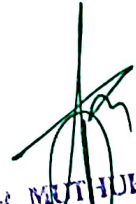


**List of Courses having focus on local, national, regional and global developmental needs offered by the
Department of Mathematics**

B. Sc.						
Programme: Mathematics					2020 Batch - V and VI Semesters 2021 Batch - III and IV Semesters 2022 Batch - I and II Semesters	
Course Code	Course Title	Need				Rationale
		Local	National	Regional	Global	
22UMS101	Classical Algebra			✓		School and College teaching
22UMS102	Calculus			✓		School and College teaching
22UMS1A1	Mathematical Statistics-I		✓			UGC, CSIR and NET exams
22UMS203	Trigonometry, Vector Calculus and Fourier Series			✓		School and College teaching
22UMS204	Analytical Geometry			✓		School and College teaching
22UMS2A2	Mathematical Statistics-II		✓			UGC, CSIR and NET exams
21UMS305	Dynamics			✓		School and College teaching
21UMS306	Numerical Techniques				✓	Employability in IT sector
21UMS3N1 / 21UMS3N2	Quantitative Aptitude-I/ Astronomy-I		✓			UGC, CSIR and NET exams
21UMS407	Statics			✓		School and College teaching
21UMS408	Operations Research-I				✓	Pursue research
21UMS4N1 / 21UMS4N2	Quantitative Aptitude-II/ Astronomy-II		✓			UGC, CSIR and NET exams
20UMS509	Modern Algebra				✓	Pursue research


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20UMS510	Real Analysis-I				✓	Pursue research
20UMS511	Operations Research-II				✓	Pursue research
20UMS512	Theory of Numbers			✓		School and College teaching
20UMS5E1	Programming in C				✓	Employability in IT sector
20UMS5E2	Programming lab in C				✓	Employability in IT sector
20UMS5S1 / 20UMS5S2	Network and Information Security / Cyber security- Ethical Hacking				✓	Employability in IT sector
20UMS613	Linear Algebra				✓	Pursue research
20UMS614	Real Analysis-II				✓	Pursue research
20UMS615	Complex Analysis				✓	Pursue research
20UMS6E3	Discrete Mathematics			✓		School and College teaching
20UMS6E4	OOP with C++				✓	Employability in IT sector
20UMS6E5	Programming lab in OOP with C++				✓	Employability in IT sector
20UMS6S3 / 20UMS6S4	Mathematics for finance / Actuarial Mathematics			✓		Employability in Marketing and Insurance sector


Head of the Department

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