



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.

**ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING
ENGINEERING**

Specialization in Cyber
Security powered by
EC-Council

About

Our AIML course taps into the transformative power of Artificial Intelligence to solve real-world challenges. It is an interdisciplinary field that intersects with computer science, data science, mathematics and human science. Students benefit from state-of-the-art labs and cutting-edge technology, ensuring hands-on experience and practical application of theoretical knowledge. Additionally, our partnership with the EC Council enriches their understanding of cybersecurity challenges, providing an opportunity for certification by the company.

Career Scope

High Demand: AI tools are being utilized across diverse industries to enhance their products and services. With the ongoing advancement of AI technology, there is a growing demand for skilled AI professionals.

Problem Solving: AI graduates can be part of groundbreaking advancements, thereby contributing to solutions for real-world challenges by developing new AI features.

Versatile Career Opportunities: An AI engineering degree opens doors to diverse career opportunities. Opportunities are aplenty in IT services, finance, healthcare, manufacturing, telecommunications, and aerospace.

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.

Candidate must have completed 17 years by June - for the year of admission.

Duration
4 years

COURSE CONTENT

Semester 1

- Mathematics-I for AIML Streams
- Mathematics-I for AIML Streams
- Elements of AIML
- Basic Electronics for AIML stream
- Engineering Science Course-I
- Emerging Technology Course-I
- Programming Language 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
 - Data Analytics with R
 - Python Programming for Data Science
 - Data Analytics with Excel
 - Project Management with Git
 - Ethics and Public Policy for AI
 - PHP Programming
- Social Connect and Responsibility
- Ability Enhancement Course/Skill Enhancement Course – III
- National Service Scheme (NSS)
- Physical Education (PE) (Sports and Athletics)
- Yoga

Semester 2

- Mathematics-II for EESI
- Chemistry for EES
- Computer-Aided Engineering Drawing
- Engineering Science Course-II
- BPLCK205x Programming Language Course-II
- Emerging Technology Course-II
- Professional Writing Skills in English
- Communicative English
- Indian Constitution
- Samskrutika Kannada/ Balake Kannada
- Scientific Foundations of Health
- Innovation and Design Thinking

Semester 4

Analysis & Design of Algorithms

- Artificial Intelligence
- Database Management Systems
- Analysis & Design of Algorithms Lab
- ESC/ETC/PLC
- Ability Enhancement Course/Skill Enhancement Course- IV
 - Scala
 - MERN
 - MangoDB
 - Julia
 - Discrete Mathematics
 - Optimization for Machine Learning
 - 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)
- Yoga



Semester 5

Software Engineering & Project Management

- Computer Networks
- Theory of Computation
- Data Visualization Lab
- Professional Elective Course
 - Computer Vision
 - Data Warehousing
 - Distributed File Systems
 - Cloud Computing
- Mini Project
- Research Methodology and IPR
- Environmental Studies
- National Service Scheme (NSS)
- Physical Education (PE) (Sports and Athletics)
- Yoga

Semester 7

- Deep Learning & Reinforcement Learning
- Statistical Machine Learning for Data Science
- Data Security & Privacy
- Professional Elective Course
 - Scalable Data Systems
 - Business Analytics
 - Data Engineering & MLOps
 - Social Network Analysis
- Open Elective Course
 - Introduction to DBMS
 - Software Engineering
 - Introduction to Algorithms

Semester 6

Big Data Analytics

- Machine Learning
- Professional Elective Course
 - Human-Centred AI
 - Natural Language Processing
 - Blockchain Technology
 - Time Series Analysis
- 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
- National Service Scheme (NSS)
- Physical Education (PE) (Sports and Athletics)
- Yoga

Semester 8

- Professional Elective (Online Courses) Only through NPTEL, Course era, Spring Board
- Open Elective (Online Courses) Only through NPTEL, Course era, Spring Board
- Internship (Industry/Research) (14 - 20 weeks)
- Professional Elective Course
 - BOS will publish courses based on the availability
- Open Elective Courses
 - BOS will publish courses based on the availability



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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Collaboration



Center of Excellence



Clubs



Digital Library



Laboratories



Research



Sports



Hostels



Habba



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