DMX3107 Workshop Practice

Level	Level 3
Course Code	DMX3107
Course Title	Workshop Practice
Credit value	1
Core/Optional	Core
Course Aim/s	The aim of this course is to provide the student with an opportunity to learn the concepts in bench fitting, sheet metal work, welding techniques, lathe machine operations, engineering materials and basic civil engineering concepts, together with mechanical and electrical safety procedures.
Course Learning Outcomes (CLO):	At the completion of this course student will be able to: CLO1: Practice mechanical and electrical safety procedures for personal and equipment safety. CLO2: Carry out bench fitting, sheet metal work, welding work and lathe machine work. CLO3: Identify different types of engineering materials with their typical applications. CLO4: Carry out simple house wiring with an understanding of electrical engineering principles. CLO5: Carry out soldering of electronic circuits following correct procedures and with correct tools. CLO6: Demonstrate the knowledge of concepts of civil engineering and their practical approaches.
Content	**Outline Syllabus:** Unit 01: Workshop Theory and Practice **Laboratory work:** 1. Lathe Machine and their operations 2. Fitting practical (Bolt with hexagonal head) 3. Sheet Metal Work (Liquid Measuring can) 4. Oxy Acetylene Welding 5. Electric Arc Welding 6. Domestic Wiring Systems and soldering and de-soldering practice