

**SCHEME OF STUDY AND EXAMINATION FOR
MASTER OF COMPUTER APPLICATION (MCA)
IN COMPUTER SCIENCE**

(With effect from the academic year 2013-2014 and onwards)

Sl No.	Paper Code	Subjects	Lecture Hours Per Week	Practical Hours Per Week	Duration Theory/ Practical Exam. Hours	Marks For		Total Marks for the Subject
						Exam	Internal Assignments	
MCA Ist Semester (First Year)								
01.	1MCA 1.1	Problem Solving Using C	04	--	03	80	20	100
02.	1MCA 1.2	Accounting and Financial Management	04	--	03	80	20	100
03.	1MCA 1.3	Digital Electronics and Computer Design	04	--	03	80	20	100
04.	1MCA 1.4	Discrete Mathematical Structures	04	--	03	80	20	100
05.	1MCA 1.5	UNIX and Shell Programming	04	--	03	80	20	100
06.	1MCA 1.6	C- Programming and UNIX Lab	--	04	03	80	20	100
07.	1MCA 1.7	Digital Electronics Lab	--	04	03	80	20	100
MCA IInd Semester (First Year)								
01.	1MCA 2.1	Operating System	04	--	03	80	20	100
02.	1MCA 2.2	Data Communication	04	--	03	80	20	100
03.	1MCA 2.3	Computer Oriented Numerical Methods	04	--	03	80	20	100
04.	1MCA 2.4	Data Structures with C	04	--	03	80	20	100
05.	1MCA 2.5	Object Oriented Programming with C++	04	--	03	80	20	100
06.	1MCA 2.6	Practical-I: Data Structure with C Lab	--	04	03	80	20	100
07.	1MCA 2.7	Practical-II: Object Oriented Programming with C++ Lab	--	04	03	80	20	100

MCA IIIrd Semester (Second Year)								
01.	2MCA 3.1	Analysis and Design of Algorithm	04	--	03	80	20	100
02.	2MCA 3.2	System Programming	04	--	03	80	20	100
03.	2MCA 3.3	Finite Automata and Formal Languages	04	--	03	80	20	100
04.	2MCA 3.4	Advanced Computer Networking	04	--	03	80	20	100
05.	2MCA 3.5	Microprocessor and Interfacing	04	--	03	80	20	100
06.	2MCA 3.6	Analysis Design of Algorithm Lab	--	04	03	80	20	100
07.	2MCA 3.7	Microprocessor Lab	--	04	03	80	20	100
MCA IVth Semester (Second Year)								
01.	2MCA 4.1	Software Engineering	04	--	03	80	20	100
02.	2MCA 4.2	Computer Graphics and Visualization	04	--	03	80	20	100
03.	2MCA 4.3	JAVA and J2EE	04	--	03	80	20	100
04.	2MCA 4.4	Relational Database Management Systems	04	--	03	80	20	100
05.	2MCA 4.5	ELECTIVE-I	04	--	03	80	20	100
06.	2MCA 4.6	Practical-I: Computer Graphics Lab	--	04	03	80	20	100
07.	2MCA 4.7	Practical-II: Relational Database Management System Lab	--	04	03	80	20	100
MCA Vth Semester (Third Year)								
01.	3MCA 5.1	Object Oriented Analysis Design	04	--	03	80	20	100
02.	3MCA 5.2	Compiler Design	04	--	03	80	20	100
03.	3MCA 5.3	Mobile Computing	04	--	03	80	20	100
04.	3MCA 5.4	C# Programming and .NET	04	--	03	80	20	100
05.	3MCA 5.5	ELECTIVE II	04	--	03	80	20	100
06.	3MCA 5.6	JAVA and J2EE Programming Lab	--	04	03	80	20	100
07.	3MCA 5.7	C# and .NET Lab	--	04	03	80	20	100

MCA VI th Semester (Third Year)								
01.	--	Project Work	--	--	--	150	--	150
02.	--	Seminar	--	--	--	--	50	50
03.	--	Viva-Voice	--	--	--	50	--	50
Total								250

ELECTIVE SUBJETS

SR.NO	SUBJECT CODE	ELECTIVE- I	SR.NO	SUBJECT CODE	ELECTIVE- II
01.	2MCA 4.5.1	OPTICAL NETWORKS	01.	3MCA 5.5.1	EMBEDDED SYSTEM
02.	2MCA 4.5.2	ARTIFICIAL INTELLIGENCE	02.	3MCA 5.5.2	DATA WARE HOUSING AND DATA MINING
03.	2MCA 4.5.3	DIGITAL IMAGE PROCESSING	03.	3MCA 5.5.3	PROTOCOL ENGINEERING
04.	2MCA 4.5.4	MICROCONTROLLERS	04.	3MCA 5.5.4	UNIX SYSTEM PROGRAMMING
05.	2MCA 4.5.5	OPERATION RESEARCH	05.	3MCA 5.5.5	SYSTEM SIMULATION





KARNATAKA STATE WOMEN'S UNIVERSITY, BIJAPUR.
DEPARTMENT OF COMPUTER SCIENCE (M.SC., M.C.A AND P.G.D.C.A.)

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