KAZI NAZ	RUL UNIVERSITY		FACULTY OF SCIENCE	DEGREE PROGRAMME: 3 WITH MATHEMATICS/4 Y WITH MATHEMATICS HO DEGREE WITH MATHEMA WITH RESEAL			ARS DEGREE DURS/ 4 YEARS ICS HONOURS		WITH EFFECT FROM THE ACADEMIC SESSION: 2023-24								
											CA	Marks	ESE	Marks			
Abbreviated Degree	Abbreviated Degree Programme	Semester	Course Name		Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem Credit	Practical	Theoretical	Practical	Theoretical	Total Marks	Sem Marks	
			Classical Algebra, Calculus and Analytical Geometry		MAJOR	BSCMTMMJ101	MJC-1	4 - 1 - 0	5			30		70	100		
		ı	MINOR COURSE- Choose from the Pool of Minor Courses offered in 1st Semester by the other Disciplines		MINOR	See Pool	MNC-1	4 - 1 - 0	5	20		30		70	100	350	
		-	Choose from the Pool of Multidisciplinary Courses offered in 1st Semester		MD	See Pool	MDC-1	3 - 0 - 0	3	20		15		35	50	230	
			English/MIL Communication		AEC	See Pool	AEC-1	4 - 0 - 0	4			15		35	50	1	
			Graph Theory		SEC	BSCMTMSE101	SEC-1	2 - 1 - 0	3	1		15		35	50	1	
			Linear Algebra I, Ordinary Differential Equations and Vector Calculus		MAJOR	BSCMTMMJ201	MJC-2	4 - 1 - 0	5			30		70	100		
		п	MINOR COURSE- Minor Course opted for in the 1st semester should be continued in the 2nd semester with syllabus content of 2nd semester		MINOR	Corresponding Course Code of Minor opted in 1st Semester	MNC-2	4 - 1 - 0	5	20		30		70	100	350	
			Choose from the Pool of Multidisciplinary Courses offered in 2nd Semester		MD	See Pool	MDC-2	3 - 0 - 0	3			15		35	50		
			Environment Studies		VAC	VAC-201	VAC-1	4 - 0 - 0	4	1		15		35	50	1	
i			Mathematical Tools and Latex		SEC	BSCMTMSE201	SEC-2	2 - 1 - 0	3			15		35	50	1	
			Real Analysis I		MAJOR	redits from skill-based cou BSCMTMMJ301	MJC-3	4 - 1 - 0	5			30		70	100		
				Abstract Algebra I and Number Theory		MAJOR	BSCMTMMJ302	MJC-4	4 - 1 - 0	5	1		30		70	100	] '
		Ш	MINOR COURSE- Choose from the Pool of Minor Courses offered in 3rd Semester by the other Disciplines		MINOR	See Pool	MNC-3	4 - 1 - 0	5	22		30		70	100	400	
	BSCMTM		Choose from the Pool of Multi-Disciplinary Courses offered in 3rd Semester		MD	See Pool	MD-3	2 - 1 - 0	3			15		35	50		
			English Communication		AE	See Pool	AECC-2	4 - 0 - 0	4			15		35	50		
i			Multipopieta Calandar		MAJOR	DCCMTN D 41401	MIC 5	4 1 0	-			20		70	100		
			Multivariate Calculus Linear Algebra II and Tensor Calculus		MAJOR MAJOR	BSCMTMMJ401 BSCMTMMJ402	MJC-5 MJC-6	4 - 1 - 0	5	-	-	30 30		70 70	100	+	
		IV	MINOR COURSE- Choose from the Pool of Minor Courses offered in 4th Semester by the other Disciplines		MINOR	See Pool	MNC-4	4-1-0	5	22		30		70	100	400	
			Programming in C		SEC	BSCMTMSE401	SEC-3	2 - 1 - 0	3	1		15		35	50	1	
			VALUE ADDED COURSE- Choose from the Pool of VAC offered in 4th Semester	(Any One)	VA	See Pool	VAC-2	See Pool	4				See Pool		1		
		Stude	ents exiting the programmes after securing 80 credits v	will be awarded UC	3 Diploma in t	he relevant Discipline/Su	bject provided they	secure additi	onal 4 credi	ts in skill b	ased vocation	nal courses offer	red during fir	st year or second	d year summ	er term	
			Real Analysis II		MAJOR	BSCMTMMJ501	MJC-7	4 - 1 - 0	5			30		70	100	1	
			Probability, Statistics and Linear Programming Problem		MAJOR	BSCMTMMJ502	MJC-8	4 - 1 - 0	5			30		70	100		
