



Indian Institute of Information
Technology Vadodara (IIIT Vadodara)

B.Sc AI & ML

Type

Ug Program

Mode

Online

Duration

3 Years

Total fees

₹ 270,450

Indian Institute of Information Technology Vadodara (IIIT Vadodara)

Established in 2013 by the Ministry of Education, Government of India, IIIT Vadodara is an Institute of National Importance committed to advancing education, research and innovation in information technology. Founded through a Public-Private Partnership, the institute brings together government and industry expertise to develop globally competent technology professionals. Its academic environment emphasises interdisciplinary learning, technical excellence, practical problem-solving and the application of emerging technologies to real-world challenges.

B.Sc AI & ML

Highlights

- ◆ Earn a B.Sc. degree in Artificial Intelligence & Machine Learning from IIIT Vadodara.
- ◆ Learn through live online sessions supported by recorded learning resources.
- ◆ Build capabilities in Machine Learning, Deep Learning, NLP, Computer Vision and Generative AI.
- ◆ Gain practical exposure through programming labs, internships, mini projects and a major project.
- ◆ Learn from IIIT Vadodara faculty through an industry-relevant and future-focused curriculum

Learning outcomes

- ◆ Within B.Sc - Artificial Intelligence and Machine Learning from IIIT Vadodara, analyze AI use cases, datasets, model behaviour, and automation opportunities using concepts from Introduction to Computer and Problem-Solving Techniques, Programming Lab, machine learning models, and AI algorithms.
- ◆ Develop AI and Machine Learning solutions using contemporary tools and technologies.
- ◆ Apply analytical and problem-solving skills to practical challenges using intelligent systems.
- ◆ Explore emerging AI technologies and evaluate their applications across industries.
- ◆ Apply ethical and responsible practices while developing AI-enabled solutions.

Eligibility Criteria

Class 12 or equivalent (list of equivalents)

The final examination of the 10+2 system, conducted by a Central or State Board recognized by the Association of Indian Universities (AIU).

Intermediate or two-year Pre-University examination conducted by a Board or University recognized by the Association of Indian Universities.

Final examination of the two-year course of the Joint Services Wing of the National Defence Academy.

Senior Secondary School Examination conducted by the National Institute of Open Schooling with a minimum of five subjects.

Any Public School, Board or University examination in India or in a foreign country recognised as equivalent to the 10+2 system by the AIU.

Curriculum Overview

Semester I (7 subjects)

- ◆ Introduction to Computer and Problem-Solving Techniques
- ◆ Programming Lab
- ◆ Fundamental of Artificial Intelligence
- ◆ Environmental Sustainability and Climate Change
- ◆ Introduction to IoT
- ◆ Communication Skill - 1
- ◆ Ethics and Social Implications of AI



Curriculum Overview (continued)

Semester II (11 subjects)

- ◆ Object Oriented Programming
 - ◆ Object Oriented Programming Lab
 - ◆ Probability and Statistics
 - ◆ Computer Organization and Architecture
 - ◆ Elective
 - ◆ Elective Lab
 - ◆ Communication Skill - 2
 - ◆ Web Analytics
 - ◆ Web Analytics Lab
 - ◆ Advance MS-Office
 - ◆ Advance MS-Office Lab
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Semester III (9 subjects)

- ◆ Data Structures and Algorithms
 - ◆ Data Structures and Algorithms Lab
 - ◆ Python Programming
 - ◆ Python Programming Lab
 - ◆ DBMS
 - ◆ DBMS Lab
 - ◆ Introduction to Software Engineering
 - ◆ Human Values and Ethics
 - ◆ Seminar
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Semester IV (7 subjects)

- ◆ Computer Networks
- ◆ Computer Networks Lab
- ◆ Introduction to Operating System
- ◆ Exploratory Data Analysis and Visualization
- ◆ Exploratory Data Analysis and Visualization Lab
- ◆ Fundamental of Machine Learning
- ◆ Internship / Project



Curriculum Overview (continued)

Semester V (14 subjects)

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| ◆ Machine Learning Techniques | ◆ Artificial Neural Networks |
| ◆ Machine Learning Techniques Lab | ◆ Artificial Neural Networks Lab |
| ◆ Basics of Natural Language Processing | ◆ Big Data |
| ◆ Research Methodology | ◆ Big Data Lab Lab |
| ◆ Elective | ◆ Data Mining |
| ◆ Elective Lab | ◆ Data Mining lab |
| ◆ Mini Project | ◆ IoT Lab |
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Semester VI (11 subjects)

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| ◆ Deep Learning Techniques Lab | ◆ Cloud Computing |
| ◆ Elective - 1 | ◆ AI in Healthcare |
| ◆ Elective - 2 | ◆ Introduction to R |
| ◆ Major Project | ◆ Information Security and Cyber Laws |
| ◆ Computer Vision | ◆ Predictive Analytics |
| ◆ Cyber Security | |

Fee Structure

Fee heads	Year 1	Year 2	Year 3	Total
Caution Deposit (Refundable)	₹ 20,000	—	—	₹ 20,000
I Card Fee (One time)	₹ 100	—	—	₹ 100
Tuition Fee	₹ 75,000	₹ 75,000	₹ 75,000	₹ 225,000
Campus Immersion Fee	₹ 3,000	—	₹ 3,000	₹ 6,000
Institute Registration Fees	₹ 2,000	₹ 2,000	₹ 2,000	₹ 6,000
Alumni Fee	₹ 2,000	₹ 2,000	₹ 2,000	₹ 6,000
Convocation Fee	₹ 2,000	₹ 2,000	₹ 2,000	₹ 6,000
Insurance (Life & Medical)	₹ 1,350	—	—	₹ 1,350
Total	₹ 105,450	₹ 81,000	₹ 84,000	₹ 270,450