

M.Sc. Computer Science Syllabus

Semester	S.No.	Subject Code	Subject Title	Credit Score	Hours	Semester Cumulative Credits
I	1	MSCT11	Discrete mathematics	3	3	21
	2	MSCT12	Data Structures and Algorithms	3	3	
	3	MSCT13	Computer Organization	3	3	
	4	MSCT14**	Database management systems **	3**	3**	
	5	MSCT15	Introduction to Programming	3	3	
	6	MSCP11	Data Structures and Algorithms lab	2	3	
	7	MSCP12	Database management systems	2	3	
	8	MSCP13	Programming Lab	2	3	
II	1	MSCT21	Operating Systems	3	3	20
	2	MSCT22	Networks	3	3	
	3	MSCT23	Software Engineering	2	2	
	4	MSCT24	Web Technology	3	3	
	5	MSCT25	Theory of Computation	3	3	
	6	MSCP21	Networks Lab	2	3	
	7	MSCP22	Software Engineering Lab	2	2	
	8	MSCP23	Web Technology Lab	2	3	
III	1	MSCT31	Network and System Security	3	3	26
	2	MSCT32	Data Science and Analytics	3	3	
	3	MSCT33	Advanced Programming Java	2	2	
	4		Elective I	2	2	
	5		Elective II	2	2	
	6	MSCP31	Network and System Security Lab	2	3	
	7	MSCP32	Data Science and Analytics Lab	2	3	

	8	MSCP33	Advanced Programming Lab	2	3	
	9	MSCP34	Mini Project	8	6	
IV	1	MSCT41	Web services	3	3	20
	2	MSCT42	Distributed computing	3	3	
	3		Elective III	2	2	
	4	MSCP41	Main Project	12	12	

**** - Data Base Management System – Course credit has been increased to 3 from 2. This will be applicable for students from the academic year 2018-19.**

List of Electives:

- MSCE1 Mobile App Development
- MSCE2 Cryptography
- MSCE3 Formal methods and verification
- MSCE4 Cloud Computing
- MSCE5 Secure systems engg.
- MSCE6 Software testing
- MSCE7 Internet of Things