

## CURRICULUM - MCA - REGULAR YEAR: 2023



SE	EMESTER I	- MCA - REG									
No Course Code Course Code Course CIE Marks ESE Marks Total ESE Pas:											Credits
NO	Course Coue	Course	L	Т	Р	CIL Walks	LOL WAIKS	Total	LOL Fass	Total Pass	Credits
1	23MCA101	Mathematical Foundations for Computing	3	1	0	40	60	100	24	50	4
2	23MCA103	Digital Fundamentals & Computer Architecture	3	1	0	40	60	100	24	50	4
3	23MCA105	Advanced Data Structures	3	1	0	40	60	100	24	50	4
4	23MCA107	Advanced Software Engineering	3	1	0	40	60	100	24	50	4
5	23MCA131	Programming Lab	0	1	3	50	50	100	20	50	2
6	23MCA133	Web Programming Lab	0	1	3	50	50	100	20	50	2
7	23MCA135	Data Structures Lab	0	1	3	50	50	100	20	50	2
8	23MCANC1	Entrepreneurship & Innovations in Technology	0	0	1	0	0	0	0	0	0
9	23MCANC4	MOOC Course	0	0	0	0	0	0	0	0	0
			12	7	10	310	390	700			22

SI	EMESTER II	- MCA - REG									
No	Course Code	Course	Но	urs/we	eek	CIE Marks	ESE Marks	Total	ESE Pass	Total Pass	Credits
			L	Т	P						
1	23MCA102	Advanced Database Management Systems	3	1	0	40	60	100	24	50	4
2	23MCA104	ADVANCED COMPUTER NETWORKS	3	1	0	40	60	100	24	50	4
3		Elective I	3	1	0	40	60	100	24	50	4
4		Elective II	3	1	0	40	60	100	24	50	4
5	23MCA132	Object Oriented Programming Lab	0	1	3	50	50	100	20	50	2
6	23MCA134	Advanced DBMS Lab	0	1	3	50	50	100	20	50	2
7	23MCA136	Networking & Systems Administration Lab	0	1	3	50	50	100	20	50	2
8	23MCANC2	Industrial Readiness Training	0	0	1	0	0	0	0	0	0
			12	7	10	310	390	700			22

SE	EMESTER III	- MCA - REG											
No	No Course Code Course Code Course ClE Marks ESE Marks Total ESE Pass Total Pass Cred												
"	Ocurse code	Course	L	Т	Р	OIL Marks	LOL Marks	lotai	LOLIUSS	TOtal Fass	Orcuits		
1	23MCA201	Data Science & Machine Learning	3	1	0	40	60	100	24	50	4		
2	23MCA203	Design & Analysis of Algorithms	3	1	0	40	60	100	24	50	4		
3		Elective III	3	1	0	40	60	100	24	50	4		
4		Elective IV	3	1	0	40	60	100	24	50	4		
5	23MCA241	Data Science Lab	0	1	3	50	50	100	20	50	2		
6	23MCA243	Mobile Application Development Lab	0	1	3	50	50	100	20	50	2		
7	23MCA245	MINI PROJECT	0	0	4	50	50	100	20	50	2		
8	23MCANC3	Domain Expertise Workshops	0	0	1	0	0	0	0	0	0		
			12	6	11	310	390	700			22		

S	SEMESTER IV - MCA - REG												
No	No Course Code Course Code Course ClE Marks ESE Marks Total ESE Pass Total Pass Credit												
	Course cous	554.55	L	Т	Р	OIL MAINS	LOC Marko	lotai	2021400	Total Lago	Cround		
1	23MCA242	Comprehensive Viva	0	0	0	0	100	100	50	50	6		
2	23MCA244	Seminar	0	0	2	0	50	50	0	25	2		
3	23MCA246	Main Project	0	0	27	70	30	100	15	50	12		
			0	0	29	70	180	250			20		

MCA - REG	ULAR	Total Marks : 2350	Total Credits : 86	
1				

EI	Elective I - MCA - REG												
No	No Course Code Course Hours/week CIE Marks ESE Marks Total ESE Pass Total Pass Cred												
	Course cour	354155	L	Т	Р	OIL Marks	LOZ Marko		2021400	Total Lago	O.Ouno		
1	23MCA162	Applied Statistics	3	1	0	40	60	100	24	50	4		
2	23MCA164	Organizational Behaviour	3	1	0	40	60	100	24	50	4		
3	23MCA166	Functional Programming	3	1	0	40	60	100	24	50	4		
4	23MCA168	Virtualisation and Containers	3	1	0	40	60	100	24	50	4		
5	23MCA172	ADVANCED OPERATING SYSTEMS	3	1	0	40	60	100	24	50	4		

EI	Elective II - MCA - REG												
No	No Course Code Course Hours/week CIE Marks ESE Marks Total ESE Pass Total Pass Cred												
		564.65	L	Т	Р	0.2		1000			Ciodino		
1	23MCA182	Business Management	3	1	0	40	60	100	24	50	4		
2	23MCA184	Embedded Systems	3	1	0	40	60	100	24	50	4		
3	23MCA186	COMPUTER GRAPHICS	3	1	0	40	60	100	24	50	4		
4	23MCA188	Artificial Intelligence	3	1	0	40	60	100	24	50	4		
5	23MCA192	IPR and Cyber Laws	3	1	0	40	60	100	24	50	4		

EI	ective III - M	ICA - REG										
No	No Course Code Course Hours/week CIE Marks ESE Marks Total ESE Pass Total Pass Credit											
	Course cour	354.55	L	Т	Р		LOZ Marko	lotai	2021400	Total Lago	Orouno	
1	23MCA261	Operations Research	3	1	0	40	60	100	24	50	4	
2	23MCA263	Cyber Security & Cryptography	3	1	0	40	60	100	24	50	4	
3	23MCA265	CLOUD COMPUTING	3	1	0	40	60	100	24	50	4	
4	23MCA267	CYBER FORENSICS	3	1	0	40	60	100	24	50	4	
5	23MCA269	Compiler Design	3	1	0	40	60	100	24	50	4	

EI	Elective IV - MCA - REG												
No	No Course Code Course Code Course ClE Marks ESE Marks Total ESE Pass Total Pass Credit												
	000.00 0000		L	Т	Р	0.2					O O Canto		
1	23MCA281	INTERNET OF THINGS	3	1	0	40	60	100	24	50	4		
2	23MCA283	DEEP LEARNING	3	1	0	40	60	100	24	50	4		
3	23MCA285	Digital Image Processing	3	1	0	40	60	100	24	50	4		
4	23MCA287	BIOINFORMATICS	3	1	0	40	60	100	24	50	4		
5	23MCA289	SOCIAL NETWORK ANALYSIS	3	1	0	40	60	100	24	50	4		