

 KAZI NAZRUL UNIVERSITY			FACULTY OF SCIENCE, TECHNOLOGY & VOCATIONAL STUDIES			<b>3-Year UG Degree / 4-Year UG Degree (Honours) / 4-Year UG Degree (Honours with Research) / 5-Year Integrated UG (Honours) - PG Degree</b>			WITH EFFECT FROM THE ACADEMIC SESSION: 2023-24									
Abbreviated Degree	Discipline	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				
3-year UG Degree			I	Diversity of Non-chordates	MAJOR	IBSMSASMJ101	MJC-1	3 - 0 - 4	5	20	30	15	20	35	100	350		
				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 Pool				100			
				Choose from the Pool of Multidisciplinary Courses offered in 1st Semester across the faculties	MD	See Pool	MDC-1	2 - 1 - 0	3			15		35	50			
				English/MIL Communication	AE	See Pool	AEC-1	4 - 0 - 0	4			15		35	50			
				Biological and Clinical Instrumentation	SE	IBSMSASSE101	SEC-1	0 - 1 - 4	3		30		20		50			
			II	Diversity of Chordates	MAJOR	IBSMSASMJ201	MJC-2	3 - 0 - 4	5	20	30	15	20	35	100	350		
				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		See Pool				100			
				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			
				Laboratory Techniques and Diagnostics	SE	IBSMSASSE201	SEC-2	0 - 1 - 4	3		30		20		50			
			<b>Student exiting the programmes after securing 40 credits will be awarded UG Certificate in the relevant Discipline/Subject provided they secure following 4 credits in work based vocational courses / summer internship during 1st year</b>															
			II	Vocational Course	Any One	VC	VC201	VCC-1	0 - 0 - 8	4	24	30		20		50	400	
				Summer Internship		SI	SI201	SIC-1										
			III	Animal Physiology and Comparative Anatomy	MAJOR	IBSMSASMJ301	MJC-3	3 - 0 - 4	5	22	30	15	20	35	100	400		
				Economically Important Invertebrates	MAJOR	IBSMSASMJ302	MJC-4	3 - 0 - 4	5		30	15	20	35	100			
				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		See Pool				100			
				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			15		35	50			
			IV	Ecology, Conservation, Ethology, and Chronobiology	MAJOR	IBSMSASMJ401	MJC-5	3 - 0 - 4	5	22	30	15	20	35	100	400		
				Livestock Management and Animal Husbandry	MAJOR	IBSMSASMJ402	MJC-6	3 - 0 - 4	5		30	15	20	35	100			
				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		See Pool				100			
				Aquaculture	SE	IBSMSASSE401	SEC-3	0 - 1 - 4	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			
			<b>Student exiting the programmes after securing 84 credits will be awarded UG Diploma in the relevant Discipline/Subject provided they secure following 4 credits in work based vocational courses / summer internship during 2nd year</b>															
			IV	Vocational Course	Any One	VC	VC401	VCD-1	0 - 0 - 8	4	26	30		20		50	450	
	Summer Internship	SI	SI401	SID-1														
V	Cell Biology and Histology	MAJOR	IBSMSASMJ501	MJC-7	3 - 0 - 4	5	20	30	15	20	35	100	400					
	Genetics and Molecular Biology	MAJOR	IBSMSASMJ502	MJC-8	3 - 0 - 4	5		30	15	20	35	100						
	Adaptation and Evolution	MAJOR	IBSMSASMJ503	MJC-9	3 - 0 - 4	5		30	15	20	35	100						

