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.

<table>
<thead>
<tr>
<th>Short Title</th>
<th>EDM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty</td>
<td>EDICT</td>
</tr>
<tr>
<td>Credits</td>
<td>15</td>
</tr>
<tr>
<td>Pre-requisites</td>
<td>EN6060 (or ENB5060) and EN6080 (or ENB5080)</td>
</tr>
<tr>
<td>Co-requisites</td>
<td>None</td>
</tr>
<tr>
<td>Anti-requisites</td>
<td>EN7071 (or ENB6071)</td>
</tr>
</tbody>
</table>

Learning Outcomes:

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.

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

NQF Sub-strand: Practical Application of knowledge

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

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