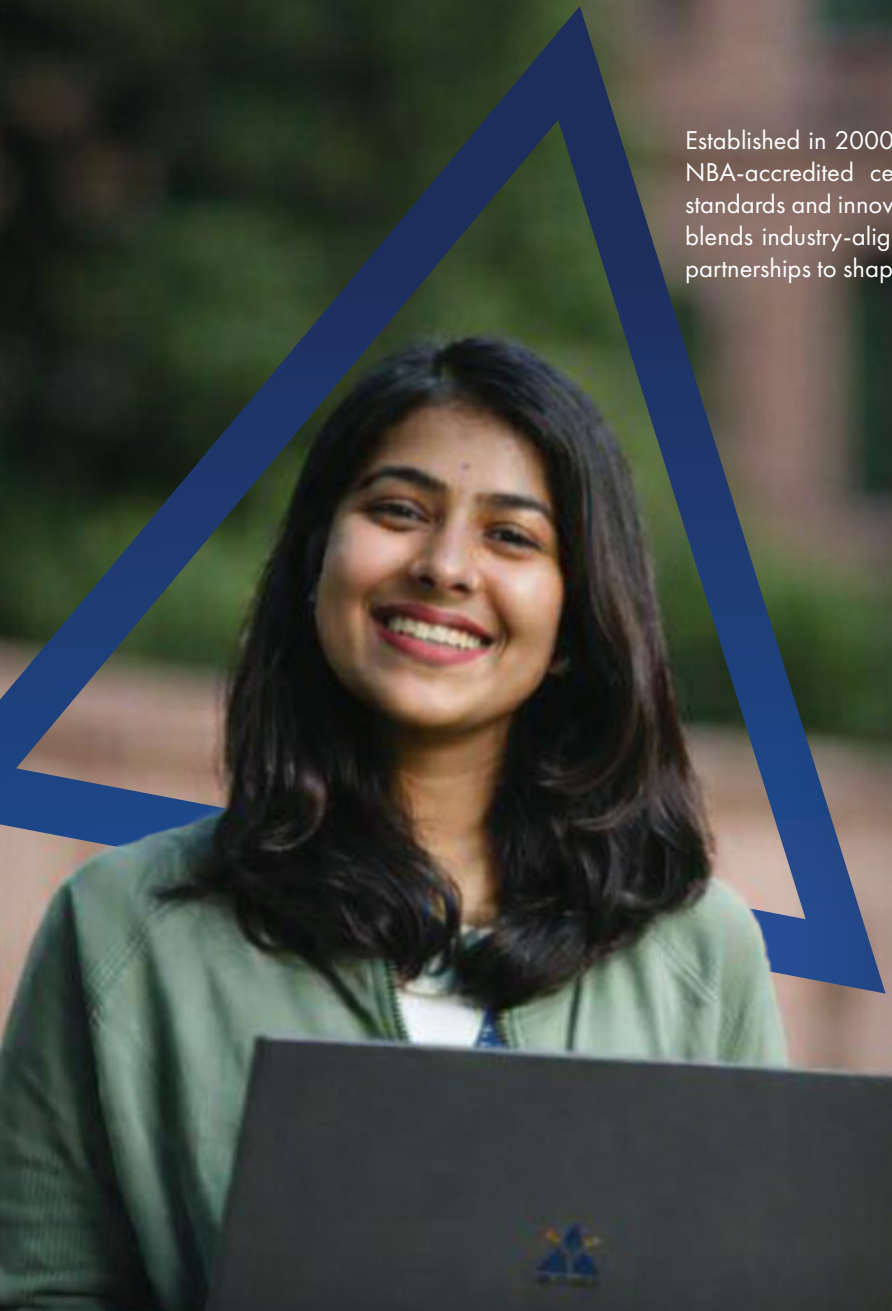
ACHARYA INSTITUTE OF TECHNOLOGY

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 (CYBER SECURITY)

Cyber Security Certification in Association with **IT Industry Partners**

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.

- **Strong computer science foundation –** Students study core concepts like algorithms, data structures, programming, computer architecture, and software engineering to build essential tech skills.
- **Cyber security focus with industry relevance –** The programme includes specialised insights into digital security challenges, ethical hacking, network protection, and emerging cyber threats.
- **Hands-on learning and projects –** Emphasis on practical coding assignments, collaborative work, and real-world problem solving that enhance analytical and defensive security skills.
- **EC-Council collaboration – Partnership with EC-Council provides enriched exposure to cybersecurity training and globally recognised certification opportunities.**
- **Industry-ready adaptability –** Students learn to apply security knowledge across operating systems, networks, and software environments, preparing them for dynamic roles in tech.

Career Scope

- **Cyber defence and security roles –** Graduates can work as Cyber Security Analysts, Ethical Hackers, Network Security Engineers, and SOC specialists protecting digital assets across sectors.
- **Software & IT security careers –** Scope in roles involving secure software development, systems administration, cloud security, and risk assessment in tech companies and enterprises.
- **Global and consulting opportunities –** With cyber threats rising worldwide, there's demand for security professionals in multinational firms, consultancies, and government initiatives.

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

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

- 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)

Enrichment Programs

- **3rd Sem** : Networking & Wireshark
- **4th Sem** : Palo Alto Firewall
- **5th Sem** : Ethical Hacking
- **6th Sem** : QRadar SIEM

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

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

Academic Studio



Collaboration



Center of Excellence



Clubs



Digital Library



Laboratories



Research



Sports



Hostels



Habba



PROGRAMS OFFERED

Follow on Social Media



Acharya Dr. S. Radhakrishnan Road,
Acharya P.O, Soladevanahalli,
Bangalore-560107,
Karnataka, India

www.acharya.ac.in

Domestic Admissions

admissions@acharya.ac.in

+91 74066 44449

+91 97317 97677

International Admissions

international@acharya.ac.in

+91 97317 79233