

APPROVED

EN6990: Engineering Practice

Course Details

Course Code:	EN6990
Course Title:	Engineering Practice APPROVED
Short Title:	ENG Practice
Course Level::	Level 6
Valid From::	2023/2024 Sem 1
Credits::	15
Owner:	Engineering Technology
Assessment Method:	Achievement
Course Aim	This course aims to provide students with a range of practical skills and an understanding of engineering principles required to machine or fabricate engineering components. Exposure to these workshop skills will give the student an underpinning knowledge on which to base future engineering design considerations or decisions.

CILO	
On Completion of this course, the learner will be able to	
#	Learning Outcome Description
1	Demonstrate detailed knowledge of workshop safety including the identification and management of workshop hazards.
2	Produce engineering drawings of mechanical components.
3	Interpret basic engineering drawings and use appropriate measuring equipment to manufacture components to a specified tolerance.
4	Demonstrate detailed knowledge of manufacturing processes and materials considering professional ethics.
5	Manufacture basic engineering components using: • Hand tools • Hand Power tools • Power machines (radial drills bench presses etc...) • Lathes • Milling machines • Engravers • CNC machines • MMAW (Manual metal arc welding) • GMAW (Gas metal arc welding) • GTAW (Gas Tungsten arc welding) • Hard soldering/brazing/soft soldering
Requisites	
No requisites	

Examinations
Assessment Type Examination (Unseen)
Assessment Type Examination (Practical)
No Other Controlled Assessments
Uncontrolled Assessments
Assessment Type Practical Project

Affiliated Entities			
Entity Code	Entity Title	Entity Version	Entity Type
DET6005	Diploma in Petroleum and Process Plant Operations	3	Programme
ENT6020	Diploma in Engineering Technology (Mechanical)	2	Programme
ENT6040	Diploma in Engineering Technology (Electrical)	2	Programme
ENT6050	Diploma in Engineering Technology (Electromechanical)	1	Programme
ENT6060	Diploma of Engineering Technology (Communications and Networks)	1	Programme
ENT6070	Diploma in Engineering Technology (Chemical and Industrial Processes Engineering)	1	Programme
ENT6071	Diploma in Engineering Technology (Petroleum Refining and Operations)	1	Programme
ENT6080	Diploma in Engineering Technology (Civil)	1	Programme
ENT6090	Diploma in Industrial Instrumentation and Automatic Control	1	Programme
ENT6100	Diploma in Engineering Technology (Automotive Technology)	1	Programme
ENT7020	Associate Degree in Engineering Technology (Mechanical)	2	Programme
ENT7031	Associate Degree in Engineering Technology (Electronics)	2	Programme
ENT7040	Associate Degree in Engineering Technology (Electrical)	1	Programme
ENT7050	Associate degree in Engineering Technology (Electromechanical)	1	Programme
ENT7060	Associate Degree in Engineering Technology (Communications and Networks)	1	Programme
ENT7070	Associate Degree in Engineering Technology (Chemical and Process Engineering)	1	Programme
ENT7080	Associate Degree in Engineering Technology (Civil)	1	Programme
ENT7090	AEngTech Industrial Instrumentation and Automatic Control	1	Programme
ENT8020	Bachelor of Engineering Technology (Mechanical)	3	Programme
ENT8031	Bachelor of Engineering Technology (Electronics)	4	Programme
ENT8040	Bachelor of Engineering Technology (Electrical)	2	Programme
ENT8050	Bachelor of Engineering Technology (Electromechanical)	2	Programme
ENT8060	Bachelor of Engineering Technology (Communications and Networks)	2	Programme
ENT8070	Bachelor of Engineering Technology (Chemical and Industrial Processes Engineering)	1	Programme
ENT8080	Bachelor of Engineering Technology (Civil)	1	Programme
ENT8090	Bachelor of Engineering Technology (Industrial Instrumentation and Automatic Control)	1	Programme
No Code Yet	Copy Of Associate Degree in Engineering Technology (Communications and Networks)	1	Programme
No Code Yet	Copy Of Diploma in Engineering Technology (Electrical)	1	Programme
No Code Yet	Diploma in Engineering Technology (1	Programme