



KAZI NAZRUL UNIVERSITY

FACULTY OF SCIENCE

DEGREE
WITH M
WITH M
DEGREE

Abbreviated Degree		Abbreviated Degree Programme	Semester	Course Name	Course Type
			I	Classical Algebra, Calculus and Analytical Geometry	MAJOR
				MINOR COURSE- Choose from the Pool of Minor Courses offered in 1st Semester by the other Disciplines	MINOR
				Choose from the Pool of Multidisciplinary Courses offered in 1st Semester	MD
				English/MIL Communication	AEC
				Graph Theory	SEC
			II	Linear Algebra I, Ordinary Differential Equations and Vector Calculus	MAJOR
				MINOR COURSE- Minor Course opted for in the 1st semester should be continued in the 2nd semester with syllabus content of 2nd semester	MINOR
				Choose from the Pool of Multidisciplinary Courses offered in 2nd Semester	MD
				Environment Studies	VAC
				Mathematical Tools and Latex	SEC
Student exiting the programmes after securing 40 credits will be awarded UG Certificate in the addition to					
				Real Analysis I	MAJOR
				Abstract Algebra I and Number Theory	MAJOR

**BSC / BSCH /
BSCHR MATHEMATI
CS**

BSCMTM

III	MINOR COURSE- Choose from the Pool of Minor Courses offered in 3rd Semester by the other Disciplines		MINOR
	Choose from the Pool of Multi-Disciplinary Courses offered in 3rd Semester		MD
	English Communication		AE
IV	Multivariate Calculus		MAJOR
	Linear Algebra II and Tensor Calculus		MAJOR
	MINOR COURSE- Choose from the Pool of Minor Courses offered in 4th Semester by the other Disciplines		MINOR
	Programming in C		SEC
	Health and Wellness	(Any One)	VAC
	Social Values and Ethics		
	Digital and Technological Solutions		
Understanding India			
Students exiting the programmes after securing 80 credits will be awarded UG Diploma in the			
V	Real Analysis II		MAJOR
	Probability, Statistics and Linear Programming Problem		MAJOR
	Numerical Methods and Numerical Lab		MAJOR
	MINOR COURSE- Choose from the Pool of Minor Courses offered in 5th Semester by the other Disciplines		MINOR
VI	Partial Differential Equations and Calculus of Variations		MAJOR
	Metric Space and Complex Analysis		MAJOR
	Mechanics		MAJOR

		Mathematics in India: From Vedic Period to Modern Times		MAJOR
		Summer Internship		SI
		Total Credit and Marks		TOTAL CREDIT

Students who want to undertake 3-year UG

4 YEARS DEGREE WITH HONOURS	VII	Integral Transforms and Integral Equations		MAJOR
		General Topology		MAJOR
		Functional Analysis		MAJOR
		Advanced Differential Equations and Special Functions		MAJOR
		MINOR COURSE- Choose from the Pool of Minor Courses offered in 7th Semester by the other Disciplines		MINOR
	VIII	Operations Research		MAJOR
		Differential Geometry		MAJOR
		Classical Mechanics		MAJOR
		Abstract Algebra II		MAJOR
		MINOR COURSE- Choose from the Pool of Minor Courses offered in 8th Semester by the other Disciplines		MINOR
		Total Credit and Marks		TOTAL CREDIT

Students will be awarded UG Degree (Ho

		Integral Equations and Integral Transforms		MAJOR
		General Topology		MAJOR

		4 YEARS DEGREE WITH HONOURS WITH RESEARCH	VII	Functional Analysis		MAJOR			
				Advanced Differential Equations and Special Functions		MAJOR			
				MINOR COURSE- Choose from the Pool of Minor Courses offered in 7th Semester by the other Disciplines		MINOR			
			VIII	Operations Research		MAJOR			
				RESEARCH PROJECT / DISSERTATION		RP			
MINOR COURSE- Choose from the Pool of Minor Courses offered in 8th Semester by the other Disciplines		MINOR							
			Total Credit and Marks						

Students will be awarded UG Degree (Honours)

Abbreviations: MJC= Major (Core); AE= Ability Enhancement; AECC= Ability Enhancement Compulsory Course; MNC= Minor (Core); SE= S Added Course; CA= Continuous Assessment, ESE= End Semester Examination, L= Lect

Note: Minor Courses (MNC) : Student of a particular UG Course will choose from the Pool of Minor Courses offered by disciplines other than the n semester ie. the student will continue studying the same minor course, opted in the 1st semester. Explanation: If a student of PHYSICS Major, opts Chemistry for 2nd semester as Minor Course in the 2nd semester.

