

SCHEME OF STUDY BS DEPARTMENT OF MATHEMATICS			
1st Semester		2nd Semester	
Course Title	Credit Hours	Course Title	Credit Hours
Calculus-1	4	Calculus II	3
Elements of Set Theory and Mathematical Logic	3	Software packages	3
English 1 (Functional English)	3	Statistics	3
Islamic Studies/Ethics	2	English II (Communication Skills)	3
G-1	3	Pakistan Studies	2
Introduction to Computers	3	G-2	3
3rd Semester		4th Semester	
Course Title	Credit Hours	Course Title	Credit Hours
Algebra I (Group Theory)	3	Affine and Euclidean Geometry	3
Calculus III	4	Linear Algebra	3
G-3	3	G-4	3
English III (Technical Writing and Presentation Skills)	3	Discrete Mathematics	3
Computer Programming	2+1	Any Foreign Language	3
5th Semester		6th Semester	
Course Title	Credit Hours	Course Title	Credit Hours

Topology	3	Classical Mechanics	3
Differential Geometry	3	Partial Differential Equations	3
Ordinary Differential Equations	3	Complex Analysis	3
RealAnalysis-I	3	Functional Analysis	3
Algebra-II (Rings and Fields)	3	Real Analysis-II	3
Mountain Studies	3	Calculus of Variations	3
7th Semester		8th Semester	
Course Title	Credit Hours	Couise Title	Credit Hours
Numerical Analysis	3+1	Probability Theory	3
Number Theory	3	Integral Equations	3
E-1	3	E-3	3
E-2	3	E-4	3
Mathematical Methods	3	Project	3