

Course Syllabus

Course Code and Name	ME 26222 –Production Technology and Workshops
Credit and contact hours	2 (1, 0, 2) (Lecture, Tutorial, Lab)
Required or Elective	Required
Level / Year	Level (4) / Year (2)
Course Prerequisite	-
Textbook	John A. Schey, "Introduction to Manufacturing Processes", (McGraw-Hill Series in Mechanical Engineering & Materials Science), last edition.
Course Description	This course gives introduction, industrial safety, function, and planning of workshop. Properties of materials and their applications. Workshop metrology. Basic bench work operations. Machining operations, tools, equipment, and machinery used in basic workshop processes: Turning, Milling, Grinding, Drilling, Shaping, Forging, and Sheet metalwork. Welding Processes: Gas welding, Arc welding, Brazing and Soldering. Casting processes: Sand casting, Die-casting. The course contents will be periodically reviewed by the instructors and the Undergraduate Committee to include new materials of relevance and improved teaching method.
Brief List of Topics to be Covered	<ol style="list-style-type: none">1. Introduction- Electrical safety.2. Workshop Metrology.3. Introduction to Metal Casting.4. Introduction to Engineering Materials.5. Machining operations.6. Deformation process for sheet metal7. Welding Processes.8. Basics of Carpentry
Course is prerequisite for	-