DMX3206 Introduction to Manufacturing Processes

Level	Level 3
Course Code	DMX3206
Course Title	Introduction to Manufacturing Processes
Credit value	2
Core/Optional	Core
Course Aim/s	To provide foundation of theoretical and practical knowledge of manufacturing processes and their applications
Course Learning Outcomes (CLO):	At the completion of this course student will be able to:
	 CLO1: Identify the fundamentals of manufacturing methods of iron and steel. CLO2: Describe the principles of Measurement systems and Metal Inspection techniques. CLO3: Recognize the methods for improving quality of steels and surface enhancing
	methods of metals CLO4: Discuss the various Joining methods, their limitations and their industrial applications
	CLO5: Describe the concepts of metal machining and types of metal machining methods
	CLO6: Describe the operations of various types of primary shaping processes
	CLO7: Illustrate the fundamentals of Metal Forming and Sheet Metal Working methods
Content	Outline Syllabus:
	 Unit 01: Fundamental of Manufacturing Unit 02: Property Enhancing and Surface Processing Operations Unit 03: Joining Processes Unit 04: Metal Removal Processes Unit 05: Primary Shaping Processes Unit 06: Metal shaping processes Laboratory work: 1.Production of tapered and flat surfaces 2.Identification of metals 3.Study the operation of Oxy-Acetylene welding and Oxy-Acetylene cutting process 4.Study the operation of arc welding methods (MMAW, MIG/MAG, TIG) 5.Production of non-ferrous casting components