School of Information Technology & Engineering

MCA - Curriculum

University Core

S.No	Course code	Subject Name	L	T	P	C	Pre-Requisite	Co-Requisite	Category
1	ENG601\ FRE501	English(Professional and Communication Skills)/ Foreign Language(Communicative French)	2	0	0	2			UC
2	MAT510	Discrete Mathematics & Linear Algebra	4	0	0	4			UC
3	ITA512	Software Project Management (Management)	3	0	0	3			UC
4	ITA699	Project Work	0	0	0	20			UC
		TOTAL				29			

University Elective

S.No	Course code	Subject Name	L	T	P	C	Pre-Requisite	Co-Requisite	Category
1	UE1	University Elective(From any one Programme Elective list)	3	0	0	3			UE
		TOTAL				3			

Programme Core

S.No	Course code	Subject Name	L	T	P	C	Pre-Requisite	Co-Requisite	Category
1	ITA401	**Introduction to Computer organization**	3	0	0	3	None		PC
2	ITA402	**Probability statistics and OR**	4	0	0	4	None		PC
3	ITA403	**Accounting and Financial Management**	3	0	0	3	None		PC
4	ITA414	**Theory of Computation**	3	1	0	4	UC2		PC
5	ITA404	**Data Structures**	3	0	0	3	None		PC
6	ITA405	**Microprocessors**	3	0	2	4	ITA401		PC
7	ITA406	**Object Oriented Programming in C++**	3	0	0	3	None		PC
8	ITA416	**Data structure using C++ Laboratory**	0	0	3	2		ITA406, ITA404	PC
9	ITA407	**Computer Architecture**	3	0	0	3	ITA401		PC
10	ITA408	**Database Management Systems**	3	0	0	3	ITA404		PC
11	ITA409	**Programming in Java**	3	0	0	3	ITA406		PC
12	ITA410	**Operating Systems**	3	0	0	3	ITA401		PC

S.No	Course Code	Subject Name	L	T	P	C	Pre-Requisite	Co-Requisite	Category
13	ITA417	Database Management Systems Laboratory	0	0	3	2		ITA408	PC
14	ITA418	Programming in Java Laboratory	0	0	3	2		ITA409	PC
15	ITA411	Software Engineering	3	0	0	3	IT406		PC
16	ITA413	Computer Graphics and Multimedia Systems	3	0	2	4	None		PC
17	ITA412	Computer Networks	3	0	2	4	ITA410		PC
18	ITA501	Advanced Database Management Systems	3	0	0	3	ITA408		PC
19	ITA502	Unified Modeling Language	3	0	0	3	ITA406, ITA411		PC
20	ITA522	Service Oriented Architecture	3	0	0	3	ITA410, ITA412		PC
21	ITA503	Mobile Computing	3	0	0	3	ITA412		PC
22	ITA504	Programming in C# with Visual Studio .Net	3	0	2	4	ITA406		PC
23	ITA505	Digital Image processing	3	0	0	3	ITA402		PC
24	ITA511	Enterprise Computing	3	0	0	3	ITA408, ITA501		PC
25	ITA509	Open Source Programming	3	0	0	3	ITA409		PC
26	ITA419	Programming in C and Algorithm Design	3	0	0	4	NIL	NIL	PC
		TOTAL				82			

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Programme Elective

S.No	Course Code	Subject Name	L	T	P	C	Pre-Requisite	Co-Requisite	Category
1	ITA521	Pattern recognition	3	0	0	3	ITA402, ITA505		PE
2	ITA506	Compiler Construction	3	0	0	3	ITA414		PE
3	ITA507	Data warehousing & Data Mining	3	0	0	3	ITA408		PE
4	ITA508	Business Process Management	3	0	0	3	ITA403		PE
5	ITA510	Agent based Intelligent Systems	3	0	0	3	ITA503		PE
6	ITA512	Software Project Management	3	0	0	3	ITA411		PE
7	ITA513	Pervasive Computing	3	0	0	3	ITA406, ITA409		PE
8	ITA514	Embedded Systems	3	0	0	3	ITA405		PE
S.No	Course	Subject Name	L	T	P	C	Pre-	Co-	Category

	Code						Requisite	Requisite
9	ITA515	Distributed Computing	3	0	0	3	ITA410	PE
10	ITA516	Security in Computing	3	0	0	3	ITA412, ITA410	PE
11	ITA520	Software Testing	3	0	0	3	ITA411	PE
12	ITA517	Fuzzy logic and Neural Networks	3	0	0	3	ITA402	PE
13	ITA518	Performance Evaluation of computer System	3	0	0	3	ITA407	PE
14	ITA519	Grid Computing	3	0	0	3	ITA410, ITA412	PE
15	ITA523	Mainframe Computing	3	0	0	3	None	PE
		TOTAL				18		

Note: Students can take maximum of six electives + Two electives(One for Management and One for University Elective)

Credit Summary

UC	31
UE	3
PC	82
PE	18
Total	132