IBSMSC

Animal  
Science

		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 Pool	100					
	VI	Biochemistry	MAJOR	IBSMSASMJ601	MJC-10	3 - 0 - 4	5	22	30	15	20	35	100	450	
		Human Physiology	MAJOR	IBSMSASMJ602	MJC-11	3 - 0 - 4	5		30	15	20	35	100		
		Parasitology and Vector Biology	MAJOR	IBSMSASMJ603	MJC-12	3 - 0 - 4	5		30	15	20	35	100		
		General Entomology	MAJOR	IBSMSASMJ604	MJC-13	3 - 0 - 4	5		30	15	20	35	100		
		Summer Internship	SI	SI601	SIMC-1	0 - 0 - 4	2		30		20		50		
		<b>Total Credit and Marks</b>	<b>TOTAL CREDIT</b>				<b>126</b>	<b>TOTAL MARKS</b>					<b>2350</b>		
Students who want to undertake 3-year UG programme will be awarded UG Degree in the relevant Discipline / Subject upon securing 126 credits															
	VII	Animal Biotechnology	MAJOR	IBSMSASMJ701	MJC-14	3 - 0 - 4	5	25	30	15	20	35	100	500	
		Developmental Biology	MAJOR	IBSMSASMJ702	MJC-15	3 - 0 - 4	5		30	15	20	35	100		
		Microbiology and Immunology	MAJOR	IBSMSASMJ703	MJC-16	3 - 0 - 4	5		30	15	20	35	100		
		Bioinformatics and Biostatistics	MAJOR	IBSMSASMJ704	MJC-17	3 - 0 - 4	5		30	15	20	35	100		
		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 Pool				100		
	VIII	Toxicology and Environmental Management	MAJOR	IBSMSASMJ801	MJC-18	3 - 0 - 4	5	22	30	15	20	35	100	500	
		Research Methodology and Ethics	MAJOR	IBSMSASMJ802	MJC-19	2 - 0 - 4	4		30	15	20	35	100		
		Public Health and Hygiene	MAJOR	IBSMSASMJ803	MJC-20	2 - 0 - 4	4		30	15	20	35	100		
		Wildlife Management and Ecotourism	MAJOR	IBSMSASMJ804	MJC-21	2 - 0 - 4	4		30	15	20	35	100		
		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 Pool				100		
		<b>Total Credit and Marks</b>	<b>TOTAL CREDIT</b>				<b>173</b>	<b>TOTAL MARKS</b>					<b>3350</b>		
Students who want to undertake 4-year UG Honours program will be awarded UG Degree (Honours) in the relevant Discipline / Subject provided they secure 173 credits															
	VII	Animal Biotechnology	MAJOR	IBSMSASMJ701	MJC-14	3 - 0 - 4	5	25	30	15	20	35	100	500	
		Developmental Biology	MAJOR	IBSMSASMJ702	MJC-15	3 - 0 - 4	5		30	15	20	35	100		
		Microbiology and Immunology	MAJOR	IBSMSASMJ703	MJC-16	3 - 0 - 4	5		30	15	20	35	100		
		Bioinformatics and Biostatistics	MAJOR	IBSMSASMJ704	MJC-17	3 - 0 - 4	5		30	15	20	35	100		
		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 Pool				100		
	VIII	Toxicology and Environmental Management	MAJOR	IBSMSASMJ801	MJC-18	3 - 0 - 4	5	22	30	15	20	35	100	500	
		Research Methodology and Ethics	RP	IBSMSASRP801	RPC-1	2 - 0 - 4	4		30	15	20	35	100		
		Research Project / Dissertation	RP	IBSMSASRP802	RPC-2	0 - 0 - 16	8		120		80		200		
		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 Pool				100		
		<b>Total Credit and Marks</b>	<b>TOTAL CREDIT</b>				<b>173</b>	<b>TOTAL MARKS</b>					<b>3350</b>		
Students who want to undertake 4-year UG Honours with Research program will be awarded UG Degree (Honours with Research) in the relevant Discipline / Subject provided they secure 173 credits															
	IX	<i>Will be provided later</i>													
	X	<i>Will be provided later</i>													

			<b>Total Credit and Marks</b>	<b>TOTAL CREDIT</b>		<b>TOTAL MARKS</b>	
Students who want to undertake 5-year Integrated UG Honours - PG program will be awarded Integrated UG (Honours) - PG Degree in the relevant Discipline / Subject provided they secure .... Credits (to be provided later)							

Abbreviations: MJ= Major;MJC= Major Course;MN= Minor;MNC= Minor Course; AE= Ability Enhancement; AEC= Ability Enhancement Course; SE= Skill Enhancement; SEC= 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 ;RPC= Research Project Course; VA= Value Added;VAC= Value Added Course; VC= Vocational Course; VCC= Vocational Course for Certificate; VCD= Vocational Course for Diploma; CA= Continuous Assessment, ESE= End Semester Examination, L= Lecture Hour; T= Tutorial Hour and P= Practical Hour/ Field Work and NA= Not Applicable

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.

