

M.Sc Computer Science

Admission criterion for M. Sc. part I by Papers

For admission to M.Sc. Computer Science the following conditions will apply:

- ❖ There will be 20 seats per batch. All the admission will be on merit (i.e. percentage of aggregate marks secured for the qualifying examination). Reservation criterion should be followed as prescribed by government at the time of admission.

- ❖ The student who have passed following Degree examination are eligible for admission to the M.Sc. (Computer Science) Degree Course.
 - B.Sc. Information Technology with 45 percent marks
 - OR
 - B.Sc. Computer Science with minimum 45 percent marks.
 - OR
 - BCS with minimum 45 percent marks
 - OR
 - BE in IT / Electronics / Telecomm / Computer Science with minimum 45 percent marks
 - OR
 - B.Sc. (Old Course) degree examination with the combination of following subjects:

❖	Major		ANCILLIARY
	Mathemiatcs		Mathematics
		OR	
	Physics		Mathematics
		OR	
	Statistics		Mathematics

❖ Registration as Postgraduate Students

Every candidate admitted for M.Sc. CS will have to register as a postgraduate student of Mumbai University.

SYLLABUS

First Year (Semester I)

No.	Subject
1	Analysis of Algorithms and Researching Computing
2	Advanced Networking Concepts
3	Advanced Database Systems
4	Robotics and Artificial Intelligence

First Year (Semester II)

No.	Subject
1	Advanced Operating Systems
2	Design and implementation of Modern Compilers
3	Elective I- Track A: Cloud Computing (Concepts and Design of Web services) Elective I- Track B: Cyber and Information Security (Network Security)
4	Elective II - Track C: Business Intelligence and Big Data Analytics (Business Intelligence) Elective II - Track D: Machine Intelligence (Fundamentals of Machine Intelligence)

Second Year (Semester – III)

No.	Subject
1	Ubiquitous Computing
2	Social Network Analysis
3	Elective I (Select One)
	A Cloud Computing –II (Cloud Computing Technologies)
	B Cyber and Information Security- II (Cyber Forensics)
	C Business Intelligence and Big Data Analytics –II (Mining Massive Data sets)
	D Machine Learning –II (Advanced Machine Learning)

Second Year (Semester – IV)

No.	Subject
1	Simulation and Modeling
2	Elective I (Select One)
	A Cloud Computing –III (Building Clouds and Services)
	B Cyber and Information Security- II (Cryptography and Crypt Analysis)
	C Business Intelligence and Big Data Analytics –III (Intelligent Data Analysis)
	D Machine Learning –III (Computational Intelligence)
3	Internship with industry
4	Project Implementation

