

MCA- SYLLABUS STRUCTURE

SEMESTER I					
Sr. No.	Course Title	Course Code	CP	EXT	INT
1	Problem Solving using C++	IT11	4	70	30
2	Software Engineering using UML	IT12	4	70	30
3	Database Management System	IT13	4	70	30
4	Essentials of Operating System	IT14	4	70	30
5	Business Process Domain	BM11	4	70	30
6	Open Subject 1	OS11	1	-	25
7	Open Subject 2	OS12	1	-	25
8	Case Study on Requirement Gathering	CS11	1	-	25
Practicals					
9	Practical based on IT11	IT11L	2	-	50
10	Practical based on OS11 and OS12	OS1L	2	-	50
Soft Skills					
11	Soft Skills - I	SS11	1	-	25
			28	350	350

SEMESTER II					
Sr. No.	Course Title	Course Code	CP	EXT	INT
1	Data Structure and Algorithm	IT21	4	70	30
2	Web Technology	IT22	4	70	30
3	Business Statistics	MT21	4	70	30
4	Essentials of Networking	IT23	4	70	30
5	Principles and Practices of Management and Organizational Behavior	BM21	4	70	30
6	Open Subject 3	OS21	1	-	25
7	Open Subject 4	OS22	1	-	25
8	Case Study on Feasibility Study and Analysis	CS21	1	-	25
Practicals					
9	Practical based on IT21	IT22L	2	-	50
10	Practical based on OS21 and OS22	OS2L	2	-	50
Soft Skill					
11	Soft Skills - II	SS21	1	-	25
			28	350	350

SEMESTER III

Sr. No.	Course Title	Course Code	CP	EXT	INT
1	Java Programming	IT31	4	70	30
2	Data Warehousing & Data Mining	IT32	4	70	30
3	Testing & Quality Assurance	IT33	4	70	30
4	Probability and Combinatorics	MT31	4	70	30
5	Cloud Computing	IT34	4	70	30
6	Open Subject 5	OS31	1	-	25
7	Open Subject 6	OS32	1	-	25
8	Case Study on Design	CS31	1	-	25
* Practicals					
9	Practical based on IT31	IT31L	2	-	50
10	Practical based on OS31 and OS32	OS2L	2	-	50
Soft Skills					
11	Soft Skills - III	SS31	1	-	25
			28	350	350

SEMESTER IV

Sr. No.	Course Title	Course Code	CP	EXT	INT
1	Python Programming	IT41	4	70	30
2	Information System and Security Audit	BM41	4	70	30
3	Optimization Techniques	MT41	4	70	30
4	Essentials of Architectural framework	IT42	4	70	30
5	Knowledge Representation & Artificial Intelligence	IT43	4	70	30
6	Open Subject 7	OS41	1	-	25
7	Open Subject 8	OS42	1	-	25
8	Case Study on Development	CS41	1	-	25
* Practicals					
9	Practical based on IT41	IT41L	2	-	50
10	Practical based on OS41 and OS42	OS3L	2	-	50
Soft Skills					
11	Soft Skills - IV	SS41	1	-	25
			28	350	350

SEMESTER V					
Sr. No.	Course Title	Course Code	CP	EXT	INT
1	Social Media and Digital Marketing	IT51	4	70	30
2	Mobile Application Development	IT52	4	70	30
3	Software Project Management	IT53	4	70	30
4	Mini Project	ITC51	8	150	50
5	Open Subject 9	OS51	1	-	25
6	Open Subject 10	OS52	1	-	25
7	Case Study on Implementation and Testing	CS51	1	-	25
* Practicals					
8	Practical based on IT51	IT51L	1	-	25
9	Practical based on OS51 and OS52	OS4L	2	-	50
Soft Skills					
10	Soft Skills- V	SS51	2	-	50
			28	360	340

SEMESTER VI					
Sr. No.	Course Title	Course Code	CP	EXT	INT
1	Open Subject 11	OS61	4		100
2	Project	ITC61	16	250	150
			20	250	250

CP : Credit Points

Ext.: External Subject

Int.: Internal subject