

KAZI NAZRUL UNIVERSITY				FACULTY OF SCIENCE			DEGREE PROGRAMME: B.Sc. HONOURS IN BIOTECHNOLOGY			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	BIOTECHNOLOGY	BSCHBTL	I	Biochemistry and Metabolism	C	BSCHBTL101	CC- 1	4 - 0 - 4	6	22	30	10	20	40	100	250+ Marks of GEC		
				Cell Biology		BSCHBTL102	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				
				Environmental Studies	AE	AEE101	AECC-1	4 - 0 - 0	4			10		40	50			
			II	Mammalian Physiology	C	BSCHBTL201	CC- 3	4 - 0 - 4	6	22	30	10	20	40	100	250+ Marks of GEC		
				Plant Physiology		BSCHBTL202	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				
				English/MIL Communication	AE	See Pool	AECC-2	4 - 0 - 0	4			10		40	50			
			III	Genetics	C	BSCHBTL301	CC- 5	4 - 0 - 4	6	28	30	10	20	40	100	350+ Marks of GEC		
				General Microbiology		BSCHBTL302	CC- 6	4 - 0 - 4	6		30	10	20	40	100			
				Chemistry-I : Physical and Organic Chemistry		BSCHBTL303	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				
				Industrial Fermentations	(Any One)	SE	BSCHBTLSE301	SEC-1	4 - 0 - 0		4		10		40		50	
				Enzymology		BSCHBTLSE302	SEC-1	4 - 0 - 0	4			10		40				
			IV	Molecular Biology	C	BSCHBTL401	CC- 8	4 - 0 - 4	6	28	30	10	20	40	100	350+ Marks of GEC		
				Immunology		BSCHBTL402	CC- 9	4 - 0 - 4	6		30	10	20	40	100			
				Chemistry-II : Inorganic and Organic Chemistry		BSCHBTL403	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				
				Drug Designing	(Any One)	SE	BSCHBTLSE401	SEC-2	4 - 0 - 0		4		10		40		50	
				Basics of Forensic Science		BSCHBTLSE402	SEC-2	4 - 0 - 0	4			10		40				
			V	Bioprocess Technology	C	BSCHBTL501	CC- 11	4 - 0 - 4	6	24	30	10	20	40	100	400		
				Recombinant DNA Technology		BSCHBTL502	CC- 12	4 - 0 - 4	6		30	10	20	40	100			
				Animal Biotechnology	(Any Two)	DSE	BSCHBTLDSE501	DSEC-1 & DSEC-2	4 - 0 - 4		6 X 2	30	10	20	40		100 X 2	
				Plant Biotechnology		BSCHBTLDSE502	4 - 0 - 4		30			10	20	40				
Biostatistics	BSCHBTLDSE503	4 - 0 - 4		30		10	20		40									
Bioinformatics	BSCHBTLDSE504	4 - 0 - 4		30		10	20		40									
VI	Bio-Analytical Tools	C	BSCHBTL601	CC- 13	4 - 0 - 4	6	24	30	10	20	40	100	400					
	Genomics and Proteomics		BSCHBTL602	CC- 14	4 - 0 - 4	6		30	10	20	40	100						
	Medical Microbiology	(Any Two)	DSE	BSCHBTLDSE601	DSEC-3 & DSEC-4	4 - 0 - 4		6 X 2	30	10	20	40		100 X 2				
	Environmental Biotechnology		BSCHBTLDSE602	4 - 0 - 4		30			10	20	40							
	Intellectual Property Rights		BSCHBTLDSE603	4 - 0 - 4		30			10	20	40							
	Evolutionary Biology		BSCHBTLDSE604	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						
BIOTECHNOLOGY	I	IPR and Biosafety	GE	BSCHBTLGE101	GEC-1	4 - 0 - 4	6	NA	30	10	20	40	100	NA				
	II	Biotechnology and Human Welfare		BSCHBTLGE201	GEC-2	4 - 0 - 4	6		30	10	20	40	100					
	III	Developmental Biology		BSCHBTLGE301	GEC-3	4 - 0 - 4	6		30	10	20	40	100					
	IV	Entrepreneurship Development		BSCHBTLGE401	GEC-4	5 - 1 - 0	6			10		40	50					

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	(Any One)	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			AECCE201		4 - 0 - 0				10		40		