		v	Numerical Methods and Numerical Lab		MAJOR	BSCMTMMJ503	MJC-9	3 - 0 - 4	5	20	30	15	20	35	100	400	
			MINOR COURSE- Choose from the Pool of Minor Courses offered in 5th Semester by the other				-		1								

BSC / BSCH /	MATHEMATI																
BSCHR	CS			Partial Differential Equations and Calculus of Variations		MAJOR	BSCMTMMJ601	MJC-10	4 - 1 - 0	5			30		70	100	
				Metric Space and Complex Analysis		MAJOR	BSCMTMMJ602	MJC-11	4 - 1 - 0	5			30		70	100	İ
			VI	Mechanics		MAJOR	BSCMTMMJ603	MJC-12	4 - 1 - 0	5	22		30		70	100	450
			,,	Mathematics in India: From Vedic Period to Modern Times		MAJOR	BSCMTMMJ604	MJC-13	4 - 1 - 0	5	22		30		70	100	430
				Summer Internship	1	SI	BSCMTMSI601	SI-1	0 - 0 - 4	2		15		35		50	
				Total Credit and Marks		TOTAL CREDIT					126	TOTAL MARKS					2350
				Students w	ho want to underta	ke 3-year U	G programme will be a	warded UG Degre	e in the releva	nt Discipli	ne / Subjec	ct upon secur	ing 126 credit	s			
				Integral Transforms and Integral Equations		MAJOR	BSCMTMMJ701	MJC-14	4 - 1 - 0	5			30		70	100	
				General Topology		MAJOR	BSCMTMMJ702	MJC-15	4 - 1 - 0	5			30		70	100	<u> </u>
				Functional Analysis		MAJOR	BSCMTMMJ703	MJC-16	4 - 1 - 0	5			30		70	100	<u> </u>
			VII	Advanced Differential Equations and Special Functions		MAJOR	BSCMTMMJ704	MJC-17	4 - 1 - 0	5	25		30		70	100	500
		AVE AND DEGREE		MINOR COURSE- Choose from the Pool of Minor Courses offered in 7th Semester by the other Disciplines		MINOR	See Pool	MNC-6	4 - 1 - 0	5			30		70	100	
		4 YEARS DEGREE WITH HONOURS															
		WITH HUNGURS		Operations Research		MAJOR	BSCMTMMJ801	MJC-18	4 - 1 - 0	5			30		70	100	
				Differential Geometry		MAJOR	BSCMTMMJ802	MJC-19	3 - 1 - 0	4	1		30		70	100	
				Classical Mechanics		MAJOR	BSCMTMMJ803	MJC-20	3 - 1 - 0	4			30		70	100	
			VIII	Abstract Algebra II		MAJOR	BSCMTMMJ804	MJC-21	3 - 1 - 0	4	22		30		70	100	500
				MINOR COURSE- Choose from the Pool of Minor Courses offered in 8th Semester by the other Disciplines		MINOR	See Pool	MNC-7	4 - 1 - 0	5			30		70	100	
				Total Credit and Marks		TOTAL CREDIT					173	TOTAL MARKS					3350
		Students will be awarded UG Degree (Honours) in the relevant Discipline / Subject provided they secure 173 credits															
				Integral Equations and Integral Transforms		MAJOR	BSCMTMMJ701	MJC-14	4 - 1 - 0	5			30		70	100	
				General Topology		MAJOR	BSCMTMMJ702	MJC-15	4 - 1 - 0	5	]		30		70	100	1
				Functional Analysis		MAJOR	BSCMTMMJ703	MJC-16	4 - 1 - 0	5			30		70	100	1
			VII	Advanced Differential Equations and Special Functions		MAJOR	BSCMTMMJ704	MJC-17	4 - 1 - 0	5	25		30		70	100	500
		4 YEARS DEGREE WITH HONOURS WITH RESEARCH		MINOR COURSE- Choose from the Pool of Minor Courses offered in 7th Semester by the other Disciplines		MINOR	See Pool	MNC-6	4 - 1 - 0	5			30		70	100	
				Operations Research		MAJOR	BSCMTMMJ801	MJC-18	4 - 1 - 0	5	1		30		70	100	1
				RESEARCH PROJECT / DISSERTATION		RP	BSCMTMRP801	RP-1	4 - 0 - 16	12	1	140	30	60	70	300	1
			VIII	MINOR COURSE- Choose from the Pool of Minor Courses offered in 8th Semester by the other Disciplines		MINOR	See Pool	MNC-7	4 - 1 - 0	5	22		30		70	100	500
				Total Credit and Marks			TOT	AL CREDIT	1 1		173		т	OTAL MAR	KS	1	3350
