Birla Institute of Technology & Science Pilani, Rajasthan

B.E. (Hons.) Manufacturing

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

Year	First Semester	Second Semester
1	General Biology	Probability and Statistics
	Chemistry I	Chemistry II
	Thermodynamics	Mathematics II
	Mathematics I	Physics II
	Physics I	Workshop Practice
	Engineering Graphics	Computer Programming I
2	Electrical Sciences I	Structure and Properties of
		Materials
	Mathematics III	Electrical Sciences II
	Computer Programming II	Principles of Management
	Mechanics of Solids	Measurement Techniques II
	Measurement Techniques I	Transport Phenomenon I
	Technical Report Writing	Applied Thermodynamics
Summer	Practice School I	
3	Design of Machine Elements	Computer Aided Design
	Kinetics and Dynamics of Machines	Mechatronics & Automation
	Metal forming and Machining	Tool and Fixture Design
	Manufacturing Management	Casting and Welding
	Optimization	Operations Research
	Numerical Analysis	Control Systems
4	Six Elective Courses	Practice School II
		or
		Dissertation

Elective Courses Offered:

Instrumentation Control, Design of Machine tools, Mechanical Engineering Drawing, Maintenance and Safety, Automotive Systems, Mechanical Vibration & Acoustics, Manufacturing Excellence, Noise Engineering, Work System Design, Internal Combustion Engines, Lean Manufacturing, Supply Chain Management, Quality control Assurance and Reliability, Advances in Material Sciences, Industrial Relations, Precision Engineering, Product Design and Development, Product Design and Development Projects, Computer Aided Manufacturing.