


KAZI NAZRUL UNIVERSITY			FACULTY OF SCIENCE		DEGREE PROGRAMME: 3 YEARS BACHELOR OF COMPUTER APPLICATION/4 YEARS BACHELOR OF COMPUTER APPLICATION HONOURS/ 4 YEARS BACHELOR OF COMPUTER APPLICATION HONOURS WITH RESEARCH			WITH EFFECT FROM THE ACADEMIC SESSION: 2023-24										
Abbreviated Degree		Abbreviated 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			
COMPUTER APPLICATION N	BCA	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			30		70	100		
			Choose from the Pool of Multidisciplinary Courses offered in 1st Semester			MD	See Pool	MDC-1	3 - 0 - 0	3			15		35	50		
			English/MIL Communication			AEC	See Pool	AEC-1	4 - 0 - 0	4			15		35	50		
			Office Automation Software Lab			SEC	BCASE101	SEC-1	0 - 0 - 6	3		30	20		50			
		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			30		70	100		
			Choose from the Pool of Multidisciplinary Courses offered in 2nd Semester			MD	See Pool	MDC-2	3 - 0 - 0	3			15		35	50		
			Environment Studies			VAC	VAC201	VAC-1	4 - 0 - 0	4			15		35	50		
			Web Designing with HTML, CSS			SEC	BCASE201	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 4 credits in work based vocational courses offered during summer term or internship / Apprenticeship. In addition to 6 credits from skill- based courses earned during first and second semester																
		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		30	15	20	35	100		
			Introduction to Algebra			MINOR	BCAMN301	MNC-3	4 - 1 - 0	5			30		70	100		
			Choose from the Pool of Multi-Disciplinary Courses offered in 3rd Semester			MD	See Pool	MD-3	2 - 1 - 0	3			15		35	50		
			English Communication			AE	AECCE301	AECC-2	4 - 0 - 0	4			15		35	50		
		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		30	15	20	35	100		
			Introduction to Calculus and Differential Equation			MINOR	BCAMN401	MNC-4	4 - 1 - 0	5			30		70	100		
			Reasoning and Aptitude			SEC	BCASE401	SEC-3	3 - 0 - 0	3			15		35	50		
			VALUE ADDED COURSE- Choose from the Pool of VAC offered in 4th Semester		(Any One)	VAC	See Pool	VAC-2	4 - 0 - 0	4			15		35	50		
		Students exiting the programmes after securing 80 credits will be awarded UG Diploma in the relevant Discipline/Subject provided they secure additional 4 credits in skill based vocational courses offered during first year or second year summer term																
		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		30	15	20	35	100		
			Core Java			MAJOR	BCAMJ503	MJC-9	3 - 0 - 4	5		30	15	20	35	100		
			Introduction to Geometry and Probability- Statistics			MINOR	BCAMN501	MNC-5	4 - 1 - 0	5			30		70	100		
		VI	Data Mining			MAJOR	BCAMJ601	MJC-10	4 - 1 - 0	5	22		30		70	100	450	
			Software Engineering			MAJOR	BCAMJ602	MJC-11	4 - 1 - 0	5			30		70	100		
			Web and Internet Technology			MAJOR	BCAMJ603	MJC-12	3 - 0 - 4	5		30	15	20	35	100		
			Programming in Python			MAJOR	BCAMJ604	MJC-13	3 - 0 - 4	5		30	15	20	35	100		
			Summer Internship			SI	BCASI601	SI-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																
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				


