

 KAZI NAZRUL UNIVERSITY				FACULTY OF SCIENCE, TECHNOLOGY & VOCATIONAL STUDIES		1-Year PG Degree			WITH EFFECT FROM THE ACADEMIC SESSION: 2027-28								
Abbreviated Degree	Discipline	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		
MSC	PHYSICS	1-year PG Degree	I	Advanced Quantum Mechanics -II (NP)	Group A	Major Research Coursework Elective (Any one group to be opted)	MSCPHSMCE901	MCE-1	4 - 1 - 0	5	20		30		70	100	400
				Advanced Atomic and Molecular Physics (GS)			MSCPHSMCE902	MCE-2	4 - 1 - 0	5			30		70	100	
				Optoelectronics and Laser Science (JNR)			MSCPHSMCE903	MCE-3	3 - 0 - 4	5		30	15	20	35	100	
				Advanced Quantum Mechanics -II (NP)	Group B		MSCPHSMCE901	MCE-1	4 - 1 - 0	5			30		70	100	
				Advanced Atomic and Molecular Physics (GS)			MSCPHSMCE902	MCE-2	4 - 1 - 0	5			30		70	100	
				Spintronics			MSCPHSMCE903	MCE-3	3 - 0 - 4	5		30	15	20	35	100	
				Advanced Quantum Mechanics -II (NP)	Group C		MSCPHSMCE901	MCE-1	4 - 1 - 0	5			30		70	100	
				Advanced Atomic and Molecular Physics (GS)			MSCPHSMCE902	MCE-2	4 - 1 - 0	5			30		70	100	
				Quantum Field Theory			MSCPHSMCE903	MCE-3	4 - 1 - 0	5			30		70	100	
				Advanced Quantum Mechanics -II	Group D		MSCPHSMCE901	MCE-1	4 - 1 - 0	5			30		70	100	
				Advanced Atomic and Molecular Physics			MSCPHSMCE902	MCE-2	4 - 1 - 0	5			30		70	100	
				Microwave and Quantum Devices			MSCPHSMCE903	MCE-3	3 - 0 - 4	5		30	15	20	35	100	
				Advanced Quantum Mechanics -II	Group E		MSCPHSMCE901	MCE-1	4 - 1 - 0	5			30		70	100	
				Advanced Atomic and Molecular Physics			MSCPHSMCE902	MCE-2	4 - 1 - 0	5			30		70	100	
				Communication Electronics			MSCPHSMCE903	MCE-3	3 - 0 - 4	5		30	15	20	35	100	
				Research Methodology with AI				Research Methodology	MSCPHSRMAI901	RMC-1		3 - 0 - 4	5		30	15	

			II	Literature Review	Dissertation	MSCPHSRD1001	RDC-1	0 - 3 - 4	5	20	60		40		100	400
				PG Dissertation	Dissertation	MSCPHSRD1002	RDC-2	0 - 10 - 10	15		180		120		300	
				Total Credit and Marks	TOTAL CREDIT					40	TOTAL MARKS					800
		Stuendts have to opt any of the groups of Major Research Coursework in Semester I. Students who want to undertake 1-year PG will be awarded PG Degree in the relevant Discipline / Subject provided they secure 40 credits														
Abbreviations: MC= Major Coursework;MN=Minor;MNC= Minor Course; VC=Vocational Course, MCE= Major Research Coursework Elective, RMAI= Research Methodology including Artificial Itelligence, RMC= Research Methodology including AI Course;RD=Research Dissertation; RDC=Research Dissertation Course; CA= Continuous Assessment, ESE= End Semester Examination, L= Lecture Hour; T= Tutorial Hour and P= Practical Hour/ Field Work and NA= Not Applicable																