

EN7072                      Electronics Design & Manufacturing



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

<b>Short Title</b>	EDM	<b>Version</b>	2
<b>Faculty</b>	EDICT	<b>Effective From</b>	February 1, 2016
<b>Credits</b>	15	<b>Indicative NQF Level</b>	7
<b>Pre-requisites</b>	EN6060 (or ENB5060) <b>and</b> EN6080 (or ENB5080)	<b>Student Contact hrs</b>	60
<b>Co-requisites</b>	None	<b>Self-directed hrs</b>	90
<b>Anti-requisites</b>	EN7071 (orENB6071)	<b>Other directed hrs</b>	0
		<b>Total learning hrs</b>	150

<b>Learning Outcomes</b>	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.

<b>NQF Sub-strand</b>
Practical
Application of knowledge
Practical
Application of knowledge
Theoretical
Understanding
Practical
Application of knowledge