

 KAZI NAZRUL UNIVERSITY			FACULTY OF SCIENCE, TECHNOLOGY & VOCATIONAL STUDIES		3-Year UG Degree /4-Year UG Degree (Honours) / 4-Year UG Degree (Honours with Research)			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	Cell Biology and Biochemistry	MAJOR	BSCPHYMJ101	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			
				Human Experiment	SE	BSCPHYSE101	SEC-1	0 - 1 - 4	3		30		20		50			
			II	Cell Signalling, Enzymes and Biophysics	MAJOR	BSCPHYMJ201	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			
				Applied Work and Exercise Physiology	SE	BSCPHYSE201	SEC-2	3 - 0 - 0	3			15		35	50			
			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															
			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	Haematology and Cardiovascular System	MAJOR	BSCPHYMJ301	MJC-3	3 - 0 - 4	5	22	30	15	20	35	100	400		
				Respiration and Circulation	MAJOR	BSCPHYMJ302	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	MD-3	2 - 1 - 0	3			15		35	50			
				MIL /English Communication	AE	See Pool	AEC-2	4 - 0 - 0	4			15		35	50			
			Students opted English in SEM-I have to opt for any course from MIL (Bengali/Hindi/Urdu) in SEM -III and Students opted MIL (Bengali/Hindi/Urdu) in SEM -I have to opt English in SEM -III															
			IV	Muscle and Renal Physiology	MAJOR	BSCPHYMJ401	MJC-5	3 - 0 - 4	5	22	30	15	20	35	100	400		
Metabolism	MAJOR	BSCPHYMJ402		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							
Statistical Analysis of Physiological Parameters	SE	BSCPHYSE401		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						
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																		
IV	Vocational Course	Any One	VC	VC401	VCD-1	0 - 0 - 8	4	26	30		20			50	450			
	Summer Internship		SI	SI401	SID-1													

BSC	Physiology	V	Gastrointestinal Physiology	MAJOR	BSCPHYMJ501	MJC-7	3 - 0 - 4	5	20	30	15	20	35	100	400		
			Reproductive Physiology and Embryology	MAJOR	BSCPHYMJ502	MJC-8	3 - 0 - 4	5		30	15	20	35	100			
			Endocrinology and Chronobiology	MAJOR	BSCPHYMJ503	MJC-9	3 - 0 - 4	5		30	15	20	35	100			
			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	Molecular Biology	MAJOR	BSCPHYMJ601	MJC-10	3 - 0 - 4	5	22	30	15	20	35	100	450		
			Nervous System	MAJOR	BSCPHYMJ602	MJC-11	3 - 0 - 4	5		30	15	20	35	100			
			Sensory Physiology	MAJOR	BSCPHYMJ603	MJC-12	3 - 0 - 4	5		30	15	20	35	100			
			Microbiology and Immunology	MAJOR	BSCPHYMJ604	MJC-13	3 - 0 - 4	5		30	15	20	35	100			
			Summer Internship	SI	SI601	SIMC-1	0 - 0 - 4	2		30		20		50			
		Total Credit and Marks			TOTAL CREDIT				126	TOTAL MARKS					2350		
		Students who want to undertake 3-year UG programme will be awarded UG Degree in the relevant Discipline / Subject upon securing 126 credits															
		4 - Year UG Degree (Honours)	VII	Biostatistics and Bioinformatics	MAJOR	BSCPHYMJ701	MJC-14	3 - 0 - 4	5	25	30	15	20	35	100	500	
				Environmental Physiology	MAJOR	BSCPHYMJ702	MJC-15	3 - 0 - 4	5		30	15	20	35	100		
				Work Physiology and Occupational Health	MAJOR	BSCPHYMJ703	MJC-16	3 - 0 - 4	5		30	15	20	35	100		
				Pharmacology	MAJOR	BSCPHYMJ704	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	Sports and Exercise Physiology	MAJOR	BSCPHYMJ801	MJC-18	3 - 0 - 4	5	22	30	15	20	35	100	500	
				Stress Physiology	MAJOR	BSCPHYMJ802	MJC-19	2 - 0 - 4	4		30	15	20	35	100		
				Social Physiology and Nutrition	MAJOR	BSCPHYMJ803	MJC-20	2 - 0 - 4	4		30	15	20	35	100		
				Biotechnology and Its Applications	MAJOR	BSCPHYMJ804	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			
		Total Credit and Marks			TOTAL CREDIT				173	TOTAL MARKS					3350		
		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															
4 - Year UG Degree (Honours with Research)	VII	Biostatistics and Bioinformatics	MAJOR	BSCPHYMJ701	MJC-14	3 - 0 - 4	5	25	30	15	20	35	100	500			
		Environmental Physiology	MAJOR	BSCPHYMJ702	MJC-15	3 - 0 - 4	5		30	15	20	35	100				
		Work Physiology and Occupational Health	MAJOR	BSCPHYMJ703	MJC-16	3 - 0 - 4	5		30	15	20	35	100				
		Pharmacology	MAJOR	BSCPHYMJ704	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	Biostatistics and Bioinformatics	MAJOR	BSCPHYMJ801	MJC-18	3 - 0 - 4	5	22	30	15	20	35	100	500			
		Research Methodology	RP	BSCPHYRP801	RPC-1	4 - 0 - 0	4			30		70	100				
		Dissertation	RP	BSCPHYRP802	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					
		Total Credit and Marks			TOTAL CREDIT				173	TOTAL MARKS					3350		
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																	

