Abbrevia ted Degree	Discipline				(Honours) / 4-Y	ear UG Degree (H Research)	onours with			WITH E	FFECT FROM	THE ACADEM	IIC SESSION:	2023-24		
ted	Discipline		-								CA M	Iarks	ESE I	Marks		T
		Degree Programme	Semeste	Course Name	Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem Credit	Practical	Theoretical	Practical	Theoretical	Total Marks	Sem Marks
				Molecules of Life	MAJOR	BSCBCMMJ101	MJC-1	3 - 0 - 4	5		30	15	20	35	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			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	1		15		35	50	1
				Tools and Techniques in Biochemistry	SE	BSCBCMSE101	SEC-1	0 - 0 - 6	3	1	30		20		50	1
				Cell Biology	MAJOR	BSCBCMMJ201	MJC-2	3 - 0 - 4	5		30	15	20	35	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 P	ool		100	350
				Choose from the Pool of Multidisciplinary Courses offered in 2nd Semester across the faculties	r 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	
				Protein Purification Techniques	SE	BSCBCMSE201	SEC-2	3 - 0 - 0	3	1		15		35	50	1
				Student exiting the programmes after securing 40 credits v	will be awarded UG Certificat	e in the relevant Discipline/S	Subject provided the	v secure followi	ng 4 credits i	n work based vo	cational courses	summer interns	hip during 1st	vear		1
										1				,		
			II	Vocational Course Any One Summer Internship	VC SI	VC201 SI201	VCC-1 SIC-1	0 - 0 - 8	4	24	30		20		50	400
				Definite internant		51201	510 1									
				Biochemistry of Proteins	MAJOR	BSCBCMMJ301	MJC-3	3 - 0 - 4	5		30	15	20	35	100	
				Enzymes	MAJOR	BSCBCMMJ302	MJC-4	3 - 0 - 4	5		30	15	20	35	100	Ī
		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 P	ool		100	400
		Degree		Choose from the Pool of Multidisciplinary Courses offered in 3rd Semester across the faculties	MD	See Pool	MD-3	2 - 1 - 0	3			15		35	50	
				English Communication	AE	See Pool	AEC-2	4 - 0 - 0	4			15		35	50	<u> </u>
				Metabolism of Carbohydrates and Lipids	MAJOR	BSCBCMMJ401	MJC-5	3 - 0 - 4	5	4	30	15	20	35	100	4
				Membrane Biology and Bioenergetics	MAJOR	BSCBCMMJ402	MJC-6	3 - 0 - 4	5	4	30	15	20	35	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 P			100	400
				Clinical Biochemistry	SE	BSCBCMSE401	SEC-3	3 - 0 - 0	3		30		20		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 c	credits will be awarded UG Di	ploma in the relevant Discip	oline/Subject provide	ed they secure fo	llowing 4 cre	edits in work bas	ed vocational cou	irses / summer in	nternship during	g 2nd year		
			IV	Vocational Course Any One Summer Internship	VC SI	VC401 SI401	VCD-1 SID-1	0 - 0 - 8	4	26	30		20		50	450
				Metabolism of Amino Acids and Nucleotides	MAJOR	BSCBCMMJ501	MJC-7	3 - 0 - 4	5		30	15	20	35	100	T
DCC D):b			Human Physiology	MAJOR	BSCBCMMJ501 BSCBCMMJ502	MJC-7 MJC-8	3 - 0 - 4	5	┪ !	30	15	20	35	100	-
BSC Bi	Biochemistry		v	Gene Organization, Replication and Repair	MAJOR	BSCBCMMJ502 BSCBCMMJ503	MJC-9	3 - 0 - 4	5	20	30	15	20	35	100	400
				Choose from the Pool of Minor Courses offered in 5th Semester by other Disciplines within the faculty	MINOR	See Pool	MNC-5	See Pool	5			See P			100	

