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

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