



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

CIVIL ENGINEERING

**DEPARTMENT BROCHURE
2026-27**

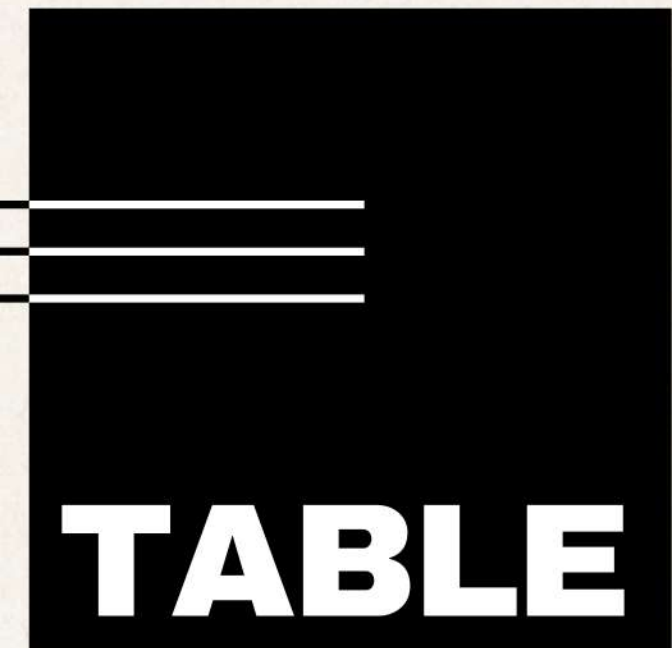
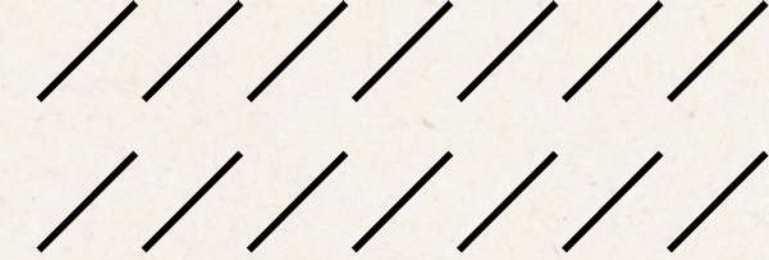


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MESSAGE FROM OUR HOD



Prof. K. B. V. N. Phanindra

Head of the Department (HOD)
Civil Engineering Department
Indian Institute of Technology Hyderabad

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.

The Department offers specializations in Environmental Engineering, Geotechnical Engineering, Hydraulics and Water Resource Engineering, Structural Engineering, and Transportation Engineering. CE faculty are dedicated to delivering knowledge and expertise across the broad spectrum of Civil Engineering and are actively engaged in **research that addresses societal needs.**

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

ABOUT THE DEPARTMENT

CIVIL ENGINEERING



01

FOUNDATIONAL EXCELLENCE

Holistic expertise across geotechnical, structural, transportation, hydraulics, and environmental engineering.



02

TECHNOLOGICAL INNOVATION

Students engage in pioneering research and industry-relevant projects using state-of-the-art technologies, contributing to next generation engineering solutions.



03

INDUSTRY COLLABORATION

Through partnerships with top-tier firms, students experience realworld engineering applications, enhancing their professional readiness.



04

WORLD-CLASS FACULTY

Our faculty members, educated at prestigious institutions worldwide, provide exceptional academic and research mentorship throughout the student journey.



05

DISTINGUISHED ALUMNI NETWORK

Our graduates excel in roles across academia, government, and global industry, creating a strong, supportive network for professional growth.



06

ADAPTIVE CURRICULUM

The curriculum fosters flexibility and interdisciplinary exploration, equipping students to thrive in an evolving industry landscape.



DOUBLE MAJORS, MINORS & HONORS

IITH offers a unique learning program allowing students to pursue additional qualifications subject to CGPA:

Double Major

24 additional credits in any engineering department of choice.

Minor

12 additional credits of minors in any of the available departments.

Honors

Students can do additional coursework and project work to obtain Honors in their parent department.

