

Bachelor of Science (B.Sc. Information Technology)

Degree Duration : 3 Years (6 Semesters)

Intake Capacity : 60

The B.Sc. Information Technology programme is with an aim to make the students employable and impart industry oriented training. The main objectives of the course are to think analytically, creatively and critically in developing robust, extensible and highly maintainable technological solutions to simple and complex problems. Also to apply their knowledge and skills to be employed and excel in IT professional careers and/or to continue their education in IT and/or related post graduate programmes. Furthermore, to be capable of managing complex IT projects with consideration of the human, financial and environmental factors.

Eligibility:

- (a) A candidate for being eligible for admission to the degree course of Bachelor of Science-Information Technology, shall have passed XII standard examination of the Maharashtra Board of Higher Secondary Education or it's equivalent with Mathematic and Statistics as one of the subject and should have secured not less than 45% marks in aggregate for open category and 40% marks in aggregate in case of Reserved category candidates.
- (b) Candidate who have passed Diploma (Three years after S.S.C. – Xth Std.) in Information Technology/ Computer Technology/ Computer Engineering/Computer Science/ Electrical, Electronics and Video Engineering and Allied Branches/Mechanical and Allied Branches/ Civil and Allied branches are eligible for direct admission to the Second Year of the B.Sc. (I.T.) degree course.

Admission will be on merit, based on order of preference as follows:

1. *Aggregate Marks at H.S.C. or equivalent.*
2. *Marks in Mathematics or Statistics.*

(Ref. Circular of University of Mumbai/No.UG./283 of 2007, Dated 16th June, 2007)

Subjects:

Semester I		Semester II	
USIT101	Programming Principles with C	USIT201	Object Oriented Programming with C++
USIT1P1	Programming Principles with C Practical	USIT2P1	Object Oriented Programming with C++ Practical
USIT102	Digital Logic and Applications	USIT202	Fundamentals of Microprocessor and Microcontrollers
USIT1P2	Digital Logic and applications Practical	USIT2P2	Fundamentals of Microprocessor and Microcontrollers Practical
USIT103	Fundamentals of Database Management Systems	USIT203	Web Applications Development
USIT1P3	Fundamentals of Database Management Systems Practical	USIT2P3	Web Applications Development Practical

USIT104	Computational Logic and Discrete Structure	USIT204	Numerical Methods
USIT1P4	Computational Logic and Discrete structure Practical	USIT2P4	Numerical Methods Practical
USIT105	Technical Communication Skills	USIT205	Green IT
USIT1P5	Technical Communication Skills Practical	USIT2P5	PL/SQL Practical

Semester III		Semester IV	
USIT301	Python Programming	USIT401	Core Java
USIT3P1	Python Programming Practical	USIT4P1	Core Java Practical
USIT302	Data Structures	USIT402	Introduction to Embedded Systems
USIT3P2	Data Structures Practical	USIT4P2	Introduction to Embedded Systems Practical
USIT303	Computer Networks	USIT403	Computer Oriented Statistical Techniques
USIT3P3	Computer Networks Practical	USIT4P3	Computer Oriented Statistical Techniques Practical
USIT304	Database Management Systems	USIT404	Software Engineering
USIT3P4	Database Management Systems Practical	USIT4P4	Software Engineering Practical
USIT305	Applied Mathematics	USIT405	Computer Graphics and Animation
USIT3P5	Mobile Programming Practical	USIT4P5	Computer Graphics and Animation Practical

Semester V		Semester VI	
USIT501	Software Project Management	USIT601	Software Quality Assurance
USIT5P1	Project Dissertation	USIT6P1	Project Implementation
USIT502	Internet of Things	USIT602	Security in Computing
USIT5P2	Internet of Things Practical	USIT6P2	Security in Computing Practical
USIT503	Advanced Web Programming	USIT603	Business Intelligence
USIT5P3	Advanced Web Programming Practical	USIT6P3	Business Intelligence Practical
Discipline Specific Elective I			
USIT504	Linux System Administration	USIT604	Principles of Geographic Information Systems
USIT5P5	Linux Administration Practical	USIT6P5	Principles of Geographic Information Systems Practical

Discipline Specific Elective II			
USIT505	Enterprise Java	USIT605	IT Service Management
USIT5P6	Enterprise Java Practical	USIT6P6	Advanced Mobile Programming

Career Options After BSc Information Technology

Information Technology as a subject and its application in real-life business situations are considered the most sought-after courses both at graduation and post-graduation scenarios. Let us look at some career options after BSc Computer Science.

1. WEB Developer
2. Data Scientist
3. Cloud Engineer
4. Software Tester
5. Information System Manager
6. System Analyst
7. Project Head
8. Android Developer
9. Technical Support Assistant
10. Database Administrator
11. Software Engineer
12. Cyber Law Consultant
13. GIS (Geographic Information Systems) Engineer
14. Online Tutoring and many more

As per technology advances, Career opportunities also increasing in this field. This is evergreen field.