

EN7072

Electronics Design & Manufacturing



Course Aim To provide students with the advanced theoretical knowledge and specialist practical skills in order to design and manufacture an electronic-based product that will conform to defined specifications.

Short Title EDM

Faculty EDICT

Credits 15

Pre-requisites EN6060 (or ENB5060) **and** EN6080 (or ENB5080)

Co-requisites None

Anti-requisites EN7071 (or ENB6071)

Version 2

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 Outcomes

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

- 1 Apply advanced design techniques to prototype an electronic product that optimises the manufacturing and testing processes.
- 2 Apply specialist testing skills to evaluate a prototype electronic product against accepted industry standards.
- 3 Critically analyse the design and the experimental results to provide improvements in the efficiency of an electronic product.
- 4 Document the design and testing procedures to convey complex information.

NQF Sub-strand

Practical
Application of
knowledge

Practical
Application of
knowledge

Theoretical
Understanding

Practical
Application of
knowledge