

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 COMPUTER SCIENCE (DATA SCIENCE)

Specialization in Cyber Seurity powered by

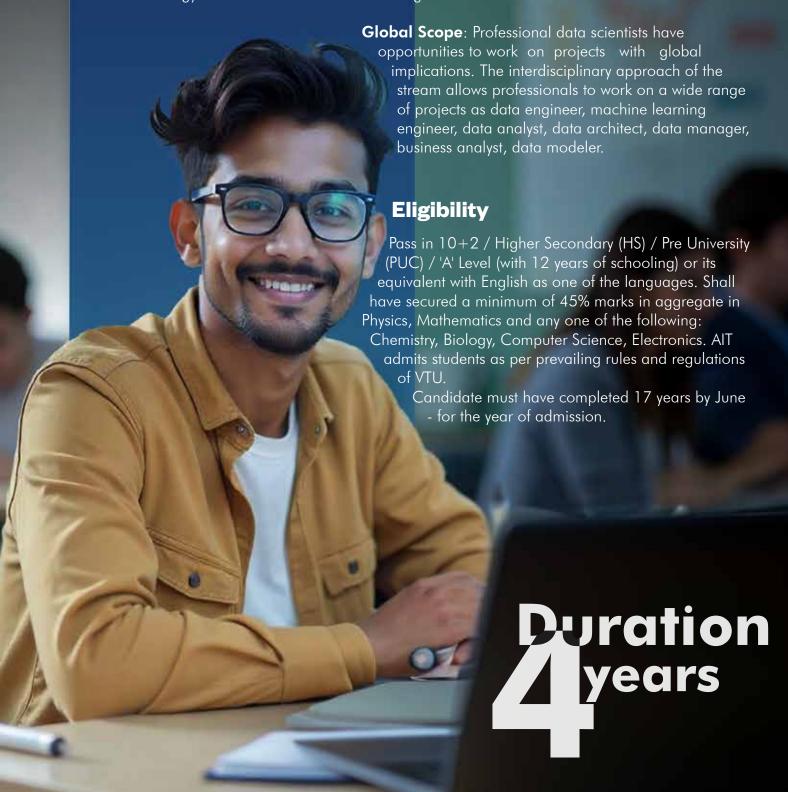


About

Our intensive skill-oriented program provides students with practical training in constructing business models for analytics. The curriculum's interdisciplinary nature integrates elements from computer science, statistics, mathematics, and domain-specific areas where data science is applied. Moreover, our partnership with the EC Council enhances students' comprehension of cybersecurity challenges, presenting an opportunity for certification by the company.

Career Scope

Fulfilling Career: Pursuing a course in Computer Engineering and Data Science provides a solid foundation for a dynamic and impactful career in technology, offering a combination of technical expertise, problem-solving skills, and the ability to navigate the ever-evolving landscape of information technology and data-driven decision-making.



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 and Applications
- Data Structures Lab
- ESC/ETC/PLC
 - Object Oriented Programming with Java Python Programming for Data Science Data Analytics with R
- Social Connect and Responsibility
- Ability Enhancement Course/Skill Enhancement Course - III
 - Data Analytics with Excel Ethics and Public Policy for Al Project Management with Git PHP Programming
- 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
- Microcontrollers
- Database Management Systems
- Analysis & Design of Algorithms Lab
- ESC/ETC/PLC

Scala

MangoDB

MERN

Julia

Ability Enhancement Course/Skill Enhancement

Course- IV

Discrete Mathematical Structures

Metric Spaces

Optimization for Machine Learning

Algorithmic Game Theory

- Biology For Engineers
- Universal human values course
- National Service Scheme (NSS)
- Physical Education (PE) (Sports and Athletics)
- Yoqa



Semester 5

- Software Engineering & Project Management
- Computer Networks (NS-2/3)
- Theory of Computation
- Data Visualization Lab
- Professional Elective Course
- Mini Project
- Research Methodology and IPR
- Environmental Studies
- National Service Scheme (NSS)
- Physical Education (PE) (Sports and Athletics)
- Yoga

Semester 7

- Scalable Computing
- Statistical Machine Learning for Data Science
- Information & Network Security
- Professional Elective Course

IOT Analytics

Business Analytics

Data Engineering & MLOps

Deep Learning

- Open Elective Course Introduction to DBMS Introduction to Algorithms Software Engineering Data Management
- Major Project Phase-II

Semester 6

- Big Data Analytics
- Artificial Intelligence & Machine Learning
- Professional Elective Course
 Natural Language Processing
 Exploratory Data Analysis
 Blockchain Technology

Time Series Analysis

- Open Elective Course
 Fundamentals of Operating Systems
 Introduction to Data Structures
 Mobile Application Development
 Introduction to Al
- Project Phase I
- Machine Learning lab
- Ability Enhancement Course/Skill Development Course V

Explainable Al

PyTorch

Generative Al

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)





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

10P Programmes

75+Nationalities

1200? Students

1000 Eminent Faculties

12PAcres State-of-the-Art Campus

B Premnath Reddy

Founder Chairman Acharya Group

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

Academic Studio



Clubs



Research



Habba



CIUD



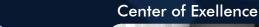
Digital Library



Sports



PROGRAMS OFFERED





Laboratories



Hostels



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