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St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Deemed to be University U/S 3 of the UGC Act, 1956)

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DEPARTMENT OF MATHEMATICS
PG M.Sc. MATHEMATICS
2025 Regulations – Curriculum

Semester	Course Code	Title of the Course	NCrF level	SDG Goal	Instruction Hours / Week			Credits	Marks		
					L	T	P		CIA	ESE	Total
I	25MAP101	Core: Algebra	6.5	4,8,12	4	1	0	4	40	60	100
I	25MAP102	Mechanics	6.5	4,8,9	2	1	0	3	40	60	100
I	25MAP121	Statistical Inference	7	4,9,17	3	1	0	3	40	60	100
I	25MAP111	Statistical Inference Practical	7	4,9,17	0	0	3	2	40	60	100
I	25MAP103-A/ 25MAP103-B/ 25MAP103-C	Program Elective –I Discrete Mathematics / Linear Algebra/ Differential Equations	7	4,9,17	3	1	0	3	40	60	100
I	25CPP103 /25CPU046	Design and analysis of algorithms / E-Learning Technologies	6.5	4,8,12	4	0	0	3	40	60	100
I	25IKSP001	VAC- Introduction to Indian Knowledge System	6	3,4,11,12	2	0	0	2	40	60	100
Semester Total					18	4	3	20	280	420	700
II	25MAP201	Core: Real Analysis	6	6	4	1	0	4	40	60	100
II	25MAP202	Calculus of Variation and	6	6	4	1	0	4	40	60	100

		Integral Equations									
	Program Elective -II										
II	25MAP203-A	Numerical Analysis	6	4,8,9,13							
II	25MAP203-B	Numerical Methods	6	9	4	1	0	4	40	60	100
II	25MAP203-C	Mathematical Modeling	7	4,8,9							
II	25CPP203	Network Security	6	4,8	3	1	0	3	40	60	100
II	25MAP204	Topology	7	4,9	3	1	0	3	40	60	100
II	25IKSP002	VAC- Vedic Mathematics	6	4,9,17	0	0	2	2	40	60	100
	Semester Total				18	5	2	20	240	360	600
III	25MAP301	Core 1: Complex Analysis	6	4	4	1	0	4	40	60	100
III	25MAP302	Partial Differential Equations	7	4,9	4	1	0	4	40	60	100
III	25MAP305	Functional Analysis	6.5	4,8,12	4	1	0	4	40	60	100
III	Program Elective -III										
III	25MAP304-A	Differential Geometry	6	4							
III	25MAP304-B	Entrepreneurship and Startups	7	4	4	1	0	4	40	60	100
III	25MAP304-C	Fluid Dynamics	7	6							
III	25CPU041	Institute Elective : Industry 4.0	6.5	4,8,12	3	0	0	3	40	60	100
III	25UHV001	VAC – Universal Human Values (UHV)	6.5	4,8,12	2	0	0	2	40	60	100
III	25MAP321	Internship	7	2,3,7	0	0	0	2	-	100	100
	Semester Total				20	4	0	22	240	460	700
IV	25MAP491	Project-Dissertation	7	3,7,13	0	0	25	20	40	60	100
	Semester Total				0	0	25	20	40	60	100