ACHARYA INSTITUTE OF TECHNOLOGY

Affiliated to VTU

NBA NATIONAL BOARD OF ACCREDITATION | NAAC A ACCREDITED

Established in 2000, **Acharya Institute of Technology (AIT)** stands as a NAAC & NBA-accredited centre of excellence, recognised by NIRF for its academic standards and innovation. Located on a vibrant 120-acre campus in Bengaluru, AIT blends industry-aligned education, advanced infrastructure, and strong corporate partnerships to shape future-ready engineers and technology leaders.



- **Industry-aligned programs** delivered by expert faculty, enriched with in-demand certifications like Ai, EV, Cyber Security, and emerging technologies.
- **Smart learning ecosystem** with LinkedIn Learning access, high-performance laptops, advanced labs, and a digital library.
- **Strong industry collaborations** enabling internships, live projects, and real-world exposure with leading corporations.
- **Global outlook** through international partnerships and a culturally diverse student community.
- **Proven placement excellence** supported by 550+ recruiting companies visiting the campus annually.

B.E. CIVIL ENGINEERING

Specialization in Advanced Practice in Construction Powered by

LARSEN & TOUBRO

About

Civil engineering deals with the design and construction of massive infrastructure such as roads, bridges, canals, dams, airports, sewage systems, pipelines, structural components of buildings, and more. Students benefit from state-of-the-art labs and cutting-edge technology, ensuring hands-on experience and practical application of theoretical knowledge. Our strategic collaboration with L&T further enhances the learning journey by providing students with exposure to real-world industry insights and the latest developments, allowing them to stay abreast of relevant happenings in the dynamic field.

- **Comprehensive civil curriculum** covering structural analysis, geotechnical, transportation, environmental engineering, and construction management.
- **Hands-on practical exposure** through well-equipped labs, site visits, and project planning modules that reinforce theory with real-world application.
- **Advanced CAD and design facilities,** with modern hardware and software to keep students aligned with industry technology trends.
- **Strong industry interaction and experiential learning** including internships, guest lectures, and collaboration with construction leaders like L&T.
- **Faculty engaged in active research** and publications, fostering a research-oriented culture that encourages innovation and academic rigor.



Career Scope

- **Infrastructure & construction roles –** Graduates can work in designing, planning, and executing roads, bridges, buildings, dams, and urban infrastructure with public and private sector firms.
- **Diverse professional opportunities –** Potential roles include structural engineer, project manager, transportation engineer, geotechnical specialist, environmental engineer, and construction planner.
- **Global demand & societal impact –** Civil engineers are critical to modern development, offering careers in consultancies, government agencies, international projects, and sustainable infrastructure development.

Eligibility

10+2 with PCM/PMC/PME + English, min 45%.
Age 17+.

Duration
4 years

COURSE CONTENT

Semester 1

- Mathematics-I for Civil Engg stream
- Applied Physics for Civil Engineering Stream
- Engineering Mechanics
- Engineering Science Course-I
- Emerging Technology Course-I
- Programming Language Course-I
- Communicative English
- Professional Writing Skills in English
- Samskrutika Kannada/ Balake Kannada
- Indian Constitution
- Innovation and Design Thinking
- Scientific Foundations of Health

Semester 2

- Mathematics-II for Civil Engg Stream
- Applied Chemistry for Civil Engineering stream
- Computer-Aided Engineering Drawing
- Engineering Science Course-II
- Programming Language Course-II
- Emerging Technology Course-II
- Professional Writing Skills in English
- Communicative English
- Indian Constitution
- Samskrutika Kannada/ Balake Kannada
- Scientific Foundations of Health
- Innovation and Design Thinking

Semester 3

Strength of Materials

- Engineering Survey
- Engineering Geology
- Water Supply and Waste water Engineering
- Computer Aided Building Planning and Drawing
- ESC/ETC/PLC
  - Rural, Urban Planning and Architecture
  - Geospatial Techniques in Practice
  - Sustainable Design Concept for Building Services
  - Fire Safety in Buildings
- Social Connect and Responsibility
- Ability Enhancement Course/Skill Enhancement Course - III
  - Data analytics with Excel - IBM
  - Smart Urban Infrastructure
  - Problem Solving with PYTHON
  - Personality Development for Civil Engineers
- National Service Scheme (NSS)
- Physical Education (PE) (Sports and Athletics)
- Yoga

