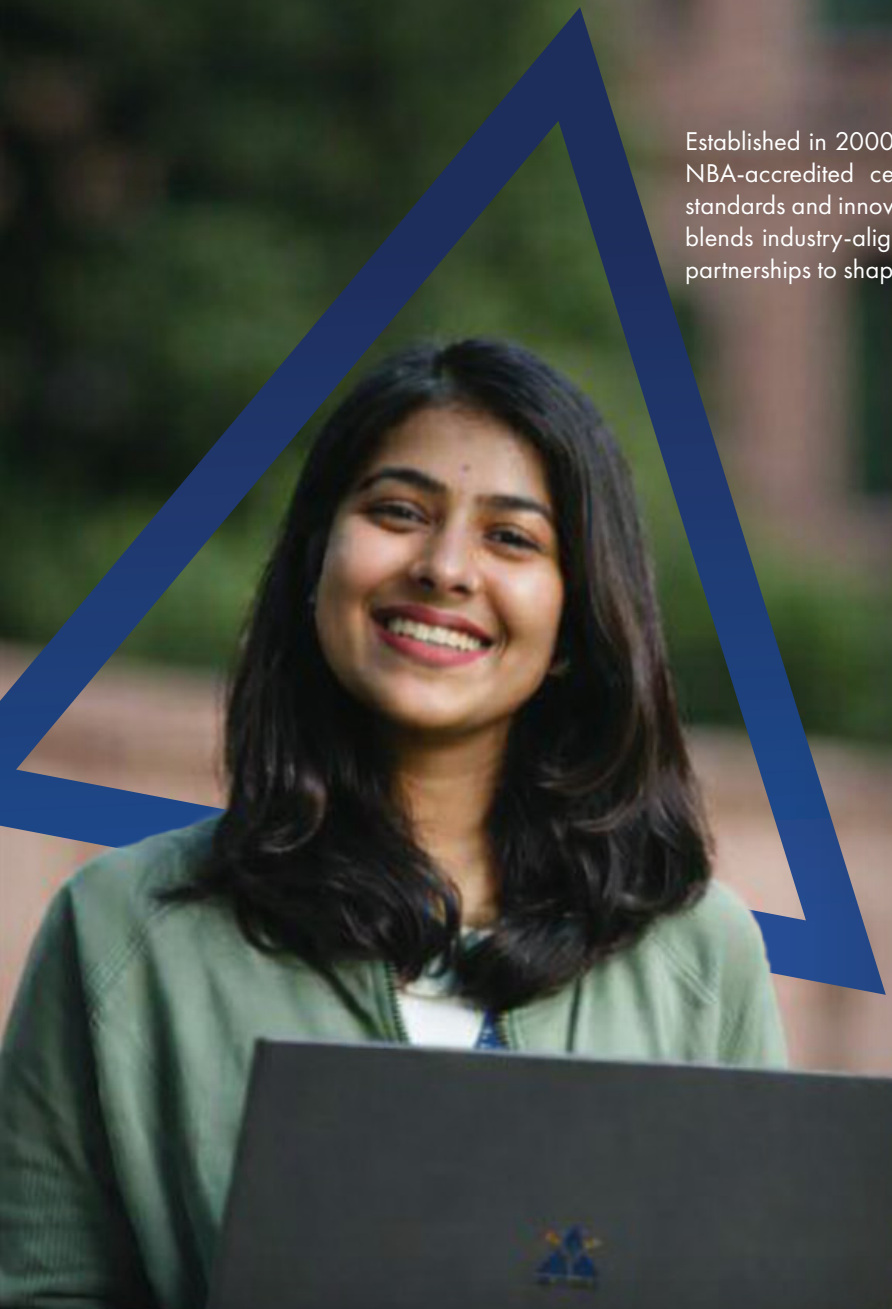
ACHARYA INSTITUTE OF TECHNOLOGY

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 INFORMATION SCIENCE & ENGINEERING (ARTIFICIAL INTELLIGENCE)

Specialization in Artificial Intelligence powered by

IBM

About

Information Science and Engineering deals with the generation, distribution, analysis, and use of information, data, and knowledge in systems. Our extensive course equips students with problem-solving skills and adaptability and makes them ready to play a crucial role in shaping today's technology-driven world. Students also get an opportunity to specialize in Artificial Intelligence through our partnership with IBM.

- **Core computing foundation –** Strong grounding in computer science fundamentals, including data structures, algorithms and programming to build essential technical skills.
- **Specialisation in Artificial Intelligence –** Through a partnership with IBM, students gain exposure to AI principles such as machine learning, neural networks and NLP.
- **Database & cloud technologies –** Coursework covering database management systems and cloud computing for scalable, modern application development.
- **Web & application technologies –** Development of front-end and back-end web solutions, preparing students for full-stack software challenges.
- **Problem-solving & adaptability focus –** The program equips students with analytical and information-processing
- skills vital for tackling real-world tech problems.



Career Scope

- **AI & intelligent systems roles –** Graduates can pursue careers as AI specialists, machine learning engineers, data analysts and software developers in tech and analytics domains.
- **Versatile IT opportunities –** Scope across software development, cloud solutions, web technologies, systems administration and IT consulting.
- **Higher studies & research pathways –** Strong foundation for advanced programs in AI, data science, cybersecurity or research careers in emerging technology fields.

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 for CSE 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 Kannad
- Scientific Foundations of Health

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 Phyton
- National Service Scheme (NSS)
- Physical Education (PE) (Sports and Athletics)
- Yoga

Semester 4

- Analysis & Design of Algorithms
- Advanced Java
- Database Management Systems
- Analysis & Design of Algorithms Lab
- ESC/ETC/PLC
- Ability Enhancement Course/Skill Enhancement Course- IV
  - Green IT and Sustainability
  - Capacity Planning
  - UI/UX
  - Technical writing using LATEX
- Biology For Engineers (Information Technology in Biology)
- 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 Computations
- Data Visualization Lab
- Professional Elective Course
  - Computer Vision
  - Artificial Intelligence
  - Distributed Systems
  - Unix System Programming
- Mini Project
- Research Methodology and IPR
- Environmental Studies
- National Service Scheme (NSS)
- Physical Education (PE) (Sports and Athletics)
- Yoga

Semester 7

Big Data Analytics

- Parallel Computing
- Information & Network Security
- Professional Elective Course
  - Deep Learning
  - Software Quality Assurance
  - Embedded Systems
  - Distributed File Systems
- Open Elective Course
  - Introduction to DBMS
  - Introduction to Algorithms
  - Software Engineering
- Major Project Phase-II

Semester 6

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

Semester 8

- Professional Elective (Online Courses) Only through NPTEL)
  - BOS will publish courses based on the availability
- Open Elective (Online Courses) Only through NPTEL
  - BOS will publish courses based on the availability
- 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.

Enrichment Programs

- **2nd Sem** : Python Programming
- **3rd Sem** : RDBMS
- **4th Sem** : Data Visualization
- **5th Sem** : Business Intelligence using IBM Cognos
- **6th Sem** : IBM CE - Predictive Modelling using SPSS
- **7th Sem** : IBM CE – Design Thinking & Agile Methodologies

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

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