

**Birla Institute of Technology & Science Pilani, Rajasthan**

**B.E. (Hons) Mechanical Engineering**

Semester wise pattern for students admitted to First degree program - B.E. (Hons) Mechanical Engineering :

Year	First Semester	Second Semester
1	General Biology Chemistry I <b>Thermodynamics</b> Mathematics I Physics I <b>Engineering Graphics</b>	Probability and Statistics Chemistry II Mathematics II Physics II <b>Workshop Practice</b> Computer Programming I
2	Electrical Sciences I Mathematics III Computer Programming II <b>Mechanics of Solids</b> Measurement Techniques I Technical Report Writing	<b>Structure and Properties of Materials</b> Electrical Sciences II <b>Transport Phenomena I</b> <b>Applied Thermodynamics</b> <b>Measurement Techniques II</b>
Summer	Practice School I	
3	<b>Design of Machine Elements</b> <b>Transport Phenomena II</b> <b>Production Techniques</b> <b>Advanced Mechanics of Solids &amp; Kinematics</b> Optimization Numerical Analysis	Operations Research Control Systems <b>Power Plant Engineering</b> <b>Prime Movers and Fluid Machines</b> <b>Computer Aided Design</b> <b>Dynamics of Machines &amp; Vibrations</b>
4	Six Elective Courses	Practice School II  or  Dissertation

Elective Courses Offered:

Production Planning & Control, Computer Aided Manufacturing, Automotive Vehicles, Advances in Materials Science, Quality Control Assurance and Reliability, Mechanical Equipment Design, Composite Materials & Design, Refrigeration and Air conditioning, Precision Engineering, Project Appraisal, Special Project, Supply Chain Management, Lean Manufacturing, Micro Electro Mechanical Systems.