



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
(CLOUD & FULL STACK)**

Specialization in Cloud
& Full Stack Powered by

ORACLE

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. Additionally, our partnership with Oracle gives students an opportunity to earn a specialization in Cloud and Full Stack Development.

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.

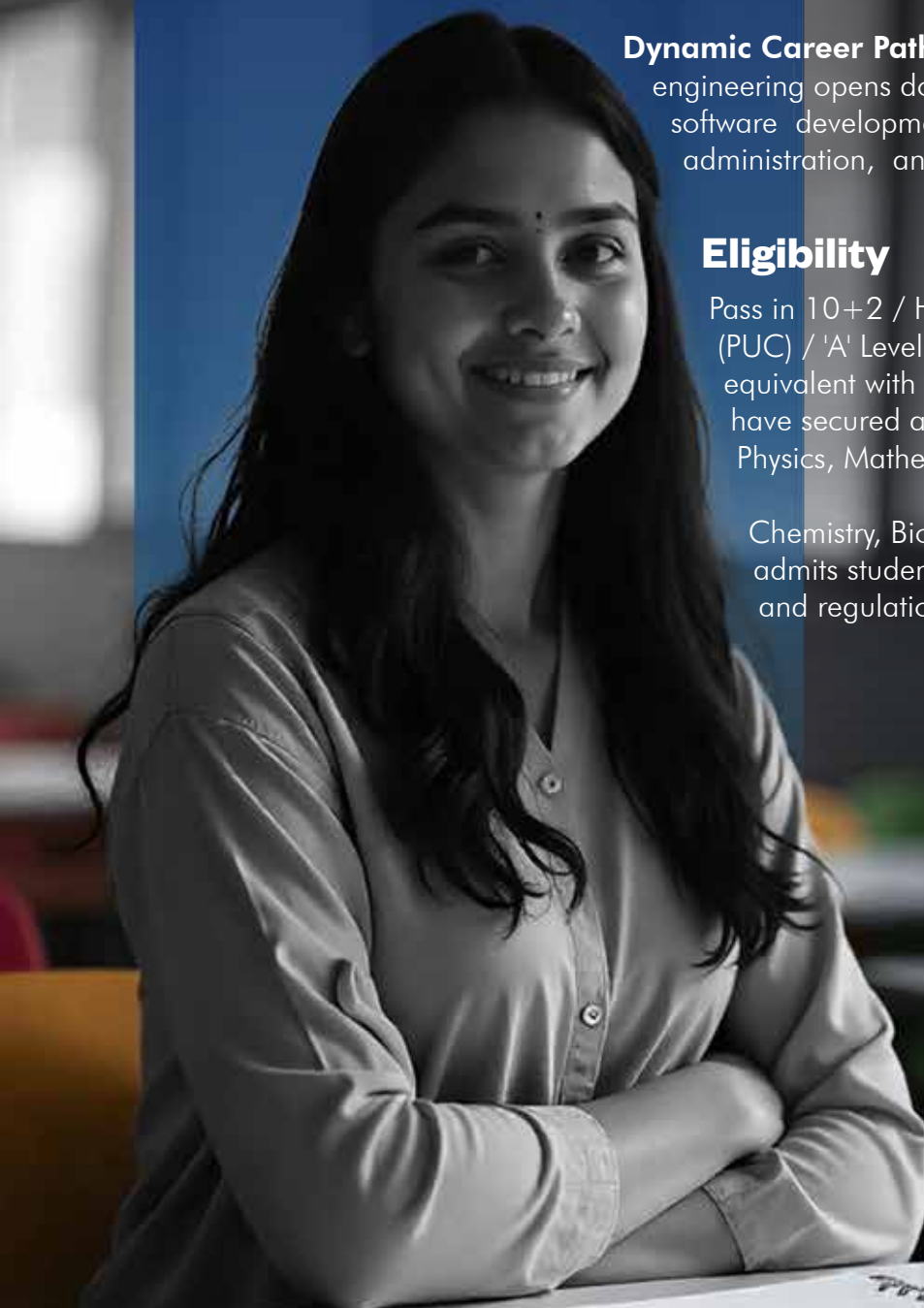
Dynamic Career Paths: The versatility of information science engineering opens doors to diverse career paths, from software development to data analysis, systems administration, and technology consulting.

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

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Academic Studio



Collaboration



Center of Excellence



Clubs



Digital Library



Laboratories



Research



Sports



Hostels



Habba



PROGRAMS OFFERED

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