

Manufacturing Processes

Course Code: ME-342	Credit Hrs:2-0
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Text and Reference Books:

1. Mikell P Groover, Fundamental of Modern Manufacturing: Materials, Processes and Systems, John Wiley
2. S. Kalpakjian& S. R. Schmid,Manufacturing Processes for Engineering Materials, Pearson
3. Stanley A. Komacek, Ann E. Lawson & Andrew C. Horton, Manufacturing Technology, Glencoe/Mcgraw-Hill.

Course Outline:

- Introduction: Basic concepts of manufacturing processes
- Casting and Moulding: Metal casting processes and equipment, Powder metallurgy, Plastics
- Forming: Extrusion and drawing, sheet metal forming, forming and shaping plastics and composite materials
- Machining: Conventional and non-conventional machining processes
- Joining: Welding, brazing, soldering, sintering, adhesive bonding, fastening, Press fitting
- Additive Manufacturing: 3D Printing

Assessments:

Mid Exam, Final Exam, Quizzes, Assignments, Presentation, Lab Viva, Report Writing