

**List of Courses having focus on local, national, regional and global developmental needs offered by the
Department of Mathematics**

M. Sc.						
Programme: Mathematics						2022 Batch - III and IV Semesters 2023 Batch - I and II Semesters
Course Code	Course Title	Need				Rationale
		Local	National	Regional	Global	
23PMS101	Algebra				✓	Pursue research
23PMS102	Real Analysis				✓	Pursue research and NET exams
23PMS103	Complex Analysis				✓	Pursue research
23PMS104	Ordinary Differential Equations				✓	Pursue research
23PMS1E1	Matlab				✓	Employability in IT sector
23PMS1E3	Programming Lab in Matlab				✓	Employability in IT sector
23PMS205	Linear Algebra				✓	Pursue research
23PMS206	Mathematical Statistics				✓	Pursue research
23PMS207	Partial Differential Equations				✓	Pursue research
23PMS208	Mechanics				✓	Pursue research
23PMS209	Numerical Analysis				✓	Employability in IT sector
23PMS210	Programming lab in Numerical Analysis using Matlab				✓	Employability in IT sector
23PMS2N1/ 23PMS2N2	Mathematical Statistics and Techniques/ Mathematics in Finance		✓			UGC, CSIR and NET exams
22PMS311	Topology				✓	Pursue research

22PMS312	Functional Analysis				✓	Pursue research
22PMS313	Combinatorics			✓		School and College teaching
22PMS314	Graph Theory		✓			UGC, CSIR and NET exams
22PMS3E1	Latex				✓	Document Preparation
22PMS3E3	Programming Lab in Latex				✓	Document Preparation
22PMS415	Fluid Dynamics		✓			UGC, CSIR and NET exams
22PMS416	Operator Theory		✓			UGC, CSIR and NET exams
22PMS417	Algebraic Topology				✓	Pursue research
22PMS4E1 / 22PMS4E2	Mathematical Methods / Fuzzy Logic and Fuzzy sets		✓			UGC, CSIR and NET exams


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