

KAZI NAZRUL UNIVERSITY				FACULTY OF SCIENCE			DEGREE PROGRAMME: B.Sc. HONOURS IN PHYSICS			WITH EFFECT FROM THE ACADEMIC SESSION: 2022-23									
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	PHYSICS	BSCHPHS	I	Mathematical Methods of Physics-I	C	BSCHPHSC101	CC-1	5 - 1 - 0	6	22	30	15	20	35	50	200 + Marks of GEC			
				Mechanics		BSCHPHSC102	CC-2	4 - 0 - 4	6										
				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					
				Environment Studies	AE	AEE101	AECC-1	4 - 0 - 0	4		15	35	50						
			II	Mathematical Methods of Physics-II	C	BSCHPHSC201	CC-3	4 - 0 - 4	6	22	30	15	20	35	100	250 + Marks of GEC			
				Electricity and Magnetism		BSCHPHSC202	CC-4	4 - 0 - 4	6										
				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		15	35	50						
			III	Classical Mechanics and Special Theory of Relativity	C	BSCHPHSC301	CC-5	5 - 1 - 0	6	28	30	15	20	35	100	300 + Marks of GEC			
				Thermal Physics- I		BSCHPHSC302	CC-6	4 - 0 - 4	6										
				Analog Systems and Applications		BSCHPHSC303	CC-7	4 - 0 - 4	6										
				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					
				Electrical Circuit Network Skills	(Any One)	SE	BSCHPHSSE301	SEC-1	0 - 0 - 8		4	30	20	50					
				Technical Drawing Skills.		SE	BSCHPHSSE302		0 - 0 - 8										
			IV	Electromagnetic Theory	C	BSCHPHSC401	CC-8	5 - 1 - 0	6	28	30	15	20	35	100	300 + Marks of GEC			
				Waves and Optics		BSCHPHSC402	CC-9	4 - 0 - 4	6										
				Digital Systems and Applications		BSCHPHSC403	CC-10	4 - 0 - 4	6										
				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					
				Instrumentation Skills	(Any One)	SE	BSCHPHSSE401	SEC-2	0 - 0 - 8		4	30	20	50					
				Computational Physics		SE	BSCHPHSSE402		0 - 0 - 8										
			V	Quantum Mechanics	C	BSCHPHSC501	CC-11	4 - 0 - 4	6	24	30	15	20	35	100	250			
				Thermal Physics- II		BSCHPHSC502	CC-12	5 - 1 - 0	6										
				Nuclear and Particle Physics	(Any Two)	DSE	BSCHPHSDSE501	DSEC-1 & DSEC-2	5 - 1 - 0		6X2	15	35	50X2					
				Communication Electronics		BSCHPHSDSE502	5 - 1 - 0												
Atomic Physics and Spectroscopy	BSCHPHSDSE503	5 - 1 - 0																	
Astronomy and Astrophysics	BSCHPHSDSE504	5 - 1 - 0																	
VI	Statistical Mechanics	C	BSCHPHSC601	CC-13	5 - 1 - 0	6	24	15	35	50	200								
	Condensed Matter Physics		BSCHPHSC602	CC-14	5 - 1 - 0	6													
	Applied Optics	(Any Two)	DSE	BSCHPHSDSE601	DSEC-3 & DSEC-4	5 - 1 - 0		6X2	15	35		50X2							
	Physics of Devices and Instruments		BSCHPHSDSE602	5 - 1 - 0															
	Classical Dynamics		BSCHPHSDSE603	5 - 1 - 0															
	Nanomaterials and Applications		BSCHPHSDSE604	5 - 1 - 0															
Total Credit and Marks										148	1500 + Marks of GEC								
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							
PHYSICS	I	Mechanics	GE	BSCHPHSGE101	GEC-1	4 - 0 - 4	6	NA	30	15	20	35	100						
	II	Electricity and Magnetism		BSCHPHSGE201	GEC-2	4 - 0 - 4	6												
	III	Fundamentals of Thermal and Statistical Physics		BSCHPHSGE301	GEC-3	4 - 0 - 4	6												
	IV	Fundamentals of Waves and Optics		BSCHPHSGE401	GEC-4	4 - 0 - 4	6												
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							
English/MIL Communication	II	English Communication	(Any One)	AE	AECC-2	4 - 0 - 0	4	NA	15	35	50	NA							
		Bengali Communication											AECB201	4 - 0 - 0					
		Hindi Communication											AECCH201	4 - 0 - 0					
		Urdu Communication											AECU201	4 - 0 - 0					