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

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			
Animal Science	I	Diversity of Non-chordates	MINOR	IBSMSASMN101	MNC-1	3 - 0 - 4	5	NA	30	15	20	35	100	NA	
	II	Diversity of Chordates		IBSMSASMN201	MNC-2	3 - 0 - 4	5		30	15	20	35	100		
	III	Animals of Economic Importance		IBSMSASMN301	MNC-3	3 - 0 - 4	5		30	15	20	35	100		
	IV	Ecology		IBSMSASMN401	MNC-4	3 - 0 - 4	5		30	15	20	35	100		
	V	Fundamentals of Cell Biology and Genetics		IBSMSASMN501	MNC-5	3 - 0 - 4	5		30	15	20	35	100		
	VI	NA		NA		NA			NA		NA		NA		
	VII	Microbiology and Parasitology		IBSMSASMN701	MNC-6	3 - 0 - 4	5		30	15	20	35	100		
	VIII	Physiology		IBSMSASMN801	MNC-7	3 - 0 - 4	5		30	15	20	35	100		

**Semester wise Pool of Multidisciplinary Courses offered by Animal Science for other Disciplines across the Faculties**

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		
Animal Science	NA	NA	NA	NA										

**Pool of Communication Courses offered as Ability Enhancement Courses in Semester-I**

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	I	English Communication	AE	AECE101	AEC-1	4 - 0 - 0	4	NA		15		35	50	NA
		Bengali Communication		AECB101										
		Hindi Communication		AECH101										
		Urdu Communication		AECU101										

**Pool of Value Added Courses offered in Semester-IV for all Disciplines across all Faculties**

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		
NA	IV	Yoga And Health	VA	VAC401	VAC-2	4 - 0 - 0	4	NA		15		35	50	NA
		Social Values and Ethics		VAC402										
		Digital and Technological Solutions		VAC403										
		Understanding India		VAC404										
		Sustainable Development: Issues and Challenges		VAC405										
		Goods and Services Tax		VAC406										
		Basics of Indian Constitution		VAC407										

Semester wise Pool of Multidisciplinary Courses offered for all Disciplines across the Faculties:																										
Offered By 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														
Physics	I	Any One	Physical Science	MDC101	MDC-1	2 - 1 - 0	3	NA		15	35	50	NA													
BBA			E-Commerce											MDC102												
Political Science			Human Rights											MDC103												
Geography			Disaster Management											MDC104												
Physical Education			Fitness and Wellness											MDC105												
Zoology			Application of Bio-Science											MDC106												
English			Film Appreciation											MDC107												
Commerce			Accounting for All											MDC108												
History			Exploring Early Medieval Bengal: C.7th Century CE to 1206 CE											MDC109												
Bengali			Bangla Sahitya O Sanskriti											MDC110												
Economics			Money and Banking											MDC111												
Hindi			Patrakarita											MDC112												
Mathematics			Business Mathematics											MDC113												
Sociology			Indian Society											MDC114												
Philosophy			Yoga for Daily Life											MDC115												
Electronics			Electronic Measurements											MDC116												
Computer Science			Information and Communication Technology											MDC117												
Botany			Introduction to Local Flora											MDC118												
Computer Applications			Information and Media Literacy											MDC119												
Commerce			Personal Finance											MDC120												
Mathematics	II	Any One	Mathematical Science	MDC201	MDC-2	2 - 1 - 0	3	NA		15	35	50	NA													
BBA			Business Environment											MDC202												
Statistics			Basic Statistics											MDC203												
History			Understanding Medieval Bengal Select Themes: 1206 CE-1727 CE											MDC204												
Commerce			Personal Finance											MDC205												
Nutrition			Nutrition and Public Health											MDC206												
Education			Educational Philosophy											MDC207												
Psychology			Stress Management											MDC208												
Computer			Social Media and Cyber Awareness											MDC209												
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											MDC215												
Hindi			Anuvad Vigyan											MDC216												
Botany			Herbal Home Remedies											MDC217												
Geography			III											Any One	Bharatavarsha—A Land of Rare Natural Endowments	MDC301	MDC-3	2 - 1 - 0	3	NA		15	35	50	NA	
Sanskrit															The Vedangas and other Streams of Indian Knowledge System											MDC302
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	Methodology of Indian Knowledge System	MDC308																								