

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				
BCA	COMPUTER APPLICATION	3-year UG Degree	I	Introduction to Programming using C	MAJOR	BCAMJ101	MJC-1	3 - 0 - 4	5	20	30	15	20	35	100	350		
				Financial Accounting	MINOR	BCAMN101	MNC-1	4 - 1 - 0	5									
				Choose from the Pool of Multidisciplinary Courses offered in 1st Semester across the faculties	MD	See Pool	MDC-1	2 - 1 - 0	3									
				English/MIL Communication	AE	See Pool	AEC-1	4 - 0 - 0	4									
				Office Automation Software Lab	SE	BCASE101	SEC-1	0 - 0 - 6	3									
			II	Data Structures and Algorithms	MAJOR	BCAMJ201	MJC-2	3 - 0 - 4	5	20	30	15	20	35	100	350		
				Cost Accounting	MINOR	BCAMN201	MNC-2	4 - 1 - 0	5									
				Choose from the Pool of Multidisciplinary Courses offered in 2nd Semester across the faculties	MD	See Pool	MDC-2	2 - 1 - 0	3									
				Environment Studies	VA	VA201	VAC-1	4 - 0 - 0	4									
				Web Designing with HTML, CSS	SE	BCASE201	SEC-2	0 - 0 - 6	3									
			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	Object Oriented Programming with C ++	MAJOR	BCAMJ301	MJC-3	3 - 0 - 4	5	22	30	15	20	35	100	400		
				Digital Logic and Computer Organization	MAJOR	BCAMJ302	MJC-4	3 - 0 - 4	5									
				Introduction to Algebra and Trigonometry	MINOR	BCAMN301	MNC-3	4 - 1 - 0	5									
				Choose from the Pool of Multidisciplinary Courses offered in 3rd Semester across the faculties	MD	See Pool	MD-3	2 - 1 - 0	3									
				MIL/English Communication	AE	See Pool	AEC-2	4 - 0 - 0	4									
			Students who opted English in SEM-I 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 in SEM -III															
			IV	Operating System	MAJOR	BCAMJ401	MJC-5	3 - 0 - 4	5	22	30	15	20	35	100	400		
				Database Management System	MAJOR	BCAMJ402	MJC-6	3 - 0 - 4	5									
				Introduction to Calculus and Differential Equation	MINOR	BCAMN401	MNC-4	4 - 1 - 0	5									
				Reasoning and Aptitude	SE	BCASE401	SEC-3	3 - 0 - 0	3									
				Choose from the Pool of Value Added Course offered in 4th Semester	VA	See Pool	VAC-2	See Pool	4									
			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										
			V	Microprocessor and Computer Architecture	MAJOR	BCAMJ501	MJC-7	3 - 0 - 4	5	20	30	15	20	35	100	400		
Computer Networks	MAJOR	BCAMJ502		MJC-8	3 - 0 - 4	5												
Core Java	MAJOR	BCAMJ503		MJC-9	3 - 0 - 4	5												
Introduction to Geometry and Probability-Statistics	MINOR	BCAMN501		MNC-5	4 - 1 - 0	5												
VI	Data Mining	MAJOR	BCAMJ601	MJC-10	4 - 1 - 0	5	22	30	15	20	35	100	450					
	Software Engineering	MAJOR	BCAMJ602	MJC-11	4 - 1 - 0	5												
	Web and Internet Technology	MAJOR	BCAMJ603	MJC-12	3 - 0 - 4	5												
	Programming in Python	MAJOR	BCAMJ604	MJC-13	3 - 0 - 4	5												
	Summer Internship	SI	SI601	SIMC-1	0 - 0 - 4	2												

