

MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY: BHOPAL
COURSE OF STUDY AND SCHEME OF EXAMINATION
MASTER OF COMPUTER APPLICATIONS

MCA I SEMESTER

Course No.	Subjects	Scheme of studies periods per week		No. of duration of Theory Paper /Practical/Viva		Credits		Total credits
		L	P	No.	Hrs	L	P	
MCA-501	Mathematical Foundation of Comp. Sci.	4		1	3	4		4
MCA-502	Computer Organization & Architecture	4		1	3	4		4
MCA-503	Data Structure	4		1	3	4		4
HUM-504	Business Organization & Financial Mgt.	4		1	3	4		4
MCA-505	Programming Fundamental and 'C'	4		1	3	4		4
MCA-541	Computer Organization & Architecture		2	1	3		1	1
MCA-542	Data Structure		2	1	3		1	1
MCA-543	Programming Lab in C		6	1	6		3	3
	TOTAL	20				20	5	25

MCA II SEMESTER

Course No.	Subjects	L	P	No.	Hrs	L	P	Total
MCA-551	Business Information System	3		1	3	3		3
MCA-552	Operating System	4		1	3	4		4
MCA-553	Computer Based Numerical Methods	3		1	3	3		3
MCA-554	Object Orien. Analysis & Design & C++	4		1	3	4		4
MCA-555	Theory of Computation	4		1	3	4		4
HUM-556	Oral and Written Communication	2		1	3	2		2
MCA-591	Operating System		4	1	3		2	2
MCA-592	Programming Lab in C++		6	1	6		3	3
	TOTAL	20				20	5	25

MCA III SEMESTER

Course No.	Subjects	L	P	No.	Hrs	L	P	Total
MCA-601	Analysis & Design of Algorithm	4		1	3	4		4
EEG-602	Microprocessor & Assembly Language	4		1	3	4		4
MCA-603	Computer Networks & N/W Prog.	4		1	3	4		4
MCA-604	Statistical Computing	4		1	3	4		4
MCA-605	Database Management System	4		1	3	4		4
EEG-641	Microprocessor & Assembly Language		2	1	3		1	1
MCA-642	Computer Networks & N/W Prog.		2	1	3		1	1
MCA-643	Prog. Lab in RDBMS & Front End Tools.		6	1	6		3	3
	TOTAL	20	10			20	5	25

List of Elective Group - I

MCA-711 Data Warehousing and Data Mining
MCA-712 Mobile Computing
MCA-713 Advanced RDBMS
MCA-714 Distributed Systems
MCA-715 Natural Language Processing

List of Elective Group – II

MCA-721 Pattern Recognition & Computer Vision
MCA-722 Multimedia Computing
MCA-723 Parallel Computing
MCA-724 Advance Computer Architecture
MCA-725 Image Processing
MCA-726 Neural N/W & Fuzzy Logic