K	AZI NAZRUL	UNIVERSITY		FACULTY OF SCIENCE, TECHNOLOGY & VOCATIONAL STUDIES		egree /4-Year UC ear UG Degree (H Research)				WITH E	FFECT FROM	THE ACADEM	IC SESSION:	2023-24		
Abbrevia			i.								CA M	arks	ESE I	Marks		
ted Degree	Discipline	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	
				Choose from the Pool of Minor Courses offered in 1st Semester by other Disciplines within the faculty	MINOR	See Pool	MNC-1	See Pool	5			See P	ool		100	
			I	Choose from the Pool of Multidisciplinary Courses offered in 1st Semester across the faculties	MD	See Pool	MDC-1	2 - 1 - 0	3	20		15		35	50	350
				English/MIL Communication	AE	See Pool	AEC-1	4 - 0 - 0	4			15		35	50	
				Graph Theory	SE	BSCMTMSE101	SEC-1	2 - 1 - 0	3			15		35	50	
					1			,						<del>, , , , , , , , , , , , , , , , , , , </del>		_
				Linear Algebra - I, Ordinary Differential Equations and Vector Calculus	MAJOR	BSCMTMMJ201	MJC-2	4 - 1- 0	5			30		70	100	
			П	Choose from the Pool of Minor Courses offered in 2nd Semester by other Disciplines within the faculty	MINOR	Corresponding Course Code of Minor opted in 1st Semester	MNC-2	See Pool	5	20		See Po	ool		100	350
				Choose from the Pool of Multidisciplinary Courses offered in 2nd Semester across the faculties	MD	See Pool	MDC-2	2 - 1 - 0	3			15		35	50	
				Environment Studies	VA	VA201	VAC-1	4 - 0 - 0	4		15		35	50		
				Mathematical Tools and Latex	SE	BSCMTMSE201	SEC-2	2 - 1- 0	3			15		35	50	
								1						-		
				Student exiting the programmes after securing 40 credits with	Il be awarded UG Certificate	in the relevant Discipline/S	ubject provided the	y secure followir	ng 4 credits ir	i work based vo	cational courses /	summer internsh	ip during 1st y	ear		
			II	Vocational Course Any One	VC	VC201	VCC-1	0 - 0 - 8	4	24	30		20		50	400
				Summer Internship	SI	SI201	SIC-1									1
				Real Analysis - I	MAJOR	BSCMTMMJ301	MJC-3	4 - 1 - 0	5	ı		30		70	100	Т
				Abstract Algebra - I and Number Theory	MAJOR	BSCMTMMJ302	MJC-4	4 - 1 - 0	5			30		70	100	-
		3-year UG	Ш	Choose from the Pool of Minor Courses offered in 3rd Semester by other Disciplines within the faculty	MINOR	See Pool	MNC-3	See Pool	5	22		See Po	ool	,,,	100	400
		Degree		Choose from the Pool of Multidisciplinary Courses offered in 3rd Semester across the faculties	MD	See Pool	MDC-3	2 - 1 - 0	3		15			35	50	
				English Communication	AE	See Pool	AEC-2	4 - 0 - 0	4	1		15		35	50	
								1						I I		
				Multivariate Calculus	MAJOR	BSCMTMMJ401	MJC-5	4 - 1 - 0	5			30		70	100	
				Linear Algebra - II and Tensor Calculus	MAJOR	BSCMTMMJ402	MJC-6	4 - 1 - 0	5			30		70	100	
			IV	Choose from the Pool of Minor Courses offered in 4th Semester by other Disciplines within the faculty	MINOR	See Pool	MNC-4	See Pool	5	22		See Po	ool		100	400
				Programming in C	SE BSCMTMSE401 SEC-3 2 - 1 - 0	3			15		35	50				
			Choose from the Pool of Value Added Course offered in 4th Semester	VA	See Pool	VAC-2	See Pool	4			15		35	50		
				Student exiting the programmes after securing 84 cm	edits will be awarded UG Dip	oloma in the relevant Discip	line/Subject provide	ed they secure fo	llowing 4 cre	dits in work bas	ed vocational cou	rses / summer in	ernship during	2nd year		
