

## **B.Sc. - IT :-**

This is an integrated three year degree course divided into six semesters. The admission will be as per the guidelines issued by University of Mumbai. The focus of the programme is IT & Management of IT.

### **Objectives :-**

- To provide basic inputs in various aspects and a broad understanding of IT and its other disciplinary interfaces.
- To synergise information technology in all its ramifications.

The programme contents are theory and practical oriented. Excellent facilities are provided for practicals on computer related subjects through **COMPUTER CENTRE** of the College.

The course is divided into six semesters and there is continuous evaluation process through tests, tutorials and assignments.

### **Eligibility for admission to B.Sc. IT (0.5051)**

- (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 at first attempt.
- (b) Candidates 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 of are eligible for direct admission to the Second Year of the B.Sc. (I.T.) degree course.

However, the Diploma should be recognized by the Board of Technical Education or any other recognized Government Body. Minimum marks required 45% aggregate for open category candidates and 40% aggregate for reserved category candidates.

**OR**

Candidates with post HSC-Diploma in Information Technology / Computer Technology / Computer Engineering / Computer Science / and Allied branches will be eligible for direct admission to the Second Year of B.Sc. (I.T.).

However, the Diploma should be recognized by the Board of Technical Education of any other recognized Government Body. Minimum Marks required 45% aggregate for open category candidates and 40% aggregate for reserved category candidates.

Students passing an examination equivalent to S.Y.J.C. of the Higher Secondary Board Mumbai and Inter-Mediate (Arts/Science/Commerce) of University of Mumbai or from other states & immigrating from other Universities, Boards & seeking admission to the F. Y. of the Three Year Integrated Degree Course will be admitted only on provisional basis. Such students should submit a migration certificate, statement of marks and passing certificate in original along with true copies within two months, from the date of admission, failing which their admission is liable to be cancelled.

**Student are asked to see the University of Mumbai website [www.mu.ac.in](http://www.mu.ac.in) for various courses and eligibility rules.**

**B.Sc.IT (Subject Chart)****F.Y.BSC (Information Technology ) NEP-2020 Course Structure  
for Academic Year 2024-25****Semester – I**

<b>Major (Core) Subjects (Compulsory)</b>	1. Operating System 2. Digital Electronics
<b>Vocational &amp; Skill Enhancement Courses (VSEC)</b>	3. Imperative Programming (SEC) or any one from the SEC basket 4. Introduction to Database Management System (VSC)
<b>Open Electives (OE)</b>	5. Discrete Mathematics
<b>Minor Subjects</b>	---
<b>Ability Enhancement Courses (AEC) , Indian Knowledge System (IKS) and Value Education Courses (VEC)</b>	6. Language: English-1 (AEC) 7. Constitution of India (VEC) 8. IKS
<b>Field Project / Apprenticeship / Community Engagement &amp; Services/Co-curricular Courses (CC)</b>	9. Yoga Studies / NSS

**Baskets (Semester – I)**

<b>SEC</b>	<b>OE</b>
Anti Money & Know Your Customer in Banking	Business Economics in banking & insurance
Time Management	Quantitative Methods-I
Entrepreneurship Management -I	Mathematical and Statistical Techniques-I
Business Law	Business Economic I

## F.Y.BSC (Information Technology ) NEP-2020 Course Structure for Academic Year 2024-25

### Semester – II

<b>Major (Core) Subjects (Compulsory)</b>	1. Web Programming 2. Microprocessor Architecture
<b>Vocational &amp; Skill Enhancement Courses (VSEC)</b>	3. Object oriented programming (SEC) or any one from the SEC basket 4. Computer Graphics & Animation (VSC)
<b>Open Electives (OE)</b>	5. Numerical Methods
<b>Minor Subjects</b>	6. Marketing
<b>Ability Enhancement Courses (AEC) , Indian Knowledge System (IKS) and Value Education Courses (VEC)</b>	7. Language:English-2(AEC) 8. Green Computing (VEC)
<b>Field Project / Apprenticeship / Community Engagement &amp; Services/Co-curricular Courses (CC)</b>	9. Yoga Studies / NSS

