

## MODULE DESCRIPTION FORM

### DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

### CL960 Fundamentals of Environmental Forensics

<b>Module Registrar: Christopher Gallacher</b>	<b>Taught To (Course): MSc</b>		
<b>Other Lecturers Involved:</b>	<b>Credit Weighting: 10</b>	<b>Semester: 1/2/3</b>	
<b>Assumed Prerequisites:</b>	<b>Optional/ elective class</b>	<b>Academic Level: 5</b>	<b>Suitable for Exchange: Y</b>

#### Module Format and Delivery (HOURS i.e. 1 credit = 10hrs of study):

Lecture	Tutorial	Laboratory	Groupwork	External	Online	Project	Assignments	Private Study	Total
20							40	40	100

#### Educational Aim

This module aims to provide the student with an understanding of:

- An understanding of Environmental Forensics as a Discipline
- An understanding of a range of contaminants found in the Environment, and their Fate and Transport
- Approach and analytical techniques to determine the responsible parties for contamination found in the environment

Real-world applications of Environmental Forensics

#### Learning Outcomes

On completion of the module the student is expected to be able to

LO1 demonstrate an understanding of the use of environmental science data within a legal framework including interpretation of real world application of Environmental Forensics

LO2 demonstrate an understanding of the methods for collecting environmental data and how the process of collecting data is managed within a Legal Environmental Forensics framework.

#### Syllabus

The module will teach the following:

Lectures on the Legal Framework that shapes Environmental Forensics

Lectures on scientific and environmental investigation techniques used in Environmental Forensics

Review of real case studies that have been determined using Environmental Forensics

## Assessment of Learning Outcomes

### Criteria

For each of the Module Learning Outcomes the following criteria will be used to make judgements on student learning:

For each of the Class Learning Outcomes the following criteria will be used to make judgements on student learning:

LO1 and LO2 will be assessed through evaluation of the coursework assignment and through informative assessment in class discussion periods

LO1 and LO2 will also be assessed formally through an examination

The standards set for each criterion per Module Learning Outcome to achieve a pass grade are indicated on the assessment sheet for all assessment.

### Principles of Assessment and Feedback

(within Assessment and Feedback Policy at:

<https://www.strath.ac.uk/staff/policies/academic/http://www.strath.ac.uk/learnteach/informationforstaff/staff/assessfeedback/12principles/>)

Informative assessment through feedback on coursework submission and group discussions will provide the students with the ability to gauge their learning against the expected outcomes.

Feedback in group discussions will be immediate and for the coursework, feedback will be provided within 3 weeks of submission of the project.

### Assessment Method(s) Including Percentage Breakdown and Duration of Exams

	Examinations			Courseworks		Weekly Quizzes		
	Number	Month(s)	Duration	Weighting	Number	Weighting	Number	Weighting
	1	End of Sem	2.5 hour	50%	2	40%	10	10%
L/Outcomes	LO1 LO2			LO1 LO2		LO1 LO2		

Indicate which learning outcomes (LO1, LO2 etc) are to be assessed by exam/coursework/project as required.

### Coursework / Submissions deadlines (academic weeks):

Assignment 1 – Week 5

Assignment 2 – Week 11

### Resit Assessment Procedures:

2.5 hr examination in August diet / Resubmission of coursework(s) prior to commencement of the August exam diet.

### PLEASE NOTE:

Students must gain a summative mark of 50% to pass the module. Students who fail the module at the first attempt will be re-examined during the August diet. This re-examination will consist entirely of exam / coursework.

### Recommended Reading

All text books and reading materials required for the module are available on MyPlace

### Additional Student Feedback

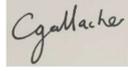
(Please specify details of when additional feedback will be provided)

Date	Time	Room No

Session: 2022/2023

**Approved:**

**Course Director Signature:**

A handwritten signature in black ink on a light beige rectangular background. The signature appears to be 'C. Gallacher' written in a cursive style.

**Date of Last Modifications: 16/08/22**

## MODULE TIMETABLE

Module Code:

CL960

Module Title:

Fundamentals of Environmental Forensics

**Brief Description of Assessment:**

Weekly Quizzes (10%) - 10 weekly quizzes (note can be completed at any time before the end of the exam period)

Assignment 1 (10%) – Available Week 1 due Week 5

Assignment 2 (30%) – Available Week 1 due Week 11

Class Exam (50%) – Within example period

**Assessment Timing:-**

Indicate on the table below the start/submission dates for each assignment/project and the timing of each exam/assessment using the dropdowns provided. Dropdowns can be left blank. Add extra notes below the dropdowns.

**Please note: Timings can and will change, this should only be used as a guide.**

Semester	C&D Wk	WK1	WK2	WK3	WK4	WK5	WK6	WK7	WK8	WK9	WK10	WK11	Exam Period
		Quiz 1	Quiz 2	Quiz 3	Quiz 4	Quiz 5 Course work Submit Assignment 1	Quiz 6	Quiz 7	Quiz 8	Quiz 9	Quiz 10	Course work Submit Assignment 2	Exam