1			IV	Vocational Course Any One	VC	VC401	VCD-1	0 - 0 - 8	4	26	30		20		50	450
			1.0	Summer Internship Any One	SI	SI401	SID-1	0-0-8	<u> </u>	40	30		40		50	730
				D 14 1 ' H	14: 700	Daga em a crea:	) (IC 7	1 1 1 2	<u> </u>	ı		1 22		T 500	100	
				Real Analysis - II Probability, Statistics and Linear Programming Problem	MAJOR MAJOR	BSCMTMMJ501 BSCMTMMJ502	MJC-7 MJC-8	4 - 1 - 0	5			30		70 70	100	-
BSC	Mathematics		v	Numerical Methods and Numerical Lab	MAJOR MAJOR	BSCMTMMJ502 BSCMTMMJ503	MJC-8 MJC-9	3 - 0 - 4	5	20	30	15	20	35	100	400
			v	Choose from the Pool of Minor Courses offered in 5th Semester by other						20	30			33		
				Disciplines within the faculty	MINOR	See Pool	MNC-5	See Pool	5			See Po	ool		100	

i		Partial Differential Equations and Calculus of Variations	MAJOR	BSCMTMMJ601	MJC-10	4 - 1 - 0	5			30		70	100
ı		Metric Space	MAJOR	BSCMTMMJ602	MJC-11	4 - 1 - 0	5	1		30		70	10
İ	VI	Mechanics	MAJOR	BSCMTMMJ603	MJC-12	4 - 1 - 0	5	22		30		70	10
İ		Complex Analysis	MAJOR	BSCMTMMJ604	MJC-13	4 - 1 - 0	5			30		70	10
<u>ı</u>		Summer Internship	SI	SI601	SIMC-1	0 - 0 - 4	2		30		20		5
I		Total Credit and Marks		TOTAL CR	REDIT			126		TO	OTAL MARKS		
	Studer	nts who want to undertake 3-year UG programme will be awarded UG Degr	ree in the relevant Discip	ine / Subject upon securing	126 credits			l	l				
						_							1
ı		Integral Transforms and Integral Equations	MAJOR	BSCMTMMJ701	MJC-14	4 - 1 - 0	5			30		70	1
ı		General Topology	MAJOR	BSCMTMMJ702	MJC-15	4 - 1 - 0	5			30		70	1
ı	3711	Functional Analysis	MAJOR	BSCMTMMJ703	MJC-16	4 - 1 - 0	5	25		30		70	1
	VII	Advanced Differential Equations and Special Functions	MAJOR	BSCMTMMJ704	MJC-17	4 - 1 - 0	5	23		30		70	1
4 - Year UG	:	Choose from the Pool of Minor Courses offered in 7th Semester by other Disciplines within the faculty	MINOR	See Pool	MNC-6	See Pool	5			See I	Pool		1
Degree													
(Honours)		Operations Research	MAJOR	BSCMTMMJ801	MJC-18	4 - 1 - 0	5			30		70	1
		Differential Geometry	MAJOR	BSCMTMMJ802	MJC-19	3 - 1 - 0	4	1		30		70	1
		Classical Mechanics	MAJOR	BSCMTMMJ803	MJC-20	3 - 1 - 0	4	1		30		70	
ĺ	VIII	Abstract Algebra - II	MAJOR	BSCMTMMJ804	MJC-21	3 - 1 - 0	4	22		30		70	1
		Choose from the Pool of Minor Courses offered in 8th Semester by other Disciplines within the faculty	MINOR	See Pool	MNC-7	See Pool	5			See I	Pool	1	1
•													
		Total Credit and Marks		TOTAL CR	REDIT			173		то	OTAL MARKS		
		Total Credit and Marks  Students who want to undertake	4-year UG Honours prog			in the relevant D	iscipline / Su		I they secure 173		OTAL MARKS		
		Students who want to undertake		ram will be awarded UG D	egree (Honours)		iscipline / Su		I they secure 173	credits	OTAL MARKS		
		Students who want to undertake	MAJOR	ram will be awarded UG D	Degree (Honours) MJC-14	4 - 1 - 0	5		I they secure 173	credits 30	OTAL MARKS	70	
		Students who want to undertake Integral Equations and Integral Transforms General Topology	MAJOR MAJOR	BSCMTMMJ701 BSCMTMMJ702	MJC-14 MJC-15	4 - 1 - 0 4 - 1 - 0	5 5	ibject provided	they secure 173	30 30	OTAL MARKS	70 70	