### Baskets (Semester – II)

SEC	OE	Minor
Entrepreneurship Management-II	Financial Management	Marketing
Green Banking	Quantitative Methods (Tools used in Banking & Insurance) – II	Human Resource mgmt.
Foundation of Human Skills	Quantitative Methods- II	Economics
Business Law(SEC)	Introduction to Financial Accounts-I	
Accounting Software	Mathematical and Statistical Techniques-II	

## S.Y.B.Sc. (Information Technology) NEP-2020 Course Structure for Academic Year 2024-25

Semester - III		Credit	Course Code
<b>Major (Core) Subjects (Compulsory)</b>	(1) Python Programming	2	USIT.301
	(2) Computer Networks	4	USIT.302
	(3) Data Structure	2	USIT.303
<b>Minor Subjects</b>	Brand Management	4	USIT.303
<b>Open Electives (OE)</b>	Applied Mathematics	2	USIT.304
<b>Vocational and Skill Enhancement Courses (VEC)</b>	PL/SQL	2	USIT.305
<b>Ability Enhancement Courses (AEC)</b>	Language (i) Hindi - I (ii) Marathi - I (AEC)	2	USIT.306.1 USIT.306.2
<b>Field Project/ Apprenticeship Community Engagement &amp; Services/Co-curricular Courses (CC)</b>	(1) Yoga Studies	2	USIT.307
	(2) Field Project	2	USIT.308

## S.Y.B.Sc. (Information Technology) NEP-2020 Course Structure for Academic Year 2024-25

Semester - IV		Credit	Course Code
<b>Major (Core) Subjects (Compulsory)</b>	(1) Core Java	4	USIT.401
	(2) Software Engineering	2	USIT.402
	(3) Advance Puthon Programming	2	USIT.403
<b>Minor Subjects</b>	Sales and Distribution	4	USIT.404
<b>Open Electives (OE)</b>	Computer Oriented Statistical Techniques	2	USIT.405
<b>Skill Enhancement Courses (SEC)</b>	Embedded System	2	USIT.406
<b>Ability Enhancement Courses (AEC)</b>	Language (i) Hindi - I (ii) Marathi - I (AEC)	2	USIT.407.1 USIT.407.2
<b>Field Project/ Apprenticeship Community Engagement &amp; Services/Co-curricular Courses (CC)</b>	(1) Yoga Studies	2	USIT.408
	(2) Field Project	2	USIT.409

## Third Year B.Sc. IT

Programme Code : 1S00255		Programme Code : 1S00256	
Course Code	Semester V	Course Code	Semester VI
<b>USIT501</b>	Software Project Management	<b>USIT601</b>	Software Quality Assurance
<b>USIT502</b>	Internet of Things	<b>USIT602</b>	Security in Computing
<b>USIT503</b>	Advanced Web Programming	<b>USIT603</b>	Business Intelligence
<b>USIT504</b>	Linux System Administration	<b>USIT604</b>	Principles of Geographic Information Systems
<b>USIT505</b>	Enterprise Java	<b>USIT605</b>	Cyber Laws
<b>USIT5P1</b>	Project Dissertation	<b>USIT6P1</b>	Project Implementation
<b>USIT5P2</b>	Internet of Things- Practical	<b>USIT6P2</b>	Security in Computing- Practical
<b>USIT5P3</b>	Advanced Web Programming- Practical	<b>USIT6P3</b>	Business Intelligence- practical
<b>USIT5P4</b>	Linux System Administration - Practical	<b>USIT6P4</b>	Principles of Geographic Information Systems- Practical
<b>USIT5P5</b>	Enterprise Java - practical	<b>USIT6P5</b>	Advanced Mobile - Practical