

# This Version is No Longer Current

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## MODULE DESCRIPTOR

### **Module Title**

Environmental Impact and Risk Management

Reference	ENM231	Version	8
Created	March 2020	SCQF Level	SCQF 11
Approved	April 2006	SCQF Points	15
Amended	June 2020	ECTS Points	7.5

### Aims of Module

To provide a practical guide to the technical and scientific concepts required by those who have professional responsibility for the design, management or conduct of environmental impact and risk assessment

## Learning Outcomes for Module

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

- 1 Analyse and critically discuss environmental systems in terms of their biotic and abiotic components.
- 2 Evaluate different types of environment and evaluate associated environmental impacts.
- 3 Numerically model the dispersion of environmental pollutants.
- 4 Demonstrate essential environmental risk assessment and risk management processes in engineering project planning and execution.

### **Indicative Module Content**

Significance of the physical and social environments. Classifying impact (environment, economic, social, political). Quantitative and qualitative approaches to environmental resources and environmental impacts. The mechanisms by which pollutants are transported, sources & sinks of pollutants, contamination of the biotic and abiotic systems, remediation planning and execution. Environmental impact management and assessment techniques, Planning and decision-making in the project development process. Environmental Hazard and Risk Assessment, Case studies.

#### **Module Delivery**

This is a lecture and tutorial based full time course, with case study work, plus private study and discussion. The course is available as an online learning module with online tutor support. A blend of distance learning and direct attendance is also possible.

	Module Ref:	ENM23	1 v8
Indicative Student Workload		Full Time	Part Time
Contact Hours		36	36
Non-Contact Hours		114	114
Placement/Work-Based Learning Experience [Notional] Hours		N/A	N/A
TOTAL		150	150
Actual Placement hours for professional, statutory or regulatory bo	dy		

# **ASSESSMENT PLAN**

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

## **Component 1**

Туре:	Coursework	Weighting:	100%	Outcomes Assessed:	1, 2, 3, 4
Description:	A case study supp	orted by a field tri	р.		

# MODULE PERFORMANCE DESCRIPTOR

## **Explanatory Text**

In order to pass the module, students should achieve a mark of at least 50% and an overall grade of D or greater.

Module Grade	Minimum Requirements to achieve Module Grade:
Α	Greater than or equal to 70%
В	In the range 60% to 69%
С	In the range 55% to 59%
D	In the range 50% to 54%
E	In the range 40% to 49%
F	Less than 40%
NS	Non-submission of work by published deadline or non-attendance for examination

Module Requirements		
Prerequisites for Module	Normally a UK honours degree, or equivalent, in Engineering or related discipline at class 2.2 or above and proficiency in English language for academic purposes (IELTS minimum score of 6.5 or equivalent).	
Corequisites for module	None.	
Precluded Modules	This module is not suitable for students following an MSc in Professional Studies programme unless they meet the entry qualifications stipulated in the University Regulations on admission and the prerequisites above.	

# ADDITIONAL NOTES

The indicative student workload for distance learning equates to the part time and the blended learning equates to the full time as given above.

## INDICATIVE BIBLIOGRAPHY

- 1 TRUJILLO AP, THURMAN HV, 2008, Essentials of Oceanography, 9th Ed, Pearson.
- 2 WAINWRIGHT and MULLIGAN (ed), 2013, Environmental Modelling: Finding Simplicity in Complexity [Kindle Edition], Wiley.
- 3 CRESSER M, et al, 2012, Introduction to Environmental Science: Earth and Man, Pearson.
- 4 PERMAN, et al, 2011, Natural Resource and Environmental Economics, Addison Wesley.
- 5 TOR HUNDLOE, 2021, Environmental Impact Assessment Incorporating Sustainability Principles, Palgrave Macmillan