Module Descriptor

Title	Environmental Management Masters Dissertation		
Session	2025/26	**Status**	Published
Code	CEWM11007	**SCQF Level**	11
Credit Points	60	**ECTS (European Credit Transfer Scheme)**	30
School	**Computing, Engineering and Physical Sciences**		
Module Co-ordinator	Li Sun		

Summary of Module

On completion of your dissertation, you will gain the following Graduate Attributes:

- You will be a Critical thinker as you work on a research-minded project
- You will be a Problem solving and effective communicator
- Your research will be innovative and creative producing resilient solutions to our environmental and waste management challenges

Students undertake a programme of practical research and study at an advanced level, dealing with a topic or issue relevant to post-graduate diploma modules completed previously. Topics are chosen either from an industrial situation at the student's place of work, a part of the postgraduate programme that particularly interested the student, or an initiative from an academic member of staff. On occasion, topics are available through contacts in local businesses where students can have an opportunity to prepare their dissertation whilst working with a company. Dissertation guidelines are available at the beginning of the academic year and posted on the virtual learning environment.

The dissertation is supervised by an academic member of staff, with a second supervisor providing both topic specific and academic advice on the preparation of the dissertation report.

A time allocation of 20 hours of supervisor's time is available for each student.

Students will present their research results, both in an oral presentation and in a hard-bound document. They will gain a complete knowledge of the stages of research, critical analysis, compilation of material, development of results and conclusions, and an ability to present their work to peers, supervisors and potential employers.

Module Delivery Method	On-Campus[1] ☒	Hybrid[2] ☐	Online[3] ☐	Work -Based Learning[4] ☐
Campuses for Module Delivery	☐ Ayr ☐ Dumfries	☐ Lanarkshire ☐ London ☒ Paisley	☐ Online / Distance Learning ☐ Other (specify)	

Terms for Module Delivery	Term 1	☒	Term 2	☒	Term 3	☒
Long-thin Delivery over more than one Term	Term 1 – Term 2	☐	Term 2 – Term 3	☐	Term 3 – Term 1	☐

Learning Outcomes	
L1	Consolidate and integrate knowledge gained from the taught modules and carry out a programme of research in such a way as to apply effective strategies in waste and clean technologies.
L2	Independently undertake an extensive and detailed research topic and collect appropriate data and information.
L3	Critically review and interpret information, draw detailed conclusions and present results in a clear, concise written report of about 18,000 words.
L4	
L5	

Employability Skills and Personal Development Planning (PDP) Skills	
SCQF Headings	**During completion of this module, there will be an opportunity to achieve core skills in:**
Knowledge and Understanding (K and U)	**SCQF 11** Gain a critical understanding of the development of principles undertaking research in a topic related to waste and clean technologies.
Practice: Applied Knowledge and Understanding	**SCQF 11** Using a range of skills and techniques, identify elements of waste that contribute to the MSc dissertation and that lead to original research. Synthesise information and gain a coherent understanding of theories and practices in managing waste and applying clean technologies.

[1] Where contact hours are synchronous/ live and take place fully on campus. Campus-based learning is focused on providing an interactive learning experience supported by a range of digitally-enabled asynchronous learning opportunities including learning materials, resources, and opportunities provided via the virtual learning environment. On-campus contact hours will be clearly articulated to students.

[2] The module includes a combination of synchronous/ live on-campus and online learning events. These will be supported by a range of digitally-enabled asynchronous learning opportunities including learning materials, resources, and opportunities provided via the virtual learning environment. On-campus and online contact hours will be clearly articulated to students.

[3] Where all learning is solely delivered by web-based or internet-based technologies and the participants can engage in all learning activities through these means. All required contact hours will be clearly articulated to students.

[4] Learning activities where the main location for the learning experience is in the workplace. All required contact hours, whether online or on campus, will be clearly articulated to students

Generic Cognitive skills	**SCQF 11** Develop and demonstrate an ability to carry out independent research and communicate effectively, both orally and in report form. Demonstrate a detailed understanding of an issue and develop a solution to the problems.
Communication, ICT and Numeracy Skills	**SCQF 11** Gain a full understanding of the process of preparing oral and written reports, using IT. Communicate study results in a professional setting to peers and specialists.
Autonomy, Accountability and Working with Others	**SCQF 11** Work independently to analyse information, formulate a solution and present it back to the group. Work independently to create a programme of management for an environmental issue.

