Course Title:	Course Code:	Credit Hrs:
Manufacturing Processes	ME-342	3+1

Textbook:

 Mikell P Groover, Fundamental of Modern Manufacturing: Materials, Processes and Systems, John Wiley

Reference Books:

- S. Kalpakjian& S. R. Schmid, Manufacturing Processes for Engineering Materials, Pearson
- Stanley A. Komacek, Ann E. Lawson & Andrew C. Horton, Manufacturing Technology, Glencoe/Mcgraw-Hill.

Course Objective:

Manufacturing Processes covers methods and techniques used in industrial production, including casting, machining, forming, welding, and additive manufacturing, to efficiently transform raw materials into finished products while ensuring quality, cost-effectiveness, and sustainability.

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

Description	Percentage Weightage (%)
Assignments	05-10%
Quizzes	10-15%
Mid Semester Exams	30-40%
End Semester ASSESSMENTS Exam	40-50%