		Hormone: Biochemistry and Function	MAJOR	BSCBCMMJ601	MJC-10	3 - 0 - 4	5		30	15	20	35	100	
ų.		Concepts in Genetics	MAJOR	BSCBCMMJ602	MJC-11	3 - 0 - 4	5	1	30	15	20	35	100	
Į.	VI	Gene Expression and Regulation	MAJOR	BSCBCMMJ603	MJC-12	3 - 0 - 4	5	22	30	15	20	35	100	450
ļ		Molecular Basis of Infectious Diseases	MAJOR	BSCBCMMJ604	MJC-13	3 - 0 - 4	5		30	15	20	35	100	1
		Summer Internship	SI	SI601	SIMC-1	0 - 0 - 4	2		30		20		50	
		Total Credit and Marks		TOTAL CI	REDIT			126		TO	OTAL MARKS	3		2350
		Students wh	o want to undertake 3-year	UG programme will be a	warded UG Degree	e in the relevant	Discipline /	Subject upon s	securing 126 credi	ts				1
!		Immunology	MAJOR	BSCBCMMJ701	MJC-14	3 - 0 - 4	5		30	15	20	35	100	
Į.		Basic concepts on Developmental biology	MAJOR	BSCBCMMJ702	MJC-15	3 - 0 - 4	5		30	15	20	35	100	
Į.	****	Basic Microbiology	MAJOR	BSCBCMMJ703	MJC-16	3 - 0 - 4	5	2.5	30	15	20	35	100	500
Į.	VII	Molecular Basis of Non-infectious Human Diseases	MAJOR	BSCBCMMJ704	MJC-17	3 - 0 - 4	5	25	30	15	20	35	100	500
1 - 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		100		
Degree														
(Honours)		Genetic Engineering and Biotechnology	MAJOR	BSCBCMMJ801	MJC-18	3 - 0 - 4	5		30	15	20	35	100	
		Pharmacology & Toxicology	MAJOR	BSCBCMMJ802	MJC-19	2 - 0 - 4	4		30	15	20	35	100	
Į.		Plant Biochemistry	MAJOR	BSCBCMMJ803	MJC-20	2 - 0 - 4	4		30	15	20	35	100	
Į.	VIII	Computational Biology &Bioinformatics	MAJOR	BSCBCMMJ804	MJC-21	2 - 0 - 4	4	22	30	15	20	35	100	50
Į.		Choose from the Pool of Minor Courses offered in 8th Semester by other	WI BOX	Воевенняю		2 0 .	· ·	1	30			35	100	ł
		Disciplines within the faculty	MINOR	See Pool	MNC-7	See Pool	5			See I	Pool		100	
1		Total Credit and Marks		TOTAL CI	REDIT			173		то	OTAL MARKS	3		335
		Total Credit and Marks Students who want to undertake	4-year UG Honours progr			n the relevant Di	iscipline / Su		I they secure 173 c		OTAL MARKS	3		335
		Students who want to undertake		am will be awarded UGI	egree (Honours) i		_			credits			100	335
		Students who want to undertake Advance Cell Biology	MAJOR	am will be awarded UG I	Degree (Honours) i	3 - 0 - 4	5		30	eredits 15	20	35	100	335
		Students who want to undertake Advance Cell Biology Industrial Biochemistry	MAJOR MAJOR	am will be awarded UG I BSCBCMMJ701 BSCBCMMJ702	MJC-14 MJC-15	3 - 0 - 4 3 - 0 - 4	5 5		30 30	15 15	20 20	35 35	100	33:
	VII	Advance Cell Biology Industrial Biochemistry Basics of Biophysics	MAJOR MAJOR MAJOR	BSCBCMMJ701 BSCBCMMJ702 BSCBCMMJ703	MJC-14 MJC-15 MJC-16	3 - 0 - 4 3 - 0 - 4 3 - 0 - 4	5 5 5		30 30 30	15 15 15	20 20 20 20	35 35 35	100 100	33:
	VII	Advance Cell Biology Industrial Biochemistry Basics of Biophysics Environmental Biochemistry	MAJOR MAJOR	am will be awarded UG I BSCBCMMJ701 BSCBCMMJ702	MJC-14 MJC-15	3 - 0 - 4 3 - 0 - 4	5 5	bject provided	30 30	15 15	20 20	35 35	100	
4 - Year UG	VII	Advance Cell Biology Industrial Biochemistry Basics of Biophysics Environmental Biochemistry Choose from the Pool of Minor Courses offered in 7th Semester by other	MAJOR MAJOR MAJOR	BSCBCMMJ701 BSCBCMMJ702 BSCBCMMJ703	MJC-14 MJC-15 MJC-16	3 - 0 - 4 3 - 0 - 4 3 - 0 - 4	5 5 5	bject provided	30 30 30	15 15 15	20 20 20 20 20	35 35 35	100 100	-