<del>                                     </del>			l		1 1770 5	/TT		-	/6.1.			1 100			-		
				Students will be	awarded UG Degre	ee (monours	s) with Research in the	reievani Discipline	:/ Subject pro	viaea tney	secure 173	creaits					

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

Semesterwise Pool of Minor Courses offered by this Dis	cipline for o	ther Honours Disciplines												
			Course				C	Sem	CA	Marks	ESE Marks		Total	
Discipline	Semester	Course Name		Course Code	Course Details	L-T-P	Course Credit	Sem Credit	Practical	Theoretical	Practical	Theoretical	Marks S	Sem Marks
									Practical	Theoretical	Practical	Theoretical		
	I	Classical Algebra, Calculus and Analytical Geometry	MINOR	BSCMTMMN101	MNC-1	4 - 1 - 0	5			30		70	100	NA
	II	Linear Algebra I, Ordinary Differential Equations and Vector Calculus		BSCMTMMN201	MNC-2	4 - 1 - 0	5	NA		30		70	100	
	III	Real Analysis and Complex Analysis		BSCMTMMN301	MNC-3	4 - 1 - 0	5			30		70	100	
MATHEMATICS	IV	Abstract Algebra and Linear Algebra II		BSCMTMMN401	MNC-4	4 - 1 - 0	5			30		70	100	
	V	Numerical Analysis and Partial Differential Equations		BSCMTMMN501	MNC-5	4 - 1 - 0	5			30		70	100	
	VII	Mechanics		BSCMTMMN701	MNC-6	4 - 1 - 0	5			30		70	100	
	VIII	Probabilty, Statistics and Linear Programming Problem		BSCMTMMN801	MNC-7	4 - 1 - 0	5			30		70	100	
		•			<del></del>								•	

		Semester wise Pool of Multidisciplin			Course			Course	Sem	CAI	Marks	ESE	Marks	Total	
Discipline	Semester	Course Name		Type	Course Code	Course Details	L - T - P	Credit	Credit		Theoretical			Marks	Sem Ma
		Physical Science((From Physics)			MDC101		3 - 0 - 0			`	15		35		1
		E-Commerce(From BBA)			MDC102		3 - 0 - 0				15		35		
		Human Rights(From Political Science)			MDC103		3 - 0 - 0				15		35	İ	
		Disaster Management (From Geography)			MDC104		3 - 0 - 0				15		35		
	Fitness And Wellness (From Physical Education)			MDC105		3 - 0 - 0				15		35			
		Application Of Bio-Science (From Zoology)	(Any One)		MDC106		3 - 0 - 0				15		35		
		Film Appreciation (From English)			MDC107		3 - 0 - 0				15		35		
		Accounting For All (From Commerce)			MDC108		3 - 0 - 0				15		35	İ	
	T	History Of Ancient Bengal (From History)			MDC109	MD-1	3 - 0 - 0	3			15		35	50	
	1	Bangla Sahitya O Sanskriti(From Bengali)			MDC110	14112-1	3 - 0 - 0	,			15		35	50	
		Money And Banking (From Economics)			MDC111		3 - 0 - 0				15		35		
		Patrakarita (From Hindi)			MDC112		3 - 0 - 0				15		35		
		Business Mathematics (Mathematics)			MDC113		3 - 0 - 0				15		35		
		Indian Society (From Sociology)			MDC114		3 - 0 - 0				15		35		
		Yoga For Daily Life (Philosophy)			MDC115		3 - 0 - 0				15		35		
		Electronic Measurements (Electronics)			MDC116	-	3 - 0 - 0				15		35		
		C			MDC117		3 - 0 - 0				15		35		
		Introduction To Local Flora (Dept Of Botany)			MDC118		3 - 0 - 0				15		35		
		Information And Media Literacy			MDC119		3 - 0 - 0		i		15		35		
		Mathematical Science (From Mathematics)			MDC201		3 - 0 - 0		i		15		35		-
		Business Environment (From BBA)			MDC202		3 - 0 - 0				15		35	†	
		Basic Statistics (Statistics)			MDC202		3-0-0				15		35		
		Cultural History of Bengal (From History)			MDC204		3 - 0 - 0				15		35		
