

KAZI NAZRUL UNIVERSITY				FACULTY OF SCIENCE, TECHNOLOGY AND VOCATIONAL STUDIES		DEGREE PROGRAMME: MASTER OF COMPUTER APPLICATIONS			WITH EFFECT FROM THE ACADEMIC SESSION: 2022-23								
Abbreviated Degree	Discipline	Abbreviated Degree Programme	Semester	Course Name	Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem Credit	CA Marks		ESE Marks		Total Marks	Sem Marks	
											Practical	Theoretical	Practical	Theoretical			
MCA	MCA	MASTER OF COMPUTER APPLICATIONS	I	Numerical Methods	MT	MCAMT101	MT- 1	2 - 1 - 0	3	22		15		35	50	400	
				Financial & Organizational Management	BM	MCABM101	BM- 1	2 - 1 - 0	3		15		35	50			
				Digital Electronics & Computer Organization	IT	MCAIT101	IT- 1	2 - 1 - 0	3		15		35	50			
				Database Management System	IT	MCAIT102	IT- 2	2 - 1 - 0	3		15		35	50			
				Design & Analysis of Algorithms	IT	MCAIT103	IT- 3	2 - 1 - 0	3		15		35	50			
				Linux & Shell Programming	IT	MCAIT104	IT- 4	2 - 1 - 0	3		15		35	50			
				Lab in JavaScript, HTML and CSS	ITL	MCAITL101	ITL- 1	0 - 0 - 4	2		30		20	50			
				Lab in Framework and Linux	ITL	MCAITL102	ITL- 2	0 - 0 - 4	2		30		20	50			
			II	Theory of Computation	MT	MCAMT201	MT- 2	2 - 1 - 0	3	22		15		35	50	400	
				Systems Programming	IT	MCAIT201	IT- 5	2 - 1 - 0	3		15		35	50			
				Core & Advanced JAVA	IT	MCAIT202	IT- 6	2 - 1 - 0	3		15		35	50			
				Computer Graphics	IT	MCAIT203	IT- 7	2 - 1 - 0	3		15		35	50			
				Software Engineering & Case Tools	IT	MCAIT204	IT- 8	2 - 1 - 0	3		15		35	50			
				Computer Architecture	IT	MCAIT205	IT- 9	2 - 1 - 0	3		15		35	50			
				Lab in Assembly Language Programming and Java	ITL	MCAITL201	ITL- 3	0 - 0 - 4	2		30		20	50			
				Lab in Computer Graphics and Case Tools	ITL	MCAITL202	ITL- 4	0 - 0 - 4	2		30		20	50			
			III	Operation Research	MT	MCAMT301	MT- 3	2 - 1 - 0	3	22		15		35	50	400	
				.NET Framework & C#	IT	MCAIT301	IT- 10	2 - 1 - 0	3		15		35	50			
				Data Communication & Networks	IT	MCAIT302	IT- 11	2 - 1 - 0	3		15		35	50			
				Information Retrieval & Web Mining	IT	MCAIT303	IT- 12	2 - 1 - 0	3		15		35	50			
				Machine Learning Techniques	IT	MCAIT304	IT- 13	2 - 1 - 0	3		15		35	50			
				Multimedia Systems	IT	MCAIT305	IT- 14	2 - 1 - 0	3		15		35	50			
				MAIN PROJECT (Phase I): Dissertation and Internal Assessment	ITP	MCAITP301	ITP-1	0 - 0 - 4	2		30		20	50			
				MAIN PROJECT (Phase I): Viva-voce	ITP	MCAITP302	ITP-2	0 - 0 - 4	2		30		20	50			
			IV	Secure Computing	IT	MCAIT401	IT- 15	2 - 1 - 0	3	22		15		35	50	500	
				Embedded System Design	IT	MCAIT402	IT- 16	2 - 1 - 0	3		15		35	50			
				Digital Communication	IT	MCAIT403	IT- 17	2 - 1 - 0	3		15		35	50			
				Image Processing	IT	MCAIT404	IT- 18	2 - 1 - 0	3		15		35	50			
				Data Science & Python/R	ITE (Any Two)	MCAITE401	ITE-1, ITE-2	2 - 1 - 0	3+3=6		15		35	50+50= 100			
				Robotics & AI		MCAITE402		2 - 1 - 0			15		35				
				Distributed Computing		MCAITE403		2 - 1 - 0			15		35				
				Cloud Computing		MCAITE404		2 - 1 - 0			15		35				
Mobile Computing & Applications	MCAITE405	2 - 1 - 0		15				35									
Big Data Analysis	MCAITE406	2 - 1 - 0		15				35									
Artificial Neural Networks	MCAITE407	2 - 1 - 0		15				35									
Computer Vision	MCAITE408	2 - 1 - 0		15				35									
High Performance Computing	MCAITE409	2 - 1 - 0		15		35											
MAIN PROJECT (Phase II): Dissertation and Internal Assessment	ITP	MCAITP401		ITP-3	0 - 0 - 4	2	60		40		100						
MAIN PROJECT (Phase II): Viva-voce	ITP	MCAITP402		ITP-4	0 - 0 - 4	2	60		40		100						
Total Credit and Marks										88	1700						
Abbreviations: MT = Mathematics Course; BM = Business Management Course; IT = Information Technology Course; ITL = Information Technology Laboratory; ITP = Information Technology Project; ITE = Information Technology Elective Course; L= Lecture Hour; T= Tutorial Hour; P= Practical Hour																	