University of Mumbai

M.G.Road, Fort, Mumbai-400032, Maharashtra(India)

Post Graduate Course Structure
For 2 Year(s) Master Degree Program in

Faculty of Science

Master of Science(M.Sc.)

(Credits)

(Rev16-Regular)

Computer Science

Course Code: -

Publisher's Note

This University of Mumbai has great Pleasure in publishing this course structure for Post Graduate course for 2 Year(s) Master Degree Program as "Master of Science" (Rev16 - Regular) (Computer Science) under the Faculty of "Faculty of Science".

On behalf of the University, I thank experts and authorities of the University for the interest taken and the whole hearted co-operation extended by them in bringing out this publication.

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University of Mumbai,M.G.Road, Fort, Mumbai-400032,
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Course Objective(s)

The Master of Science Consists of following 2 course part(s):

Sr.No.	Course Part Name	Course Part Abbrevation	Examination Pattern
1	Master of Science Part I	M.Sc. Part I	Semester
2	Master of Science Part II	M.Sc. Part II	Semester

The Master of Science is available in following medium of instruction/s:

1. English

Course Part: M.Sc. Part I

Term: Sem I

The papers for M.Sc. Part I - Sem I are classified into following groups:

1.Compulsory Group (Min Papers: 4, Max Papers: 4,
Separate Passing Head: No, Max. Marks: 400.00)
Select minimum 4 paper(s)
Select maximum 4 paper(s)

Papers:

PSCS101	Anaysis of Algorithms & Researching (Rev)
PSCS102	PSCS102 - Advanced Networking Concepts
PSCS103	PSCS103 - Advanced Database Systems
PSCS104	PSCS104 - Robotics and Artificial Intelligence

Term: Sem II

The papers for M.Sc. Part I - Sem II are classified into following groups:

1.Compulsory Group (Min Papers: 6, Max Papers: 6,
Separate Passing Head: No, Max. Marks: 600.00)
Select minimum 6 paper(s)
Select maximum 6 paper(s)

Papers:

PSCS201	PSCS201 - Advanced Operating Systems
PSCS202	PSCS202 - Design and implementation of Modern Compilers
PSCS2031	PSCS2031 - Cloud Computing (Concepts and Design of Web services)
PSCS2032	PSCS2032 - Cyber and Information Security (Network Security)
PSCS2041	PSCS2041 - Business Intelligence and Big Data Analytics (Business Intelligence)
PSCS2042	PSCS2042 - Machine Intelligence (Fundamentals of Machine Intelligence)

Course Part: M.Sc. Part II

Term: Sem III

The papers for M.Sc. Part II - Sem III are classified into following groups:

1.Compulsory Group (Min Papers: 4, Max Papers: 4,
Separate Passing Head: No, Max. Marks: 400.00)
Select minimum 4 paper(s)
Select maximum 4 paper(s)

Papers:

PSCS301	Ubiquitous Computing
PSCS302	Social Network Analysis
PSCSP5	Ubiquitous Computing and Social Network Analysis
PSCSP6	Practical Based on Elective I and Elective II

2.Elective I (Min Papers: 1, Max Papers: 1,
Separate Passing Head: No, Max. Marks: 100.00)
Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

PSCS3031	Elective I Track A: Cloud Computing II (Cloud Computing Technologies)
PSCS3032	Elective I Track B: Cyber Information Security II (Cyber Forensics)

3.Elective II (Min Papers: 1, Max Papers: 1,
Separate Passing Head: No, Max. Marks: 100.00)
Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

PSCS3034	Elective II Track D: Machine Learning II (Advanced Machine Learning)
PSCS3033	Elective II Track C: Business Intelligence and Big Data Analytics II (Mining Massive Data Sets)

Term: Sem IV

The papers for M.Sc. Part II - Sem IV are classified into following groups:

1.Compulsory Group (Min Papers: 4, Max Papers: 4,
Separate Passing Head: No, Max. Marks: 400.00)
Select minimum 4 paper(s)
Select maximum 4 paper(s)

Papers:

PSCS401	Simulation and Modeling
PSCSP7	Simulation and Modeling and Specialization
PSCSP8	Internship With Industry
PSCSP9	Project Implementation

2.Specialization Group (Min Papers: 1, Max Papers: 1,
Separate Passing Head: No, Max. Marks: 100.00)
Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

PSCS4021	Specialization Track A: Cloud Computing III (Building Clouds and Services)
PSCS4022	Specialization Track B: Cyber and Information Security II (Cryptography and Crypt Analysis)
PSCS4023	Specialization Track C: Business Intelligence and Big Data Analytics III
PSCS4024	Specialization Track D: Machine Learning III (Computational Intelligence)