Semesterwise Pool of Multidisciplinary Courses offered by this Discipline for other Honours Disciplines

Discipline	Semester	Course Name	Course Type
	I	Physical science (Dept. of Physics/Chemistry)	(Any One)
		E-Commerce (Dept. of Commerce/BBA)	
		Human Rights (Dept. of Pol Science)	
		Disaster Management (Dept. of Geography/ Geology)	

MD		Film Appreciation (Department of English)		MD
	II	Business Environment (Dept of Commerce)	(Any One)	
		Adhunik Bangla Sahitya (Dept. of Bengali)		
		Adhunik Hindi sahitya (Dept. of Hindi)		
		Application of Bio-Science (Dept of Zoology/ Botany/ Microbiology)		
		Educational Philosophy (Dept. of Education)		
		Sports and Fitness (Dept. of Physical Education)		
	III	Mathematical Science (Dept. of Mathematics)	(Any One)	
		Cultural History of Bengal (Dept. of History)		
		Business Management (Dept. of BBA)		
		Nutrition and Public Health (Dept. of Nutrition)		
		Stress Management (Dept. of Psychology/ Philosophy/Sociology)		

Pool of Communication Courses offered as Ability Enhancement Compulsory Courses

Discipline	Semester	Course Name	Course Type
English/MIL Communication	I	English Communication	(Any One)
		Bengali Communication	
		Hindi Communication	
		Urdu Communication	

Semesterwise Pool of Minor Courses offered by this Discipline for other Honours Disciplines

Discipline	Semester	Course Name	Course Type
	I	Classical Algebra, Calculus and Analytical Geometry	

MATHEMATICS			II	Linear Algebra I, Ordinary Differential Equations and Vector Calculus	MINOR
			III	Real Analysis and Complex Analysis	
			IV	Abstract Algebra and Linear Algebra II	
			V	Numerical Analysis and Partial Differential Equations	
			VII	Mechanics	
			VIII	Probabilty, Statistics and Linear Programming Problem	

PROGRAMME: 3 YEARS DEGREE MATHEMATICS/4 YEARS DEGREE MATHEMATICS HONOURS/ 4 YEARS DEGREE WITH MATHEMATICS HONOURS WITH RESEARCH				WITH EFFECT FROM THE ACADEMIC SESSION: 2023-24						
Course Code	Course Details	L - T - P	Course Credit	Sem Credit	CA Marks		ESE Marks		Total Marks	Sem Marks
					Practical	Theoretical	Practical	Theoretical		
BSCMTMMJ101	MJC-1	4 - 1 - 0	5	20		30		70	100	350
See Pool	MNC-1	4 - 1 - 0	5			30		70	100	
See Pool	MDC-1	3 - 0 - 0	3			15		35	50	
See Pool	AEC-1	4 - 0 - 0	4			15		35	50	
BSCMTMSE101	SEC-1	2 - 1 - 0	3			15		35	50	
BSCMTMMJ201	MJC-2	4 - 1 - 0	5	20		30		70	100	350
Corresponding Course Code of Minor opted in 1st Semester	MNC-2	4 - 1 - 0	5			30		70	100	
See Pool	MDC-2	3 - 0 - 0	3			15		35	50	
VAC-201	VAC-1	4 - 0 - 0	4			15		35	50	
BSCMTMSE201	SEC-2	2 - 1 - 0	3			15		35	50	
The relevant Discipline/Subject provided they secure 4 credits in work based vocational courses offered during summer term or internship / Apprenticeship. In addition, 5 credits from skill-based courses earned during first and second semester										
BSCMTMMJ301	MJC-3	4 - 1 - 0	5			30		70	100	
BSCMTMMJ302	MJC-4	4 - 1 - 0	5			30		70	100	

See Pool	MNC-3	4 - 1 - 0	5	22		30		70	100	400
See Pool	MD-3	2 - 1 - 0	3			15		35	50	
See Pool	AECC-2	4 - 0 - 0	4			15		35	50	
BSCMTMMJ401	MJC-5	4 - 1 - 0	5	22		30		70	100	400
BSCMTMMJ402	MJC-6	4 - 1 - 0	5			30		70	100	
See Pool	MNC-4	4 - 1 - 0	5			30		70	100	
BSCMTMSE401	SEC-3	2 - 1 - 0	3			15		35	50	
VAC-401	VAC-2	4 - 0 - 0	4			15		35	50	
VAC-402		4 - 0 - 0				15		35	50	
VAC-403		4 - 0 - 0				15		35	50	
VAC-404		4 - 0 - 0				15		35	50	
relevant Discipline/Subject provided they secure additional 4 credits in skill based vocational courses offered during first year or second year summer term										
BSCMTMMJ501	MJC-7	4 - 1 - 0	5	20		30		70	100	400
BSCMTMMJ502	MJC-8	4 - 1 - 0	5			30		70	100	
BSCMTMMJ503	MJC-9	3 - 0 - 4	5		30	15	20	35	100	
See Pool	MNC-5	4 - 1 - 0	5			30		70	100	
BSCMTMMJ601	MJC-10	4 - 1 - 0	5	22		30		70	100	450
BSCMTMMJ602	MJC-11	4 - 1 - 0	5			30		70	100	
BSCMTMMJ603	MJC-12	4 - 1 - 0	5			30		70	100	

