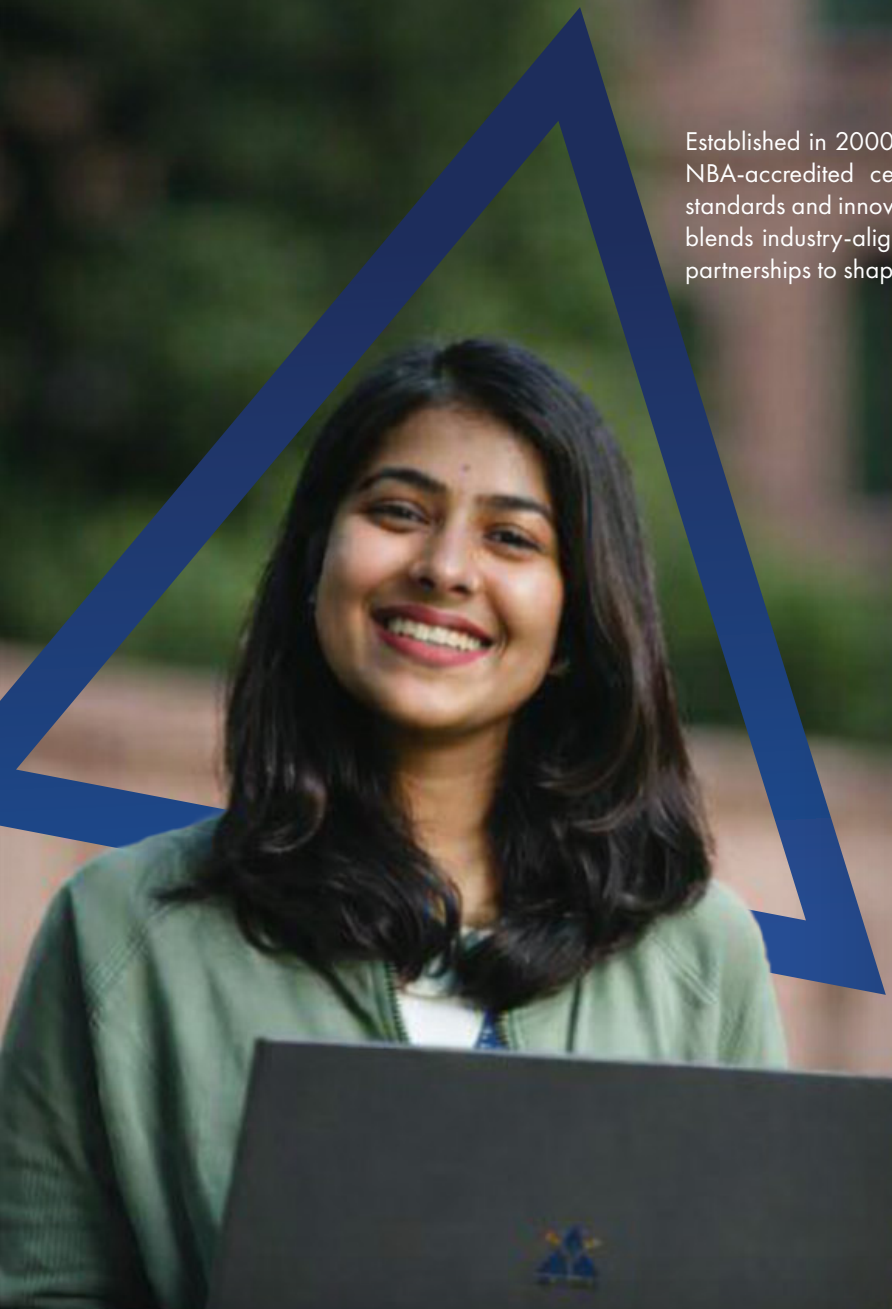
ACHARYA INSTITUTE OF TECHNOLOGY

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 (CLOUD & FULL STACK)