DEPARTMENT AT A GLANCE

CIVIL ENGINEERING

Fractal Academics

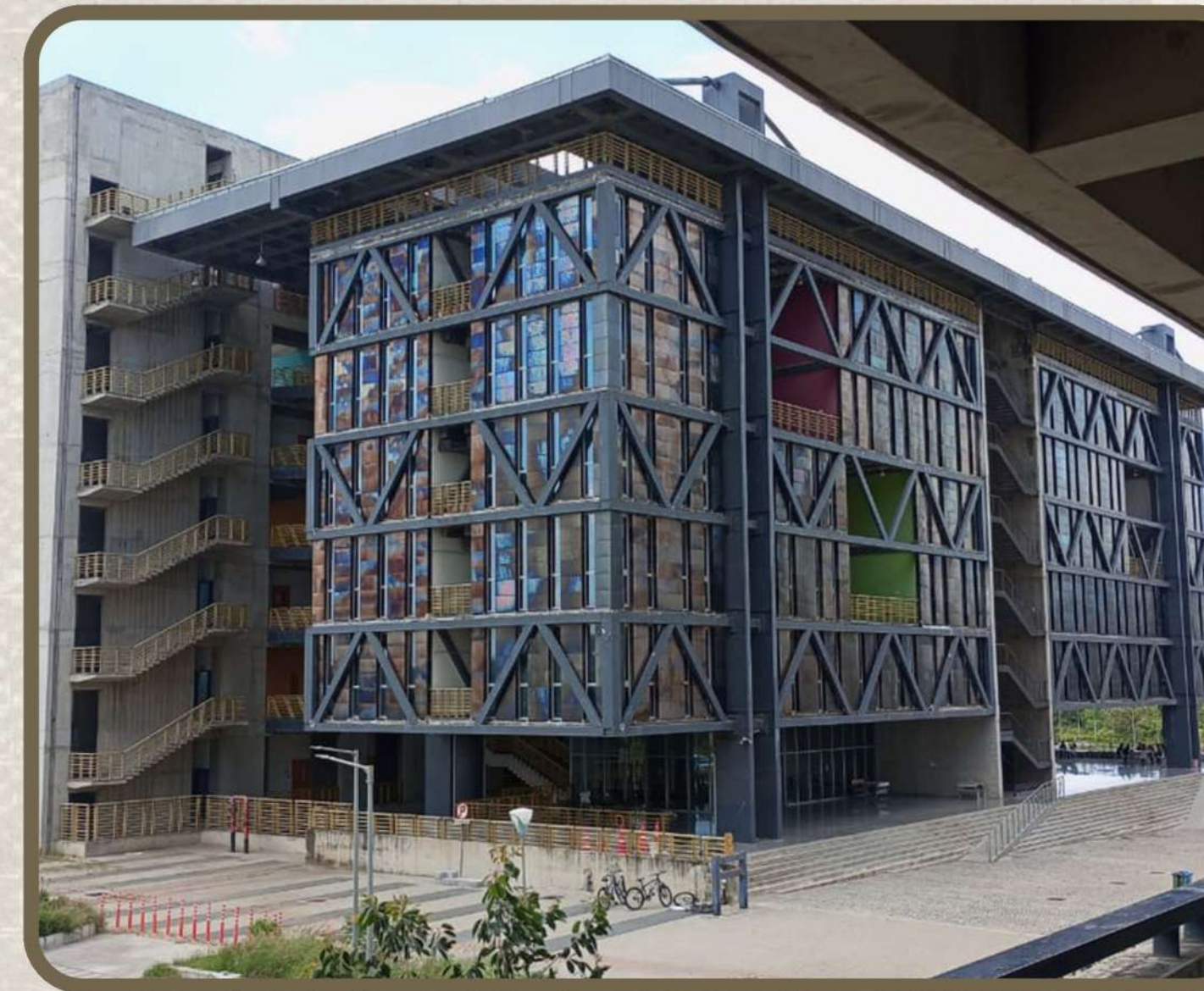
Our unique fractal academic structure divides learning into core and advanced components, promoting interdisciplinary knowledge and personalised learning paths.

Research-Driven Learning

Curriculum integration of advanced courses (Master's level) and mandatory research projects under faculty mentorship ensures early exposure to academic research and innovation.

Specializations & Double Majors/Minors

Our students are also eligible in double majors/minors areas like Computer Science, Electrical Engineering and Entrepreneurship, developing cross-disciplinary capabilities in management, finance, and core civil engineering.



