Module Title **Product Development** **Keywords** Engineering Systems, Drawing, Design, Manufacture, Workshop, Teamwork and Decision Making Skills	Reference EN1601 SCQF SCQF Level 7 SCQF Points 15 ECTS Points 7.5 Created May 2002 Approved March 2004 Amended August 2011 Version No. 3

This Version is No Longer Current

The latest version of this module is available here

Prerequisites for Module

EN1600 (Professional Skills) or equivalent

Corequisite Modules

None.

Precluded Modules

None.

Aims of Module

The aim of this module is to extend the skills introduced in the Professional Skills module (EN1600). The student will be able to apply basic design philosophy and demonstrate/describe the skills and techniques required/used in the manufacture of engineering

4. Provide an opportunity to assess the student's ability under a simulated situation.
5. Provide an insight to industrial organisation and practices.

The student will be expected to adhere to the principles of safe working practice. Team working will be encouraged throughout this module.

Indicative Student Workload

Contact Hours	Full Time	Part Time
Lecture/guest speaker	22	22
Directed Study		
Supervised workshop/lab practice	50	50
Private Study		
Private Study	78	78

systems.

Learning Outcomes for Module

On completion of this module, students are expected to be able to:

1. Work effectively as a member of a project group.
2. Design, assemble and test a product.
3. Present information in written, oral and visual form.
4. Demonstrate knowledge of the legal responsibility of employers and issues related to health and safety, social factors and the environment.

Indicative Module Content

This module will enhance the student's hands-on engineering skills via laboratory and workshop activities leading to management of, and participation in, a structured project. The project will be used as the vehicle to:
1. Give the student a realistic exercise in engineering practice, i.e. understanding of project management, design evaluation, manufacturing principles, assembly and test procedures.
2. Integrate the knowledge gained in the other subject areas and to introduce appropriate theory

Mode of Delivery

The module will be essentially student centred and will be supported by lecture, demonstration, guest speaker presentations and video where these are felt to be appropriate. It will involve the student working in a team to tackle problems relating to real engineering (or networking)products. The student will be given set objectives and will, in general, be expected to follow prescribed procedures. The activities in the workshops and laboratories will be supervised and tutor support will normally be available. Visits, where arranged, will be under staff supervision.

Assessment Plan

	Learning Outcomes Assessed
Component 1	1,2,3,4
Component 2	1,2,3,4

Oral Presentation and Demonstration (50% weighting)

Logbook of Practical Activities (50% weighting)

Indicative Bibliography

theory.
3. Allow the exercise of decision making and showing personal qualities, such as initiative, imagination and creativity.

1. Manuals and other literature will be made available on loan as appropriate. There is no further recommended reading.