


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


<b>B. Sc.</b>						
Programme: Mathematics					2016 Batch - V and VI Semesters 2017 Batch - III and IV Semesters 2018 Batch - I and II Semesters	
Course Code	Course Title	Need				Rationale
		Local	National	Regional	Global	
18UMS101	Classical Algebra			✓		School and College teaching
18UMS102	Calculus			✓		School and College teaching
18UMS1A1	Mathematical Statistics-I		✓			UGC, CSIR and NET exams
18UMS203	Trigonometry, Vector Calculus and Fourier Series			✓		School and College teaching
18UMS204	Analytical Geometry 2D and 3D			✓		School and College teaching
19UMS2A2	Mathematical Statistics-II		✓			UGC, CSIR and NET exams
17UMS305	Dynamics			✓		School and College teaching
17UMS306	Numerical Techniques				✓	Employability in IT sector
17UMS3N1 / 17UMS3N2	Quantitative Aptitude-I/ Astronomy-I		✓			UGC, CSIR and NET exams
17UMS407	Statics			✓		School and College teaching
17UMS408	Operations Research-I				✓	Pursue research
17UMS4N3 / 17UMS4N4	Quantitative Aptitude-II/ Astronomy-II		✓			UGC, CSIR and NET exams

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16UMS509	Modern Algebra				✓	Pursue research
16UMS510	Real Analysis-I				✓	Pursue research
16UMS511	Operations Research-II				✓	Pursue research
16UMS512	Theory of Numbers			✓		School and College teaching
16UMS513	Programming in C				✓	Employability in IT sector
16UMS514	Programming lab in C				✓	Employability in IT sector
16UMS551	Mathematics for Finance-I		✓			UGC, CSIR and NET exams
16UMS615	Linear Algebra				✓	Pursue research
16UMS616	Real Analysis-II				✓	Pursue research
16UMS617	Complex Analysis				✓	Pursue research
16UMS618	Discrete Mathematics			✓		School and College teaching
16UMS619	OOP with C++				✓	Employability in IT sector
16UMS620	Programming lab in OOP with C++				✓	Employability in IT sector
16UMS6S2	Mathematics for Finance-II		✓			UGC, CSIR and NET exams

  
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