

EN7007

Electronics Circuit Design



Course Aim This course provides advanced knowledge in the design and analysis of electronics circuits. Additionally, it provides specialist practical skills for the experimental testing and critical evaluation of electronics circuit designs.

Short Title

Faculty EDICT

Credits 15

Pre-requisites EN6060 (or ENB5060)

Co-requisites None

Anti-requisites EN7006 (or ENB6006)

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 knowledge in designing electronics circuits to achieve a given design specification.
- 2 Critically evaluate an electronics circuit design by applying specialist practical skills in simulation software and experimental testing.
- 3 Apply advanced skills in selecting and using Operational Amplifiers and other specialized integrated circuits in modern electronic circuit design.

NQF Sub-strand

Theoretical
Understanding

Practical
Application of
knowledge

Practical
Application of
knowledge