

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				
BSC	COMPUTER SCIENCE	3-year UG Degree	I	Introduction to Programming using C	MAJOR	BSCCOSMJ101	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			
				Office Automation Software Lab	SE	BSCCOSSE101	SEC-1	0 - 0 - 6	3		30		20		50			
			II	Data Structures and Algorithms	MAJOR	BSCCOSMJ201	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			
				Basics of Python	SE	BSCCOSSE201	SEC-2	0 - 0 - 6	3		30		20		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	Discrete Mathematics	MAJOR	BSCCOSMJ301	MJC-3	4 - 1 - 0	5	22		30		70	100	400		
				Digital Logic and Computer Organization	MAJOR	BSCCOSMJ302	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 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	BSCCOSMJ401	MJC-5	3 - 0 - 4	5	22	30	15	20	35	100	400		
Object Oriented Design and Programming	MAJOR	BSCCOSMJ402		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							
Web Programming	SE	BSCCOSSE401		SEC-3	0 - 0 - 6	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													
V	Design and Analysis of Algorithms	MAJOR	BSCCOSMJ501	MJC-7	4 - 1 - 0	5	20		30		70	100	400					
	Database Management System	MAJOR	BSCCOSMJ502	MJC-8	3 - 0 - 4	5		30	15	20	35	100						
	Computer Networks	MAJOR	BSCCOSMJ503	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	Cryptography and Network Security	MAJOR	BSCCOSMJ601	MJC-10	4 - 1 - 0	5	22	30	15	20	35	100	450						
	Theory of Computation	MAJOR	BSCCOSMJ602	MJC-11	4 - 1 - 0	5													
	Computer Graphics	MAJOR	BSCCOSMJ603	MJC-12	3 - 0 - 4	5													
	Software Engineering	MAJOR	BSCCOSMJ604	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																			
VII	Data Mining	MAJOR	BSCCOSMJ701	MJC-14	4 - 1 - 0	5	25	30	15	20	35	100	500						
	Internet of Things	MAJOR	BSCCOSMJ702	MJC-15	4 - 1 - 0	5													
	Artificial Intelligence and Machine Learning	MAJOR	BSCCOSMJ703	MJC-16	3 - 0 - 4	5													
	Embedded System	MAJOR	BSCCOSMJ704	MJC-17	3 - 0 - 4	5													
	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	Data Analytics	MAJOR	BSCCOSMJ801	MJC-18	3 - 0 - 4	5	22	30	15	20	35	100	500						
	Cloud Computing	MAJOR	BSCCOSMJ802	MJC-19	3 - 1 - 0	4													
	Mobile Application Development	MAJOR	BSCCOSMJ803	MJC-20	3 - 1 - 0	4													
	Dissertation/ Major Project	MAJOR	BSCCOSMJ804	MJC-21	0 - 0 - 8	4													
	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																			
VII	Data Mining	MAJOR	BSCCOSMJ701	MJC-14	4 - 1 - 0	5	25	30	15	20	35	100	500						
	Internet of Things	MAJOR	BSCCOSMJ702	MJC-15	4 - 1 - 0	5													
	Artificial Intelligence and Machine Learning	MAJOR	BSCCOSMJ703	MJC-16	3 - 0 - 4	5													
	Embedded System	MAJOR	BSCCOSMJ704	MJC-17	3 - 0 - 4	5													
	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	Data Analytics	MAJOR	BSCCOSMJ801	MJC-18	3 - 0 - 4	5	22	30	15	20	35	100	500						
	Research Methodology	RP	BSCCOSRP801	RPC-1	4 - 0 - 0	4													
	Dissertation	RP	BSCCOSRP802	RPC-2	0 - 0 - 16	8													
	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				
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 SCIENCE 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		
CS	1	Introduction to Programming using C		BSCCOSMN101	MNC-1	3 - 0 - 4	5		30	15	20	35	100	

COMPUTER SCIENC	II	Data Structures and Algorithms	MINOR	BSCCOSMN201	MNC-2	3 - 0 - 4	5	NA	30	15	20	35	100	NA
	III	Digital Logic and Computer Organization		BSCCOSMN301	MNC-3	3 - 0 - 4	5		30	15	20	35	100	
	IV	Database Management System		BSCCOSMN401	MNC-4	3 - 0 - 4	5		30	15	20	35	100	
	V	Operating System and Shell Scripts		BSCCOSMN501	MNC-5	3 - 0 - 4	5		30	15	20	35	100	
	VI	NA		NA					NA					
	VII	Computer Networks		BSCCOSMN701	MNC-6	3 - 0 - 4	5		30	15	20	35	100	
	VIII	Artificial Intelligence and Machine Learning		BSCCOSMN801	MNC-7	3 - 0 - 4	5		30	15	20	35	100	

Semester wise Pool of Multidisciplinary Courses offered by COMPUTER 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		
COMPUTER SCIENCE	I	Information and Communication Technology	MD	MDC117	MDC-1	2 - 1 - 0	3	NA		15		35	50	
	II	Social Media and Cyber Awareness	MD	MDC209	MDC-2	2 - 1 - 0	3	NA		15		35	50	
	III	Impact of Artificial Intelligence in Education	MD	MDC313	MDC-3	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	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	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 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	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	Mathematical Science	MD	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										
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			
						2 - 1 - 0				15	35			

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	Bharatavarsha - A Land of Rare Natural Endowments	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	Yoga and Health	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										