



MCA(Full Time)
Curriculum & Syllabus
2022 Regulations

I SEMESTER							
S.NO	Sub.Code	Title of the Subject	TY/LB/ ETL/IE	L	T/ SLR	P/R	C
1.	CMCA22001	Advanced Database Technologies	Ty	3	0/0	0/0	3
2.	CMCA22002	Advanced Data Structures and Algorithms	Ty	3	1/0	0/0	4
3	CMCA22ET1	Programming fundamentals with C++	ETL	3	0/0	2/0	4
4.	CMCA22EXX	Elective I	Ty	3	0/0	0/0	3
5.	HMCC22001	Research Methodology	Ty	3	0/0	0/0	3
6.	CMCA22L01	Advanced Database Technologies Laboratory	Lb	0	0/0	4/0	2
7.	CMCA22L02	Advanced Data Structures and Algorithms Laboratory	Lb	0	0/0	4/0	2
8.	HMAC22IXX	Audit Course	Ty/IE	2	0/0	0/0	0
Total							21

II SEMESTER							
S.NO	Sub.Code	Title of the Subject	TY/LB/ ETL/IE	L	T/ SLR	P/R	C
1.	CMCA22003	Advanced Java Programming	TY	3	0/0	0/0	3
2.	CMCA22004	Python Programming	TY	3	0/0	0/0	3
3.	CMCA22ET2	Full Stack Web Development	ETL	3	0/0	2/0	4
4.	CMCA22EXX	Elective II	TY	3	0/0	0/0	3
5.	HMCC22002	Intellectual Property rights and Patents	TY	3	0/0	0/0	3
6.	CMCA22L03	Advanced Java Programming Laboratory	LB	0	0/0	4/0	2
7.	CMCA22L04	Python Programming Laboratory	LB	0	0/0	4/0	2
8.	CMCA22I01	Summer Internship	IE	0	0/0	4/0	2
TOTAL							22



III SEMESTER							
S.NO	Sub.Code	Title of the Subject	TY/LB/ETL/IE	L	T/ SLR	P/R	C
1.	CMCA22005	Cyber Security	Ty	3	1/0	0/0	4
2.	CMCA22006	C# and .Net Programming	Ty	3	1/0	0/0	4
3.	CMCA22007	IOT and Cloud Computing	Ty	3	1/0	0/0	4
4.	CMCA22ET3	Data Analytics and R Programming	ETL	2	0/0	2/0	4
5.	CMOL22IE1	Open Elective – Swayam/NPTEL/Any MOOC	IE	3	0/0	0/0	3
6.	CMCA22L05	C# and .Net Programming Laboratory	Lb	0	0/0	4/0	2
TOTAL							21

IV SEMESTER							
S.NO	Sub.Code	Title of the Subject	TY/LB/ETL/IE	L	T/ SLR	P/R	C
1.	CMCA22L06	Project Work	LB	0	0/0	9/9	9
2.	CMCA22I02	Research Publication	IE	0	0/0	4/0	2
TOTAL							11

Summary of Credits

1 st Semester	-	21
2 nd Semester	-	22
3 rd Semester	-	21
4 th Semester	-	11
Total	-	75



LIST OF ELECTIVES

Electives							
S.No	Sub.Code	Title of the Subject	Ty/Lb/ ETL/IE	L	T/SLR	P/R	C
1	CMCA22E01	Data Communication and Networks	Ty	3	0/0	0/0	3
2	CMCA22E02	Distributed Systems	Ty	3	0/0	0/0	3
3.	CMCA22E03	Soft Computing	Ty	3	0/0	0/0	3
4	CMCA22E04	Entrepreneurial Development	Ty	3	0/0	0/0	3
5	CMCA22E05	Object Oriented Software Engineering	Ty	3	0/0	0/0	3
6	CMCA22E06	Data Science	Ty	3	0/0	0/0	3
7	CMCA22E07	Image Processing	Ty	3	0/0	0/0	3
8	CMCA22E08	Web Content-Development	Ty	3	0/0	0/0	3
9	CMCA22E09	Enterprise Resource Planning	Ty	3	0/0	0/0	3
10	CMCA22E10	Software Project Management	Ty	3	0/0	0/0	3
11	CMCA22E11	Object Oriented Modeling And Design	Ty	3	0/0	0/0	3
12	CMCA22E12	Cryptography and Network Security	Ty	3	0/0	0/0	3
13	CMCA22E13	Block chain Technology	Ty	3	0/0	0/0	3
14	CMCA22E14	Machine Learning	Ty	3	0/0	0/0	3
15	CMCA22E15	Data Visualization	Ty	3	0/0	0/0	3
16	CMCA22E16	Data Mining And Warehousing	Ty	3	0/0	0/0	3



LIST OF AUDIT COURSES

AUDIT COURSE							
S.No	Sub.Code	Title of the Subject	Ty/Lb/ETL/IE	L	T/SLR	P/R	C
1	HMAC22I01	English for Research paper Writing	Ty	2	0/0	0/0	0
2	HMAC22I02	Disaster Management	Ty	2	0/0	0/0	0
3	HMAC22I03	Sanskrit for Technical Knowledge	Ty	2	0/0	0/0	0
4	HMAC22I04	Value Education	Ty	2	0/0	0/0	0
5	HMAC22I05	Constitution of India	Ty	2	0/0	0/0	0
6	HMAC22I06	Pedagogy Studies	Ty	2	0/0	0/0	0
7	HMAC22I07	Stress Management by Yoga	Ty	2	0/0	0/0	0
8	HMAC22I08	Personality Development through Life Enlightenment Skills	Ty	2	0/0	0/0	0
9	HMAC22I09	Life skill	Ty	2	0/0	0/0	0