M.Sc Mathematics

Course Code	Title of the Course	Instructions Hours/week	Duration of Exam (Hrs)	Marks			Credits
				IA	Semester End Exam	Total	
Semester – I							
PS1IPHC500	Algebra I	5	2 ½	40	60	100	5
PS1IPHC501	Linear Algebra I	5	2 ½	40	60	100	5
PS1IPHC502	Real Analysis I	5	2 ½	40	60	100	5
PS1IPSC521	Graph Theory	4	2 ½	40	60	100	4
PS1IPSC522	Operations Research	4	2 ½	40	60	100	4
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Semester – II							
PS1IPHC550	Algebra II	5	2 ½	40	60	100	5
PS1IPRM550	Research Methodology and Ethics	4	2 ½	40	60	100	4
PS1IPHC551	Real Analysis II	5	2 ½	40	60	100	5
PS1IPSC571a	Linear Algebra II	4	2 ½	40	60	100	4
PS1IPSC571b	Lattice theory						
PS1IPSC571c	Ordinary Differential Equations						
PS1IPOE589	Discrete Mathematics and its Applications	3	2 ½	40	60	100	3
PS1IPSP571	Computational Lab-1	4	2	20	30		2
							23
Semester – III							
PS1IPHC600	Complex Analysis I	5	2 ½	40	60	100	5
PS1IPHC601	Topology	5	2 ½	40	60	100	5
PS1IPHC602	Numerical Analysis with Computational Lab	5	2 ½	40	60	100	5
PS1IPSC621a	Commutative Algebra	4	2 ½	40	60	100	4
PS1IPSC621b	Multivariate Calculus and Geometry						
PS1IPSC621c	Probability Theory						
PS1IPOE639	Differential Equations and Applications	3	2 ½	40	60	100	3
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Semester – IV							
PS1IPHC650	Measure Theory and Integration	5	2 ½	40	60	100	5
PS1IPHC651	Complex Analysis II	5	2 ½	40	60	100	5
PS1IPSC671	Functional Analysis	4	2 ½	40	60	100	4
PS1IPSC672a	Partial Differential Equations	4	2 ½	40	60	100	4
PS1IPSC672b	Algebraic Number Theory						
PS1IPSC672c	Cryptography						
PS1IPSC672d	Distribution Theory						

PS1IPSP671	Computational Lab-2	4	2	20	30	50	2
PS1IPPR686	Project Work	4	2 ½	40	60	100	4
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