

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	Electronics	3-year UG Degree	I	Basic Electronics	MAJOR	BSCELCMJ101	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				
				Design and Fabrication of Electronic Circuit-I	SE	BSCELCSE101	SEC-1	0 - 0 - 6	3		30		20		50				
			II	Solid State Electronics	MAJOR	BSCELCMJ201	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				
				Design and Fabrication of Electronic Circuit-II	SE	BSCELCSE201	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	Network Analysis and Circuit Theory	MAJOR	BSCELCMJ301	MJC-3	3 - 0 - 4	5	22	30	15	20	35	100	400			
				Mathematical Methods and Statistical Mechanics	MAJOR	BSCELCMJ302	MJC-4	4 - 1 - 0	5			30		70	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	Electromagnetic Theory	MAJOR	BSCELCMJ401	MJC-5	4 - 1 - 0	5	22		30		70	100	400			
Analog Electronics I	MAJOR	BSCELCMJ402		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								
Communication Lab	SE	BSCELCSE401		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	Analog Electronics-II	MAJOR	BSCELCMJ501	MJC-7	3 - 0 - 4	5	20	30	15	20	35	100	400						
	Digital Electronics-I	MAJOR	BSCELCMJ502	MJC-8	3 - 0 - 4	5		30	15	20	35	100							
	Analog Communication	MAJOR	BSCELCMJ503	MJC-9	4 - 1 - 0	5			30		70	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		Digital Electronics-II	MAJOR	BSCELCMJ601	MJC-10	3 - 0 - 4	5	22	30	15	20	35	100	450
		Optoelectronic Devices	MAJOR	BSCELCMJ602	MJC-11	4 - 1 - 0	5		30	30		70	100	
		Control System	MAJOR	BSCELCMJ603	MJC-12	4 - 1 - 0	5			30		70	100	
		Optical Communication	MAJOR	BSCELCMJ604	MJC-13	4 - 1 - 0	5			30		70	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	Intrumentation and Measurements	MAJOR	BSCELCMJ701	MJC-14	3 - 0 - 4	5	25	30	15	20	35	100	500	
		Satellite Communication	MAJOR	BSCELCMJ702	MJC-15	4 - 1 - 0	5				30		70		100
		Microwave System	MAJOR	BSCELCMJ703	MJC-16	4 - 1 - 0	5				30		70		100
		Sensors and Transducers	MAJOR	BSCELCMJ704	MJC-17	4 - 1 - 0	5				30		70		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	Antenna and Wave Propagation	MAJOR	BSCELCMJ801	MJC-18	4 - 1 - 0	5	22		30		70	100	500	
		Power Electronics	MAJOR	BSCELCMJ802	MJC-19	3 - 1 - 0	4			30		70	100		
		Microprocessor and Microcontroller	MAJOR	BSCELCMJ803	MJC-20	3 - 1 - 0	4			30		70	100		
		Radio and Television	MAJOR	BSCELCMJ804	MJC-21	3 - 1 - 0	4			30		70	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	Intrumentation and Measurements	MAJOR	BSCELCMJ701	MJC-14	3 - 0 - 4	5	25	30	15	20	35	100	500	
		Satellite Communication	MAJOR	BSCELCMJ702	MJC-15	4 - 1 - 0	5				30		70		100
		Microwave System	MAJOR	BSCELCMJ703	MJC-16	4 - 1 - 0	5				30		70		100
		Sensors and Transducers	MAJOR	BSCELCMJ704	MJC-17	4 - 1 - 0	5				30		70		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	Quantum Electronics	MAJOR	BSCELCMJ801	MJC-18	4 - 1 - 0	5	22		30		70	100	500	
		Research Methodology	RP	BSCELCRP801	RPC-1	4 - 0 - 0	4			30		70	100		
		Research Project / Dissertation	RP	BSCELCRP802	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 Electronics 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		

Electronics	I	Basic Electronics	MINOR	BSCELCMN101	MNC-1	3 - 0 - 4	5	NA	30	15	20	35	100	NA
	II	Solid State Electronics		BSCELCMN201	MNC-2	3 - 0 - 4	5		30	15	20	35	100	
	III	Network Analysis and Circuit Theory		BSCELCMN301	MNC-3	3 - 0 - 4	5		30	15	20	35	100	
	IV	Analog Electronics		BSCELCMN401	MNC-4	3 - 0 - 4	5		30	15	20	35	100	
	V	Digital Electronics		BSCELCMN501	MNC-5	3 - 0 - 4	5		30	15	20	35	100	
	VI	NA		NA	NA	NA	NA		NA	NA	NA	NA	NA	
	VII	Intrumentation and Measurements		BSCELCMN601	MNC-6	3 - 0 - 4	5		30	15	20	35	100	
	VIII	Fibre Optics		BSCELCMN701	MNC-7	3 - 0 - 4	5		30	15	20	35	100	

Electronics	II	E-Waste Management	MD	MDC212	MDC-2	2 - 1 - 0	3	NA		15		35	50	
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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 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	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			

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										
Commerce		Goods and Services Tax		VAC406										
Political Science		Basics of Indian Constitution		VAC407										
Physical Education		Integrated Self Defence		VAC408		0- 2 - 4			30	20				