

KAZI NAZRUL UNIVERSITY			FACULTY OF SCIENCE			DEGREE PROGRAMME: B.Sc. HONOURS 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		ESE Marks		Total Marks	Sem Marks			
											Practical	Theoretical	Practical	Theoretical					
BSCH	MATHEMATICS	BSCHMTM	I	Calculus, Geometry & Differential Equations	C	BSCHMTMC101	CC-1	5 - 1 - 0	6	22		15		35	50	150 + Marks of GEC			
				Algebra		BSCHMTMC102	CC-2	5 - 1 - 0	6			15		35	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			15		35	50				
			II	Real Analysis	C	BSCHMTMC201	CC-3	5 - 1 - 0	6	22		15		35	50	150 + Marks of GEC			
				Differential Equations and Vector Calculus		BSCHMTMC202	CC-4	5 - 1 - 0	6			15		35	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			15		35	50				
			III	Multivariable Calculus	C	BSCHMTMC301	CC-5	5 - 1 - 0	6	28		15		35	50	200 + Marks of GEC			
				Group Theory		BSCHMTMC302	CC-6	5 - 1 - 0	6			15		35	50				
				Probability and Statistics		BSCHMTMC303	CC-7	5 - 1 - 0	6			15		35	50				
				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	
				Mathematical Logic	(Any One)	SE	BSCHMTMSE301	SEC-1	4 - 0 - 0		4		15		35		50		
			Programming Language in C	SE		BSCHMTMSE302	4 - 0 - 0			15			35						
			IV	Mechanics	C	BSCHMTMC401	CC-8	5 - 1 - 0	6	24		15		35	50	200 + Marks of GEC			
				Linear Algebra		BSCHMTMC402	CC-9	5 - 1 - 0	6			15		35	50				
				Partial Differential Equations and Calculus of Variations		BSCHMTMC403	CC-10	5 - 1 - 0	6			15		35	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	(Any One)	SE	BSCHMTMSE401	SEC-2	4 - 0 - 0		4		15		35		50		
			Object Oriented Programming in C++	SE		BSCHMTMSE402	4 - 0 - 0			15			35						
			V	Set Theory and Metric Spaces	C	BSCHMTMC501	CC-11	5 - 1 - 0	6	24		15		35	50	200			
				Advanced Algebra		BSCHMTMC502	CC-12	5 - 1 - 0	6			15		35	50				
				Tensors and Differential Geometry	(Any Two)	DSE	BSCHMTMSE501	DSEC-1 & DSEC-2	5 - 1 - 0		6X2		15		35		50x2		
				Integral Transforms and Fourier Analysis		DSE	BSCHMTMSE502		5 - 1 - 0				15		35				
Linear Programming and Game Theory	DSE	BSCHMTMSE503		5 - 1 - 0			15					35							
Special Theory and Relativity	DSE	BSCHMTMSE504		5 - 1 - 0			15					35							
VI	Complex Analysis	C	BSCHMTMC601	CC-13	5 - 1 - 0	6	24		15		35	50	250						
	Numerical Methods & Numerical Methods Lab		BSCHMTMC602	CC-14	4 - 0 - 4	6			30	15	20	35		100					
	Discrete Mathematics	(Any Two)	DSE	BSCHMTMSE601	DSEC-3 & DSEC-4	5 - 1 - 0		6X2		15		35		50x2					
	Number Theory		DSE	BSCHMTMSE602		5 - 1 - 0				15		35							
	Advanced Mechanics		DSE	BSCHMTMSE603		5 - 1 - 0				15		35							
	Bio Mathematics		DSE	BSCHMTMSE604		5 - 1 - 0				15		35							
Total Credit and Marks										148	1150 + Marks of GEC Chosen								
Abbreviations: C= Core; CC=Core Course; AE= Ability Enhancement; AECC= Ability Enhancement Compulsory 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		15		35	50	NA
	II	Differential Equations and Vector Calculus			BSCHMTMGE201	GEC-2	5 - 1 - 0	6			15		35	50	
	III	Linear and Modern Algebra			BSCHMTMGE301	GEC-3	5 - 1 - 0	6			15		35	50	
	IV	Basics in Real Analysis			BSCHMTMGE401	GEC-4	5 - 1 - 0	6			15		35	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	(Any One)		AE	AECCE201	AECC-2	4 - 0 - 0	4	NA		15		35	50	NA
					AECCE201		4 - 0 - 0				15		35		
					AECCH201		4 - 0 - 0				15		35		
					AECCH201		4 - 0 - 0				15		35		