Prerequisites	**Module Code**	**Module Title**
	Other Students must successfully complete all 6 Level 11 modules in Environmental Management or possess an appropriate academic, vocational or professional qualification from another institution. Reg 6.3.1	
Co-requisites	**Module Code**	**Module Title**

Learning and Teaching	
In line with current learning and teaching principles, a 20-credit module includes 200 learning hours, normally including a minimum of 36 contact hours and maximum of 48 contact hours.	
Learning Activities During completion of this module, the learning activities undertaken to achieve the module learning outcomes are stated below:	**Student Learning Hours** (Note: Learning hours include both contact hours and hours spent on other learning activities)
Lecture / Core Content Delivery	12
Tutorial / Synchronous Support Activity	24
Independent Study	564
Please select	
Please select	
Please select	
TOTAL	600

Indicative Resources
The following materials form essential underpinning for the module content and ultimately for the learning outcomes: Research seminar class notes, and research techniques notes on the Virtual Learning Environment. MSc guidelines provided to students. Each dissertation is on a different topic, so all resources necessary for the dissertation are discussed and found within the individual literature reviews.
(N.B. Although reading lists should include current publications, students are advised (particularly for material marked with an asterisk*) to wait until the start of session for confirmation of the most up-to-date material)

Attendance and Engagement Requirements
In line with the Student Attendance and Engagement Procedure, Students are academically engaged if they are regularly attending and participating in timetabled on-campus and online teaching sessions, asynchronous online learning activities, course-related learning resources, and complete assessments and submit these on time. **For the purposes of this module, academic engagement equates to the following:** The School of Computing, Engineering and Physical Sciences considers attendance and engagement to mean a commitment to attending, and engaging in, timetabled sessions. You will scan your attendance via the scanners each time you are on-campus and you will login to the VLE several times per week. Where you are unable to attend a timetabled learning session due to illness or other circumstance, you should notify the Programme Leader that you cannot attend. Across the School an 80% attendance threshold is set. If you fall below this, you will be referred to the Student Success Team to see how we can best support your studies.

Equality and Diversity
The University's Equality, Diversity and Human Rights Procedure can be accessed at the following link: UWS Equality, Diversity and Human Rights Code. Aligned with the University's commitment to equality and diversity, this module supports equality of opportunity for students from all backgrounds and learning needs. Using the VLE, material will be presented electronically in formats that allow flexible access and manipulation of content. This module complies with University regulations and guidance on inclusive learning and teaching practice. Specialist assistive equipment, support provision and adjustment to assessment practice in accordance with the University's policies and regulations.
(N.B. Every effort will be made by the University to accommodate any equality and diversity issues brought to the attention of the School)

Supplemental Information

Divisional Programme Board	**Engineering Physical Sciences**
Overall Assessment Results	☐ **Pass / Fail** ☒ **Graded**
Module Eligible for Compensation	☐ **Yes** ☒ **No** **If this module is eligible for compensation, there may be cases where compensation is not permitted due to**

	programme accreditation requirements. Please check the associated programme specification for details.
School Assessment Board	Physical Sciences
Moderator	Cristina Rodriguez Nunez
External Examiner	A Oke
Accreditation Details	
Module Appears in CPD catalogue	☐ **Yes** ☒ **No**
Changes / Version Number	2.18 Accreditation updated- don't have accreditation with CIEM Attendance and Engagement Requirement updated Equality and Diversity updated

Assessment (also refer to Assessment Outcomes Grids below)
Assessment 1
Dissertation/ Project report/ Thesis
Assessment 2
Oral presentation
Assessment 3
(N.B. (i) Assessment Outcomes Grids for the module (one for each component) can be found below which clearly demonstrate how the learning outcomes of the module will be assessed. (ii) An indicative schedule listing approximate times within the academic calendar when assessment is likely to feature will be provided within the Student Module Handbook.)

Component 1							
Assessment Type	**LO1**	**LO2**	**LO3**	**LO4**	**LO5**	**Weighting of Assessment Element (%)**	**Timetabled Contact Hours**
Dissertation/ Project report/ Thesis	☒	☒	☒	☐	☐	80	0

Component 2							
Assessment Type	**LO1**	**LO2**	**LO3**	**LO4**	**LO5**	**Weighting of Assessment Element (%)**	**Timetabled Contact Hours**
Presentation	☒	☒	☒	☐	☐	20	0

Component 3

Assessment Type	LO1	LO2	LO3	LO4	LO5	Weighting of Assessment Element (%)	Timetabled Contact Hours
	☐	☐	☐	☐	☐		
Combined total for all components						100%	0 hours

Change Control

What	When	Who