

Curriculum Scheme for First Year MCA CBCS

Sr.No	Subject Code No.	Short Name	Subject	Credit	Teaching Scheme			Examination Scheme												
					L	P	Hours/ Week	Theory						Practical						
								Duration of Paper (Hrs)	Max Marks Theory Papers	Max Marks Sessional		Total	Min Pass Marks	Duration of Papers Hrs	External		Sessional	Total	Min Pass Marks	
										contineous Assesment Marks	Term Work and Regularity				Performan ce	Viva- Voce				
Semester-I																				
1	17MCA101	COA	Computer Organization and Architectures	4	4	-	4	3	70	20	10	100	40	-	-	-	-	-	-	-
2	17MCA102	SE	Software Engineering	4	4	-	4	3	70	20	10	100	40	-	-	-	-	-	-	-
3	17MCA103	DSFD	Data Structure and File Design	4	4	-	4	3	70	20	10	100	40	-	-	-	-	-	-	-
4	17MCA104	PM	Programming Methodology	4	4	-	4	3	70	20	10	100	40	-	-	-	-	-	-	-
5	17MCA105	DBMS	Data Base Management System	4	4	-	4	3	70	20	10	100	40	-	-	-	-	-	-	-
6	17MCA106	PDSFD	Practical-Data Structure & File Design	2	-	4	4	-	-	-	-	-	-	3	20	10	20	50	20	
7	17MCA107	PPMC	Practical-Programming Metodology	2	-	4	4	-	-	-	-	-	-	3	20	10	20	50	20	
8	17MCA108	Lab-1	Lab-DBMS Using Access	2	-	4	4	-	-	-	-	-	-	3	20	10	20	50	20	
9	17MCA109	SSM1	Self Study Module-1	2	-	-	4	-	-	-	-	-	-				50	50	20	
			Total	28	20	12	36		350	100	50	500			60	30	110	200		
Semester-II																				
1	17MCA110	DCN	Data Communication Network	4	4	-	4	3	70	20	10	100	40	-	-	-	-	-	-	-
2	17MCA111	OSD	Operating System Design	4	4	-	4	3	70	20	10	100	40	-	-	-	-	-	-	-
3	17MCA112	MF	Mathematical Foundation	4	4	-	4	3	70	20	10	100	40	-	-	-	-	-	-	-
4	17MCA113	OOP	Object Oriented Programming in CPP	4	4	-	4	3	70	20	10	100	40	-	-	-	-	-	-	-
5	17MCA114	WD	Web Design	4	4	-	4	3	70	20	10	100	40	-	-	-	-	-	-	-
6	17MCA115	POOP	Practical Object Oriented Programming in CPP	2	-	4	4	-	-	-	-	-	-	3	20	10	20	50	20	
7	17MCA116	PWD	Practical Web Design	2	-	4	4	-	-	-	-	-	-	3	20	10	20	50	20	
8	17MCA117	Lab-2	Linux	2	-	4	4	-	-	-	-	-	-	3	20	10	20	50	20	
9	17MCA118	PROJ-1	Project	2	-	4	4	-	-	-	-	-	-	3			50	50	40	
			Total	28	20	16	36		350	100	50	500			60	30	110	200		

