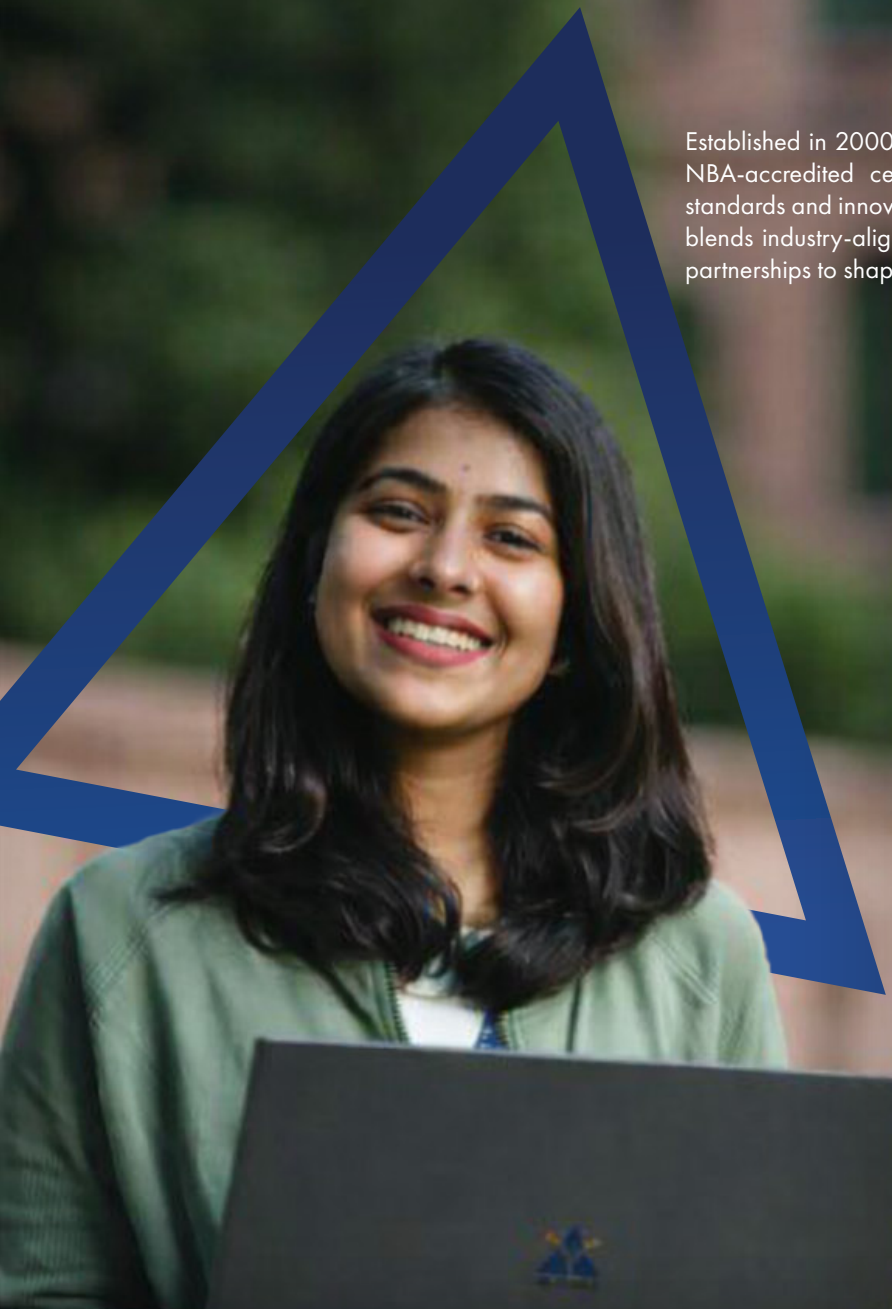
ACHARYA INSTITUTE OF TECHNOLOGY

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.

ARTIFICAL INTELLIGENCE AND MACHINE LEARNING ENGINEERING

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.

- **Cutting-edge AI & ML curriculum** covering machine learning, natural language processing, computer vision, robotics, and data science for real-world problem solving.
- **Interdisciplinary approach** integrating AI with computer science, mathematics, and engineering foundations.
- **State-of-the-art labs and hands-on experience** to apply theory through practical projects and experimentation.
- **Industry and research engagement** with strong ties to corporations and research institutions, enhancing exposure and opportunities.
- **Focus on responsible AI practices** combined with skills that align with employer expectations in the AI domain.



Career Scope

- **High-demand AI roles** such as AI Engineer, Machine Learning Specialist, Data Scientist, and Computer Vision Developer across IT, healthcare, finance, and automation sectors.
- **Opportunities in interdisciplinary tech fields** including robotics, intelligent systems, analytics, and smart automation.
- **Global and research pathways with scope in advanced AI research, innovation labs, product development, and higher studies.**

Eligibility

10+2 with PCM/PMC/PME + English, min 45%.
Age 17+.

Duration
4 years

COURSE CONTENT

Semester 1

- Mathematics-I for AIML Streams
- Mathematics-I for AIML Streams
- Elements of AIML
- Basic Electronicsfor 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 MathematicsOptimization 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 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 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 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

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.



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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