	VII	Students who want to undertake Integral Equations and Integral Transforms General Topology Functional Analysis	MAJOR MAJOR MAJOR	BSCMTMMJ701 BSCMTMMJ702 BSCMTMMJ703	MJC-14 MJC-15 MJC-16	4 - 1 - 0 4 - 1 - 0 4 - 1 - 0	5 5 5		I they secure 173	30 30 30 30	OTAL MARKS	70 70 70	
4 - Year UG Degree		Students who want to undertake Integral Equations and Integral Transforms General Topology	MAJOR MAJOR	BSCMTMMJ701 BSCMTMMJ702	MJC-14 MJC-15	4 - 1 - 0 4 - 1 - 0	5 5	ibject provided	I they secure 173	30 30		70 70	
		Integral Equations and Integral Transforms General Topology Functional Analysis Advanced Differential Equations and Special Functions Choose from the Pool of Minor Courses offered in 7th Semester by other Disciplines within the faculty	MAJOR MAJOR MAJOR MAJOR MINOR	BSCMTMMJ701 BSCMTMMJ702 BSCMTMMJ703 BSCMTMMJ704 See Pool	MJC-14 MJC-15 MJC-16 MJC-17 MNC-6	4-1-0 4-1-0 4-1-0 4-1-0 See Pool	5 5 5 5 5	ibject provided	I they secure 173	30 30 30 30 30 30 See F		70 70 70 70 70	1 1
Degree (Honours		Integral Equations and Integral Transforms General Topology Functional Analysis Advanced Differential Equations and Special Functions Choose from the Pool of Minor Courses offered in 7th Semester by other Disciplines within the faculty  Operations Research	MAJOR MAJOR MAJOR MAJOR MINOR	BSCMTMMJ701 BSCMTMMJ702 BSCMTMMJ703 BSCMTMMJ704 See Pool BSCMTMMJ801	MJC-14 MJC-15 MJC-16 MJC-17 MNC-6	4-1-0 4-1-0 4-1-0 4-1-0 See Pool	5 5 5 5 5	ibject provided	I they secure 173	30 30 30 30 30 See I		70 70 70 70 70	1 1 1
Degree (Honours with		Integral Equations and Integral Transforms General Topology Functional Analysis Advanced Differential Equations and Special Functions Choose from the Pool of Minor Courses offered in 7th Semester by other Disciplines within the faculty  Operations Research Research Methodology and Ethics	MAJOR MAJOR MAJOR MAJOR MINOR  MAJOR RP	BSCMTMMJ701 BSCMTMMJ702 BSCMTMMJ703 BSCMTMMJ704 See Pool BSCMTMMJ801 BSCMTMMJ801 BSCMTMRP801	MJC-14 MJC-15 MJC-16 MJC-17 MNC-6	4-1-0 4-1-0 4-1-0 4-1-0 See Pool 4-1-0 4-0-0	5 5 5 5 5	ubject provided		30 30 30 30 30 30 See F	Pool	70 70 70 70 70	1 1 1 1 1 1
Degree (Honours with		Integral Equations and Integral Transforms General Topology Functional Analysis Advanced Differential Equations and Special Functions Choose from the Pool of Minor Courses offered in 7th Semester by other Disciplines within the faculty  Operations Research Research Methodology and Ethics Research Project / Dissertation	MAJOR MAJOR MAJOR MAJOR MINOR	BSCMTMMJ701 BSCMTMMJ702 BSCMTMMJ703 BSCMTMMJ704 See Pool BSCMTMMJ801	MJC-14 MJC-15 MJC-16 MJC-17 MNC-6	4-1-0 4-1-0 4-1-0 4-1-0 See Pool	5 5 5 5 5	ibject provided	1 they secure 173	30 30 30 30 30 See I		70 70 70 70 70	1 1 1 1 1 1
Degree (Honours with		Integral Equations and Integral Transforms General Topology Functional Analysis Advanced Differential Equations and Special Functions Choose from the Pool of Minor Courses offered in 7th Semester by other Disciplines within the faculty  Operations Research Research Methodology and Ethics	MAJOR MAJOR MAJOR MAJOR MINOR  MAJOR RP	BSCMTMMJ701 BSCMTMMJ702 BSCMTMMJ703 BSCMTMMJ704 See Pool BSCMTMMJ801 BSCMTMMJ801 BSCMTMRP801	MJC-14 MJC-15 MJC-16 MJC-17 MNC-6	4-1-0 4-1-0 4-1-0 4-1-0 See Pool 4-1-0 4-0-0	5 5 5 5 5	ubject provided		30 30 30 30 30 See I	Pool 80	70 70 70 70 70	1 1 1 1 1 1 1 1 1 1 1 1 1