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Semester-III																			
1	17MCA201	MIS	Management Information system	4	4	-	4	3	70	20	10	100	40	-	-	-	-	-	-
2	17MCA202	JAVA	JAVA Programming	4	4	-	4	3	70	20	10	100	40	-	-	-	-	-	-
3	17MCA203	CG	Computer Graphics	4	4	-	4	3	70	20	10	100	40	-	-	-	-	-	-
4	17MCA204	PHP	PHP	4	4	-	4	3	70	20	10	100	40	-	-	-	-	-	-
5	17MCA205	AI	Artificial Intelligence and Expert System	4	4	-	4	3	70	20	10	100	40	-	-	-	-	-	-
6	17MCA206	PJAVA	Practical-JAVA Programming	2	-	4	4	-	-	-	-	-	-	3	20	10	20	50	20
7	17MCA207	PPHP	Practical-PHP	2	-	4	4	-	-	-	-	-	-	3	20	10	20	50	20
8	17MCA208	Lab-1	Lab-Computer Graphics	2	-	4	4	-	-	-	-	-	-	3	20	10	20	50	20
9	17MCA209	SSM2	Swayam/Free Elective	2	-	-	4	-	-	-	-	-	-	3			50	50	20
			Total	28	20	12	36		350	100	50	500			60	30	110	200	
Semester-IV																			
1	17MCA210	ALP	Assembly Language Programming	4	4	-	4	3	70	20	10	100	40	-	-	-	-	-	-
2	17MCA211	CCP	Cloud Computing	4	4	-	4	3	70	20	10	100	40	-	-	-	-	-	-
3	17MCA212	AJVA	Advanced Java Programming	4	4	-	4	3	70	20	10	100	40	-	-	-	-	-	-
4	17MCA213	DWM	Data Warehouse and Data Mining	4	4	-	4	3	70	20	10	100	40	-	-	-	-	-	-
5	17MCA214	ELE	Elective - 1	4	4	-	4	3	70	20	10	100	40	-	-	-	-	-	-
6	17MCA215	PALP	Practical-Assembly Language Programming	2	-	4	4	-	-	-	-	-	-	3	20	10	20	50	20
7	17MCA216	PAJVA	Practical-Advanced Java Programming	2	-	4	4	-	-	-	-	-	-	3	20	10	20	50	20
8	17MCA217	Lab-2	Lab- Dot NET	2	-	4	4	-	-	-	-	-	-	3	20	10	20	50	20
9	17MCA218	INT	Vacational Internship	2	-	-	4	-	-	-	-	-	-	3			50	50	40
			Total	28	20	12	36		350	100	50	500			60	30	110	200	

Elective - 1: a) Cyber Security and Ethical Hacking b)Image Processing c)Soft Computing-Fussy Logic and Neural Network d)Bio Informatics

Vacational Internship of 30 days/ Online Courses through Swayam/MOOC/ NPTEL/ Conduction of Workshop on New Technology of 10 Hrs. : Students are required to complete an "Vacation Internship of 30 days during Winter and /or summer vacation. **OR** Complete one online course offered by Swayam,MOOC,NPTEL in related Subject. **OR** Conduct a workshop of not less than 10 hrs duration on new tools/technology for students of same class / Junior class.

Curriculum Scheme for Third Year MCA 2017-2018 CBCS																			
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Semester-V																			
1	17MCA301	OT	Optimization Techniques	4	4	-	4	3	70	20	10	100	40	-	-	-	-	-	-
2	17MCA302	BSA	Business System Administration	4	4	-	4	3	70	20	10	100	40	-	-	-	-	-	-
3	17MCA303	MAD	Mobile Application Development	4	4	-	4	3	70	20	10	100	40	-	-	-	-	-	-
4	17MCA304	IOT	Internet of Things	4	4	-	4	3	70	20	10	100	40	-	-	-	-	-	-
5	17MCA305	STQA	Software Testing and Quality Assurance	4	4	-	4	3	70	20	10	100	40	-	-	-	-	-	-
6	17MCA306	PMAD	Practical-Mobile Application Development	2	-	4	4	-	-	-	-	-	-	3	20	10	20	50	20
7	17MCA307	PSTQA	Practical-Software Testing and Quality Assurance	2	-	4	4	-	-	-	-	-	-	3	20	10	20	50	20
8	17MCA308	Lab-1	Lab-Data Analytics	2	-	4	4	-	-	-	-	-	-	3	20	10	20	50	20
9	17MCA309	LAB-2	Lab-Elective	2	-	4	4	-	-	-	-	-	-				50	50	20
			Total	28	20	16	36		350	100	50	500			60	30	110	200	
Semester-VI																			
1	17MCA310	Sem	Seminar	6	-	-	6	-	-	-	-	-	-	3	15	10	25	50	20
2	17MCA311	Proj	Industrial Project	22	-	-	30	-	-	-	-	-	-	3	80	20	100	200	80
			Total	28			36								95	30	125	250	

Elective : The elective for practical will be decided at the start of the academic session by a committee constituted by Head of the Department. The committee shall include Three Faculty, two students, one outside expert from academia and two expert from Industry.