



ACHARYA INSTITUTE OF TECHNOLOGY

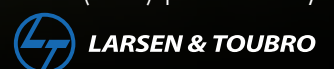
Affiliated to VTU



- Accredited, industry-aligned programs with expert faculty.
- Access to LinkedIn and high-performance laptops for seamless learning.
- In-demand certifications in EV, Cyber Security, and more for career advantage.
- Global exposure through partnerships and a diverse student body.
- Cutting-edge labs and a digital library for comprehensive resources.
- Collaborations with top corporations offering internships and projects.
- Vibrant clubs and activities focused on holistic development.
- Robust placement support with 550+ recruiting companies annually.

**B.E CIVIL
ENGINEERING**

Specialization in Product Life Cycle Management (PLM) powered by



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.

Career Scope

Contribute to Development: Civil engineers are crucial for society and community building. The development of essential infrastructure, including bridges, airports and water supply systems, all involve the minds of civil engineers.

Demand: There's a global demand for skilled civil engineers as infrastructure projects are ongoing at a rapid pace. Graduates can find employment in diverse fields, such as construction companies, consultancies, government agencies, and international development organizations.

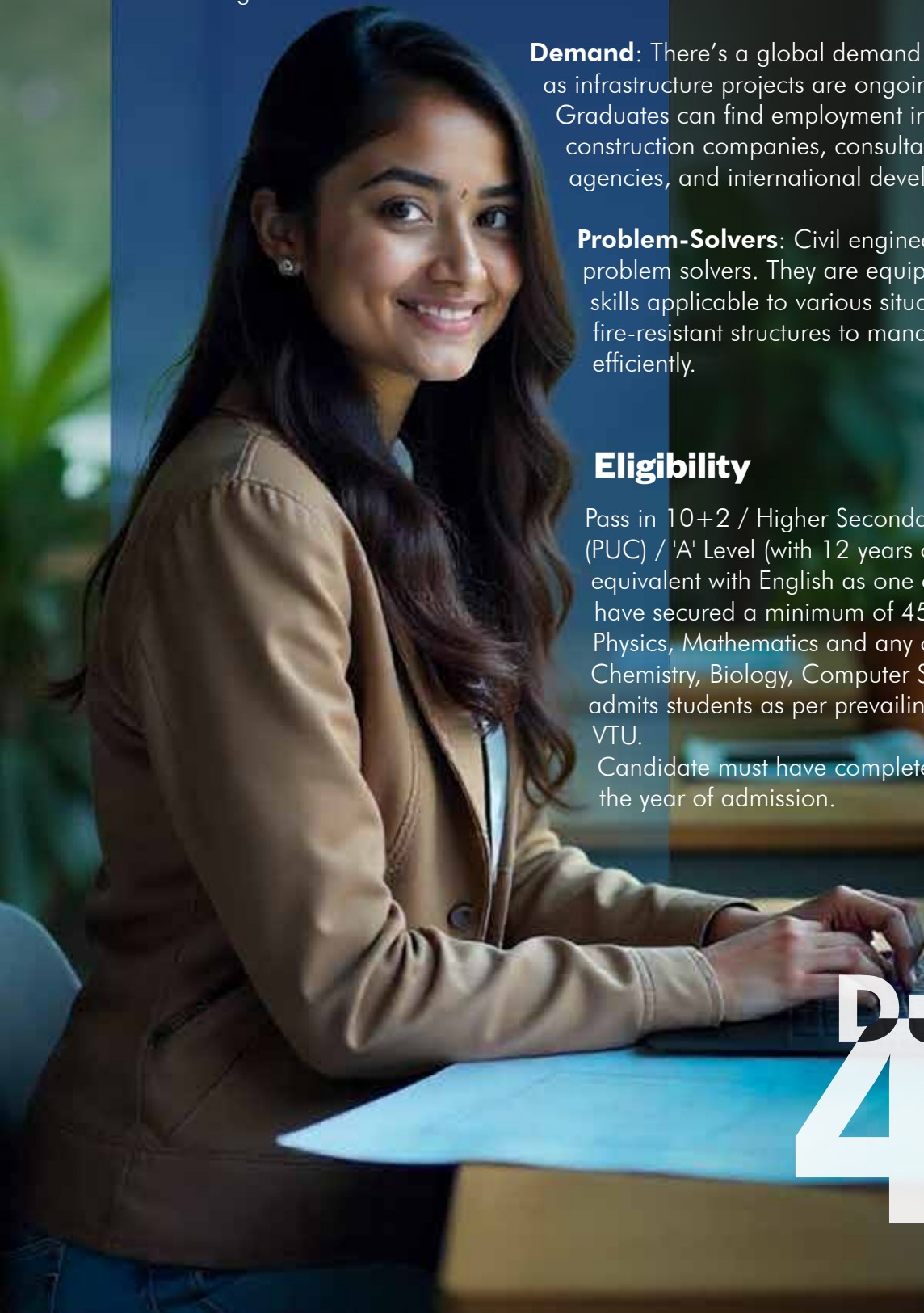
Problem-Solvers: Civil engineers are generally expert problem solvers. They are equipped with problem-solving skills applicable to various situations, from designing fire-resistant structures to managing water resources efficiently.

Eligibility

Pass in 10+2 / Higher Secondary (HS) / Pre University (PUC) / 'A' Level (with 12 years of schooling) or its equivalent with English as one of the languages. Shall have secured a minimum of 45% marks in aggregate in Physics, Mathematics and any one of the following: Chemistry, Biology, Computer Science, Electronics. AIT admits students as per prevailing rules and regulations of VTU.

Candidate must have completed 17 years by June - for the year of admission.

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 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 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 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

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)



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 Faculties

120 Acres State-of-the-Art Campus

B Premnath Reddy
Founder Chairman
Acharya Group

Acharya Offerings - click on each to know more... >>

Academic Studio



Collaboration



Center of Excellence



Clubs



Digital Library



Laboratories



Research



Sports



Hostels



Habba



PROGRAMS OFFERED

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