

MODULE DESCRIPTOR

Module Title

Professional Skills

Reference	EN1600	Version	10
Created	March 2024	SCQF Level	SCQF 7
Approved	March 2004	SCQF Points	15
Amended	April 2024	ECTS Points	7.5

Aims of Module

To develop and apply skills in engineering workshop practice, engineering applications, communication, reflective writing and professional development.

Learning Outcomes for Module

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

- 1 Acquire understanding and proficiency in completing a systems-based engineering build project using practical laboratory skills and engineering drawing practice.
- 2 Describe appropriate materials, equipment, engineering technologies and processes used.
- 3 Recognise the environmental and societal impact, including sustainability, of the build project and their solutions.
- 4 Obtain an assessment of ethical issues that are relevant to the build project.
- 5 Record skills and attributes developed through academic study and work experience using appropriate format.

Indicative Module Content

Engineering skills: Maintain an engineering reflective logbook of evidence demonstrating competence and understanding of skills in the following areas; design constraints, manufacture, assembly and testing of an electro-mechanical product utilising sheet metal manufacture, hand and machine tools, PCB population, soldering, inter-wiring, workshop safety, and engineering drawing showing understanding of basic principles of projection systems and sectioning, introduction to UNSDGs.

Module Delivery

This module comprises a mixed delivery of guided lessons and practical work. Students will be taught engineering application skills and reflective writing skills. Delivery will be in a workshop and classroom environment.

Indicative Student Workload

	Full Time	Part Time
Contact Hours	60	N/A
Non-Contact Hours	90	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	150	N/A
<i>Actual Placement hours for professional, statutory or regulatory body</i>		

ASSESSMENT PLAN

If a major/minor model is used and box is ticked, % weightings below are indicative only.

Component 1

Type: Coursework Weighting: 100% Outcomes Assessed: 1, 2, 3, 4, 5
 Description: Portfolio of evidence.

MODULE PERFORMANCE DESCRIPTOR**Explanatory Text**

Component 1 comprises 100% of module grade. To pass the module, a D grade is required.

Module Grade	Minimum Requirements to achieve Module Grade:
A	A
B	B
C	C
D	D
E	E
F	F
NS	Non-submission of work by published deadline or non-attendance for examination

Module Requirements

Prerequisites for Module None.
 Corequisites for module None.
 Precluded Modules None.

INDICATIVE BIBLIOGRAPHY

- 1 British Standard BS 8888:2017 - Technical product documentation and specification.
- 2 Manuals and other technical literature will be made available on loan as appropriate.