



KAZI NAZRUL UNIVERSITY

**P.G. COURSES: FACULTY OF SCIENCE,
TECHNOLOGY AND VOCATIONAL STUDIES ALL
SEMESTERS: Computer Science (Data Science) 2020-
21**

Course of Study Code	Discipline Code	Discipline	Semester	Course Name	Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem Credit	Internal Marks	End Sem Marks	Total Marks	Sem Marks	
MSC	MSCCS	M.Sc in Computer Science (Data Science)	I	Mathematics for Data Science	C	MSCCSC101	CC- 1	4 - 0 - 0	4	22	10	40	50	350	
				Object Oriented Analysis and Design for Data Analytics	C	MSCCSC102	CC- 2	4 - 0 - 0	4		10	40	50		
				Advanced Database Management Systems	C	MSCCSC103	CC- 3	4 - 0 - 0	4		10	40	50		
				Advanced Operating Systems	C	MSCCSC104	CC- 4	4 - 0 - 0	4		10	40	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	10	40	50	350	
				Computer Networks	C	MSCCSC202	CC- 9	4 - 0 - 0	4		10	40	50		
				Artificial Intelligence	C	MSCCSC203	CC- 10	4 - 0 - 0	4		10	40	50		
				Data Mining and Data Warehouse	C	MSCCSC204	CC- 11	4 - 0 - 0	4		10	40	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		
				Minor Elective	MIE	See Pool	MIE-1	4 - 0 - 0	4		See Pool		50		
			III	Big Data Technology	C	MSCCSC301	CC-14	4 - 0 - 0	4	20	10	40	50	300	
				Machine Learning	C	MSCCSC302	CC-15	4 - 0 - 0	4		10	40	50		
				Advanced Statistical Methods	C	MSCCSC303	CC-16	4 - 0 - 0	4		10	40	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		
				Minor Elective	MIE	See Pool	MIE-2	4 - 0 - 0	4		See Pool		50		
			IV	Data Security and Privacy	C	MSCCSC401	CC-19	4 - 0 - 0	4	22	10	40	50	50+50+50= 150	300
				Internet of Things	MJE (Any Three)	MSCCSMJE401	MJE-1, MJE-2 and MJE3	4 - 0 - 0	4+4+4=12		10	40			
				Green Computing		MSCCSMJE402		4 - 0 - 0			10	40			
				Cloud Computing		MSCCSMJE403		4 - 0 - 0			10	40			
				Computer Vision		MSCCSMJE404		4 - 0 - 0			10	40			
				Deep Learning		MSCCSMJE405		4 - 0 - 0			10	40			
				Natural Language Processing		MSCCSMJE406		4 - 0 - 0			10	40			
				Project & Grand Viva		C		MSCCS402			CC-20	0 - 0 - 12	6		
Total Credit / Marks										88				1300	



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				MINOR ELECTIVE COURSES												
Course of Study Code	Discipline Code	Discipline	Semester	Course Name	Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem Credit	Internal Marks		End Sem Marks		Total Marks	Sem Marks
MSC	MSCCS	M.Sc in Computer Science (Data Science)	II	Fundamentals of Programming (C)	MIE	MSCCSMIE201	MIE-1	4 - 0 - 0	4	NA		10		40	50	NA
MSC	MSCCS	M.Sc in Computer Science (Data Science)	III	Business Intelligence	MIE	MSCCSMIE301	MIE-2	4 - 0 - 0	4	NA		10		40	50	NA