Semester 4

- Analysis of Structures
- Fluid Mechanics and Hydraulics
- Transportation Engineering
- Building Materials Testing Lab
- ESC/ETC/PLC
  - Finance for Professionals
  - GIS with Quantum GIS
  - Electronic Waste Management - Issues and Challenges
  - Technical Writing Skills
- Ability Enhancement Course/Skill Enhancement Course- IV
  - Building Information Modelling in Civil Engineering
  - Construction Equipment, Plants and Machinery
  - Concreting Techniques & Practices
  - Watershed Management
- Biology For Engineers
- Universal human values course
- National Service Scheme (NSS)
- Physical Education (PE) (Sports and Athletics)
- Yoga



Semester 5

- Construction Management and Entrepreneurship
- Geotechnical Engineering
- Concrete Technology
- Environmental Engineering Lab
- Professional Elective Course

Numerical Methods in Civil Engineering
Occupational Safety and Health Monitoring
Solid Waste Management
Remote Sensing and GIS

- Mini Project/Extensive Survey Project
- Research Methodology and IPR
- Environmental Studies
- National Service Scheme (NSS)
- Physical Education (PE) (Sports and Athletics)
- Yoga

Semester 7

- Design of Steel Structures
- Estimation and Contract Management
- Prestressed Concrete
- Professional Elective Course
  - Intelligent Transport Systems
  - Precast Members - Systems & Construction
  - Ground Improvement and Reinforced Earth
  - Design and Execution of Pile Foundations
- Open Elective Course
  - Road Safety Engineering
  - Conservation Of Natural Resources
  - Energy Efficiency, Acoustics And Daylighting In Building
  - Integrated Building Services
- Major Project Phase-II

FEE STRUCTURE

Refer offer letter for the actuals.

Inclusions : Tuition Fee, University Registration, Eligibility Fee, Miscellaneous Fee, Laboratory Fee, Library Fee and Sports Fee.

Exclusions : Uniform & Stationery.
Examination Fee as prescribed by the University / Board.

The Program Includes OBT, AMCAT/CoCubes, Soft Skills Training, Domain-Specific Training, Long Term Domain Training and LinkedIn Learning. Students are also provided with a Complimentary Laptop and Global Immersion Program.

Semester 6

- Design of RCC Structures
- Irrigation Engineering and Hydraulic Structures
- Professional Elective Course
  - Design of Bridges
  - Design of formwork and scaffolding
  - Applied Geotechnical Engineering
  - Design and Construction of Highway Pavements
- Open Elective Course
  - Water conservation and Rainwater Harvesting
  - Geographic Information Systems
  - Integrated Waste Management for a Smart City
  - Sustainable Development Goals
- Major Project Phase I
- Software Application Lab
- Ability Enhancement Course/Skill Development Course V
  - Structural Health Monitoring Using Sensors
  - Quality Control and Quality Assurance
  - Data Analytics for Civil Engineers
  - AI and Analytics for Structural Health Monitoring
- National Service Scheme (NSS)
- Physical Education (PE) (Sports and Athletics)
- Yoga

Semester 8

- Professional Elective (Online Courses)
  - Deep Excavation and Tunnels – L&T
  - Pre-engineered Buildings
  - Advanced RCC Structures
  - Project management and finance
  - Metro and Seaports Engineering
  - Advanced Concrete Technology
- Open Elective (Online Courses)
  - Energy Conservation in Buildings
  - Occupational Health and Safety
  - Green Buildings
  - Integrated Building Services
- Internship (Industry/Research) (14 - 20 Weeks)

ENRICHMENT PROGRAM CONTENT

- **2nd Sem** : Building Information Modelling in Construction
- **3rd Sem** : Construction Equipment and Techniques
- **4th Sem** : Formwork Engineering Practices
- **5th Sem** : Deep Excavations, Foundations and Tunnels
- **6th Sem** : Geospatial Techniques in Practice
- **7th Sem** : Heavy Lifting Techniques & Machinery

Acharya Legacy

Founded in 1990, Acharya aims to revolutionize education. With over 12,000 students and 100+ academic programs annually, it stands among the global education elite. Located in India's technical hub, Bangalore, Acharya prioritizes innovation and knowledge. The institution fosters experiential and collaborative learning, shaping well-rounded individuals, evident in its diverse student population from 75+ countries.

11 Institutions

15 Research Centers

100+ Programmes

75+ Nationalities

12000+ Students

1000+ Eminent Faculty

120 Acres State-of-the-Art Campus



B Premnath Reddy
Founder Chairman
Acharya Group

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Center of Excellence



Clubs



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Research



Sports



Hostels



Habba



PROGRAMS OFFERED

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