EN8231

Control System Design



Course Aim To apply analysis and design techniques for the control of feedback systems and to apply the specification, analysis and design of feedback control systems using software simulation and control design software.

Short Title Faculty EDICT

Credits 15

Pre-requisites EN6230 (ENB5230) & EN7007 (ENB6007)

Co-requisites None

Anti-requisites EN8230 (ENB7230)

Version 2

Effective From February 1, 2016

Indicative NQF Level 8

Student Contact hrs 60

Self-directed hrs 90

Other directed hrs 0

Total learning hrs 150

Learning

On successful completion of this course, students will be able to:

Outcomes 1 Demonstrate critical knowledge related to the analysis of stability and performance in closed-loop control systems.

2 Apply specialist skills in the advanced analysis and design of feedback control systems using software simulation and control design software.

3 Design, implement, test experimentally and critically analyse the effectiveness of Practical a feedback control system for a practical engineering application. Applicati

NQF Sub-strand

Theoretical Understanding

Practical Application of knowledge

Practical Application of knowledge