KAZI NAZRUL UNIVERSITY			FACULTY OF SCIENCE, TECHNOLOGY AND VOCATIONAL STUDIES			DEGREE PROGRAMME: M.SC IN MATHEMATICS		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 Practical	CA Marks Theoretical	ESE Marks Practical	ESE Marks Theoretical	Total Marks	Sem Marks
			I	Real Analysis	C	MSCMATHC101	CC-1	4 - 0 - 0	4			15		35	50	
				Complex Analysis	C	MSCMATHC102	CC-2	4 - 0 - 0	4			15		35	50	
				Abstract Algebra	C	MSCMATHC103	CC-3	4 - 0 - 0	4	20		15		35	50	250
				Ordinary Differential Equations and Special Functions	C	MSCMATHC104	CC-4	4 - 0 - 0	4			15		35	50	
				Classical Mechanics and Calculus of Variations	C	MSCMATHC105	CC-5	4 - 0 - 0	4			15		35	50	
			II	Topology	C	MSCMATHC201	CC-6	4 - 0 - 0	4			15		35	50	
				Linear Algebra and Principles of Operations Research	C	MSCMATHC202	CC-7	4 - 0 - 0	4			15		35	50	
				Partial Differential Equations	C	MSCMATHC203	CC-8	4 - 0 - 0	4	20		15		35	50	250
				Numerical Analysis	C	MSCMATHC204	CC-9	4 - 0 - 0	4			15		35	50	
				Choose from Pool of Minor Electives	MIE	See Pool	MIEC-1	See Pool	4			See Pool			50	
M.SC	MATHEMATICS	MSCMATH	III	Functional Analysis	C	MSCMATHC301	CC-10	4 - 0 - 0	4			15		35	50	
				Mechanics of Continua	C	MSCMATHC302	CC-11	4 - 0 - 0	4			15		35	50	
				Computer Aided Numerical Practical	C	MSCMATHC303	CC-12	0 - 0 - 4	2		30		20		50	
				Advanced Complex Analysis I	(Any Two) MJE	MSCMATHMJE301	MJEC-1 & MJEC-2	4 - 1 - 0	5X2=10	24		15		35	50X2=100	300
				Advanced Functional Analysis I		MSCMATHMJE302		4 - 1 - 0				15		35		
				Advanced Topology		MSCMATHMJE303		4 - 1 - 0				15		35		
				Differential Geometry of Manifolds I		MSCMATHMJE304		4 - 1 - 0				15		35		
				Field Theory		MSCMATHMJE305		4 - 1 - 0				15		35		
				Operator Theory I		MSCMATHMJE306		4 - 1 - 0				15		35		
				Biomathematics I		MSCMATHMJE307		4 - 1 - 0				15		35		
				Computational Fluid Dynamics I		MSCMATHMJE308		4 - 1 - 0				15		35		
				Fluid Mechanics I		MSCMATHMJE309		4 - 1 - 0				15		35		
				Mechanics of Viscous Fluid and Boundary Layer Theory I		MSCMATHMJE310		4 - 1 - 0				15		35		
				Operations Research I		MSCMATHMJE311		4 - 1 - 0				15		35		
				Quantum Mechanics I		MSCMATHMJE312		4 - 1 - 0				15		35		
				Theory of Elasticity I		MSCMATHMJE313		4 - 1 - 0				15		35		
				Choose from Pool of Minor Electives	MIE	See Pool	MIEC-2	See Pool	4			See Pool			50	
			IV	Graph Theory	C	MSCMATHC401	CC-13	4 - 0 - 0	4			15		35	50	
				Integral Transforms & Integral Equations	C	MSCMATHC402	CC-14	4 - 0 - 0	4			15		35	50	
				Differential Geometry	C	MSCMATHC403	CC-15	4 - 0 - 0	4			15		35	50	
				Project Work	C	MSCMATHC404	CC-16	1 - 0 - 2	2		30		20		50	
				Advanced Complex Analysis II	(Any Two) MJE	MSCMATHMJE401	MJEC-3 & MJEC-4	4 - 1 - 0	5X2=10	24		15		35	50X2=100	350
				Advanced Functional Analysis II		MSCMATHMJE402		4 - 1 - 0				15		35		
				Algebraic Topology		MSCMATHMJE403		4 - 1 - 0				15		35		
				Differential Geometry of Manifolds II		MSCMATHMJE404		4 - 1 - 0				15		35		
				Semigroup Theory		MSCMATHMJE405		4 - 1 - 0				15		35		
				Operator Theory II		MSCMATHMJE406		4 - 1 - 0				15		35		
				Biomathematics II		MSCMATHMJE407		4 - 1 - 0				15		35		
				Computational Fluid Dynamics II		MSCMATHMJE408		4 - 1 - 0				15		35		
				Fluid Mechanics II		MSCMATHMJE409		4 - 1 - 0				15		35		
				Mechanics of Viscous Fluid and Boundary Layer Theory II		MSCMATHMJE410		4 - 1 - 0				15		35		
				Operations Research II		MSCMATHMJE411		4 - 1 - 0				15		35		
				Quantum Mechanics II		MSCMATHMJE412		4 - 1 - 0				15		35		
				Theory of Elasticity II		MSCMATHMJE413		4 - 1 - 0				15		35		
				Total Credit and Marks						**88**						**1100**

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 Mathematics 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 Practical	CA Marks Theoretical	ESE Marks Practical	ESE Marks Theoretical	Total Marks	Sem Marks
MATHEMATICS	II	Operations Research	MIE	MSCMATHMIE201	MIEC-1	4 - 0 - 0	4	NA		15		35	50	NA
	III	Computer Programming in C	MIE	MSCMATHMIE301	MIEC-2	4 - 0 - 0	4	NA		15		35	50	NA