani (ETS Montreal), Prof. Romanbabu Oinam, Prof. Kaustubh Dasgupta, Prof. Sajal K. Deb, Prof. Sandip Das (IIT Guwahati), Mr. Nilanjan Ray (METCO)

Workshop on Developments in Seismic Risk Assessment of Infrastructure

Date: 24–25 August 2026

Organizers: Department of Civil Engineering, IIT Guwahati (Supported by SPARC & Outreach Education & Skilling)

Seminar on Importance of Instrumentation - Structural Health Monitoring

Date: 28 August 2026

Speaker: Mr. Sanku Sarmah (Project Manager) & Mr. Sudeep Das (Cluster Head), Encardio Rite Electronics Pvt. Ltd.

Seminar on Strengthening & Retrofitting of Structures :: Post-installed Solutions

Date: 07 August 2026

Speaker: Ms. Agamoni Das (Head Codes & Approvals - Fastening), Hilti India

Seminar on From Drawings to Reality: Delivering Large Infrastructure Projects

Date: 15 March 2026

Organizers: SAIL, IIT Guwahati

Speaker: Mr. Pratik Raj (Project Manager, Larsen & Toubro; Alumnus, IIT Guwahati B.Tech '14)

Workshop on Developments in Seismic Retrofitting of Buildings

Date: 04 August 2025

Organizers: Department of Civil Engineering, IIT Guwahati (Supported by SPARC)

Key Speakers: Dr. Luigi Di Sarno (Univ. of Naples / Univ. of Liverpool), Dr. Sajal K. Deb, Dr. Hemant B. Kaushik, Dr. Romanbabu Oinam (IIT Guwahati)



Past Recruiters



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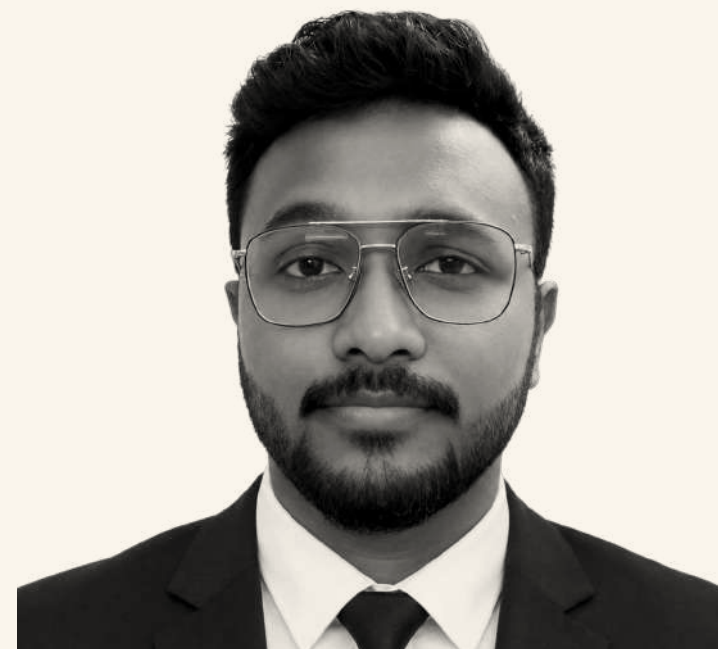
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