



GURUKULA KANGRI (DEEMED TO BE UNIVERSITY)

Department of Mathematics & Statistics

Proposed Syllabus for B.Sc.

Subject: Mathematics

Starting Year of Implementation: 2022-23

Contents of Courses for B.Sc. with Mathematics as Major Subject & B.Sc. (Hons) Mathematics

S. N	Subject Code	Course Type	Subject Title	Period			Evaluation Scheme			Subject Total	
							Sessional		ESE		
				L	T	P	Credit	CT	TA		
B. Sc I Year											
Semester – I											
1	BMA-C111	DSC	Calculus	5	2	-	6	20	10	70	100
Total credit										6	
Semester – II											
1	BMA-C211	DSC	Algebra	5	2	-	6	20	10	70	100
Total credit										6	
Exit Option with Certificate											
B. Sc II Year											
Semester – III											
1	BMA-C311	DSC	Differential Equations	5	2	-	6	20	10	70	100
2	BMA-S311	SEC	Analytical Geometry	3	2	-	4	20	10	70	100
Total credit										10	
Semester – IV											
1	BMA-C411	DSC	Real Analysis	5	2	-	6	20	10	70	100
	BMA-S411	SEC	Vector Calculus and Mechanics	3	2	-	4	20	10	70	100
Total credit										10	
Exit Option with Diploma											

B. Sc III Year												
Semester – V												
1	BMA-C511	DSC	Numerical Analysis	5	2	-	6	20	10	70	100	
Any one of the following:												
2	BMA-S511	SEC1	Linear Programming	3	2	-	4	20	10	70	100	
	BMA-S512	SEC2	Programming in C	2	-	4	4	20	10	70	100	
											Total credit	10
Semester – VI												
1	BMA-C611	DSC	Linear Algebra	5	2	-	6	20	10	70	100	
Any one of the following:												
2	BMA-S611	SEC1	Mathematical Modeling	3	2	-	4	20	10	70	100	
	BMA-S612	SEC2	Laplace and Fourier Transform	3	2	-	4	20	10	70	100	
											Total credit	10
Exit Option with B.Sc. Degree												
B. Sc IV Year												
Semester – VII												
1	BMA-C711	DSC	Advanced Differential Equations	5	2	-	6	20	10	70	100	
2	BMA-C712	DSC	Advanced Real Analysis	5	2	-	6	20	10	70	100	
3	BMA-C713	DSC	Mathematical Statistics	5	2	-	6	20	10	70	100	
4	BMA-C714	.....	Industrial Training/Research Project/Dissertation	-	-	-	6	20	-	80	100	
											Total credit	24
Semester – VIII												
1	BMA-C811	DSC	Fluid Dynamics	5	2	-	6	20	10	70	100	
2	BMA-C812	DSC	Complex Analysis	5	2	-	6	20	10	70	100	
3	BMA-C813	DSC	Abstract Algebra	5	2	-	6	20	10	70	100	
4	BMA-C814	.....	Industrial Training/Research Project/Dissertation	-	-	-	6	20	-	80	100	
SEC/VoC												
1	BMA-S811	.....	Vedic Mathematics	2	1	-	2	20	10	70	100	
											Total credit	24/26
Award of B.Sc.(Hons.) Degree in Mathematics												