MCA

Objectives

To create high calibre solution architects and innovators for software development who will also be sensitive to societal concerns. The main objectives of this course are to prepare the youth to take up positions as system analysts, system engineers, software engineers, programmers and of course as versatile teachers in any area of computer applications. Accordingly, the course curriculum aims at developing 'systems thinking', 'abstract thinking', 'skills to analyze and synthesize' and 'skills to apply knowledge' through 'extensive problem-solving sessions', 'hands on practice under various hardware/software environments', 'three minor projects and 'one semester full-time industrial training'. In addition, 'social interaction skills', 'communication skills', 'life skills', 'entrepreneurial skills', and 'research skills' which are necessary for career growth and for leading quality life are also imparted.

Mission

By teaching 'things just not words', 'how to think', and 'how to self-learn'.

Programme Outcomes

Learning Outcomes from Master of Computer Applications (MCA) Programme: At the end of the course the student should be able to:

- Analyse problems and design effective and efficient software solutions.
- Develop software under latest Application Development Environments.
- Learn new technologies with ease and be productive at all times.
- Read, write, and contribute to technical literature.
- Work in teams.
- Be a good citizen in all respects.

Programme Structure

SEMESTER I							
Course Number	Course Title	Credit Value	#Lec	#Tut.	#Lab.	Weightage for EoTE/IA	EoTM
101	Basics of Software Development Skills	4	3	2	-	0.6/0.4	Univ
102	Elementary Algorithmics	4	3	2	-	0.6/0.4	Univ

103	Database Management Systems	4	3	2	-	0.6/0.4	Univ
104	Discrete Structures I	3	2	2	-	0.6/0.4	Univ
105	Management Functions	3	2	2	-	0.6/0.4	Univ
106	Programming with C	4	2	-	4	0.6/0.4	Univ
107	Web Supporting Technologies	4	2	-	4	0.6/0.4	Univ
108	General Course I	2	-	-	4	Continuous Assessment	Institute
Total		**28**	**17**	**10**	**12**	**-**	**-**

SEMESTER II							
Course Number	**Course Title**	**Credit Value**	**#Lec**	**#Tut.**	**#Lab.**	**Weightage for EoTE/IA**	**EoTM**
201	Computer Architecture	4	3	2	-	0.6/0.4	Univ
202	Object Oriented Analysis and Design	4	3	2	-	0.6/0.4	Univ
203	Business Information Systems	4	3	2	-	0.6/0.4	Univ
204	Discrete Structures II	3	2	2	-	0.6/0.4	Univ
205	Financial Accounting and Management	3	2	2	-	0.6/0.4	Univ
206	Database Management with Oracle	4	2	-	4	0.6/0.4	Univ
207	Project I	2	-	-	4	0.6/0.4	Univ
208	General Course II	2	-	-	4	Continuous Assessment	Institute
Total		**26**	**15**	**10**	**12**	**-**	**-**

SEMESTER III							
Course Number	**Course Title**	**Credit Value**	**#Lec**	**#Tut.**	**#Lab.**	**Weightage for EoTE/IA**	**EoTM**

Course Number	Course Title	Credit Value	#Lec	#Tut.	#Lab.	Weightage for EoTE/IA	EoTM
CC301	Operating System Concepts	4	3	2	-	0.6/0.4	Univ
CC302	Computer Networks	4	3	2	-	0.6/0.4	Univ
CC303	Software Engineering	4	3	2	-	0.6/0.4	Univ
CC304	Empirical Methods for Researching Information Systems	3	2	2	-	0.6/0.4	Univ
CC305	Organizational Behavior	3	2	2	-	0.6/0.4	Univ
CC306#	Programming with Java	4	2	-	4	0.6/0.4	Univ
PR02	Project II	2	-	-	4	0.6/0.4	Univ
EL01	LAB Elective I	3	1	-	4	Continuous Assessment	Institute
GC03	General Course III	2	-	-	4	Continuous Assessment	Institute
Total		**29**	**16**	**10**	**16**	**-**	**-**

SEMESTER IV							
Course Number	Course Title	Credit Value	#Lec	#Tut.	#Lab.	Weightage for EoTE/IA	EoTM
CC401	Applied Data Structures	4	3	2	-	0.6/0.4	Univ
CC402	Design Patterns and HCI	4	3	2	-	0.6/0.4	Univ
CC403	Probability and Simulation	3	2	2	-	0.6/0.4	Univ
EC	Elective Course I	4	4	-	-	Continuous Assessment	Institute
EC	Elective Course II	4	4	-	-	Continuous Assessment	Univ
CC306#	Dot Net Technologies	4	2	-	4	0.6/0.4	Univ
PR02	Project III	2	-	-	4	0.6/0.4	Univ
EL01	LAB Elective II	3	1	-	4	Continuous Assessment	Institute
GC03	General Course IV	2	-	-	4	Continuous Assessment	Institute

	Total	30	18	08	16	-	-

SEMESTER V							
Course Number	Course Title	Credit Value	#Lec	#Tut.	#Lab.	Weightage for EoTE/IA	EoTM
CC501	Soft Computing	4	3	2	-	0.6/0.4	Univ
CC502	Finite Automata and Grammars	4	3	2	-	0.6/0.4	Univ
CC503	Software Project Management	3	3	2	-	0.6/0.4	Univ
EC03	Elective Course III	4	4	-	-	Continuous Assessment	Institute
EC04	Elective Course IV	4	4	-	-	Continuous Assessment	Univ
PR04	Project IV	2	-	-	4	0.6/0.4	Univ
EL03	LAB Elective III	3	-	-	4	Continuous Assessment	Institute
GC05	General Course V	2	-	-	4	Continuous Assessment	Institute
	Total	27	18	06	12	-	-

SEMESTER VI							
Course Number	Course Title	Credit Value	#Lec	#Tut.	#Lab.	Weightage for EoTE/IA	EoTM
PR601	Internship Project	10	-	-	-	0.6/0.4	Univ

There is no theory examination conducted by university for courses CC106, CC107, CC206, CC306, and CC406. The four electives, the three Lab electives, and General Courses are finalized by the respective institutes.