

MASTER OF COMPUTER APPLICATIONS - MCA
Course Structure and Scheme of Examination w.e.f 2019-20
FIRST YEAR – FIRST SEMESTER

Sub Code	<u>Name of the Subject</u>	Int. Marks	Ext. Marks	Total Marks	No of Credits	Hours/ Week
MCA 1.1	Programming with C	30	70	100	5	4
MCA1.2	Computer Organization	30	70	100	5	4
MCA1.3	Language Processors	30	70	100	4	4
MCA1.4	Discrete Mathematical Structures	30	70	100	5	4
MCA 1.5	Accountancy and Financial Management	30	70	100	4	4
MCA 1.6	C Programming Lab	30	70	100	3	6
MCA 1.7	Computer Organization Lab	30	70	100	3	6
MCA 1.8	Seminar	50	--	50	1	3
	TOTAL	260	490	750	30	35

FIRST YEAR – SECOND SEMESTER

Sub Code	<u>Name of the Subject</u>	Int. Marks	Ext. Marks	Total Marks	No of Credits	Hours/ Week
MCA2.1	Data Structures Using Python	30	70	100	5	4
MCA 2.2	Operating System Principles	30	70	100	5	4
MCA2.3	Data Base Management Systems	30	70	100	5	4
MCA2.4	Computer Networks	30	70	100	4	4
MCA 2.5	Probability & Statistics	30	70	100	4	4
MCA2.6	Data Structures using Python Lab	30	70	100	3	6
MCA2.7	DBMS Lab	30	70	100	3	6
MCA2.8	Communication Skills	50	--	50	1	3
	TOTAL	260	490	750	30	35

SECOND YEAR – THIRD SEMESTER

Sub Code	<u>Name of the Subject</u>	Int. Marks	Ext. Marks	Total Marks	No of Credits	Hours / Week
MCA3.1	JAVAProgramming	30	70	100	5	4
MCA3.2	Object Oriented Modeling and Design using UML	30	70	100	5	4
MCA3.3	Operations Research	30	70	100	4	4
MCA3.4	Computer Graphics	30	70	100	5	4
MCA3.5	Artificial Intelligence	30	70	100	4	4
MCA3.6	UML Lab	30	70	100	3	6
MCA3.7	Java Programming Lab	30	70	100	3	6
MCA3.8	Seminar	50	---	50	1	3
TOTAL		260	490	750	30	35
MOOCS		---	---	---	4	---

SECOND YEAR – FOURTH SEMESTER

Sub Code	<u>Name of the Subject</u>	Int. Marks	Ext. Marks	Total Marks	No of Credits	Hours/ Week
MCA4.1	Data Mining Techniques	30	70	100	4	4
MCA4.2	Machine Learning	30	70	100	5	4
MCA4.3	Web Technologies	30	70	100	4	4
MCA4.4	Software Engineering	30	70	100	4	4
MCA4.5.1 MCA 4.5.2 MCA 4.5.3	Grid and Cluster Computing Cryptography and Network Security Simulation Modeling and Analysis	30	70	100	4	4
MCA4.6	Web Technologies Lab	30	70	100	3	6
MCA4.7	Mini Project	30	70	100	5	6
MCA4.8	Soft skills	50	--	50	1	3
TOTAL		260	490	750	30	35
MOOCS		---	---	---	4	---

THIRD YEAR – FIFTH SEMESTER

Sub Code	<u>Name of the Subject</u>	Int. Marks	Ext. Marks	Total Marks	No of Credits	Hours/ Week
MCA5.1	Essentials of Big Data Analytics	30	70	100	5	4
MCA5.2	.Net Programming	30	70	100	5	4
MCA5.3	Design and Analysis of Algorithms	30	70	100	5	4
MCA5.4.1 MCA5.4.2 MCA5.4.3	Internet of Things Mobile Computing with Android Cloud Computing	30	70	100	4	4
MCA5.5.1 MCA 5.5.2 MCA5.5.3	Image Processing Open Source Technologies Block chain technology.	30	70	100	4	4
MCA 5.6	.Net Programming Lab	30	70	100	3	6
MCA 5.7	Big Data Analytics Lab	30	70	100	3	6
MCA 5.8	Seminar	50	--	50	1	3
	TOTAL	260	490	750	30	35

THIRD YEAR - SIXTH SEMESTER

Sub Code	<u>Name of the Subject</u>	Int. Marks	Ext. Marks	Total Marks	No of Credits	Hours/ Week
MCA601	Project Work	--	150	150	10	Five Months Duration