BSCMTMMJ604	MJC-13	4 - 1 - 0	5			30		70	100	
BSCMTMSI601	SI-1	0 - 0 - 4	2		15		35		50	
				126	TOTAL MARKS					2350

programme will be awarded UG Degree in the relevant Discipline / Subject upon securing 126 credits

BSCMTMMJ701	MJC-14	4 - 1 - 0	5	25		30		70	100	500
BSCMTMMJ702	MJC-15	4 - 1 - 0	5			30		70	100	
BSCMTMMJ703	MJC-16	4 - 1 - 0	5			30		70	100	
BSCMTMMJ704	MJC-17	4 - 1 - 0	5			30		70	100	
See Pool	MNC-6	4 - 1 - 0	5			30		70	100	
BSCMTMMJ801	MJC-18	4 - 1 - 0	5	22		30		70	100	500
BSCMTMMJ802	MJC-19	3 - 1 - 0	4			30		70	100	
BSCMTMMJ803	MJC-20	3 - 1 - 0	4			30		70	100	
BSCMTMMJ804	MJC-21	3 - 1 - 0	4			30		70	100	
See Pool	MNC-7	4 - 1 - 0	5			30		70	100	
				173	TOTAL MARKS					3350

hours) in the relevant Discipline / Subject provided they secure 173 credits

BSCMTMMJ701	MJC-14	4 - 1 - 0	5			30		70	100	
BSCMTMMJ702	MJC-15	4 - 1 - 0	5			30		70	100	

BSCMTMMJ703	MJC-16	4 - 1 - 0	5	25		30		70	100	500
BSCMTMMJ704	MJC-17	4 - 1 - 0	5			30		70	100	
See Pool	MNC-6	4 - 1 - 0	5			30		70	100	
BSCMTMMJ801	MJC-18	4 - 1 - 0	5	22		30		70	100	500
BSCMTMRP801	RP-1	4 - 0 - 16	12		140	30	60	70	300	
See Pool	MNC-7	4 - 1 - 0	5			30		70	100	
TOTAL CREDIT				173	TOTAL MARKS					3350

with Research in the relevant Discipline / Subject provided they secure 173 credits

Skill Enhancement; SEC= Skill Enhancement Course; MD= Multidisciplinary Course; SI - Summer Internship; RP= Research Project; VAC= Value
 ure Hour; T= Tutorial Hour and P= Practical Hour/ Field Work and NA= Not Applicable

major discipline opted by the student. The student is required to opt the same Minor Course (designed for 2nd semester) which he had opted in 1st
 for a Minor Course offered by Chemistry in 1st semester then that student is required to continue with the corresponding Minor Course offered by

Course Code	Course Details	L - T - P	Course Credit	Sem Credit	CA Marks		ESE Marks		Total Marks	Sem Marks
					Practical	Theoretical	Practical	Theoretical		
	MD-1	3 - 0 - 0	3			15		35	50	
		3 - 0 - 0				15		35		
		3 - 0 - 0				15		35		
		3 - 0 - 0				15		35		

					15		35		
		3 - 0 - 0			15		35		
	MD-2	3 - 0 - 0	3		15		35	50	
		3 - 0 - 0			15		35		
		3 - 0 - 0			15		35		
		3 - 0 - 0			15		35		
		3 - 0 - 0			15		35		
		3 - 0 - 0			15		35		
	MD-3	3 - 0 - 0	3		15		35	50	
		3 - 0 - 0			15		35		
		3 - 0 - 0			15		35		
		3 - 0 - 0			15		35		
		3 - 0 - 0			15		35		
		3 - 0 - 0			15		35		

Course Code	Course Details	L - T - P	Course Credit	Sem Credit	CA Marks		ESE Marks		Total Marks	Sem Marks
					Practical	Theoretical	Practical	Theoretical		
AECCE101	AECC-2	4 - 0 - 0	4	NA		15		35	50	NA
AECCEB101		4 - 0 - 0				15		35		
AECCH101		4 - 0 - 0				15		35		
AECCEU101		4 - 0 - 0				15		35		

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Course Code	Course Details	L - T - P	Course Credit	Sem Credit	CA Marks		ESE Marks		Total Marks	Sem Marks
					Practical	Theoretical	Practical	Theoretical		
BSCMTMMN101	MNC-1	4 - 1 - 0	5			30		70	100	

