

M.Sc Computer Science Syllabus
Course Structure and Scheme of Examination
w.e.f 2019-20
FIRST YEAR – FIRST SEMESTER

Sub Code	Name of the Subject	No. of Credits	Int. Marks	Ext. Marks	Total Marks	Hours/ Week
MCS 101	Data Structures in C	5	30	70	100	4
MCS 102	Object Oriented Programming with JAVA	4	30	70	100	4
MCS 103	Computer Organization	5	30	70	100	4
MCS 104	Discrete Mathematical Structures	4	30	70	100	4
MCS 105	Software Engineering	5	30	70	100	4
MCS 106	Data Structures Lab using C	3	30	70	100	6
MCS 107	Java Programming Lab	3	30	70	100	6
MCS 108	Seminar	1	50	--	50	3
TOTAL		30	260	490	750	35

FIRST YEAR – SECOND SEMESTER

Sub Code	Name of the Subject	No. of Credits	Int. Marks	Ext. Marks	Total Marks	Hours/ Week
MCS 301	Web Technologies	4	30	70	100	4
MCS 202	Database Management Systems	5	30	70	100	4
MCS 203	Operating Systems	5	30	70	100	4
MCS 204	Computer Networks	4	30	70	100	4
MCS 205	Design & Analysis of Algorithms	5	30	70	100	4
MCS 206	Web Technologies Lab	3	30	70	100	6
MCS 207	DBMS Lab	3	30	70	100	6
MCS 208	Communication Skills	1	50	--	50	3
TOTAL		30	260	490	750	35
MOOCS		4	--	--	--	--

SECOND YEAR – THIRD SEMESTER

Sub Code	Name of the Subject	No. of Credits	Int. Marks	Ext. Marks	Total Marks	Hours/ Week
MCS 301	Python Programming	5	30	70	100	4
MCS 302	.Net Programming	5	30	70	100	4
MCS 303	Object Oriented Modeling & Design using UML	5	30	70	100	4
MCS 304.1 /304.2	Artificial Intelligence /Microprocessors & Interfacing	4	30	70	100	4
MCS 305.1 /305.2	Cryptography & Network Security / Blockchain Technology	4	30	70	100	4
MCS 306	Python Programming Lab	3	30	70	100	6
MCS 307	.Net Programming Lab	3	30	70	100	6
MCS 308	Seminar	1	50	--	50	3
	TOTAL	30	260	490	750	35
	MOOCS	4	--	--	--	--

SECOND YEAR – FOURTH SEMESTER

Sub Code	Name of the Subject	No. of Credits	Int. Marks	Ext. Marks	Total Marks	Hours / Week
MCS 401	Data Mining And Big Data	5	30	70	100	4
MCS 402.1 /402.2	Internet of Things / Cloud Computing	5	30	70	100	4
MCS 403.1 / 403.2	Machine Learning /Mobile Computing with Android	4	30	70	100	4
MCS 404	Soft Skills	1	50	--	50	3
MCS 405	Project	10	20	80	100	20
	TOTAL	25	160	290	450	35