

Master of Computer Application (INDUSTRY INTEGRATED) Programme
(3 YEAR Course)
Syllabus and Scheme of Examination
w.e.f. 2011-12
MCA First Year
Semester-I

Paper Code	Subject
MCA-101	Mathematical Foundation of Computer Science
MCA-102	Computer Fundamentals & Programming in C
MCA-103	Object Oriented Programming Using C++
MCA-104	Internet and Web Designing

Software Lab

MCA-105	Software Lab-1 i) Programming in C ii) Web Programming Using HTML
MCA-106	SoftwareLab-2 i) Programming in C++ ii) Use of MS-Office
	Total

Semester-II

Paper Code	Subject
MCA-201	Data Structures
MCA-202	Digital Design & Computer Organization
MCA-203	Computer Based Management System & E-Commerce
MCA-204	Data Base Management Systems (DBMS)

Software Lab

MCA-205	Software Lab-3 i) Data Structure Implementation in C/C++
MCA-206	Software Lab-4 i) Oracle & SQL Prog.
	Total

MCA Second Year Semester-III

Paper Code	Subject
MCA-301	Computer Graphics & Multimedia
MCA-302	Operating Systems
MCA-303	Data Communication & Computer Networks
MCA-304	Object Technology
Software Lab	
MCA-305	SoftwareLab-5 i) Graphics Programming in C/C++. ii)Use of MatLab
MCA-306	SoftwareLab-6 i) Java programming

Semester-IV

Paper Code	Subject
MCA-401	Advanced Java Programming
MCA-402	Data Warehousing & Mining
MCA-403	Software Engineering
MCA-404	Visual Languages Programming
Software Lab	
MCA-405	SoftwareLab-7 i) AdvanceJava Programming ii)Working with DWH & DM Tools
MCA-406	Software Lab-8 i) Visual Programming Using VB ii) Working with VC++

MCA Third Year Semester-V

Paper Code	Subject
MCA-501	Advanced Technology
MCA-502	Software Testing & Quality Assurance
MCA-503	Artificial Intelligence & Expert Systems
MCA-504	Computer Security
Software Lab	
MCA-505	Software Lab-9 i) .NET Programming Using C# and/or VB.NET
MCA-506	Software Lab-10 PROLOG Programming
	Total

Semester-VI

Paper Code	Subject
MCA-601	Major Project
	Grand Total