

KAZI NAZRUL UNIVERSITY			FACULTY OF SCIENCE		DEGREE PROGRAMME: BACHELOR OF COMPUTER APPLICATION				WITH EFFECT FROM THE ACADEMIC SESSION: 2020-21								
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		
				Software Lab - IV : 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 - V : Object Oriented Programming with C ++		BCAC304	CC-14	0 - 0 - 8	4		60		40		100		
				Software Lab - VI : Unix and Shell Programming		BCAC305	CC-15	0 - 0 - 8	4		60		40		100		
				Business System & Application	(Any One)	GE	BCAGE301	GEC-1	3 - 1 - 0		4		20		80		100
				Multimedia System Design			BCAGE302		3 - 1 - 0				20		80		
			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 - VII : SQL & PLSQL		BCAC404	CC-19	0 - 0 - 8	4		60		40		100		
				Software Lab - VIII : Visual Basic		BCAC405	CC-20	0 - 0 - 8	4		60		40		100		
Information System Analysis & Design	(Any One)	GE		BCAGE401	GEC-2	3 - 1 - 0	4		20			80	100				
Microprocessor and its Applications				BCAGE402		3 - 1 - 0			20			80					
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 - IX : E-commerce using HTML and PHP		BCAC505	CC-25	0 - 0 - 8	4		60		40		100					
	Software Lab - X : Core Java		BCAC506	CC-26	0 - 0 - 8	4		60		40		100					
	Introduction to Cyber Security	(Any One)	GE	BCAGE501	GEC-3	3 - 1 - 0		4		20		80		100			
	Image Processing			BCAGE502		3 - 1 - 0				20		80					
	Intelligent Systems			BCAGE503		3 - 1 - 0				20		80					

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												Practical	Theoretical	Practical	Theoretical					
			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 - XI : Python Programming			BCAC603	CC-29	0 - 0 - 8	4		60		40		100				
				Software Lab - XII : 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)	GE	BCAGE601	GEC-4	3 - 1 - 0		4		20		80		100		
				Theory of Computation						3 - 1 - 0				20		80				
				Cloud Computing						3 - 1 - 0				20		80				
<b>Total Credit and Marks</b>										<b>156</b>		<b>3700</b>								
<b>Abbreviations: C= Core; CC=Core Course; AE= Ability Enhancement; AECC= Ability Enhancement Compulsary 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</b>																				
<b>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</b>																				
<b>Semesterwise Pool of Generic Elective Courses offered by this Discipline</b>																				
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	III	Business System & Application		(Any One)	GE	GEC-1	3 - 1 - 0	4	NA		20		80	100						
		Multimedia System Design								3 - 1 - 0		20			80					
	IV	Information System Analysis & Design		(Any One)	GEC-2	3 - 1 - 0	4			20		80	100							
		Microprocessor and its Applications						3 - 1 - 0			20			80						
	V	Introduction to Cyber Security		(Any One)	GEC-3	3 - 1 - 0	4			20		80	100							
		Image Processing						3 - 1 - 0			20			80						
		Intelligent Systems						3 - 1 - 0			20			80						
	VI	Computer Graphics		(Any One)	GEC-4	3 - 1 - 0	4			20		80	100							
		Theory of Computation						3 - 1 - 0			20			80						
		Cloud Computing						3 - 1 - 0			20			80						
	<b>Pool of Communication Courses offered as Ability Enhancement Compulsary Courses</b>																			
	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	II	English Communication		(Any One)	AE	AECC-2	4 - 0 - 0	4	NA		10		40	50	NA					
		Bengali Communication								4 - 0 - 0		10				40				
		Hindi Communication								4 - 0 - 0		10				40				
		Urdu Communication								4 - 0 - 0		10				40				