4 YEARS DEGREE WITH HONOURS		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 will be awarded UG Degree (Honours) in the relevant Discipline / Subject provided they secure 173 credits															
	4 YEARS DEGREE WITH 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	RP-1	4 - 0 - 0	4			15		35	50		
		RESEARCH PROJECT / DISSERTATION		RP	BCARP802	RP-2	0 - 0 - 16	8		150		100		250		
		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 will be awarded UG Degree (Honours) with Research in the relevant Discipline / Subject provided they secure 173 credits																
Abbreviations: MJC= Major (Core); AE= Ability Enhancement; AECC= Ability Enhancement Compulsory Course; MNC= Minor (Core); SE= Skill Enhancement; SEC= Skill Enhancement Course; MD= Multidisciplinary Course; SI - Summer Internship; RP= Research Project; VAC= Value Added Course; CA= Continuous Assessment, ESE= End Semester Examination, L= Lecture Hour; T= Tutorial Hour and P= Practical Hour/ Field Work and NA= Not Applicable																
Semester wise Pool of Multidisciplinary Courses Offered																
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			
	I	Physical Science (FROM PHYSICS)	(Any One)		MDC101	MD-1	3 - 0 - 0	3			15		35	50		
		E-Commerce (FROM BBA)			MDC102		3 - 0 - 0				15		35			
		Human Rights (FROM POLITICAL SCIENCE)			MDC103		3 - 0 - 0				15		35			
		Disaster Management (FROM GEOGRAPHY)			MDC104		3 - 0 - 0				15		35			
		Fitness and Wellness (FROM PHYSICAL EDUCATION)			MDC105		3 - 0 - 0				15		35			
		Application of Bio-Science (FROM ZOOLOGY)			MDC106		3 - 0 - 0				15		35			
		Film Appreciation (FROM ENGLISH)			MDC107		3 - 0 - 0				15		35			
		Accounting for All (FROM COMMERCE)			MDC108		3 - 0 - 0				15		35			
		History of Ancient Bengal (FROM HISTORY)			MDC109		3 - 0 - 0				15		35			
		Bangla Sahitya O Sanskriti (FROM BENGALI)			MDC110		3 - 0 - 0				15		35			
		Money and Banking (From Economics)			MDC111		3 - 0 - 0				15		35			
		Patrakarita (FROM HINDI)			MDC112		3 - 0 - 0				15		35			
		Business Mathematics (From Mathematics)			MDC113		3 - 0 - 0				15		35			
		Indian Society (From Sociology)			MDC114		3 - 0 - 0				15		35			
		Yoga for Daily Life (From Philosophy)			MDC115		3 - 0 - 0				15		35			
		Electronic Measurements (From Electronics)			MDC116		3 - 0 - 0				15		35			
		Information and Communication Technology (FROM COMPUTER SC)			MDC117		3 - 0 - 0				15		35			
		Introduction to Local Flora (From Botany)			MDC118						15		35			
		Information and Media Literacy			MDC119		3 - 0 - 0				15		35			

MULTI DISCIPLINARY	II	Mathematical Science (FROM MATHEMATICS)	(Any One)	MD	MDC201	MD-2	3 - 0 - 0	3	NA		15		35	50
		Business Environment (FROM BBA)			MDC202		3 - 0 - 0				15		35	
		Basic Statistics (From Statistics)			MDC203		3 - 0 - 0				15		35	
		Cultural History of Bengal (FROM HISTORY)			MDC204		3 - 0 - 0				15		35	
		Personal Finance (FROM COMMERCE)			MDC205		3 - 0 - 0				15		35	
		Nutrition and Public Health (FROM NUTRITION)			MDC206		3 - 0 - 0				15		35	
		Educational Philosophy (FROM EDUCATION)			MDC207		3 - 0 - 0				15		35	
		Stress Management (FROM PSYCHOLOGY)			MDC208		3 - 0 - 0				15		35	
		Social Media and Cyber Awareness (From Computer Science)			MDC209		3 - 0 - 0				15		35	
		Adhunik Bangla Sahitya (FROM BENGALI)			MDC210		3 - 0 - 0				15		35	
		Nazrul Sangeet (From Nazrul Sangeet)			MDC211		3 - 0 - 0				15		35	
		E-Waste Management (From Electronics)			MDC212		3 - 0 - 0				15		35	
		Chemical Science (From Chemistry)			MDC213		3 - 0 - 0				15		35	
		Critical Survey of Sanskrit Language (From Sanskrit)			MDC214		3 - 0 - 0				15		35	
		Asnaf- e -Adab (From Urdu)			MDC215		3 - 0 - 0				15		35	
		Anuvad Vigyan (From Hindi)			MDC216									
		Herbal Home Remedies (From Botany)			MDC217									
		Contemporary India: Women and Empowerment (From English)			MDC218		3 - 0 - 0				15		35	
	III	Bharatavarsha—A Land of Rare Natural Endowments (FROM GEOGRAPHY)	(Any One)		MDC301	MD-3	3 - 0 - 0	3		15		35	50	
		The Vedangas and Other Streams of Indian Knowledge System (FROM SANSKRIT)			MDC302		3 - 0 - 0			15		35		
		Indian Astronomy (FROM PHYSICS)			MDC303		3 - 0 - 0			15		35		
		Indian Health Sciences (FROM ZOOLOGY)			MDC304		3 - 0 - 0			15		35		
		Indian Mathematics (FROM MATHEMATICS)			MDC305		3 - 0 - 0			15		35		
		Indian Education (FROM EDUCATION)			MDC306		3 - 0 - 0			15		35		
		Indian Polity and Economy (FROM POLITICAL SC)			MDC307		3 - 0 - 0			15		35		
		Methodology of Indian Knowledge System (From Philosophy)			MDC308		3 - 0 - 0			15		35		

Pool of Communication Courses offered as Ability Enhancement Compulsary Courses															
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	(Any One)	AE	AECCE101	AECC-2	4 - 0 - 0	4	NA		15		35	50	NA
		Bengali Communication			AECCB101		4 - 0 - 0				15		35		
		Hindi Communication			AECCH101		4 - 0 - 0				15		35		
		Urdu Communication			AECCU101		4 - 0 - 0				15		35		