MULTI DISCIPLINARY		Personal Finance (From Commerce)			MDC205		3 - 0 - 0		NA		15		35		
		Nutrition And Public Health (From Nutrition)			MDC206		3 - 0 - 0				15		35		
		Educational Philosophy (From Education)			MDC207		3 - 0 - 0				15		35		
		Stress Management (From Psychology)			MDC208		3 - 0 - 0				15		35		
	п	Social Media and Cyber Awareness (From	(Any One)		MDC209	MD-2	3 - 0 - 0	3			15		35	50	
		Computer Science) Adhunik Bangla Sahitya (From Bengali)			MDC210		3 - 0 - 0				15		35		
		Nazrul Sangeet (Nazrul Sangeet)			MDC211		3-0-0				15		35		
		E-Waste Management (Electronics)			MDC212		3-0-0				15		35		
		Chemical Science (Chemistry)			MDC212		3 - 0 - 0				15		35		
		Critical Survey of Sanskrit Language (Sanskrit)			MDC214		3 - 0 - 0				15		35		
		Asnaf- E -Adab (Dept of Urdu)			MDC215		3 - 0 - 0				15		35		
		Anuvad Vigyan (Deptt. Of Hindi)			MDC216		3 - 0 - 0				15		35		
		Herbal Home Remedies (Dept of Botany)			MDC217		3 - 0 - 0				15		35		1

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															4
		Bharatavarsha—A Land of Rare Natural Endowments (From Geography)	(Any One)	-	MDC301		3 - 0 - 0				15		35		
		The Vedangas and Other Streams of Indian													
		Knowledge System (From Sanskrit)			MDC302		3 - 0 - 0				15		35	50	
		Indian Astronomy (From Physics)			MDC303		3 - 0 - 0				15		35		
	III	Indian Health Sciences (From Zoology)			MDC304	MD-3	3 - 0 - 0	3			15		35		
		Indian Mathematics (From Mathematics)			MDC305		3 - 0 - 0				15		35		
		Indian Education (From Education)			MDC306		3 - 0 - 0				15		35		
		Indian Polity and Economy (From Political Sc)			MDC307	_	3 - 0 - 0				15		35		
		Methodology Of Indian Knowledge System			MDC308		3 - 0 - 0				15		35		
		(Philosophy)													
		Pool of Com	munication Course	s offered as A	bility Enhancement C	ourses in the SEME	STER-I								
					Course			Course	Sem	CA !	A Marks ES		Marks	Total	
Discipline	Semester	Course Name		Type	Course Code	Course Details	L - T - P	Credit	Credit	Practical	Theoretical	Practical	Theoretical	Marks	Sem Mark
		English Communication			AECE101		4 - 0 - 0				15		35		
English/MIL Communication	ī	Bengali Communication	(Any One)	AE	AECB101	AEC-1	4 - 0 - 0	4 NA	NA		15		35	50	NA
Zingiloto (vinniamento)	_	Hindi Communication	4	′   · · ·	AECH101	- 1250 1	4 - 0 - 0		1111		15		35	20	1,1.1
		Urdu Communication			AECU101		4 - 0 - 0				15		35		
			Pool of Volue	Added Cour	ses offered in the SEM	ECTED IV									
			Course					Course	Sem	CA Marks		ESE Marks		Total	
Discipline	Semester	Course Name		Type	Course Code	Course Details	L - T - P	Credit	Credit					Marks	Sem Mark
		Yoga And Health (From Physiology)			VAC401		4 - 0 - 0			`	15		35		
		Social Values and Ethics (From Philosophy)			VAC402		4 - 0 - 0				15		35		
		Digital And Technological Solutions (From			VAC403		4 - 0 - 0	4			15		35	İ	
		Computer Science)													
VALUE ADDED	IV	Understanding India (From History)	(Any One)		VAC404	VAC-2	4 - 0 - 0		NA		15		35	50	NA
		Sustainable Development: Issues And Challenges (From Economics)			VAC405		4 - 0 - 0				15		35		
		Goods And Services Tax (From Commerce)	1		VAC406		4 - 0 - 0				15		35		
		Basics of Indian Constitution (From Political	1								1.3				
		Science)			VAC407		4 - 0 - 0				15		35		