



B.Sc. in PCM (Mathematics, Physics)








Year: Third / Semester: Fifth (Odd Semester)

S. N.	Course Code	Course Title	Theory (T) / Practical (P)	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credit Points	Attributes						United Nations Sustainable Development Goals (SDGs)			
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value		Professional Ethics		
1	B030501T/MT320	Group and Ring Theory & Linear Algebra	T	Core Major	4	1	0	15	10	25	75	100	05	✓		✓							
2	•B030502T/MT321 OR •B030503T/MT322 OR •B030504T/MT323	•Number Theory & Game Theory OR •Graph Theory & Discrete Mathematics OR •Differential Geometry & Tensor Analysis	T	Major (Elective)	4	1	0	15	10	25	75	100	05	✓		✓							
3	B010501T/PY311	Classical & Statistical Mechanics	T	Core Major	3	1	0	15	10	25	75	100	04	✓									
4	B010502T/PY312	Quantum Mechanics & Spectroscopy	T		3	1	0	15	10	25	75	100	04	✓									
5	B010503P/PY313	Demonstrative Aspects of Optics & Lasers	P		0	0	4	15	10	25	75	100	02	✓		✓							
6	Z050501T	Analytic Ability and Digital Awareness	T	Co-curricular	2	0	0	15	10	25	75	100	02	✓	<input type="checkbox"/>	✓		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7	B030503R/MT333	Mathematics Project-1	P	Core Major	0	0	6	0	0	0	-	100	03	✓		✓		✓			✓		
TOTAL					16	4	10	90	60	150	450	700	25										



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					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value		Professional Ethics		
1	B030501T/MT320	Group and Ring Theory & Linear Algebra	T	Core Major	4	1	0	15	10	25	75	100	05	✓		✓							
2	•B030502T/MT321 OR •B030503T/MT322 OR •B030504T/MT323	•Number Theory & Game Theory OR •Graph Theory & Discrete Mathematics OR •Differential Geometry & Tensor Analysis	T	Major (Elective)	4	1	0	15	10	25	75	100	05	✓		✓							
3	B020501T/CH337	Organic Synthesis-A	T	Core Major	3	1	0	15	10	25	75	100	04	✓	✓	✓		✓		✓			
4	B020502T/CH338	Rearrangements and Chemistry of Group Elements	T		3	1	0	15	10	25	75	100	04	✓	✓	✓		✓		✓			
5	B020503P/CH339	Qualitative Analysis	P		0	0	4	15	10	25	75	100	02	✓	✓	✓		✓	✓	✓			
6	Z050501T	Analytic Ability and Digital Awareness	T	Co-curricular	2	0	0	15	10	25	75	100	02	✓	✓	✓		✓	✓	✓			
7	•B030503R/MT335 OR •B020504R/CH340	•Statistics Project-1 OR •Chemistry Research Project-1	P	Core Major	0	0	6	0	0	0	-	100	03	✓		✓		✓		✓			
TOTAL					16	4	10	90	60	150	450	700	25										



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					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value		Professional Ethics			
1	B010501T/PY311	Classical & Statistical Mechanics	T	Core Major	3	1	0	15	10	25	75	100	04	✓										
2	B010502T/PY312	Quantum Mechanics & Spectroscopy	T		3	1	0	15	10	25	75	100	04	✓										
3	B020501T/CH337	Organic Synthesis-A	T		3	1	0	15	10	25	75	100	04	✓	✓	✓		✓		✓				
4	B020502T/CH338	Rearrangements and Chemistry of Group Elements	T		3	1	0	15	10	25	75	100	04	✓	✓	✓		✓	✓	✓				
5	B010503P/PY313	Demonstrative Aspects of Optics & Lasers	P		0	0	4	15	10	25	75	100	02	✓		✓								
6	B020503P/CH339	Qualitative Analysis	P		0	0	4	15	10	25	75	100	02	✓	✓	✓		✓	✓	✓				
7	Z050501T	Analytic Ability and Digital Awareness	T	Co-curricular	2	0	0	15	10	25	75	100	02	✓	✓	✓		✓	✓	✓				
8	•B030503R/MT335 OR •B020504R/CH340	• Statistics Project-1 OR • Chemistry Research Project-1	P	Core Major	0	0	6	0	0	0	-	100	03	✓		✓		✓		✓				
TOTAL					14	4	14	105	70	175	525	800	25											