CURRICULUM

Core Courses

- Engineering Drawing
- Digital fabrication
- Construction Materials
- Construction Management
- Structural Analysis
- Geotechnical Engineering
- Hydraulic Engineering
- Mechanics of Solids and Structures
- Environmental Systems Engineering

Language and Fine Arts

- Economic Anthropology
- Spoken Japanese Basics
- Science Technology and Society

Economics and Finances

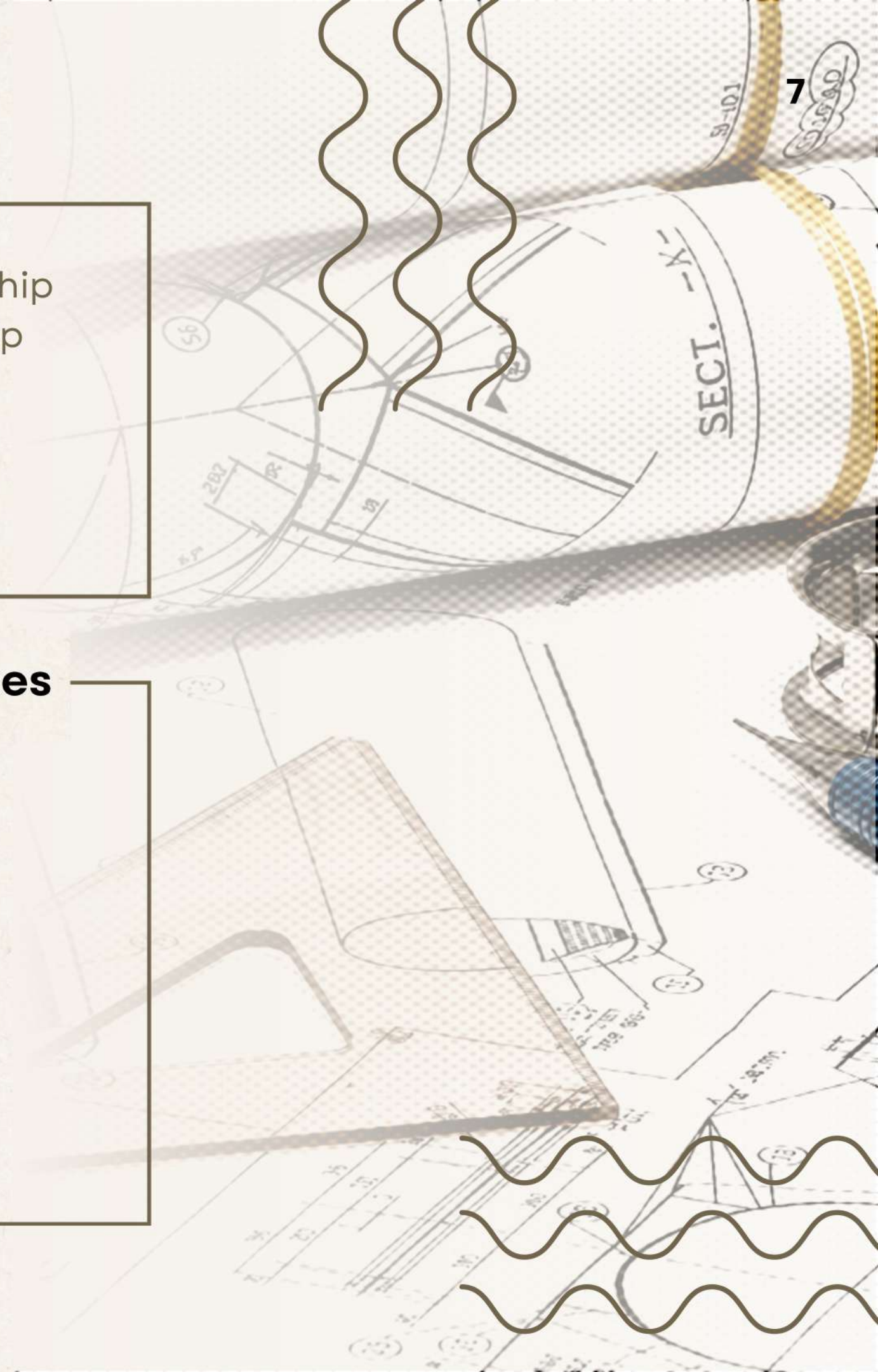
- Introductory Economics
- Financial Institutions and Markets
- Macroeconomics

Entrepreneurship & Management

- Introduction to Entrepreneurship
- Human Resources & Leadership
- Business Finance, Strategic Management
- Finance for Engineers
- International Business

Basic Engineering Courses

- Calculus
- Statistics
- Complex Variables
- Advanced Probability
- Transform Techniques
- Differential Equations
- Modern Physics
- Thermodynamics
- Basic Electrical Engineering



LAB FACILITIES

CIVIL ENGINEERING

Civil Engineering at IIT Hyderabad goes beyond the classroom, coming to life in labs like the Construction Materials Lab and the Surveying & GIS Lab. These hands-on experiences enhance technical skills, foster innovation, and connect theory with real-world applications.

