

Outreach

Student Activities

Civil Engineering Society (CES) at IIT Hyderabad aims to serve as a unique platform for all the Civil Engineering Students to prosper in their career through the concept of “ Learn-Network-Prosper”

Conferences/ Workshops

- Prof. Suriya Prakash organized International Conference on Condition Assessment, Rehabilitation & Retrofitting of Structures (CAARS) from 10-13 December 2023 at IIT Hyderabad .
- Dr. KBVN Phanindra organized the Fifth Indian National Groundwater Conference (INGWC-2023) from 05-06 December 2023 at IIT Hyderabad.
- Prof. JN Reddy, a Distinguished Professor at IIT Hyderabad and a Professor at Texas A&M University in the USA, delivered a lecture at our institute on December 17, 2024, focusing on "Remarks and Advice on Scientific Writing and Publication Ethics."
- Two-day Conference on Geotechnical Practices towards Sustainable Infrastructure organized by the IGS Hyderabad Chapter and the IIT Hyderabad, on the 4th and 5th of October 2024.

Collaborations

International Collaborations

- Purdue University, USA
- McGill University, Canada
- ETH Zurich, Switzerland
- King Saud University, Saudi Arabia
- Harvard University, USA
- PIK Potsdam, Germany

National Collaborations

- IISc Bangalore
- IIT Bombay
- IIT Delhi
- IIT Roorkee
- IIT Kharagpur
- IIT Madras



భారతీయ సౌంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్
भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

Information Brochure 2024-2025

Department of
Civil Engineering
Indian Institute of Technology Hyderabad

About us

About the Department

The Department of Civil Engineering, since its inception in 2008, has been at the forefront of teaching, research, and consulting, focusing on the broad areas of Geotechnical, Structural, Transportation Systems, Hydraulics and Water Resources, and Environmental Engineering. Our alumni have excelled in various capacities in industries and institutions in India and abroad. Our research encompasses both fundamental and applied studies to provide solutions that drive the future evolution of Civil Engineering. Industry interaction and academic exchanges are integral characteristics of our department. Our faculty and graduate students actively participate in several sponsored projects from various funding agencies, including the Ministry of New and Renewable Energy, National Highway Authority of India, Ministry of Environment & Forests, and Ministry of Human Resources & Development.

Our Vision

Our vision is to become a pioneering Department in the country for teaching, research, and consultancy in the existing and emerging areas of Civil Engineering



Achievements

Faculty Achievements

- Prof. B. Munwar Basha was received “ Best reviewer award -2022 at Indian Geotechnical Conference 2023, IIT Roorkee.
- Dr. Surendra Nath Somalia, Associate Professor of Civil Eng. is elected as a INSA Young Associate. This award aims to recognize the potential of young scientists in the country, and to motivate and cultivate their excellence, process for the election of INSA Young Associates/INSA Associate Fellows .
- Dr. Digvijay S. Pawar, Department of Civil Engineering received a Networking Grant Award from "The Academy of Medical Sciences" UK. The Award is funded by the Government Department of Science Innovation and Technology (DSIT) from the International Science Partnerships Fund (ISPF).
- Dr. Debraj Bhattacharyya is now an Associate Editor of Environment, Development and Sustainability, published by Springer (IF: 4.9: Quartile: Q2).

Student Achievements

- Dr.Nitin Kumar, an alumnus of Mtech was appointed as Assistant Professor at IIT Patna.
- Mr. Rohit Dhondge an alumnus of Btech has secured first rank in UPSC under Civil Engineering category
- Dr. Shaik Moin Ahmed, Ms. Peerzadi Arzeena Imtiyaz, Dr. Revathy Manohar, Ms. Vaishnavi Bherde received best presentation award at Indian Geotechnical Conference 2023 at IIT Roorkee
- Mr. Madhu Kumar K, a Ph.D. student working under Dr. Debraj Bhattacharyya, received Suzuki Foundation Fellowship for the second time for carrying out research work in Japan
- Ms. Spandana Paritala, PhD Scholar (CE22RESCH11005) under supervision of Prof. KVL Subramaniam has received the Best Presentation Award (First Prize) during the 4th International Conference on Concrete and Digital Fabrication (Digital Concrete 2024).

