	KAZI NAZRUL UNIVERSITY			FACULTY OF SCIENCE, TECHNOLOGY AND VOCATIONAL STUDIES		DEGREE PROGRAMME: COMPUTER SCIENCE		M.SC IN	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		
M.SC	COMPUTER SCIENCE (DATA SCIENCE)	MSCCS	I	Mathematics for Data Science		C	MSCCSC101	CC-1	4 - 0 - 0	4	22		15		35	50	350
				Object Oriented Analysis and Design for Data Analytics		C	MSCCSC102	CC-2	4 - 0 - 0	4			15		35	50	
				Advanced Database Management Systems		C	MSCCSC103	CC-3	4 - 0 - 0	4			15		35	50	
				Advanced Operating Systems		C	MSCCSC104	CC-4	4 - 0 - 0	4			15		35	50	
				Analytics Lab		C	MSCCSC105	CC-5	0 - 0 - 4	2		30		20		50	
				DBMS Lab		C	MSCCSC106	CC-6	0 - 0 - 4	2		30		20		50	
				OS Lab using Linux/Unix		C	MSCCSC107	CC-7	0 - 0 - 4	2		30		20		50	
			II	Advanced Data Structures and Algorithms		C	MSCCSC201	CC-8	4 - 0 - 0	4	24		15		35	50	350
				Computer Networks		C	MSCCSC202	CC-9	4 - 0 - 0	4			15		35	50	
				Artificial Intelligence		C	MSCCSC203	CC-10	4 - 0 - 0	4			15		35	50	
				Data Mining and Data Warehouse		C	MSCCSC204	CC-11	4 - 0 - 0	4			15		35	50	
				AI Lab		C	MSCCSC205	CC-12	0 - 0 - 4	2		30		20		50	
				Data Mining Lab		C	MSCCSC206	CC-13	0 - 0 - 4	2		30		20		50	
				Choose from Pool of Minor Electives		MIE	See Pool	MIEC-1	See Pool	4			See Pool			50	
			III	Big Data Technology		C	MSCCSC301	CC-14	4 - 0 - 0	4	20		15		35	50	300
				Machine Learning		C	MSCCSC302	CC-15	4 - 0 - 0	4			15		35	50	
				Advanced Statistical Methods		C	MSCCSC303	CC-16	4 - 0 - 0	4			15		35	50	
				Big Data Technology and OLTP Lab		C	MSCCSC304	CC-17	0 - 0 - 4	2		30		20		50	
				Machine Learning and Advanced Analytics Lab		C	MSCCSC305	CC-18	0 - 0 - 4	2		30		20		50	
				Choose from Pool of Minor Electives		MIE	See Pool	MIEC-2	See Pool	4			See Pool			50	
			IV	Data Security and Privacy		C	MSCCS401	CC-19	4 - 0 - 0	4	22		15		35	50	300
				Project & Grand Viva		C	MSCCS402	CC-20	0 - 0 - 12	6		60		40		100	
				Internet of Things	(Any Three)	MJE	MSCCSMJE401	MJEC-1, MJEC-2 & MJEC-3	4 - 0 - 0	4X3=12			15		35	50X3=150	
				Green Computing			MSCCSMJE402		4 - 0 - 0				15		35		
				Cloud Computing			MSCCSMJE403		4 - 0 - 0				15		35		
				Computer Vision			MSCCSMJE404		4 - 0 - 0				15		35		
				Deep Learning			MSCCSMJE405		4 - 0 - 0				15		35		
				Natural Language Processing			MSCCSMJE406		4 - 0 - 0				15		35		
				Total Credit and Marks							88						1300

Abbreviations: C= Core; CC=Core Course; MJE= Major Elective; MJEC= Major Elective Course; MIE= Minor Elective; MIEC= Minor Elective Course; CA Marks= Continuous Assessment Marks; ESE Marks= End Semester Examination Marks; L= Lecture Hour; T= Tutorial Hour; P= Practical Hour/ Field Work and NA= Not Applicable

Pool of Minor Elective [Offered by the Department of Computer Science for all other Departments across faculties]. Student has to choose at least one Minor Elective from other departments except his/her own department.

Discipline	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		
COMPUTER SCIENCE	II	Fundamentals of Programming : C	MIE	MSCCSMIE201	MIEC-1	4 - 0 - 0	4	NA		15		35	50	NA
	III	Business Intelligence	MIE	MSCCSMIE301	MIEC-2	4 - 0 - 0	4	NA		15		35	50	NA