Abbreviations: ML= 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

Abbreviations: MA= Major, MCA= Major Course, MIN= 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; 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 Physiology 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			
Physiology	I	Cell Biology and Biochemistry	MINOR	BSCPHYMN101	MNC-1	3 - 0 - 4	5	NA	30	15	20	35	100	NA	
	II	Cell Signalling, Enzymes and Biophysics		BSCPHYMN201	MNC-2	3 - 0 - 4	5		30	15	20	35	100		
	III	Haematology and Cardiovascular System		BSCPHYMN301	MNC-3	3 - 0 - 4	5		30	15	20	35	100		
	IV	Metabolism		BSCPHYMN401	MNC-4	3 - 0 - 4	5		30	15	20	35	100		
	V	Endocrinology and Reproductive Physiology		BSCPHYMN501	MNC-5	3 - 0 - 4	5		30	15	20	35	100		
	VI	NA		NA		NA			NA		NA		NA		
	VII	Environmental Physiology		BSCPHYMN701	MNC-6	3 - 0 - 4	5		30	15	20	35	100		
	VIII	Social Physiology and Nutrition		BSCPHYMN801	MNC-7	3 - 0 - 4	5		30	15	20	35	100		

Semester wise Pool of Multidisciplinary Courses offered by Physiology 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		
Physiology	III	Community Health Care	MD	MD314	MDC-3	2 - 1 - 0	3	NA		15		35	50	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	Any One	AE	English Communication	AEC-1	4 - 0 - 0	4	NA		15		35	50	NA
				Bengali Communication										
				Hindi Communication										
				Urdu Communication										
				Alternative English										

Pool of Communication Courses offered as Ability Enhancement Courses in Semester-III

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		
MIL / English Communication	III	Any One	AE	English Communication	AEC-2	4 - 0 - 0	4	NA		15		35	50	NA
				Bengali Communication										
				Hindi Communication										
				Urdu Communication										
				Alternative English										

Students who opted English Communication in SEM-I (AECE101) have to opt for any course from MIL (Bengali/Hindi/Urdu/Alternative English) in SEM -III and Students who opted MIL (Bengali/Hindi/Urdu/Alternative English) in SEM -I have to opt English communication (AECE301)in SEM -III

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	MD	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			Microeconomics		MDC120								
Geology	A B C D of Geology	MDC121											

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		
Mathematics	II	Any One	MD	Mathematical Science	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								
English				Contemporary India: Women and Empowerment		MDC218								
Political Science				Women Empowerment in India: Issues and Dimensions		MDC219								
Physical Education				Yoga-Vyayama		MDC220								
Commerce				Macroeconomics		MDC221								
Geology				The Past Life on Earth		MDC222								
						0- 1 - 4			30	20				

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
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Offered By Discipline	Semester	Course Name	Course Type	Course Code	Course Details	L - T - P	Course Credit	Credit	Practical	Theoretical	Practical	Theoretical	Total Marks	Sem Marks	
Geography	III	Any One	MD	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
Geology				Remote Sensing and GIS											MDC309
Physical Education				Indian Medical System and Yoga											MDC310
Urdu				Urdu Gajal											MDC311
Commerce				Indian Economy											MDC312
Computer Science				Impact of Artificial Intelligence in Education											MDC313
Physiology				Community Health Care											MDC314

Pool of Value Added Courses offered in Semester-IV for all Disciplines across all 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			
Physiology	IV	Any One	VA	VAC401	VAC-2	4 - 0 - 0	4	NA		15		35	50	NA	
Philosophy				Social Values and Ethics		VAC402	4 - 0 - 0	4	NA		15				35
Computer Science				Digital and Technological Solutions		VAC403	4 - 0 - 0	4	NA		15				35
History				Understanding India		VAC404	4 - 0 - 0	4	NA		15				35
Economics				Sustainable Development: Issues and Challenges		VAC405	4 - 0 - 0	4	NA		15				35
Commerce				Goods and Services Tax		VAC406	0 - 2 - 4	4	NA	30		20			
Political Science				Basics of Indian Constitution		VAC407	4 - 0 - 0	4	NA		15				35
Physical Education				Integrated Self Defence		VAC408	0 - 2 - 4	4	NA	30		20			