Labs

- Additive & Subtractive Manufacturing Lab
- Physics Lab
- Solid Mechanics Lab
- Fluid Mechanics Lab
- FEM Lab
- CFD Lab
- Manufacturing Science Lab
- IC Engines Lab
- Dynamics Lab
- Heat Transfer Lab
- SCM Lab



RESEARCH AREAS

CIVIL ENGINEERING

The Department of Civil Engineering at IIT Hyderabad is actively engaged in cutting-edge research across diverse domains, contributing significantly to advancements in infrastructure and sustainability. Below are the major research fields currently being pursued within the department.

- **Structural Engineering:** Reliability analysis and uncertainty quantification, Engineering seismology and earthquake engineering, Behavior under impact/blast conditions.
- **Environmental Engineering:** Sludge, Waste, and Biomass Valorization, Environmental Nanotechnology, Microbial Fuel Cell.
- **Geotechnical Engineering:** Foundation risk assessment, geosynthetics.
- **Hydraulics & Water Resources:** Remote sensing, groundwater modeling.
- **Transportation Engineering:** Pavement sustainability, traffic safety.
- **EWES:** Focused on energy-water-environment nexus.
- **SRIS:** Sustainable and resilient infrastructure systems in urban spaces.

RESEARCH AREAS

CIVIL ENGINEERING

Civil Engineering students at IIT Hyderabad actively participate in research projects, internships, and interdisciplinary technical initiatives under faculty mentorship and external organizations.

Students have gained exposure through:

- Research internships at IIT Bombay and IIT Hyderabad
- Transportation Engineering & Traffic Modelling Research
- AI/ML and Data Annotation Projects
- Construction and Structural Engineering Applications
- Smart Infrastructure and Intelligent Systems

Research areas explored by students include:

- Traffic Flow Modelling
- Shockwave Theory
- Intelligent Transportation Systems
- Structural Engineering
- Machine Learning Applications
- Construction Technology
- Sustainable Infrastructure



World's highest on-site 3D printed military bunker at 11000 ft in Leh.
Built by **IIT Hyderabad**

STUDENT PROJECTS AND INDUSTRY EXPOSURE



Smart Infrastructure & Sustainability

- Floating Sensor-based River Water Level Monitoring Systems
- Intelligent Water Management Solutions
- Structural Analysis and Bridge Design Projects
- Traffic Flow Modelling & Transportation Research
- Sustainable Infrastructure and Construction Management Studies

Software & Full Stack Development

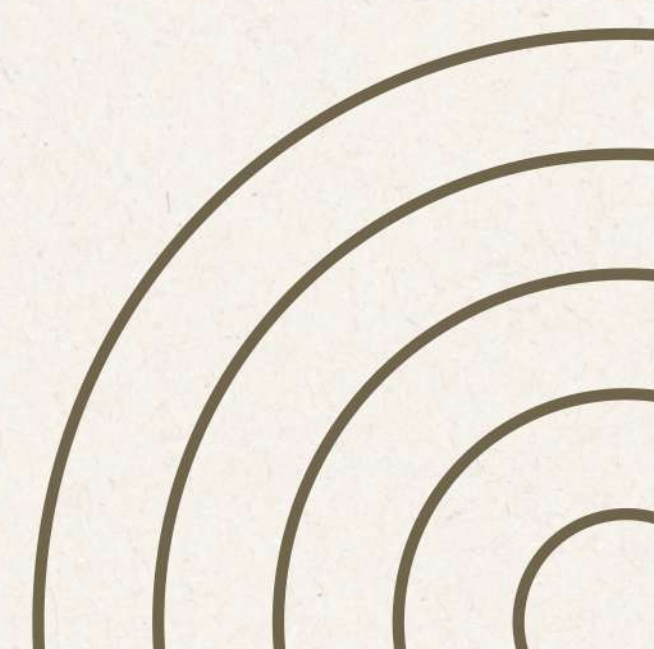
- Distributed Job Queue Systems using Node.js, PostgreSQL, Redis, and Docker
- Full Stack URL Shortener Platforms with authentication and analytics
- Hiring Platforms and Airbnb-inspired Web Applications
- Campus Room Booking Systems
- Spotify-style Music Streaming Applications

Artificial Intelligence & Machine Learning

- Phishing URL Detection System using TF-IDF and Logistic Regression
- AI-powered Credit Risk Assessment Models
- LLM-based Multi-Agent Chatbots
- Smart Farming Computer Systems
- AI-assisted Recommendation Platforms

Product & Innovation Initiatives

- Smart India Hackathon (SIH)
- Startup Competitions
- Hackathons focused on AI, Sustainability, and Infrastructure
- National-level Case Competitions
- Technical Innovation Challenges



TECHNICAL AND PROGRAMMING SKILLS

Despite being a non-circuitual branch, our students exhibit strong interest and performance in various technical domains beyond traditional civil engineering.

