

MODULE DESCRIPTOR

Module Title

Renewable Energy Group Project

Reference	EN3605	Version	1
Created	September 2023	SCQF Level	SCQF 9
Approved	February 2024	SCQF Points	15
Amended		ECTS Points	7.5

Aims of Module

To provide the student with the ability to complete an investigation into a renewable energy topic and to undertake the associated design, implementation and testing as a member of a project group.

Learning Outcomes for Module

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

- 1 Demonstrate the ability to work effectively as part of a project team.
- 2 Discuss the role of quality management systems in solving renewable energy problem.
- 3 Demonstrate the solution to a problem.
- 4 Assess the environmental impacts of the proposed solution to the design problem.

Indicative Module Content

The group project involves task specification, system design, implementation, evaluation, and project management. Students should discuss the role of quality management systems within context of their project design. There is no formal syllabus for the group project in general, but seminars are used to provide guidance with regard to project management and report writing.

Module Delivery

The group project is student-centred. Students are allocated their groups, each of which has a member of academic staff who acts as a supervisor. Regular weekly meetings take place to review progress. All students must maintain a logbook.

Indicative Student Workload

	Full Time	Part Time
Contact Hours	20	N/A
Non-Contact Hours	130	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
Description:	Project Report				

MODULE PERFORMANCE DESCRIPTOR**Explanatory Text**

This module has 1 component and to gain an overall pass a minimum D grade must be achieved.

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.

ADDITIONAL NOTES

An indicative Bibliography will normally reference the latest edition of a text. In some cases, older editions are equally useful for students and therefore, those are the editions that may be stocked.

INDICATIVE BIBLIOGRAPHY

- 1 EVERRET, B., 2021. Energy Systems and Sustainability: Power for a Sustainable Future, Oxford 3rd Ed
- 2 LUND, H., 2014. Renewable Energy Systems: A Smart Energy Systems Approach to the Choice and Modeling of 100% Renewable Solutions, Academic Press 2nd Ed.
- 3 MASTERS, G.M., 2013. Renewable and Efficient Electric Power Systems. Wiley