

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	Chemistry	3-year UG Degree	I	General Chemistry - I	MAJOR	BSCCEMMJ101	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				
				Industrial Chemistry	SE	BSCCEMSE101	SEC-1	2 - 1 - 0	3			15		35	50				
			II	General Chemistry - II	MAJOR	BSCCEMMJ201	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				
				Pharmaceutical Chemistry	SE	BSCCEMSE201	SEC-2	2 - 1 - 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	Inorganic Chemistry-I	MAJOR	BSCCEMMJ301	MJC-3	3 - 0 - 4	5	22	30	15	20	35	100	400			
				Physical Chemistry-I	MAJOR	BSCCEMMJ302	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	Organic Chemistry-I	MAJOR	BSCCEMMJ401	MJC-5	3 - 0 - 4	5	22	30	15	20	35	100	400			
				Physical Chemistry-II	MAJOR	BSCCEMMJ402	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								
Fuel Chemistry	SE	BSCCEMSE401		SEC-3	2 - 1 - 0	3		15			35	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	Inorganic Chemistry-II	MAJOR	BSCCEMMJ501	MJC-7	3 - 0 - 4	5	20	30	15	20	35	100	400						
	Organic Chemistry-II	MAJOR	BSCCEMMJ502	MJC-8	3 - 0 - 4	5		30	15	20	35	100							
	Physical Chemistry-III	MAJOR	BSCCEMMJ503	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	Inorganic Chemistry-III	MAJOR	BSCCEMMJ601	MJC-10	3 - 0 - 4	5	22	30	15	20	35	100	450
	Inorganic Chemistry-IV	MAJOR	BSCCEMMJ602	MJC-11	3 - 0 - 4	5		30	15	20	35	100	
	Organic Chemistry-III	MAJOR	BSCCEMMJ603	MJC-12	3 - 0 - 4	5		30	15	20	35	100	
	Physical Chemistry-IV	MAJOR	BSCCEMMJ604	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	Inorganic Chemistry-V	MAJOR	BSCCEMMJ701	MJC-14	3 - 0 - 4	5	25	30	15	20	35	100	500
		Organic Chemistry-IV	MAJOR	BSCCEMMJ702	MJC-15	3 - 0 - 4	5		30	15	20	35	100	
		Organic Chemistry-V	MAJOR	BSCCEMMJ703	MJC-16	3 - 0 - 4	5		30	15	20	35	100	
		Physical Chemistry-V	MAJOR	BSCCEMMJ704	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	Advanced General Chemistry-I	MAJOR	BSCCEMMJ801	MJC-18	3 - 0 - 4	5	22	30	15	20	35	100	500
		Advanced Inorganic Chemistry-I	MAJOR	BSCCEMMJ802	MJC-19	2 - 0 - 4	4		30	15	20	35	100	
		Advanced Organic Chemistry-I	MAJOR	BSCCEMMJ803	MJC-20	2 - 0 - 4	4		30	15	20	35	100	
		Advanced Physical Chemistry-I	MAJOR	BSCCEMMJ804	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	Inorganic Chemistry-V	MAJOR	BSCCEMMJ701	MJC-14	3 - 0 - 4	5	25	30	15	20	35	100	500
		Organic Chemistry-IV	MAJOR	BSCCEMMJ702	MJC-15	3 - 0 - 4	5		30	15	20	35	100	
		Organic Chemistry-V	MAJOR	BSCCEMMJ703	MJC-16	3 - 0 - 4	5		30	15	20	35	100	
		Physical Chemistry-V	MAJOR	BSCCEMMJ704	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	Advanced General Chemistry-I	MAJOR	BSCCEMMJ801	MJC-18	3 - 0 - 4	5	22	30	15	20	35	100	500
		Research Methodology and Ethics	RP	BSCCEMRP801	RPC-1	4 - 0 - 0	4			30		70	100	
		Research Project / Dissertation	RP	BSCCEMRP802	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: 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 Chemistry 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			
Chemistry	I	General Chemistry - I	MINOR	BSCCEMMN101	MNC-1	3 - 0 - 4	5	NA	30	15	20	35	100	NA	
	II	General Chemistry - II		BSCCEMMN201	MNC-2	3 - 0 - 4	5		30	15	20	35	100		
	III	Inorganic & Organic Chemistry		BSCCEMMN301	MNC-3	3 - 0 - 4	5		30	15	20	35	100		
	IV	Organic & Physical Chemistry		BSCCEMMN401	MNC-4	3 - 0 - 4	5		30	15	20	35	100		
	V	Inorganic & Physical Chemistry		BSCCEMMN501	MNC-5	3 - 0 - 4	5		30	15	20	35	100		
	VI	NA		NA		NA			NA		NA		NA		
	VII	Advanced Physical Chemistry		BSCCEMMN701	MNC-6	3 - 0 - 4	5		30	15	20	35	100		
	VIII	Advanced Inorganic & Organic Chemistry		BSCCEMMN801	MNC-7	3 - 0 - 4	5		30	15	20	35	100		

Semester wise Pool of Multidisciplinary Courses offered by Chemistry 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		
Chemistry	II	Chemical Science	MD	MDC213		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	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	Any One	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	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	I	Any	Money and Banking	MD	MDC111	MDC-1	2 - 1 - 0	3	NA	15	35	50	NA											
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	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																						
Geography	III	Any One		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																				