Degree		Advance Cell Biology Industrial Biochemistry Basics of Biophysics Environmental Biochemistry	MAJOR MAJOR MAJOR MAJOR	BSCBCMMJ701 BSCBCMMJ702 BSCBCMMJ703 BSCBCMMJ704	MJC-14 MJC-15 MJC-16 MJC-17	3 - 0 - 4 3 - 0 - 4 3 - 0 - 4 3 - 0 - 4	5 5 5 5	bject provided	30 30 30	15 15 15 15	20 20 20 20 20	35 35 35	100 100 100	
Degree Ionours with	1	Advance Cell Biology Industrial Biochemistry Basics of Biophysics Environmental Biochemistry Choose from the Pool of Minor Courses offered in 7th Semester by other Disciplines within the faculty	MAJOR MAJOR MAJOR MAJOR MAJOR MINOR	BSCBCMMJ701 BSCBCMMJ702 BSCBCMMJ703 BSCBCMMJ704 See Pool	MJC-14 MJC-15 MJC-16 MJC-17 MNC-6	3 - 0 - 4 3 - 0 - 4 3 - 0 - 4 3 - 0 - 4 See Pool	5 5 5 5 5 5 5	bject provided	30 30 30 30 30	15 15 15 15 See I	20 20 20 20 20	35 35 35 35	100 100 100 100	
Degree	1	Advance Cell Biology Industrial Biochemistry Basics of Biophysics Environmental Biochemistry Choose from the Pool of Minor Courses offered in 7th Semester by other Disciplines within the faculty Toxicology and Environmental Management	MAJOR MAJOR MAJOR MAJOR MINOR	BSCBCMMJ701 BSCBCMMJ702 BSCBCMMJ703 BSCBCMMJ704 See Pool BSCBCMMJ801	MJC-14 MJC-15 MJC-16 MJC-17 MNC-6	3 - 0 - 4 3 - 0 - 4 3 - 0 - 4 3 - 0 - 4 See Pool	5 5 5 5 5 5	bject provided	30 30 30	15 15 15 15 15 15 15 15	20 20 20 20 20	35 35 35 35 35 35	100 100 100 100	-
Degree Ionours with		Advance Cell Biology Industrial Biochemistry Basics of Biophysics Environmental Biochemistry Choose from the Pool of Minor Courses offered in 7th Semester by other Disciplines within the faculty Toxicology and Environmental Management Research Methodology	MAJOR MAJOR MAJOR MAJOR MINOR MAJOR RP	BSCBCMMJ701 BSCBCMMJ702 BSCBCMMJ703 BSCBCMMJ704 See Pool BSCBCMMJ801 BSCBCMRP801	MJC-14 MJC-15 MJC-16 MJC-17 MNC-6	3 - 0 - 4 3 - 0 - 4 3 - 0 - 4 3 - 0 - 4 See Pool	5 5 5 5 5	bject provided	30 30 30 30 30 30	15 15 15 15 See I	20 20 20 20 20 20 20	35 35 35 35	100 100 100 100 100	-
Degree Ionours with		Advance Cell Biology Industrial Biochemistry Basics of Biophysics Environmental Biochemistry Choose from the Pool of Minor Courses offered in 7th Semester by other Disciplines within the faculty Toxicology and Environmental Management	MAJOR MAJOR MAJOR MAJOR MINOR	BSCBCMMJ701 BSCBCMMJ702 BSCBCMMJ703 BSCBCMMJ704 See Pool BSCBCMMJ801	MJC-14 MJC-15 MJC-16 MJC-17 MNC-6	3 - 0 - 4 3 - 0 - 4 3 - 0 - 4 3 - 0 - 4 See Pool	5 5 5 5 5 5	bject provided	30 30 30 30 30	15 15 15 15 15 15 15 15	20 20 20 20 20 20 20	35 35 35 35 35 35	100 100 100 100	5

Abbreviations: MJ-= Major; MJC-= Major Course; MD= Multidisciplinary Course; MD= Multidisciplinary Course; SI - Summer Internship; SIC - Summer Internship

Abbreviations: MJ= Major;MJC= Major Course;MN= Minor;MNC= Minor;MNC= Minor;MNC= Minor Course; AE= Ability Enhancement Course; SE= Skill Enhancement Course; MD= Multidisciplinary ; MD = Multidisciplinary Course; NE - Skill Enhancement Course; NE - Skill Enhancement Course; WD= Multidisciplinary; MD = Multidisciplinary

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.