		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	Theory of Computation	MAJOR	BCAMJ701	MJC-14	4 - 1 - 0	5	25		30		70	100	500
		Design and Analysis of Algorithm	MAJOR	BCAMJ702	MJC-15	4 - 1 - 0	5			30		70	100	
		Artificial Intelligence and Machine Learning	MAJOR	BCAMJ703	MJC-16	3 - 0 - 4	5		30	15	20	35	100	
		Minor Project and Entrepreneurship	MAJOR	BCAMJ704	MJC-17	0 - 0 - 10	5		60		40		100	
		Principals of Management	MINOR	BCAMN701	MNC-6	4 - 1 - 0	5			30		70	100	
	VIII	Numerical and Statistical Methods	MAJOR	BCAMJ801	MJC-18	3 - 0 - 4	5	22	30	15	20	35	100	500
		Cloud Computing	MAJOR	BCAMJ802	MJC-19	3 - 1 - 0	4			30		70	100	
		Internet of Things	MAJOR	BCAMJ803	MJC-20	3 - 1 - 0	4			30		70	100	
		Dissertation/ Major Project	MAJOR	BCAMJ804	MJC-21	0 - 0 - 8	4		60		40		100	
		Management Information System	MINOR	BCAMN801	MNC-7	4 - 1 - 0	5			30		70	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	Theory of Computation	MAJOR	BCAMJ701	MJC-14	4 - 1 - 0	5	25		30		70	100	500
		Design and Analysis of Algorithm	MAJOR	BCAMJ702	MJC-15	4 - 1 - 0	5			30		70	100	
		Artificial Intelligence and Machine Learning	MAJOR	BCAMJ703	MJC-16	3 - 0 - 4	5		30	15	20	35	100	
		Minor Project and Entrepreneurship	MAJOR	BCAMJ704	MJC-17	0 - 0 - 10	5		60		40		100	
		Principals of Management	MINOR	BCAMN701	MNC-6	4 - 1 - 0	5			30		70	100	
	VIII	Numerical and Statistical Methods	MAJOR	BCAMJ801	MJC-18	3 - 0 - 4	5	22	30	15	20	35	100	500
		Research Methodology	RP	BCARP801	RPC-1	4 - 0 - 0	4			30		70	100	
		Research Project / Dissertation	RP	BCARP802	RPC-2	0 - 0 - 16	8		120		80		200	
		Management Information System	MINOR	BCAMN801	MNC-7	4 - 1 - 0	5			30		70	100	
				Total Credit and Marks	TOTAL CREDIT					173	TOTAL MARKS			

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: 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 COMPUTER APPLICATION 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		

Semester wise Pool of Multidisciplinary Courses offered by COMPUTER APPLICATION 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		
COMPUTER APPLICATION	I	Information and Media Literacy	MD	MDC119	MDC-1	2 - 1 - 0	3	NA		15		35	50	

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	English Communication	AE	AECE101	AEC-1	4 - 0 - 0	4	NA	15	35	50	NA
			Bengali Communication		AECB101								
			Hindi Communication		AECH101								
			Urdu Communication		AECU101								
			Alternative English		AECAE101								

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	English Communication	AE	AECE301	AEC-2	4 - 0 - 0	4	NA	15	35	50	NA	
			Bengali Communication		AECB301									
			Hindi Communication		AECH301									
			Urdu Communication		AECU301									
			Alternative English		AECAE301									

Students who opted English in SEM-I 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 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	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				MDC201		2 - 1 - 0			15	35				
BBA				Mathematical Science									MDC202	
Statistics				Business Environment									MDC203	
History				Basic Statistics									MDC204	
Commerce				Understanding Medieval Bengal Select Themes: 1206 CE-1727 CE									MDC205	
Nutrition				Personal Finance									MDC206	
Education				Nutrition and Public Health									MDC207	
Psychology				Educational Philosophy									MDC208	
Computer				Stress Management									MDC209	
				Social Media and Cyber Awareness									MDC209	

Bengali	II	Any One	Adhunik Bangla Sahitya	MD	MDC210	MDC-2	3	NA	30	20	50	NA	
Nazrul Sangeet			Nazrul Sangeet		MDC211								0- 1- 4
Electronics			E-Waste Management		MDC212								2 - 1 - 0
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								

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		
Geography	III	Any One	MD	MDC301	MDC-3	2 - 1 - 0	3	NA	15	35	50	NA		
Sanskrit				Bharatavarsha - A Land of Rare Natural Endowments									MDC302	
Physics				The Vedangas and other Streams of Indian Knowledge System									MDC303	
Zoology				Indian Astronomy									MDC304	
Mathematics				Indian Health Sciences									MDC305	
Education				Indian Mathematics									MDC306	
Political Sc				Indian Education									MDC307	
Philosophy				Indian Polity and Economy									MDC308	
Geology				Methodology of Indian Knowledge System									MDC309	
Physical Education				Remote Sensing and GIS									MDC310	
Urdu				Indian Medical System and Yoga									MDC311	
Commerce				Urdu Gajal									MDC312	
Computer Science				Indian Economy									MDC313	
Physiology				Impact of Artificial Intelligence in Education									MDC314	
		Community Health Care												

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	
Computer Science				Digital and Technological Solutions									VAC403	
History				Understanding India									VAC404	
Economics				Sustainable Development: Issues and Challenges									VAC405	
Commerce				Goods and Services Tax									VAC406	
Political Science				Basics of Indian Constitution									VAC407	
Physical Education				Integrated Self Defence		VAC408								
				0- 2 - 4	30	20								