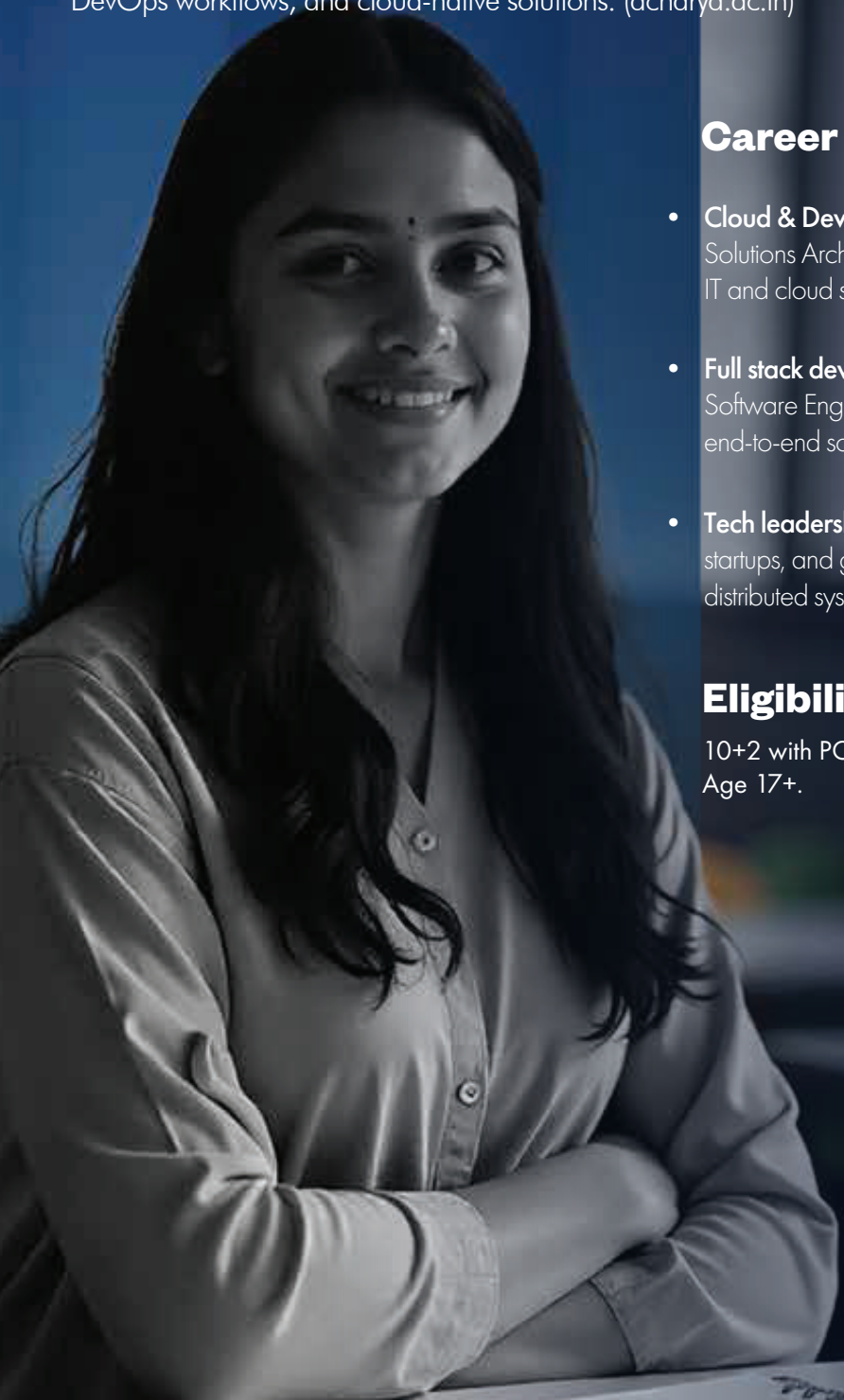
Specialization in Cloud & Full Stack Powered by

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.

- **Cloud & Full Stack specialisation –** Focused curriculum designed to build expertise in cloud computing, full stack web and application development. (acharya.ac.in)
- **Oracle collaboration for cloud skills –** Partnership that enables students to gain cloud-ready skills and industry-aligned knowledge for modern enterprise environments. (acharya.ac.in)
- **Comprehensive software foundation –** Courses covering programming, databases, web technologies, APIs, and distributed application design for end-to-end development fluency. (acharya.ac.in)
- **Hands-on projects & industry exposure –** Real-world assignments and practical work that sharpen coding, deployment, and problem-solving capabilities. (acharya.ac.in)
- **Modern technology integration –** Exposure to emerging tools and frameworks for scalable applications, DevOps workflows, and cloud-native solutions. (acharya.ac.in)



Career Scope

- **Cloud & DevOps career paths –** Roles such as Cloud Developer, Solutions Architect, DevOps Engineer, and Site Reliability Engineer in IT and cloud service providers.
- **Full stack development roles –** Opportunities as Full Stack Developer, Software Engineer, Web Architect, and Application Developer building end-to-end solutions.
- **Tech leadership & innovation roles –** Scope to join product teams, startups, and global firms in advanced areas like microservices, distributed systems, and cloud-native innovation.

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 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 PROGRAM CONTENT

- **2nd Sem** : Administer Oracle Cloud Infrastructure
- **3rd Sem** : Database Developer on Oracle Cloud
- **4th Sem** : Java Development on Oracle Cloud
- **5th Sem** : Application Development on Oracle Cloud
- **6th Sem** : Build MySQL Database for Applications on Oracle Cloud

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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