Major Research Facilities

Environmental Engineering

- High resolution mass spectrometry
- Gas Chromatography
- Isotope Ratio Mass Spectrometry
- Mercury Analyzer



Geotechnical Engineering

- Automatic Consolidation Equipment
- Direct Shear Test Equipment
- CBR Test Equipment
- Triaxial Test Equipment
- 4-D High speed train simulator facility



Hydraulic and Water Resources Engineering

- Borehole Video Camera
- Eddy Covariance Flux Tower
- Open Channel Flume
- Rainfall Simulator
- Inverted Research Microscope



Structural Engineering

- Microtest 500kN Fatigue Machine
- MTS Pseudo Dynamic Test System
- X-Ray Diffractometer
- Rheometer
- Thermogravimetric Analyzer



Transportation Engineering

- Driving Simulator
- Advanced Driver Assistance Systems
- Virtual reality 3D simulator
- Rotary Evaporator



Academics

Departmental Programs

- Bachelor of Technology (B.Tech.) (Four years)
- Two-year and Three-year Master of Technology (M.Tech.)
- Self-sponsored M.Tech. (Two years)
- Doctor of Philosophy (Ph.D.)

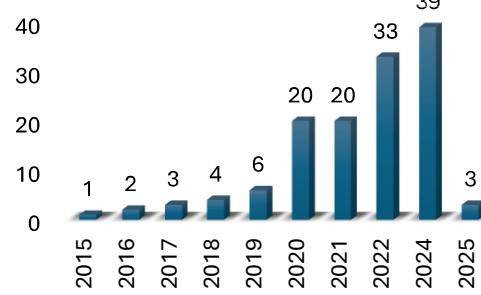
Specializations

1. Environmental Engineering
2. Geotechnical Engineering
3. Hydraulic and Water Resources Engineering
4. Structural Engineering
5. Transportation Engineering

Graduated Ph.D. students **125**

Current Ph.D. students **131**

No Of P.hd Students



Faculty

Environmental Engineering

Prof. Shashidhar
Prof. Debraj Bhattacharyya
Prof. Asif Qureshi
Dr. Ambika S
Dr. Pritha Chatterjee

Contaminant Transport Modeling, Bioremediation
Waste water Treatment, Solidwaste Management
Environmental Science, Environmental Health
Environmental Remediation, Nanomaterials
Waste water treatment, Energy Recovery

Geotechnical Engineering

Prof. Umashankar B
Prof. Sireesh S
Prof. Munwar Basha B
Dr. Shwethabh Yadav
Dr. Roshan Khan M.

Reinforced Earth Structures, Geosynthetics
Pavement Geotechnics, Geosynthetics
Unsaturated Soil Mechanics, Reliable Designs
Experimental Mechanics, Large strain deformation
Railway Geotechnics, Computational Geotechnics

Hydraulics and Water Resources Engineering

Prof. KBVN Phanindra
Dr. Satish Regonda
Dr. Seetha N
Dr. Maheswaran R
Dr. Zeeshan Ali
Dr. Shruthi Upadhyaya

Groundwater, Agricultural Water Management
Hydrology, Climate Change
Flow and Transport in Porous Media
Hydrological Modeling, Stochastic Hydrology
Analytical Hydrodynamics
Satellite Hydro-meteorology, AI/ML

Structural Engineering

Prof. Suriya Prakash S
Prof. Amritham Rajagopal
Prof. K.V.L Subramaniam
Prof. Mahendra K. Madhavan
Dr. Anil Agarwal
Dr. Surendra N Somala
Dr. Meenakshi
Dr. Biswarup B
Dr. Sourav Das

Behavior of Reinforced Concrete Members
Damage Mechanics, Fracture Mechanics
Rheology Control and 3D Printing
Development of Cold-formed steel housing system
Structural Fire Engineering, Composite Structures
Structural Health Monitoring, AI
Low carbon cement and Concrete
Uncertainty Quantification, Physics-informed ML
Wind Energy, Aerodynamics, Energy Harvesting

Transportation Engineering

Dr. Digvijay S. Pawar
Dr. Ramya S. Mullapudi

Traffic Operations, Road Safety
Analysis and Design of Pavements

Projects at a Glance



Publications at a Glance



Placements

Excellent placement opportunities exist for graduated students. Most students secure a placement (in government, public and private sector, both within the country and outside) prior to completing their studies.

Our students have been placed primarily in the construction and infrastructure industry, including design consultancy (both national and multi-national corporations). The employers include Larsen & Toubro, Dar Al Handasah, Thornton Thomasetti, Walter P. Moore, Leslie E Robertson Associates, Mahindra EPC, etc. Our bachelor students also go on to pursue a career in research and academics. Some enthusiastic students with entrepreneurship skills launch their own start-up companies after graduating from this department.