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 COMPUTER SCIENCE & ENGINEERING

About

Computer Science Engineering involves the study of computer systems, algorithms, programming languages, software development, and the design and analysis of computer hardware. Our extensive course equips students with problem-solving skills, adaptability, and a mastery of coding, making them ready to play a crucial role in shaping today's technology-driven world. Additionally, our partnership with the EC Council enriches their understanding of cybersecurity challenges, providing an opportunity for certification by the company.

- **Robust foundational curriculum** covering core computer science areas such as algorithms, data structures, programming languages, computer architecture, and software engineering.
- **Emphasis on hands-on learning** with practical coding assignments, projects, and exposure to modern development tools and environments.
- **Exposure to emerging technologies** including IoT, cloud computing, cybersecurity, and modern software frameworks to keep students technically current.
- **Collaborative and team-oriented learning culture** that strengthens problem-solving, analytical thinking, and real-world project execution skills.
- **Strong industry interface and research focus** with partnerships and interaction opportunities that enhance employability and innovation potential.

Career Scope

- **Software & application development roles** across IT, product companies, startups, and digital solution firms as developers, programmers, and system designers.
- **Specialised technology careers** in areas like data science, artificial intelligence, cybersecurity, cloud computing, and DevOps — fields with rapid job growth and demand.
- **Opportunities in research, higher studies & entrepreneurship** leading to roles in R&D, innovation labs, advanced technology exploration, and tech startups globally.

Eligibility

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

Duration

4 years

COURSE CONTENT

Semester 1

- Mathematics - I for CSE Stream
- Applied Physics for CSE stream
- Principles of Programming Using C
- Engineering Science Course - I
- Emerging Technology Course - I
- Programming Languages 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 forCSE Stream
- Applied Chemistry for CSE 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

- Mathematics for Computer Science
- Digital Design & Computer Organization
- Operating Systems
- Data Structures and Applications
- Data Structures Lab
- ESC/ETC/PLC
  - Object Oriented Programming with Java
  - Object Oriented Programming with C++
- Social Connect and Responsibility
- Ability Enhancement Course/Skill Enhancement Course - III
  - Data analytics with Excel
  - R Programming
  - Project Management with Git
  - Data Visualization with Python
- National Service Scheme (NSS)
- Physical Education (PE) (Sports and Athletics)
- Yoga

Semester 4

- Analysis & Design of Algorithms
- Microcontrollers
- Database Management Systems
- Analysis & Design of Algorithms Lab
- ESC/ETC/PLC
  - Discrete Mathematical Structures
  - Graph Theory
  - Optimization Technique
  - Linear Algebra
- Ability Enhancement Course / Skill Enhancement Course- IV
  - Green IT and Sustainability
  - Capacity Planning for IT
  - UI/UX (Lab)
  - Technical writing using LATEX (Lab)
- Biology For Engineers
- Universal human values course
- National Service Scheme (NSS)
- Physical Education (PE) (Sports and Athletics)
- Yoga



Semester 5

Software Engineering & Project Management
- Computer Networks
- Theory of Computation
- Web Technology Lab
- Professional Elective Course
  - Computer Graphics
  - Unix System Programming
  - Artificial Intelligence
  - Distributed Systems
- Mini Project
- Research Methodology and IPR
- Environmental Studies
- National Service Scheme (NSS)
- Physical Education (PE) (Sports and Athletics)
- Yoga

Semester 7

- Internet of Things
- Parallel Computing
- Cryptography & Network Security
- Professional Elective Course
- Deep Learning
- Natural Language Processing
- Enterprise Data Warehousing
- Big Data Analytics
- Open Elective Course
  - Introduction to DBMS
  - Introduction to Algorithms
  - Software Engineering
- Major Project Phase-II

Semester 6

- Cloud Computing (Open Stack /Google)
- Machine Learning
- Professional Elective Course
  - Blockchain Technology
  - Computer Vision
  - Compiler Design
  - Advanced Java
- Open Elective Course
  - Introduction to Data Structures
  - Fundamentals of Operating Systems
  - Mobile Application Development
  - Introduction to AI
- Project Phase I
- Machine Learning lab
- Ability Enhancement Course/Skill Development Course - V
  - Progressive App Development
  - Agile
  - Tosca – Automated Software Testing
  - Devops
- National Service Scheme (NSS)
- Physical Education (PE) (Sports and Athletics)
- Yoga

Semester 8

Professional Elective (Online Courses) Only through NPTEL
- Open Elective (Online Courses) Only through NPTEL
- Internship (Industry/Research) (14 - 20 weeks)

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.



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



Digital Library



Laboratories



Research



Sports



Hostels



Habba



PROGRAMS OFFERED

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