Many students are actively exploring **Distributed Systems, Backend Engineering, Cloud Computing, Docker & DevOps, Cybersecurity, Generative AI, and API Architecture** which enables students to contribute effectively across infrastructure, software, analytics, consulting, and technology-driven domains.

Students have completed certified courses in various technical fields like **Programming, Development** and **AI/ML**, from platforms such as **Coursera, Udemy, Coding Ninjas, and Teachnook**.

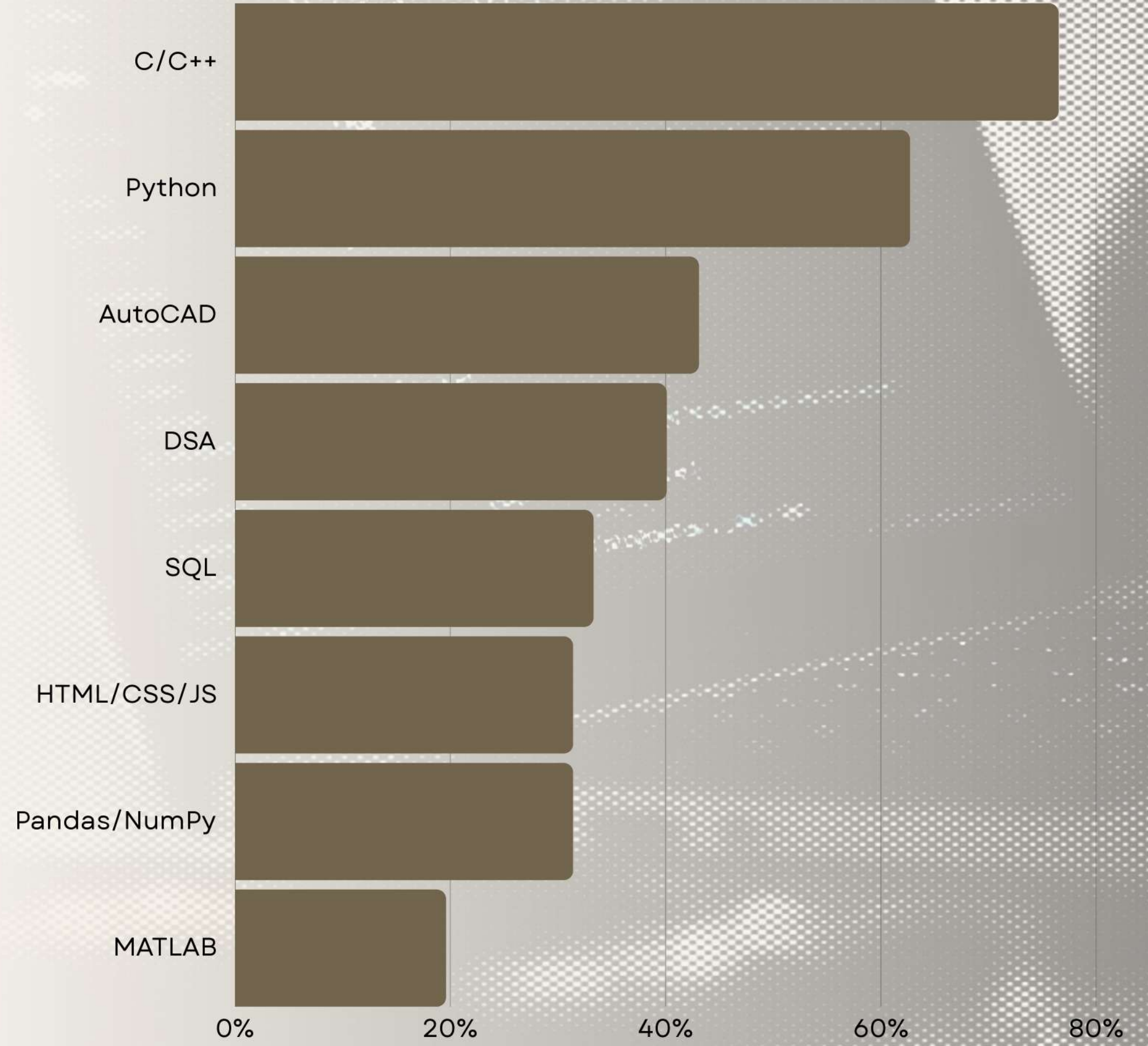
Our Students are active members of clubs like

