

EN7034

Embedded Systems



Course Aim To develop specialized embedded systems using a microcontroller platform and the C++ programming language.

Short Title

Faculty EDICT

Credits 15

Pre-requisites EN6001 (ENB5001) & EN6060 (ENB5060)

Co-requisites None

Anti-requisites None

Version 3

Effective From February 1, 2016

Indicative NQF Level 7

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 Program a specialized embedded system, using a microcontroller platform to interface with a range of advanced electronic circuits.
- 2 Write and debug advanced level programs using an object-oriented programming language.
- 3 Implement, test and critically analyze algorithms on an embedded platform.

NQF Sub-strand

Practical
Application of
knowledge

Practical
Application of
knowledge

Practical
Application of
knowledge