

KAZI NAZRUL UNIVERSITY			FACULTY OF SCIENCE				DEGREE PROGRAMME: B.Sc. HONOURS IN BIOCHEMISTRY			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					
BSCH	BIOCHEMISTRY	BSCHBCM	I	Molecules of Life	C	BSCHBCMC101	CC-1	4 - 0 - 4	6	22	30	10	20	40	100	250 + Marks of GEC			
				Cell Biology		BSCHBCMC102	CC-2	4 - 0 - 4	6		30	10	20	40	100				
				Choose from the Pool of Generic Elective Courses offered in 1st Semester by Honours Disciplines other than the Discipline in which Honours course is taken				GE	See Pool		GEC-1	See Pool	6	See Pool				Marks of GEC	
				Environmental Studies	AE	AEE101	AECC-1	4 - 0 - 0	4			10		40	50				
			II	Proteins	C	BSCHBCMC201	CC-3	4 - 0 - 4	6	22	30	10	20	40	100	250 + Marks of GEC			
				Enzymes		BSCHBCMC202	CC-4	4 - 0 - 4	6		30	10	20	40	100				
				Choose from the Pool of Generic Elective Courses offered in 2nd Semester by Honours Disciplines other than the Discipline in which Honours course is taken				GE	See Pool		GEC-2	See Pool	6	See Pool				Marks of GEC	
				English/MIL Communication	AE	See Pool	AECC-2	4 - 0 - 0	4			10		40	50				
			III	Metabolism of Carbohydrates and Lipids	C	BSCHBCMC301	CC-5	4 - 0 - 4	6	28	30	10	20	40	100	350 + Marks of GEC			
				Membrane Biology and Bioenergetics		BSCHBCMC302	CC-6	4 - 0 - 4	6		30	10	20	40	100				
				Metabolism of Amino Acids and Nucleotides		BSCHBCMC303	CC-7	4 - 0 - 4	6		30	10	20	40	100				
				Choose from the Pool of Generic Elective Courses offered in 3rd Semester by Honours Disciplines other than the Discipline in which Honours course is taken				GE	See Pool		GEC-3	See Pool	6	See Pool				Marks of GEC	
				Tools and Techniques in Biochemistry	(Any One)	SE	BSCHBCMSE301	SEC-1	0 - 0 - 8		4	30		20			50		
				Protein Purification Techniques			BSCHBCMSE302		0 - 0 - 8			30		20					
			Clinical Biochemistry	BSCHBCMSE303			0 - 0 - 8		30			20							
			IV	Human Physiology	C	BSCHBCMC401	CC- 8	4 - 0 - 4	6	28	30	10	20	40	100	350 + Marks of GEC			
				Gene Organization, Replication and Repair		BSCHBCMC402	CC- 9	4 - 0 - 4	6		30	10	20	40	100				
				Hormone: Biochemistry and Function		BSCHBCMC403	CC- 10	4 - 0 - 4	6		30	10	20	40	100				
				Choose from the Pool of Generic Elective Courses offered in 4th Semester by Honours Disciplines other than the Discipline in which Honours course is taken				GE	See Pool		GEC-4	See Pool	6	See Pool				Marks of GEC	
				Bioinformatics	(Any One)	SE	BSCHBCMSE401	SEC-2	0 - 0 - 8		4	30		20			50		
			Recombinant DNA Technology	BSCHBCMSE402			0 - 0 - 8		30			20							
			V	Concepts in Genetics	C	BSCHBCMC501	CC- 11	4 - 0 - 4	6	24	30	10	20	40	100	400			
				Gene Expression and Regulation		BSCHBCMC502	CC- 12	4 - 0 - 4	6		30	10	20	40	100				
				Nutritional Biochemistry	(Any Two)	DSE	BSCHBCMDSE501	DSEC-1 & DSEC 2	4 - 0 - 4		6X2	30	10	20	40		100X2		
Basic Microbiology	BSCHBCMDSE502	4 - 0 - 4		30			10		20			40							
Molecular Basis of Non-infectious Human Diseases	BSCHBCMDSE503	4 - 0 - 4		30			10		20			40							
Molecular Basis of Infectious Diseases	BSCHBCMDSE504	4 - 0 - 4		30			10		20			40							
VI	Genetic Engineering and Biotechnology	C	BSCHBCMC601	CC- 13	4 - 0 - 4	6	24	30	10	20	40	100	400						
	Immunology		BSCHBCMC602	CC- 14	4 - 0 - 4	6		30	10	20	40	100							
	Research Project	(Any Two)	DSE	BSCHBCMDSE601	DSEC-3 & DSEC 4	4 - 0 - 4		6X2	30	10	20	40		100X2					
	Advanced Cell Biology			BSCHBCMDSE602		4 - 0 - 4			30	10	20	40							
	Plant Biochemistry			BSCHBCMDSE603		4 - 0 - 4			30	10	20	40							
	Research Methodology			BSCHBCMDSE604		4 - 0 - 4			30	10	20	40							
Total Credit and Marks										148	2000 + Marks of GEC								

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

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	
									Practical	Theoretical	Practical	Theoretical			
BIOCHEMISTRY	I	Biochemistry of Cell	GE	BSCHBCMGE101	GEC-1	4 - 0 - 4	6	NA	30	10	20	40	100	NA	
	II	Proteins and Enzymes		BSCHBCMGE201	GEC-2	4 - 0 - 4	6		30	10	20	40	100		
	III	Intermediary Metabolism		BSCHBCMGE301	GEC-3	4 - 0 - 4	6		30	10	20	40	100		
	IV	(Any One)		Gene Organization, Expression and Regulation	BSCHBCMGE401	GEC-4	4 - 0 - 4		6	30	10	20	40		100
				Fundamentals of Cell Biology and Immunology	BSCHBCMGE402		4 - 0 - 4			30	10	20	40		
				Fundamentals of Genetic Engineering	BSCHBCMGE403		4 - 0 - 4			30	10	20	40		
				Biochemical Correlations in Diseases	BSCHBCMGE404		4 - 0 - 4			30	10	20	40		

Pool of Communication Courses offered as Ability Enhancement Compulsory 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	II	English Communication	AE	AECCE201	AECC-2	4 - 0 - 0	4	NA		10		40	50	NA
		Bengali Communication		AECCE201		4 - 0 - 0				10		40		
		Hindi Communication		AECCH201		4 - 0 - 0				10		40		
		Urdu Communication		AECCU201		4 - 0 - 0				10		40		