- **GDSC** (development & ML)
- **Lambda** (software development)
- **Kludge** (cybersecurity)
- **Epoch** (AI & data science)
- **Glitch** (gaming & game dev)
- **The Robotics Club**
- **Tinkerers' Lab** (prototyping & innovation)

TECHNICAL AND PROGRAMMING SKILLS

Our students have mastered various programming languages and frameworks extensively, which allows them to work across domains and solve problems that require a diverse skill set.

C/C++	76.5%
Python	62.7%
AutoCAD	43.1%
DSA	40.1%
SQL	33.3%
HTML/CSS/JS	31.4%
Pandas/NumPy	31.4%
MATLAB	19.6%



BEYOND THE CLASSROOM

LEADERSHIP, OPERATIONS & MANAGEMENT EXPERIENCE

Civil Engineering students at **IIT Hyderabad** holds strong expertise with proven management and leadership capabilities.

They are leading crucial operations in Gymkhana and in the **Inter IIT Sports Meet 2025**, hosted at **IIT Hyderabad**, and **Inter IIT Cultural Meet 8.0**, hosted at **IIT Kanpur** managing logistics, transport, and event execution at scale.

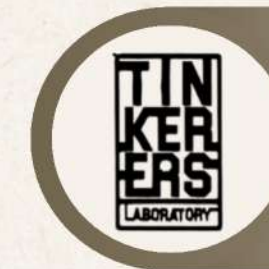
In addition to the commonly reported skills, students also demonstrate proficiency in **Product Management** and technologies and tools such as **Java, PyTorch, React, Node.js, Figma, Fusion 360, ANSYS, Bootstrap, Vite, Tailwind CSS, Cloud Computing**, and **LaTeX**, showcasing a diverse skill set spanning **software development, AI/ML, design**, simulation, and modern engineering applications.



LEADERSHIP, OPERATIONS & MANAGEMENT EXPERIENCE

Students gain **leadership** and **coordination** experience through active roles in:

- Inter IIT Sports Meet
- Inter IIT Cultural Meet
- Elan & ηVision (Telangana-Andhra's largest tech-cultural fest)
- Gymkhana
- E-Cell
- TEDx IIT Hyderabad
- Tinkerers' Lab
- Finance & Consulting Club
- Tech Clubs
- Cultural Clubs
- Sunshine and others



Head of Department (HoD) : Dr. K.B.V.N. Phanindra

Structural Engineering

- Dr. Amirtham Rajgopal
- Dr. K.V.L. Subramaniam
- Dr. Mahendra Kumar Madhavan
- Dr. S. Suriya Prakash
- Dr. Anil Agarwal
- Dr. Surendra Nadh Somala
- Dr. Biswarup Bhattacharyya
- Dr. Meenakshi
- Dr. Sourav Das

Transportation Engineering

- Dr. Digvijay S. Pawar
- Dr. Ramya Sri Mullapudi
- Dr. Suvin P. Venthuruthiyil

Geotechnical Engineering

- Dr. Munwar Basha
- Dr. B. Umashankar
- Dr. Sireesh S.
- Dr. Roshan Khan
- Dr. Shwetabh Yadav
- Dr. Prasanna R

Hydraulics and Water Resources Engineering

- Dr. K. B. V. N. Phanindra
- Dr. Satish Regonda
- Dr. Maheswaran Rathinasamy
- Dr. Seetha N
- Dr. Shruti Upadhyaya
- Dr. Sk Zeeshan Ali
- Dr. Shubojit Kadia

Environmental Systems Engineering

- Dr. Shashidhar
- Dr. Asif Qureshi
- Dr. Debraj Bhattacharyya
- Dr. Ambika S
- Dr. Pritha Chatterjee
- Dr. D. V. Sai Praneeth

PREVIOUS STATISTICS (2025-26)

14
Companies
with Offers



19
Total Offers
Received



11
Semester
Internships



8
Summer
Internships



PAST RECRUITERS



Student Internship Coordinators

OCS Student heads

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THANK YOU



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