KAZI NAZRUL UNIVERSITY	FACULTY OF SCIENCE	DEGREE PROGRAMME: B.Sc. HONOURS IN MATHEMATICS	WITH EFFECT FROM THE ACADEMIC SESSION: 2020-21

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
BSCH	MATHEMATICS	BSCHMTM	I	Calculus, Geometry & Differential Equations	C	BSCHMTMC101	CC-1	5 - 1 - 0	6	22		10		40	50	150 + Marks of GEC
				Algebra		BSCHMTMC102	CC-2	5 - 1 - 0	6			10		40	50	
				Choose from the Pool of Generic Elective Courses offered in 1st Semester by Honours Disciplines other than the Discipline in which Honours course is taken	GE	See Pool	GEC-1	See Pool	6			See Pool			Marks of GEC	
				Environment Studies	AE	AEE101	AECC-1	4 - 0 - 0	4			10		40	50	
			II	Real Analysis	C	BSCHMTMC201	CC-3	5 - 1 - 0	6	22		10		40	50	150 + Marks of GEC
				Differential Equations and Vector Calculus		BSCHMTMC202	CC-4	5 - 1 - 0	6			10		40	50	
				Choose from the Pool of Generic Elective Courses offered in 2nd Semester by Honours Disciplines other than the Discipline in which Honours course is taken	GE	See Pool	GEC-2	See Pool	6			See Pool			Marks of GEC	
				English/ MIL Communication	AE	See Pool	AECC-2	4 - 0 - 0	4			10		40	50	
			III	Theory of Real Functions & Introduction to Metric Spaces	C	BSCHMTMC301	CC-5	5 - 1 - 0	6	28		10		40	50	250 + Marks of GEC
				Group Theory I		BSCHMTMC302	CC-6	5 - 1 - 0	6			10		40	50	
				Numerical Methods & Numerical Methods Lab		BSCHMTMC303	CC-7	4 - 0 - 4	6		30	10	20	40	100	
				Choose from the Pool of Generic Elective Courses offered in 3rd Semester by Honours Disciplines other than the Discipline in which Honours course is taken	GE	See Pool	GEC-3	See Pool	6			See Pool			Marks of GEC	
				Logic and Sets	SE (Any One)	BSCHMTMSE301	SEC-1	4 - 0 - 0	4			10		40	50	
				Programming Language in C		BSCHMTMSE302		4 - 0 - 0				10		40		
			IV	Riemann Integration and Series of Functions		BSCHMTMC401	CC-8	5 - 1 - 0	6			10		40	50	200 + Marks of GEC
				Multivariate Calculus		BSCHMTMC402	CC-9	5 - 1 - 0	6			10		40	50	
				Ring Theory and Linear Algebra I		BSCHMTMC403	CC-10	5 - 1 - 0	6			10		40	50	
				Choose from the Pool of Generic Elective Courses offered in 4th Semester by Honours Disciplines other than the Discipline in which Honours course is taken	GE	See Pool	GEC-4	See Pool	6			See Pool			Marks of GEC	
				Graph Theory	SE (Any One)	BSCHMTMSE401	SEC-2	4 - 0 - 0	4			10		40	50	
				Object Orineted Programming in C++		BSCHMTMSE402		4 - 0 - 0				10		40		
			V	Partial Differential Equations and Applications	C	BSCHMTMC501	CC-11	5 - 1 - 0	6	24		10		40	50	200
				Ring Theory and Linear Algebra II		BSCHMTMC502	CC-12	5 - 1 - 0	6			10		40	50	
				Linear Programming and Game Theory	DSE (Any One)	BSCHMTMDSE501	DSEC-1 & DSEC-2	5 - 1 - 0	6			10		40	50	
				Group Theory II		BSCHMTMDSE502		5 - 1 - 0				10		40		
				Point Set Topology		BSCHMTMDSE503		5 - 1 - 0				10		40		
				Probability and Statistics	(Any One)	BSCHMTMDSE504		5 - 1 - 0	6			10		40	50	
				Portfolio Optimization		BSCHMTMDSE505		5 - 1 - 0				10		40		
				Boolean Algebra and Automata Theory		BSCHMTMDSE506		5 - 1 - 0				10		40		
			VI	Metric Spaces and Complex Analysis	C	BSCHMTMC601	CC-13	5 - 1 - 0	6	24		10		40	50	200
				Mechanics		BSCHMTMC602	CC-14	5 - 1 - 0	6			10		40	50	
				Number Theory	(Any One)	BSCHMTMDSE601	DSEC-3 & DSEC-4	5 - 1 - 0	6			10		40	50	
				Industrial Mathematics		BSCHMTMDSE602		5 - 1 - 0				10		40		
				Mathematical Modeling		BSCHMTMDSE603		5 - 1 - 0				10		40		
				Differential Geometry		BSCHMTMDSE604		5 - 1 - 0	6			10		40	50	
				Bio Mathematics	(Any One)	BSCHMTMDSE605		5 - 1 - 0				10		40		
				Astronomy		BSCHMTMDSE606		5 - 1 - 0				10		40		
Total Credit and Marks										148						1150 + Marks of GEC Chosen

Abbreviations: C= Core; CC=Core Course; AE= Ability Enhancement; AECC= Ability Enhancement Compulsary Course; GE= Generic Elective; GEC= Generic Elective Course; SE= Skill Enhancement; SEC= Skill Enhancement Course; DSE= Discipline Specific Elective; DSEC= Discipline Specific Elective Course; CA= Continuous Assessment, ESE= End Semester Examination, L= Lecture Hour; T= Tutorial Hour and P= Practical Hour/ Field Work and NA= Not Applicable

Generic Elective Courses (GEC) : Students of a particular Honours Course will choose from the Pool of Generic Elective Courses offered by Disciplines other than the Discipline in which Honours course is taken

Semesterwise Pool of Generic Elective Courses offered by this Discipline

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		
MATHEMATICS	I	Differential Calculus	GE	BSCHMTMGE101	GEC-1	5 - 1 - 0	6	NA		10		40	50	NA
	II	Differential Equations and Vector Calculus		BSCHMTMGE201	GEC-2	5 - 1 - 0	6			10		40	50	
	III	Algebra		BSCHMTMGE301	GEC-3	5 - 1 - 0	6			10		40	50	
	IV	Real Analysis		BSCHMTMGE401	GEC-4	5 - 1 - 0	6			10		40	50	

Pool of Communication Courses offered as Ability Enhancement Compulsary Courses

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		
English/MIL Communication	II	English Communication	(Any One)	AE	AECCE201	AECC-2	4 - 0 - 0	4	NA		10		40	50	NA
		Bengali Communication			AECCB201		4 - 0 - 0				10		40		
		Hindi Communication			AECCH201		4 - 0 - 0				10		40		
		Urdu Communication			AECCU201		4 - 0 - 0				10		40		