Abbreviations: MJ= Major;MJC= Major Course; MN= Minor;MNC= Minor Course; AE= Ability Enhancement; AEC= Ability Enhancement Course; SE= Skill Enhancement Course; MD= Multidisciplinary; MDC= Multidisciplinary Course; SI - Summer Internship;SIC - Summer Internship for Certificate; SID:Summer Internship for Diploma; SIMC - Summer Internship Mandatory Course; RP= Research Project Course; VA= Value Added; VAC= Value Added Course; VC= Vocational Course for Certificate; VCD= Vocational Cou

Note: Minor Courses (MNC): Students 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 within the faculty. The student is required to opt the same Minor Discipline in the 2nd semester which he had opted in 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 Minor Course offered by Chemistry for 2nd semester as Minor Course in the 2nd semester.

Semester	wise Pool of N	Minor Courses	s offered by Mathematics for other Disciplines	within the Faculty											
Disciplin		Course Name	*	Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem	CA	Marks	ESE	Marks	Total Marks	Sem Marks
e	Semester	Course Ivallie		Course Type	Course Code	Course Details	L-1-F	Course Credit	Credit	Practical	Theoretical	Practical	Theoretical	Total Marks	Sem Marks
	I	Classical Algeb	ra, Calculus and Analytical Geometry		BSCMTMMN101	MNC-1	4 - 1 - 0	5			30		70	100	
s		Linear Algebra Calculus	- I, Ordinary Differential Equations and Vector		BSCMTMMN201	MNC-2	4 - 1 - 0	5			30		70	100	
Mathematics	III	Real Analysis a	nd Complex Analysis	MINOR	BSCMTMMN301	MNC-3	4 - 1 - 0	5	37.4		30		70	100	37.4
the			a and Linear Algebra - II	MINOR	BSCMTMMN401	MNC-4	4 - 1 - 0	5	NA		30		70	100	NA
Ψ̈́			ysis and Partial Differential Equations	_	BSCMTMMN501	MNC-5	4 - 1 - 0	5			30	27.1	70	100	
		NA Mechanics		_	DOGLETI D DIZO1	NA NOIG 6	4 1 0	5			20	NA	70	100	
			istics and Linear Programming Problem	-	BSCMTMMN701 BSCMTMMN801	MNC-6 MNC-7	4 - 1 - 0	5			30 30		70 70	100	
		-			B3CWTWWW001	WINC-/	4-1-0				30		70	100	
-	wise Pool of Mu	ultidisciplinary	Courses offered by Mathematics for other Discipl	lines across the Faculties	1				-	1 04	36.1	Bon		1	
Disciplin e	Semester	Course Name		Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem Credit		Marks		Marks	Total Marks	Sem Marks
	ī	Business Mathe	matics	MD	MDC113	MDC-1	2 -1 - 0	3	Creuit	Practical	Theoretical 15	Practical	Theoretical 35	50	
Mathemt		Mathematical S		MD	MDC201	MDC-1	2 -1 - 0	3	NA		15		35	50	NA
ics	<del>                                     </del>	Indian Mathema		MD	MDC305	MDC-3	2 -1 - 0	3	INA		15		35	50	INA
	111	maian wattem	uies	MD	WIDC303	IVIDC-3	2 -1 - 0	3			13		33	30	
ool of Co	ommunication	Courses offere	d as Ability Enhancement Courses in Semester-I												
									Sem	CA	Marks	ECE	Marks		
Dis	scipline	Semester	Course Name	Course Type	Course Code	Course Details	L - T - P	Course Credit	Credit					Total Marks	Sem Marks
			In the control of		4 E GE 101				O. Cuit	Practical	Theoretical	Practical	Theoretical		
Faci	lish/MIL		English Communication Bengali Communication	_	AECE101 AECB101										
_	nunication	I	Hindi Communication	AE	AECH101	AEC-1	4 - 0 - 0	4	NA		15		35	50	NA