Semesterwise Pool of Minor Courses offered by Biochemistry for other Disciplines within the Faculty

Disciplin	S	C T	C C-1-	Course Details	I T D	C C1'4	Sem	CA	Marks	ESE	Marks	Tatal Maulas	Sem Marks
e	Semester Course Name	Course Type	Course Code	Course Details	L-1-P	Course Credit	Credit	Practical	Theoretical	Practical	Theoretical	Total Marks	Sem Marks
	I Molecules of Life		BSCBCMMN101	MNC-1	3 - 0 - 4	5		30	15	20	35	100	
	II Cell Biology		BSCBCMMN201	MNC-2	3 - 0 - 4	5		30	15	20	35	100	

				_					_							
III Biochemistry of Cell IV Proteins and Enzymes V Intermediary Metabolism NA NA					BSCBCMMN301	MNC-3	3 - 0 - 4	5		30	15	20	35	100		
IV	Proteins and E	nzymes		MINOR	BSCBCMMN401	MNC-4	3 - 0 - 4	5	NA	30	15	20	35	100	NA	
V	Intermediary N	1etabolis	sm	MINOR	BSCBCMMN501	MNC-5	3 - 0 - 4	5	INA	30	15	20	35	100	NA	
VI	VI NA		NA			NA		-				NA				
VII	Gene Organiza	tion, Ex	pression and Regulation		BSCBCMMN701	MNC-6	3 - 0 - 4	5		30	15	20	35	100		
VIII	Fundamentals of	of Cell E	Biology and Immunology		BSCBCMMN801	MNC-7	3 - 0 - 4	5		30	15	20	35	100		
•	•			•		•	•	•					*	•		
ester wise Pool o	of Multidisc	iplina	ry Courses offered by Biochemisti	ry for other Disciplines a	across the Faculties											
District.	6		C. N.	C T	G G .1	C D. (-2)	I T D	G G I'	Sem	CA	Marks	ESE	Marks	T. (IM. I.	C M . 1	
Discipline	Semester		Course Name	Course Type	Course Code	Course Details	L - T - P	Course Credit	Credit	Practical	Theoretical	Practical	Theoretical	Total Marks	Sem Marks	
Biochemistry	I		NA	NA												
of Communication Co	ourses offered s	as Ahilit	ty Enhancement Courses in Semester-I													
. communication Co	Jan Jes Onereu a		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2									7.5				
Discipline	Semester		Course Name	Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem	CA Marks		ESE Marks Total Marks			Sem Marks	
		<u>L</u>	<u> </u>						Credit	Practical	Theoretical	Practical	Theoretical			
		ie	English Communication		AECE101						_					
English/MIL	ı	One	Bengali Communication	AE	AECB101	AEC-1	4 - 0 - 0	4	NA		15		35	50	NA	
Communication	•	Any	Hindi Communication		AECH101	ALC I		'	1421		15		33	50	1171	
	<u> </u>	_ ~	Urdu Communication		AECU101			1					<u> </u>			
f Value Added Cou	rses offered in	Semeste	er-IV for all Disciplines across all Faculties	1	ı	1	Т	1	~	6.1		For				
Discipline	Semester		Course Name	Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem		Marks		Marks	Total Marks	Sem Marks	
•				**					Credit	Practical	Theoretical	Practical	Theoretical	 		
			Yoga And Health		VAC401											
			Social Values and Ethics	1	VAC402	_										
			Social Values and Etimes		VAC-102											
			Digital and Technological Solutions		VAC403											
NA	137	One		774	***	VAC-2	4.0.0	4	NIA		1.5		25	50	NIA	
NA	IV	Any	Understanding India	VA	VAC404	VAC-2	4 - 0 - 0	4	NA		15		35	50	NA	
			Sustainable Development: Issues and		VAC405											
			Challenges		VAC405											
						1										
			Goods and Services Tax		VAC406											
						_										
			D : CL II C		V. 1. C. 1.0.7											
			Basics of Indian Constitution		VAC407											
		•	•													
ster wise Pool of Mul	tidisciplinary (Courses	offered for all Disciplines across the Faculti	es												
ered By Discipline	Semester		Course Name	Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem		Marks		Marks	Total Marks	Sem Marks	
