





Master of Computer Applicatiopns							
SEMESTER- I							
Course Code	**Title of the Course**	**Category of the Course**	**Teaching Hours per week (L+T+P)**	**CIE**	**SEE**	**Total Marks**	**Credits**
MCA1.1	The Art of Programming	DSC	4+0+0	30	70	100	4
MCA1.2	Discrete Mathematics	DSC	4+0+0	30	70	100	4
MCA1.3	Computer Organization and Architecture	DSC	4+0+0	30	70	100	4
MCA1.4	Advanced Software Engineering	DSC	4+0+0	30	70	100	4
MCA1.5	Object Oriented Programming	DSC	4+0+0	30	70	100	4
MCA1.6	Data Structures	DSC	4+0+0	30	70	100	4
MCA1.7	Object Oriented Lab	DSC	0+0+2	30	70	100	2
MCA1.8	Data Structures Lab	DSC	0+0+2	30	70	100	2
SUB TOTAL				**240**	**560**	**800**	**28**

SEMESTER- II							
Course Code	**Title of the Course**	**Category of the Course**	**Teaching Hours per week (L+T+P)**	**CIE**	**SEE**	**Total Marks**	**Credits**
MCA2.1	Operating Systems	DSC	4+0+0	30	70	100	4
MCA2.2	Database Management Systems	DSC	4+0+0	30	70	100	4
MCA2.3	Computer Networks and Cybersecurity	DSC	4+0+0	30	70	100	4
MCA2.4	Python Programming	DSC	4+0+0	30	70	100	4
MCA2.5	Statistics And Probability	DSC	4+0+0	30	70	100	4
MCA2.6	Theory of Computing	DSC	4+0+0	30	70	100	4
MCA2.7	Database Management System Lab	DSC	0+0+2	30	70	100	2
MCA2.8	Python Programming Lab	DSC	0+0+2	30	70	100	2
SUB TOTAL				**240**	**560**	**800**	**28**

SEMESTER- III							
Course Code	**Title of the Course**	**Category of Course**	**Teaching hours per week (L+T+P)**	**CIA**	**SEE**	**Total Marks**	**Credit**
MCA3.1	The Design and Analysis of Algorithm	DSC	4+0+0	30	70	100	4
MCA3.2	Web Programming	DSC	4+0+0	30	70	100	4
MCA3.3	Open Elective	DSC	4+0+0	30	70	100	4
MCA3.4	Artificial Intelligence and Expert System	DSC	4+0+0	30	70	100	4
MCA3E	**Elective I**	DSE	4+0+0	30	70	100	4
MCA3.5	Mini Project Lab	DSC	0+0+4	30	70	100	4
MCA3.6	Web Programming Lab	DSC	0+0+4	30	70	100	2
Sub Total				**210**	**490**	**700**	**26**

ELECTIVE-I

MCA3E1	Cloud Computing for Internet of Things	DSE	4+0+0	30	70	100	4
MCA3E2	Mobile Computing	DSE	4+0+0	30	70	100	4
MCA3E3	Machine Learning	DSE	4+0+0	30	70	100	4

SEMESTER-IV							
Course Code	**Title of the Course**	**Category of Course**	**Teaching hours per week (L+T+P)**	**CIA**	**SEE**	**Total Marks**	**Credit**
MCA4.1	Software Testing and Quality Assurance	DSC	4+0+0	30	70	100	4
MCA4E	**Elective II**	DSC	4+0+0	30	70	100	4
MCA4.2	Software Testing Lab	DSC	0+0+4	30	70	100	4
MCA4.3	Main Project	DSC	0+0+12	90	210	300	12
Sub Total				**150**	**350**	**600**	**24**
ELECTIVE-II							
MCA4E1	Blockchain Technology	DSE	4+0+0	30	70	100	4
MCA4E2	Big Data Analytics	DSE	4+0+0	30	70	100	4
MCA4E3	Data Mining and Business Intelligence	DSE	4+0+0	30	70	100	4