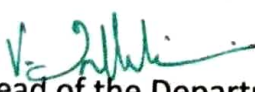


**List of Courses having focus on local, national, regional and global developmental needs offered by the
Department of Mathematics**

B. Sc.						
Programme: Mathematics					2021 Batch - V and VI Semesters 2022 Batch - III and IV Semesters 2023 Batch - I and II Semesters	
Course Code	Course Title	Need				Rationale
		Local	National	Regional	Global	
23UMS101	Classical Algebra			✓		School and College teaching
23UMS102	Calculus			✓		School and College teaching
23UMS1A1	Mathematical Statistics-I		✓			UGC, CSIR and NET exams
23UMS203	Trigonometry, Vector Calculus and Fourier Series			✓		School and College teaching
23UMS204	Analytical Geometry			✓		School and College teaching
23UMS2A2	Mathematical Statistics-II		✓			UGC, CSIR and NET exams
22UMS305	Dynamics			✓		School and College teaching
22UMS306	Numerical Techniques				✓	Employability in IT sector
22UMS3N1 / 22UMS3N2	Quantitative Aptitude-I/ Astronomy-I		✓			UGC, CSIR and NET exams
22UMS407	Statics			✓		School and College teaching
22UMS408	Programming in C				✓	Employability in IT sector
22UMS409	Programming lab in C				✓	Employability in IT sector
22UMS4N3 / 22UMS4N4	Quantitative Aptitude-II/ Astronomy-II		✓			UGC, CSIR and NET exams

21UMS509	Modern Algebra				✓	Pursue research
21UMS510	Real Analysis-I				✓	Pursue research
21UMS511	Operations Research-II				✓	Pursue research
21UMS512	Theory of Numbers			✓		School and College teaching
21UMS5E1	Programming in C				✓	Employability in IT sector
21UMS5E3	Programming lab in C				✓	Employability in IT sector
21UMS5S1 / 21UMS5S2	Financial Mathematics-I / Network and Information Security				✓	Employability in Marketing and Insurance sector
21UMS613	Linear Algebra				✓	Pursue research
21UMS614	Real Analysis-II				✓	Pursue research
21UMS615	Complex Analysis				✓	Pursue research
21UMS6E1/ 21UMS6E2	Discrete Mathematics/ Graph Theory			✓		School and College teaching
21UMS6E3	OOP with C++				✓	Employability in IT sector
20UMS6E5	Programming lab in OOP with C++				✓	Employability in IT sector
21UMS6S1/ 21UMS6S2	Financial Mathematics-II			✓		Employability in Marketing and Insurance sector
21UMS6S2	Cryptography				✓	Employability in Networking


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