				J P -					Credit	Practical	Theoretical	Practical	Theoretical			
cs			Physical Science	4	MDC101	4										
10.			E-Commerce		MDC102	4										
cal Science			Human Rights	4	MDC103	4										
ronhy]		Disaster Management	4	MDC104											
			117:4 J W/-11	1	MDC105	1	I	1	l	1		I		1		
cal Education			Fitness and Wellness	4		-								1		
graphy ical Education ish merce			Film Appreciation Accounting for All		MDC107 MDC108											

	1		Exploring Early Medieval Bengal: C.7th			1	İ	1 1		1				1 1	
History			Century CE to 1206 CE		MDC109										
Bengali		e e	Bangla Sahitva O Sanskriti		MDC110	1									
Economics	ī	One	Money and Banking	MD	MDC110 MDC111	MDC-1	2 - 1 - 0	3	NA		15		35	50	NA
Hindi	1	Any	Patrakarita	MD	MDC111 MDC112	WIDC-1	2-1-0	3	INA		13		33	30	INA
		⋖													
Mathematics			Business Mathematics		MDC113										
Sociology			Indian Society		MDC114										
Philosophy			Yoga for Daily Life		MDC115										
Electronics			Electronic Measurements		MDC116										
Computer Science			Information and Communication		MDC117										
			Technology		1000110										
Botany			Introduction to Local Flora		MDC118										
Computer Applications			Information and Media Literacy		MDC119										
Commerce			Personal Finance		MDC120										
	ı				1	1	T					non		1	
Offered By Discipline	Semester		Course Name	Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem		Marks		ESE Marks		Sem Marks
M.d. d			1.6.1		155 5254				Credit	Practical	Theoretical	Practical	Theoretical		
Mathematics			Mathematical Science		MDC201										
BBA			Business Environment		MDC202						1				
Statistics			Basic Statistics		MDC203										
History			Understanding Medieval Bengal Select Themes: 1206 CE-1727 CE		MDC204										
Commerce			Personal Finance		MDC205									1	
Nutrition			Nutrition and Public Health		MDC206										
Education		ō	Educational Philosophy	MD	MDC207										
Psychology	П	One	Stress Management		MDC208	MDC-2	2 - 1 - 0	3	NA		15		35	50	NA
Computer		Any	Social Media and Cyber Awareness	MD	MDC209	WIDC-2	2-1-0	3	1474		13		33	30	TVA
Bengali		<,	Adhunik Bangla Sahitya		MDC210										
Nazrul Sangeet			Nazrul Sangeet		MDC211										
Electronics			E-Waste Management		MDC212										
Chemistry			Chemical Science		MDC213										
Sanskrit			Critical Survey of Sanskrit Language		MDC214										
Urdu			Asnaf- E -Adab	1	MDC215	1									
Hindi			Anuvad Vigyan		MDC216										
Botany			Herbal Home Remedies		MDC217										
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 Discipline	Semester			Course Type	Course Code	Course Details	L-1-F	Course Credit	Credit	Practical	Theoretical	Practical	Theoretical	Total Marks	Sem Warks
Geography			Bharatavarsha—A Land of Rare Natural		MDC301										
Geography			Endowments		MDC301										
Sanskrit			The Vedangas and other Streams of Indian		MDC202										
Danskill		One	Knowledge System		MDC302										
Physics	III		Indian Astronomy	MD	MDC303	MDC-3	2 - 1 - 0	3	NA		15		35	50	NA
Mathematics]	Any	Indian Mathematics		MDC305	1									
Education]		Indian Education		MDC306	1									
Political Sc]		Indian Polity and Economy		MDC307										
Philosophy]		Methodology of Indian Knowledge System		MDC308	1									
						1	L	1	1	1		1	1	ll	