

Birla Institute of Technology & Science Pilani, Rajasthan

B.E. (Hons) Chemical Engineering

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

Year	First Semester	Second Semester
1	General Biology Chemistry I Thermodynamics Mathematics I Physics I Engineering Graphics	Chemistry II Physics II Computer Programming I Workshop Practice Mathematics II Probability and Statistics
2	Mathematics III Measurement Techniques I Electrical Sciences I Mechanics of Solids Technical Report Writing Computer Programming II	Measurement Techniques II Electrical Sciences II Structure and Properties of Material Principles of Management Chemical Process Calculations Fluid Flow Operations
Summer	Practice School I	
3	Chemical Engg Thermodynamics Mass Transfer Operations Heat Transfer Operations Selected Chemical Engineering Operations Optimization Control Systems	Kinetics & Reactor Design Chemical Process Technology Process Design Decisions Process Control Operations Research Numerical Analysis
4	Six Elective Courses	Practice School II or Dissertation

Elective Courses Offered:

Environmental Pollution Control, Process Plant Safety, Transport Phenomenon, Biochemical Engineering, Refrigeration and Air Conditioning, Advanced Process Control, Environmental Management Systems, Evolutionary Computation, Polymer Technology, Computational Transport Phenomena, Process Plant Simulation, Advanced Separation Technology, Advanced Mass Transfer, Advanced Heat Transfer, Reaction Engineering, Corrosion Engineering, Petroleum Refining and Petrochemicals, Computer Aided Process Plant Design etc