

APPROVED

EN7035: PLC Programming & Applications

Course Details

Course Code:	EN7035
Course Title:	PLC Programming & Applications APPROVED
Short Title:	PLC Programming
Course Level::	Level 7
Valid From::	2021/2022 Sem 1
Credits::	30
Owner:	Engineering Technology
Assessment Method:	Achievement
Course Aim	To introduce advanced level theories, principles and concepts in the area of PLC-controlled automated control systems and to solve industrial process control problems using Programmable Logic Controllers (PLCs) and Human Machine Interfaces (HMI).

CILO	
On Completion of this course, the learner will be able to	
#	Learning Outcome Description
1	Apply advanced level programming skills in the design, implementation and testing of PLC programming code to solve defined or undefined industrial automation control problems.
2	Apply advanced practical skills and theoretical knowledge for the integration of a range of field devices to a PLC to solve advanced industrial process control problems.
3	Apply specialist level programming and testing skills in the implementation of a range of HMI applications to a process control problem using relevant industry practice and quality standards securing continuous improvement.
Requisites	
<ul style="list-style-type: none"> Pre Requisite: EN6020 and EN7230 	

Examinations
Assessment Type Examination (Unseen)
Other Controlled Assessments
Assessment Type Lab Assignment
Uncontrolled Assessments
Assessment Type Practical Project

Affiliated Entities			
Entity Code	Entity Title	Entity Version	Entity Type
ENT7031	Associate Degree in Engineering Technology (Electronics)	2	Programme
ENT7040	Associate Degree in Engineering Technology (Electrical)	1	Programme
ENT7090	AEngTech Industrial Instrumentation and Automatic Control	1	Programme
ENT8031	Bachelor of Engineering Technology (Electronics)	4	Programme
ENT8040	Bachelor of Engineering Technology (Electrical)	2	Programme
ENT8090	Bachelor of Engineering Technology (Industrial Instrumentation and Automatic Control)	1	Programme