Birla Institute of Technology & Science Pilani, Rajasthan

M.Sc.(Hons) Mathematics

Semester wise pattern for students admitted to First degree program - M.Sc. (Hons) Mathematics:

Year	First Semester	Second Semester
1	General Biology Chemistry I Thermodynamics **Mathematics I** Physics I Engineering Graphics	**Probability and Statistics** Chemistry II **Mathematics II** Physics II Workshop Practice Computer Programming I
2	Electrical Sciences I **Mathematics III** Computer Programming II Measurement Techniques I Principles of Management One Elective	Structure and Properties of Material Electrical Sciences II Measurement Techniques II Technical Report Writing Two Electives
Summer	Practice School I	
3	**Algebra I** **Elementary Real Analysis** **Introduction To Topology** **Graphs and Networks** **Optimization** Data Processing	**Algebra II** **Measure and Integration** **Intro To Functional Analysis** **Differential Geometry** **Numerical Analysis** **Operations research**
4	Six Elective Courses	Practice School II Or Dissertation

Elective Courses Offered:

Discrete Structures for Computer Sciences, Fuzzy Logic and Applications, Complex Analysis, Concepts of Geometry, Topological Groups, Combinatorial Mathematics, Algebraic & Differential Topology, Distribution Theory, Discrete Mathematical Structures, Ordinary Differential Equations, Partial Differential Equations, Integral Equations, Non-Linear Optimisation, Commutative Algebra.