

Birla Institute of Technology & Science Pilani, Rajasthan

M.Sc. (Hons) Physics

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

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 Principles of Management Modern Physics Measurement Techniques I	Structure and Properties of Materials Electrical Sciences II Measurement Techniques II Technical Report Writing Two Electives
Summer	Practice School I	
3	Instrumental Methods of Analysis Electromagnetic Theory Quantum Mechanics I Methods of Mathematical Physics I Optimisation	Statistical Mechanics Solid State Physics Nuclear Physics Atomic & Molecular Spectroscopy Operations Research Numerical Analysis
4	Six Elective Courses	Practice School II or Dissertation

Elective Courses Offered:

Methods of Experimental Physics, Optical Physics & Applications, Particle Physics, Electromagnetic Theory II, Quantum Mechanics II, Group Theory and Applications, Laser and Applications, Physics Laboratory, Materials Science, Process Analysis Instrumentation, Astrophysics, Special Projects, Theory of Relativity, Non linear Dynamics & chaos, Computational Physics, Atmospheric Physics, Physics project Laboratory.