Comin	ium cation		Urdu Communication	1	AECU101										
	•			•	-	+		•		•					
Pool of Co	ommunication	Courses offere	d as Ability Enhancement Courses in Semester-III	<u> </u>											
									C	CA	Marks	ECE	Marks		
Dis	scipline	Semester	Course Name	Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem Credit	CA	WIALKS	ESE	Marks	Total Marks	Sem Marks
			<u> </u>						Crean	Practical	Theoretical	Practical	Theoretical		
мп	/ En aliah		English Communication Bengali Communication	_	AECE301 AECB301										
	/ English nunication	Ш		AE	AECB301 AECH301	AEC-2	4 - 0 - 0	4	NA		15		35	50	NA
Comm	numeation		Hindi Communication Urdu Communication	_	AECU301										
			Olda Communication		1220301									· · · · · ·	
Semester v	wise Pool of M	ultidisciplinary	Courses offered for all Disciplines across the Fact	ulties											
Offered 1	By Discipline	Semester	Course Name	Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem		Marks		Marks	Total Marks	Sem Marks
	2) Discipline	Semestel		Course Type		Course Details		Course Cituit	Credit	Practical	Theoretical	Practical	Theoretical	Z Gun Ivini R3	Sem marks
Physics BBA			Physical Science	4	MDC101	4									
olitical So	cience		E-Commerce Human Rights	1	MDC102 MDC103	+									
Geography			Disaster Management	†	MDC103	†									
hysical E			Fitness and Wellness	1	MDC105	1									
English			Film Appreciation		MDC107										
Commerce	e		Accounting for All	_	MDC108										
History			Exploring Early Medieval Bengal: C.7th		MDC109										
			Century CE to 1206 CE	4		4									
			Bangla Sahitya O Sanskriti	1	MDC110	1		1	l	1	I	I	1		
Bengali	c		Monay and Dankin-		MDC111										
Bengan Economics Hindi	s	I	Money and Banking Patrakarita	MD	MDC111 MDC112	MDC-1	2 - 1 - 0	3	NA		15		35	50	NA

Mathematics Sociology Philosophy Electronics Computer Science Botany Computer Applications Commerce Geology  Offered By Discipline Sem		Business Mathematics Indian Society Yoga for Daily Life Electronic Measurements Information and Communication		MDC113 MDC114 MDC115 MDC116	-									
Philosophy Electronics Computer Science Botany Computer Applications Commerce Geology		Yoga for Daily Life Electronic Measurements Information and Communication		MDC115										
Electronics  Computer Science  Botany  Computer Applications  Commerce  Geology		Electronic Measurements Information and Communication			4									
Computer Science  Botany Computer Applications Commerce Geology		Information and Communication	<u> </u>		1									
Botany Computer Applications Commerce Geology					1									
Computer Applications Commerce Geology		Technology		MDC117										
Commerce Geology		Introduction to Local Flora		MDC118										
Geology		Information and Media Literacy		MDC119										
		Microeconomics		MDC120										
Offered By Discipline Sem		A B C D of Geology		MDC121										
Offered By Discipline Sem														
1	emester	Course Name	Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem Credit	CA Practical	Marks Theoretical	Practical	Marks Theoretical	Total Marks	Sem Marks
Mathematics		Mathematical Science		MDC201										
BBA		Business Environment		MDC202										
Statistics		Basic Statistics		MDC203										
