



# 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 INFORMATION SCIENCE & ENGINEERING (ARTIFICIAL INTELLIGENCE)**

Specialization in Artificial  
Intelligence powered by



## 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.

## Career Scope

**Software Development Opportunities:** Information Science engineers are in high demand for software development roles.

**Cybersecurity Expertise:** With the increasing threat of cyber attacks, information science engineers specializing in cybersecurity are crucial.

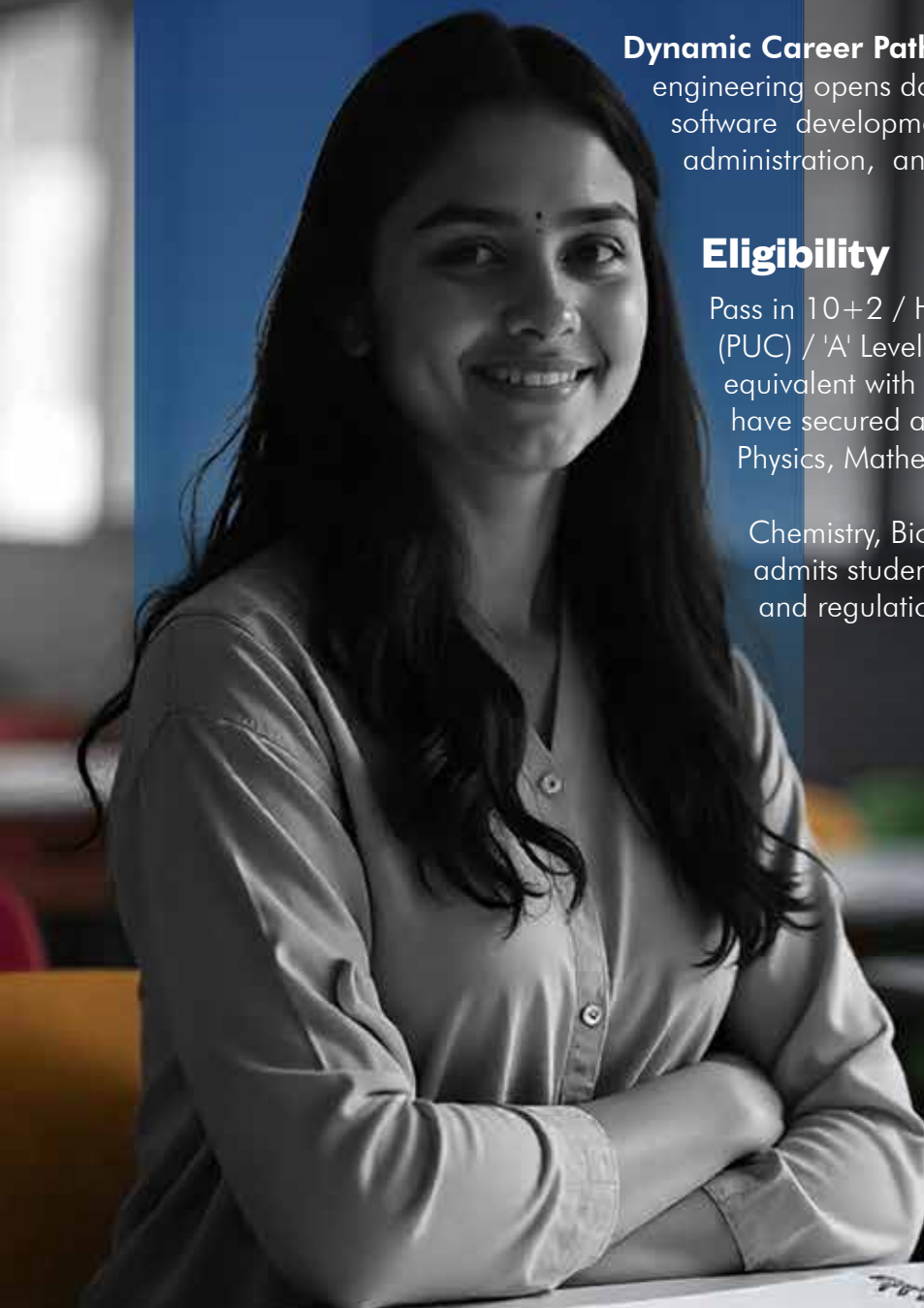
**Dynamic Career Paths:** The versatility of information science engineering opens doors to diverse career paths, from software development to data analysis, systems administration, and technology consulting.

## 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.

**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 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 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 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 Development
  - Introduction 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)



## 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

Follow on Social Media

