



Indian Institute of Information
Technology Vadodara (IIIT Vadodara)

B.Sc Computer Science

Type

Ug Program

Mode

Online

Duration

3 Years

Total fees

₹ 269,100

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 Computer Science

Highlights

- ◆ Earn a B.Sc. in Computer Science degree from IIIT Vadodara.
- ◆ Learn through a flexible online format supported by IIIT Vadodara faculty.
- ◆ Build expertise in programming, algorithms, databases, networking and software engineering.
- ◆ Explore emerging technologies including AI, Machine Learning, Cloud Computing, Cybersecurity, Big Data and IoT.
- ◆ Apply learning through laboratory courses, summer internship or training and a final B.Sc. project.

Learning outcomes

- ◆ Apply mathematical, statistical and computational principles to solve computer science problems.
- ◆ Develop software solutions using programming, algorithms, data structures and database technologies.
- ◆ Analyse and address challenges across networking, operating systems, cybersecurity and information systems.
- ◆ Integrate computer science knowledge with business and project-management principles to solve practical problems.
- ◆ Conduct independent research and develop ethical, responsible and innovative technology solutions.

Eligibility Criteria

Class 12 or equivalent (list of equivalents) or Class 10 + 3 Years Diploma

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 (8 subjects)

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|---|--|
| ◆ Mathematics - I (Discrete Mathematics) | ◆ Introduction to Computer Science |
| ◆ Environment Sustainability and Climate Change | ◆ Computer System Tools |
| ◆ Introduction to Yoga | ◆ Computer Programming and Problem Solving (C) |
| ◆ Spoken and Written Communication | ◆ Computer Programming and Problem Solving Lab |



Curriculum Overview (continued)

Semester II (8 subjects)

- ◆ Mathematics-II (Linear Algebra)
 - ◆ Introduction to Vedic Mathematics
 - ◆ Computer Graphics (Python OpenGL)
 - ◆ Operating Systems
 - ◆ Introduction to Data Structures
 - ◆ Introduction to Data Structures Lab
 - ◆ Object Oriented Programming (Java)
 - ◆ Object Oriented Programming Lab
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Semester III (8 subjects)

- ◆ Mathematics - III (Probability and Statistics)
 - ◆ Introduction to Entrepreneurship
 - ◆ Design and Analysis of Algorithms
 - ◆ Design and Analysis of Algorithms Lab
 - ◆ Database Management Systems
 - ◆ Database Management Systems Lab
 - ◆ Computer Organization and Architecture
 - ◆ Computer Organization and Architecture Laboratory
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Semester IV (9 subjects)

- ◆ Mathematics - IV (Numerical Methods)
- ◆ Computer Networks
- ◆ Computer Networks Lab
- ◆ Software Engineering
- ◆ Software Engineering Lab
- ◆ Artificial Intelligence
- ◆ Artificial Intelligence Lab
- ◆ Statistics in R
- ◆ Web Technology and DevOps



Curriculum Overview (continued)

Semester V (7 subjects)

- ◆ Machine Learning
- ◆ Cybersecurity
- ◆ Big Data Analytics
- ◆ Cloud Computing
- ◆ Information Retrieval
- ◆ Artificial Intelligence and Ethics
- ◆ Summer Internship/ Training

Semester VI (2 subjects)

- ◆ Internet of Things
- ◆ B.Sc. Project

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
Total	₹ 104,100	₹ 81,000	₹ 84,000	₹ 269,100