History		Understanding Medieval Bengal Select Themes: 1206 CE-1727 CE		MDC204										
Commerce		Personal Finance	ŀ	MDC205		2 -1 - 0				15		35		
Nutrition		Nutrition and Public Health	ŀ	MDC206	1					-				
Education		Educational Philosophy	ļ	MDC207	1									
Psychology		Stress Management		MDC208	1									
Computer		Social Media and Cyber Awareness	ļ	MDC209	1									
Bengali		Adhunik Bangla Sahitya	ļ	MDC210										
Nazrul Sangeet		Nazrul Sangeet		MDC211		0-1-4			30		30			
Electronics	II	E-Waste Management	MD	MDC212	MDC-2		3	NA					50	NA
Chemistry		E-Waste Management Chemical Science		MDC213										
Sanskrit		Critical Survey of Sanskrit Language		MDC214										
Urdu		Asnaf- E -Adab		MDC215										
Hindi		Anuvad Vigyan		MDC216										
Botany		Herbal Home Remedies		MDC217										
English		Cotemporary India: Women and Empowerment		MDC218		2 -1 - 0				15		35		
Political Science		Women Empowerment in India: Issues and		MDC219										
		Dimensions												
Physical Education		Yoga-Vyayama		MDC220										
Commerce		Macroeconomics		MDC221										
Geology		The Past Life on Earth		MDC222										
					T				1				, ,	
Offered By Discipline Sem	emester	Course Name	Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem Credit		Marks		Marks	Total Marks	Sem Marks
Geography		Bharatavarsha - A Land of Rare Natural Endowments		MDC301				Creuit	Practical	Theoretical	Practical	Theoretical		
Sanskrit		The Vedangas and other Streams of Indian	ŀ	MDC302	-									
		Knowledge System												
Physics		Indian Astronomy		MDC303										
Zoology		Indian Health Sciences		MDC304										
Mathematics		Indian Mathematics		MDC305	_									
Education		Indian Education		MDC306	_									
Political Sc		Indian Polity and Economy		MDC307	_									
Philosophy	III	Methodology of Indian Knowledge System	MD	MDC308	MDC-3	2 - 1 - 0	3	NA		15		35	50	NA
Geology		Remote Sensing and GIS		MDC309										
1		Indian Medical System and Yoga		MDC310										
Physical Education			L		_								l	

Commerce			Indian Economy		MDC312										
Computer Science			Impact of Artificial Intelligence in Education	1	MDC313										
Physiology			Community Health Care		MDC314										
Pool of Value Added Co	ourses offered	in Seme	ester-IV for all Disciplines across all Faculti	ies											
Offered By Discipline Semester Course Name		Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem	CA Marks	ESE Marks			Total Marks	Sem Marks		
offered by biscipline	Semester		T T T T T T T T T T T T T T T T T T T	course Type	Course cour	Course Details			Credit	Practical	Theoretical	Practical	Theoretical	Total Marks	
Physiology			Yoga and Health	VA	VAC401		4 - 0 - 0	4	NA						
Philosophy			Social Values and Ethics		VAC402										
Computer Science			Digital and Technological Solutions		VAC403										
History	IV	One	Understanding India		VAC404						15	15	35	50	NA
Economics	1 V	Any	Sustainable Development: Issues and Challenges		VAC405	VAC-2								50	
Commerce			Goods and Services Tax		VAC406										
Political Science			Basics of Indian Constitution		VAC407										
Physical Education			Integrated Self Defence	1	VAC408	1	0-2-4	1		30		20			