



MODULE SPECIFICATION

Part 1: Information			
Module Title	Strategic Issues in Engineering		
Module Code	UBGMGR-15-3	Level	Level 6
For implementation from	2019-20		
UWE Credit Rating	15	ECTS Credit Rating	7.5
Faculty	Faculty of Environment & Technology	Field	Geography and Environmental Management
Department	FET Dept of Geography & Environmental Mgmt		
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
<p>Features: Module entry requirements: 60 credits at Level 2</p> <p>Educational Aims: See learning outcomes.</p> <p>Outline Syllabus: The syllabus includes:</p> <p>The role of the engineer in society.</p> <p>Organisation of professional learned societies and registration bodies.</p> <p>The historical context of Civil Engineering and our heritage.</p> <p>Responsibility, Codes of Conduct and Ethical Practice as a professional.</p> <p>Strategic issues and major challenges facing the world in which engineers can play a role.</p> <p>A philosophical perspective – technology, health and safety, sustainability and drivers for change in an international arena.</p>

STUDENT AND ACADEMIC SERVICES

Teaching and Learning Methods: The learning philosophy underpinning the module is to provide students with an opportunity to practice and enhance their research skills whilst at the same time acquiring an in-depth understanding of aspects of the engineer in society. The module also aims to provide opportunity to practice and develop information gathering, analytical skills and academic writing and presentation skills.

Students will be required to select two thematic areas from the strategic issues facing engineers, with the agreement of the module leader/tutor. They will prepare “position statements” on both themes, from which one will be selected with the tutor’s guidance for oral presentation and preparation of a review paper.

Students will be encouraged to submit outlines of their presentation for formative comment and drafts of their review paper.

Part 3: Assessment

Summative Assessment

Component A - Presentation and Oral Examination. Learning outcome 1:
Presentation and oral examination

Answers will be assessed according to the following criteria:

Technical content.

Structure, organisation and clarity of analysis.

Presentation skills.

Contribution to the discussion.

Component B – Position Paper . Learning outcomes 2, 3 and 4:

Equivalent to 2000 words.

Paper will be assessed according to the following criteria:

Technical content.

Clarity and depth of analysis.

Appropriateness of conclusions and recommendations.

Format, presentation and adherence to format standards.

Formative work:

Students will be encouraged to submit drafts of their presentations and position papers for comment and feedback.

First Sit Components	Final Assessment	Element weighting	Description
Written Assignment - Component B	✓	60 %	Position paper (2000 words)
Examination - Component A		40 %	Presentation and oral exam (2 hour)
Resit Components	Final Assessment	Element weighting	Description
Written Assignment - Component B	✓	60 %	Position paper (2000 words)
Examination - Component A		40 %	Presentation and oral exam (2 hour)

STUDENT AND ACADEMIC SERVICES

Part 4: Teaching and Learning Methods																	
Learning Outcomes	<p>On successful completion of this module students will achieve the following learning outcomes:</p> <table border="1"> <thead> <tr> <th style="text-align: left;">Module Learning Outcomes</th> <th style="text-align: left;">Reference</th> </tr> </thead> <tbody> <tr> <td>Demonstrate your familiarity with contemporary debate in at least two thematic areas relevant to engineering in society</td> <td>MO1</td> </tr> <tr> <td>Evaluate current resources, data and technologies related to the selected thematic areas</td> <td>MO2</td> </tr> <tr> <td>Critically review contemporary policy and practice within the selected thematic areas</td> <td>MO3</td> </tr> <tr> <td>Identify strategic responses and research needs</td> <td>MO4</td> </tr> </tbody> </table>	Module Learning Outcomes	Reference	Demonstrate your familiarity with contemporary debate in at least two thematic areas relevant to engineering in society	MO1	Evaluate current resources, data and technologies related to the selected thematic areas	MO2	Critically review contemporary policy and practice within the selected thematic areas	MO3	Identify strategic responses and research needs	MO4						
Module Learning Outcomes	Reference																
Demonstrate your familiarity with contemporary debate in at least two thematic areas relevant to engineering in society	MO1																
Evaluate current resources, data and technologies related to the selected thematic areas	MO2																
Critically review contemporary policy and practice within the selected thematic areas	MO3																
Identify strategic responses and research needs	MO4																
Contact Hours	<table border="1"> <thead> <tr> <th colspan="2" style="text-align: left;">Independent Study Hours:</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Independent study/self-guided study</td> <td style="text-align: center;">112</td> </tr> <tr> <td style="text-align: right;">Total Independent Study Hours:</td> <td style="text-align: center;">112</td> </tr> <tr> <th colspan="2" style="text-align: left;">Scheduled Learning and Teaching Hours:</th> </tr> <tr> <td style="text-align: center;">Face-to-face learning</td> <td style="text-align: center;">38</td> </tr> <tr> <td style="text-align: right;">Total Scheduled Learning and Teaching Hours:</td> <td style="text-align: center;">38</td> </tr> <tr> <td>Hours to be allocated</td> <td style="text-align: center;">150</td> </tr> <tr> <td>Allocated Hours</td> <td style="text-align: center;">150</td> </tr> </tbody> </table>	Independent Study Hours:		Independent study/self-guided study	112	Total Independent Study Hours:	112	Scheduled Learning and Teaching Hours:		Face-to-face learning	38	Total Scheduled Learning and Teaching Hours:	38	Hours to be allocated	150	Allocated Hours	150
Independent Study Hours:																	
Independent study/self-guided study	112																
Total Independent Study Hours:	112																
Scheduled Learning and Teaching Hours:																	
Face-to-face learning	38																
Total Scheduled Learning and Teaching Hours:	38																
Hours to be allocated	150																
Allocated Hours	150																
Reading List	<p><i>The reading list for this module can be accessed via the following link:</i></p> <p>https://uwe.rl.talis.com/modules/ubgmgr-15-3.html</p>																

Part 5: Contributes Towards	
This module contributes towards the following programmes of study:	