UNIVERSITI TEKNOLOGI MARA

MEM160: AMALAN BENGKEL

Course Name (English)	AMALAN BENGKEL APPROVED
Course Code	MEM160
MQF Credit	2
Course Description	This subject aims to introduce to students the real mechanical engineering environment represented in a workshop scale. The students will be exposed to workshop rules and regulations, safety and ethic, which guarantee mechanical engineering good practice. The students will also be exposed to measurement tools, benchwork tools, cutting tools, joining tools, casting tools, various machine tools especially for metal removal processes and sheet metal works. Various type of materials commonly used in workshop practice are also been introduced. Students will be given responsibility to produce one manufacturing product start from a technical drawing until finished product.
Transferable Skills	Demonstrateability to identify and articulate self skills, knowledge and understanding confidently and in a variety of contexts
Teaching Methodologies	Lectures, Practical Classes, Workshop
CLO	CLO1 Describe the activities in workshop practices related to the application of machine tools, bench fitting, sheet metal, foundry and welding. (PLO1) CLO2 Construct basic manufacturing tasks using workshop tools and equipment. (PLO4) CLO3 Practice workshop regulation, safety and ethic. (PLO6) CLO4 Prepare process flow before machining activities. (PLO7) CLO5 Perform workshop activities in a team. (PLO9)
Pre-Requisite Courses	No course recommendations
Reading List	**Reference Book Resources** • **H.S. Bawa 1995, *Workshop Technology*, Tata McGraw-Hill** • **Serope Kalpakjian and Steven R. Schmid 2010, *Manufacturing Processes for Engineering Materials*, 6th edition Ed., Prentice Hall** • **P.N. Rao 2001, *Manufacturing Technology : Foundry, Forming and Welding*, Tata McGraw-Hill**
Article/Paper List	This Course does not have any article/paper resources
Other References	This Course does not have any other resources