

Syllabus w. e. f. Session 2015-16

DEPARTMENT OF MATHEMATICS & STATISTICS

Gurukula Kangri Vishwavidyalaya, Haridwar

Mathematics

[Under Choice Based Credit System as proposed by UGC]

for

B.Sc. Physical Sciences (Physics, Chemistry, Mathematics)

S.N	Subject Code	Subject Title	Evaluation Scheme				Subject Total
			Sessional			ESE	
			Credit	CT	TA		
B. Sc I Year							
Semester – I							
1	BMA-C101	Differential Calculus	6	20	10	70	100
Semester – II							
1	BMA-C201	Differential Equations	6	20	10	70	100
B. Sc II Year							
Semester – III							
1	BMA-C301	Real Analysis	6	20	10	70	100
Skill Enhancement Course (SEC) Papers (Select any one)							
2	BMA-S301	Logic and Sets	2	20	10	70	100
3	BMA-S302	Analytical Geometry	2	20	10	70	100
4	BMA-S303	Integral Calculus	2	20	10	70	100
Semester – IV							
1	BMA-C401	Algebra	6	20	10	70	100
Skill Enhancement Course (SEC) Papers (Select any one)							
2	BMA-S401	Vector Calculus	2	20	10	70	100
3	BMA-S402	Theory of Equations	2	20	10	70	100
4	BMA-S403	Number Theory	2	20	10	70	100

B. Sc III Year

Semester – V

Skill Enhancement Course (SEC) Papers (Select any one)

1	BMA-S501	Probability and Statistics	2	20	10	70	100
2	BMA-S502	Mathematical Finance	2	20	10	70	100
3	BMA-S503	Mathematical Modeling	2	20	10	70	100

Discipline Specific Elective (DSE) Papers(Select any one)

4	BMA-E501	Matrices	6	20	10	70	100
5	BMA-E502	Mechanics	6	20	10	70	100
6	BMA-E503	Linear Algebra	6	20	10	70	100

Semester – VI

Skill Enhancement Course (SEC) Papers (Select any one)

1	BMA-S601	Boolean Algebra	2	20	10	70	100
2	BMA-S602	Transportation and Game Theory	2	20	10	70	100
3	BMA-S603	Graph Theory	2	20	10	70	100

Discipline Specific Elective (DSE) Papers(Select any one)

4	BMA-E601	Numerical Methods	6	20	10	70	100
5	BMA-E602	Complex Analysis	6	20	10	70	100
6	BMA-E603	Linear Programming	6	20	10	70	100

L = Lecture

T = Tutorial

P = Practical

CT = Cumulative Test

TA = Teacher Assessment

ESE = End Semester Examination

Note: Optional papers can be offered subject to availability of requisite resources/ faculty and more option can be added depending upon the availability of the staff.