

## MSC COMPUTER SCIENCE MSc(CS)

### SYLLABUS

YEAR/ SEMESTER	SUBJECT	PAPER	TITLE OF THE PAPER	CREDIT	MAXIMUM MARKS		
					INTERN AL	UNIVERSITY EXAM	TOTAL
I Year I Semester	Core	CS-1.1	Data Structure and Algorithms	4	30	70	100
	Core	CS-1.2	Computer System Architecture	4	30	70	100
	Core	CS-1.3	Database Systems & Implementation	4	30	70	100
	Core	CS-1.4	Discrete Mathematical Structures	4	30	70	100
	Elective I	CS-1.5	(a)Visual Programming or (b)Object Oriented Design Using UML	4	30	70	100
	Core Practical	CS-1.6	Algorithms Lab	4		100	100
	Core Practical	CS-1.7	Database Lab	4		100	100
I Year II Semester	Core	CS-2.1	Computer Networks	4	30	70	100
	Core	CS-2.2	Advanced Java	4	30	70	100
	Core	CS-2.3	Operating System Design	4	30	70	100
	Core	CS-2.4	Theory of Computation	4	30	70	100
	Elective II	CS-2.5	(a)Data Mining or (b)Computer Graphics	4	30	70	100
	Core Practical	CS-2.6	Java Programming Lab	4		100	100
	Core Practical	CS-2.7	Operating System Lab	4		100	100
II Year III Semester	Core	CS-3.1	Artificial Intelligence	4	30	70	100
	Core	CS-3.2	Software Engineering	4	30	70	100
	Core	CS-3.3	Compiler Design	4	30	70	100

	Elective III	CS-3.4	(a)Network Security or (b)Cloud Computing	4	30	70	100
	Elective IV	CS-3.5	(a)Embedded System or(b)Mobile Computing	4	30	70	100
	Core Practical	CS-3.6	AI Programming Lab	4		100	100
	Core Practical	CS-3.7	Software Engineering Lab	4		100	100
II Year IV Semester		CS-4.1	Comprehensive Viva	4		100	100
		CS-4.2	Project Work and Viva voice	12		300	300
			Total	100			2500