

**APPROVED**

## EN7230: Instrumentation and Automatic Control

### Course Details

Course Code:	EN7230		
Course Title:	Instrumentation and Automatic Control	APPROVED	
Short Title:	Instrumentation & Control		
Course Level::	Level 7		
Valid From::	2017/2018 Sem 2		
Credits::	15		
Owner:	Engineering Technology		
Assessment Method:	Achievement		
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.		

CILO	
On Completion of this course, the learner will be able to	
#	Learning Outcome Description
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.
Requisites	
<ul style="list-style-type: none"> <li>• Pre Requisite: EN6010, EN6914</li> <li>• Anti Requisite: EN6230</li> </ul>	

Examinations
<b>Assessment Type</b> Examination (Unseen)
Other Controlled Assessments
<b>Assessment Type</b> Lab Assignment
Uncontrolled Assessments
<b>Assessment Type</b> Practical Project

Affiliated Entities			
Entity Code	Entity Title	Entity Version	Entity Type
ENT7040	Associate Degree in Engineering Technology (Electrical)	1	Programme