Semesterwise Pool of Value Added Courses offered															
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		
VALUE ADDED	IV	Yoga and Health (FROM PHYSIOLOGY)	(Any One)	VAC	VAC401	VAC-2	4 - 0 - 0	4	NA		15		35	50	NA
		Social Values and Ethics (FROM PHILOSOPHY)			VAC402		4 - 0 - 0				15		35		
		Digital and Technological Solutions (FROM COMPUTER SCIENCE)			VAC403		4 - 0 - 0				15		35		
		Understanding India (FROM HISTORY)			VAC404		4 - 0 - 0				15		35		
		Sustainable Development: Issues and Challenges (FROM ECONOMICS)			VAC405		4 - 0 - 0				15		35		
		Goods and Services Tax (FROM COMMERCE)			VAC406		4 - 0 - 0				15		35		
		Basics of Indian Constitution (FROM POLITICAL SCIENCE)			VAC407		4 - 0 - 0				15		35		

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Abbreviated Degree	Discipline	Abbreviated 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	BCA	I	Computer Fundamentals		C	BCAC101	CC-1	3 - 1 - 0	4	24		20		80	100	550
				Programming in C			BCAC102	CC-2	3 - 1 - 0	4			20		80	100	
				Mathematics - I			BCAC103	CC-3	3 - 1 - 0	4			20		80	100	
				Software Lab - I : PC Software			BCAC104	CC-4	0 - 0 - 8	4		60		40		100	
				Software Lab - II : Programming in C			BCAC105	CC-5	0 - 0 - 8	4		60		40		100	
				Environment Studies		AE	AEE101	AECC-1	4 - 0 - 0	4			10		40	50	
			II	Digital Logic		C	BCAC201	CC-6	3 - 1 - 0	4	24		20		80	100	550
				Data Structure			BCAC202	CC-7	3 - 1 - 0	4			20		80	100	
				Accounting & Costing			BCAC203	CC-8	3 - 1 - 0	4			20		80	100	
				Software Lab - III : Data Structure			BCAC204	CC-9	0 - 0 - 8	4		60		40		100	
				Hardware Lab - I : Digital Logic			BCAC205	CC-10	0 - 0 - 8	4		60		40		100	
				English/MIL Communication		AE	See Pool	AECC-2	4 - 0 - 0	4			10		40	50	
			III	Object Oriented Programming with C ++		C	BCAC301	CC-11	3 - 1 - 0	4	28		20		80	100	650
				Operating Systems			BCAC302	CC-12	3 - 1 - 0	4			20		80	100	
				Mathematics - II			BCAC303	CC-13	3 - 1 - 0	4			20		80	100	
				Software Lab - IV : Object Oriented Programming with C ++			BCAC304	CC-14	0 - 0 - 8	4		60		40		100	
				Software Lab - V : Unix and Shell Programming			BCAC305	CC-15	0 - 0 - 8	4		60		40		100	
				Business System & Application		(Any One)	BCAGE301	GEC-1	3 - 1 - 0	4			20		80	100	
				Multimedia System Design			BCAGE302	GEC-1	3 - 1 - 0	4			20		80	100	
				Reasoning & Aptitude		SE	BCASE301	SEC-1	4 - 0 - 0	4			10		40	50	
			IV	Data Base Management System		C	BCAC401	CC-16	3 - 1 - 0	4	28		20		80	100	650
				Computer Networks			BCAC402	CC-17	3 - 1 - 0	4			20		80	100	
				Computer Organization and Architecture			BCAC403	CC-18	3 - 1 - 0	4			20		80	100	
				Software Lab - VI : SQL & PLSQL			BCAC404	CC-19	0 - 0 - 8	4		60		40		100	
				Software Lab - VII : Visual Basic			BCAC405	CC-20	0 - 0 - 8	4		60		40		100	
				Information System Analysis & Design		(Any One)	BCAGE401	GEC-2	3 - 1 - 0	4			20		80	100	
				Microprocessor and its Applications			BCAGE402	GEC-2	3 - 1 - 0	4			20		80	100	
				Communicative English		SE	BCASE401	SEC-2	4 - 0 - 0	4			10		40	50	
			V	Software Engineering		C	BCAC501	CC-21	3 - 1 - 0	4	28		20		80	100	700
				E-commerce and Internet			BCAC502	CC-22	3 - 1 - 0	4			20		80	100	
				Mathematics - III			BCAC503	CC-23	3 - 1 - 0	4			20		80	100	
				Core Java			BCAC504	CC-24	3 - 1 - 0	4			20		80	100	
				Software Lab - VIII : E-commerce using HTML and PHP			BCAC505	CC-25	0 - 0 - 8	4		60		40		100	
				Software Lab - IX : Core Java			BCAC506	CC-26	0 - 0 - 8	4		60		40		100	
				Introduction to Cyber Security		(Any One)	BCAGE501	GEC-3	3 - 1 - 0	4			20		80	100	
				Image Processing			BCAGE502	GEC-3	3 - 1 - 0	4			20		80	100	
				Intelligent Systems			BCAGE503	GEC-3	3 - 1 - 0	4			20		80	100	
			VI	Programming in Python		C	BCAC601	CC-27	3 - 1 - 0	4	24		20		80	100	600
				C#.NET			BCAC602	CC-28	3 - 1 - 0	4			20		80	100	
				Software Lab - X : Python Programming			BCAC603	CC-29	0 - 0 - 8	4		60		40		100	
				Software Lab - XI : C#.NET			BCAC604	CC-30	0 - 0 - 8	4		60		40		100	
				Project Work and Viva			BCAC605	CC-31	0 - 0 - 8	4		60		40		100	
				Computer Graphics		(Any One)	BCAGE601	GEC-4	3 - 1 - 0	4			20		80	100	
				Theory of Computation			BCAGE602	GEC-4	3 - 1 - 0	4			20		80	100	
				Cloud Computing			BCAGE603	GEC-4	3 - 1 - 0	4			20		80	100	
Total Credit and Marks										156		3700					
Abbreviations: C= Core; CC=Core Course; AE= Ability Enhancement; AECC= Ability Enhancement Compulsory Course; GE= Generic Elective; GEC= Generic Elective Course; SE= Skill Enhancement; SEC= Skill Enhancement Course; DSE= Discipline Specific Elective; DSEC= Discipline Specific Elective Course; CA= Continuous Assessment, ESE= End Semester Examination, L= Lecture Hour; T= Tutorial Hour and P= Practical Hour/ Field Work and NA= Not Applicable																	
Generic Elective Courses (GEC) : Students of a particular Honours Course will choose from the Pool of Generic Elective Courses offered by Disciplines other than the Discipline in which Honours course is taken																	
Semesterwise Pool of Generic Elective Courses offered by this Discipline																	
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	
		III	Business System & Application		(Any One)		BCAGE301	GEC-1	3 - 1 - 0	4			20		80	100	
			Multimedia System Design				BCAGE302	GEC-1	3 - 1 - 0								
		...	Information System Analysis & Design		(Any One)		BCAGE401	GEC-2	3 - 1 - 0	4			20		80	100	

