Module Title Design Exercise  Keywords Team Exercise, Feasibility Study, Problem-solving, Presentation.	Reference EN2601 SCQF Level SCQF Points 15 ECTS Points 7.5 Created May 2002 Approved Amended August Amended
	Amended 2011 Version No. 2

# This Version is No Longer Current

The latest version of this module is available here

Prerequisites for Module	Indicative Student Workload		
		Full	Part
Successful completion of SCQF	Contact Hours	Time	Time
7 level study, or equivalent.	Assessments	2	2
	Group work	18	18
Corequisite Modules	Lectures	4	4
None.	Project	12	12
	Supervision	12	12
<b>Precluded Modules</b>	Directed Study		
	Directed reading	36	36
None.			
A CM. d.d.	Private Study		
Aims of Module	Private Study	78	78

To provide the student with the ability to solve engineering problems and produce solutions as a member of a team.

### **Learning Outcomes for Module**

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

## **Mode of Delivery**

The module is largely student-centred and can be undertaken as a member of a group or as an individual. A member of staff acts as mentor and client. The project is defined by a specification with the specific requirements

- 1. Apply creative, analytical and design skills to achieve a specified requirement.
- 2. Carry out directed information searches.
- 3. Contribute to the production of technical documentation.
- 4. Operate as a member of an engineering team.
- 5. Participate in a technical presentation.

### **Indicative Module Content**

There is no formal syllabus for this module which is research and development project based. The topic for investigation depends on the degree course and mode of attendance with the general aim being the design and development a solution which meets a specification. The module operates in two phases. In the first phase an examination of possible solutions to the problem is made and a feasibility study is produced. In the second phase, the solution is developed and technical documentation is produced. When working as a member of one of several student teams, a competitive element may be introduced. When working individually, an industrial or research work-based element may be appropriate with tutors or work colleagues fulfilling the

being presented at the start of the exercise along with other background material. Students research the topic by means of directed reading and carry out design and development work that culminates in the production of specified deliverables.

#### **Assessment Plan**

	Learning Outcomes
	Assessed
Component 1	1,2,3,4,5
Component 2	1,3,4,5

Component 2 is the Project implementation. (50% weighting)

Component 1 is a feasibility study. (50% weighting)

### **Indicative Bibliography**

1.Required reading is defined by the project supervisor.

role of team members.