Course Aim: The aim of this course is to provide a thorough knowledge (theoretical and practical) of the principles and best practices of Instrumentation, measurement and control.

EN7230 Instrumentation and Automatic Control

Short Title: None
Faculty: EDICT
Polytechnic Level: 15
Credits: 15
Pre-requisites: EN6010, EN6914
Co-requisites: None
Anti-requisites: EN6230

Version: 1
Effective From: February 1, 2018
Indicative NQF Level: 7
Student Contact hrs: 90
Self-directed hrs: 60
Other directed hrs: None
Total learning hrs: 150

Learning Outcomes:

1. Demonstrate advanced knowledge of core principles of control and instrumentation.
2. Critically analyse and evaluate transient response characteristics of first and second order systems.
3. Apply and demonstrate instrumentation and control strategies for a feedback control system.
4. Formulate, apply and present tuning methods for finding suitable PID controller parameters to meet an industry standard requirement for a defined control design problem.

NQF Sub-strand:
Theoretical Understanding
Theoretical Understanding
Practical
Application of knowledge
Practical
Application of knowledge