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Abbreviated Degree	Discipline	Abbreviated 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						
COMPUTER APPLICATION				IV	Microprocessor and its Applications	(Any One) <td>BCAGE402</td> <td rowspan="4">GEC-2</td> <td>3 - 1 - 0</td> <td rowspan="4">4<th rowspan="9">NA</th><td></td><td>20</td><td></td><td>80</td><td rowspan="4">100</td><th rowspan="9">NA</th></td>	BCAGE402	GEC-2	3 - 1 - 0	4 <th rowspan="9">NA</th> <td></td> <td>20</td> <td></td> <td>80</td> <td rowspan="4">100</td> <th rowspan="9">NA</th>	NA		20		80	100	NA						
					Introduction to Cyber Security		BCAGE501		3 - 1 - 0				20		80								
					Image Processing		BCAGE502		3 - 1 - 0				20		80								
					Intelligent Systems		BCAGE503		3 - 1 - 0				20		80								
				VI	Computer Graphics	(Any One) <td>BCAGE601</td> <td rowspan="5">GEC-4</td> <td>3 - 1 - 0</td> <td rowspan="5">4</td> <td></td> <td>20</td> <td></td> <td>80</td> <td rowspan="5">100</td>	BCAGE601	GEC-4	3 - 1 - 0	4			20		80	100							
					Theory of Computation		BCAGE602		3 - 1 - 0				20		80								
					Cloud Computing		BCAGE603		3 - 1 - 0				20		80								
Pool of Communication Courses offered as Ability Enhancement Compulsary Courses																							
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						
English/MIL Communication			II	English Communication	(Any One) <th rowspan="5">AE</th> <td>AECCE201</td> <td rowspan="5">AECC-2</td> <td>4 - 0 - 0</td> <td rowspan="5">4<th rowspan="5">NA</th><td></td><td>10</td><td></td><td>40</td><td rowspan="5">50</td><th rowspan="5">NA</th></td>	AE	AECCE201	AECC-2	4 - 0 - 0	4 <th rowspan="5">NA</th> <td></td> <td>10</td> <td></td> <td>40</td> <td rowspan="5">50</td> <th rowspan="5">NA</th>	NA		10		40	50	NA						
				Bengali Communication			AECCB201		4 - 0 - 0				10		40								
				Hindi Communication			AECCH201		4 - 0 - 0				10		40								
				Urdu Communication			AECCU201		4 - 0 - 0				10		40								