



Module Specification

Strategic Issues in Engineering

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Part 1: Information

Module title: Strategic Issues in Engineering

Module code: UBGMR-15-3

Level: Level 6

For implementation from: 2021-22

UWE credit rating: 15

ECTS credit rating: 7.5

Faculty: Faculty of Environment & Technology

Department: FET Dept of Geography & Environmental Mgmt

Partner institutions: None

Delivery locations: Frenchay Campus, Northshore College of Business and Technology

Field: Geography and Environmental Management

Module type: Standard

Pre-requisites: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: Not applicable

Features: Module entry requirements: 60 credits at Level 2

Educational aims: See learning outcomes.

Outline syllabus: The syllabus includes:

The role of the engineer in society.

Organisation of professional learned societies and registration bodies.

The historical context of Civil Engineering and our heritage.

Responsibility, Codes of Conduct and Ethical Practice as a professional.

Strategic issues and major challenges facing the world in which engineers can play a role.

A philosophical perspective – technology, health and safety, sustainability and drivers for change in an international arena.

Part 3: Teaching and learning methods

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.

Module Learning outcomes: On successful completion of this module students will achieve the following learning outcomes.

MO1 Demonstrate your familiarity with contemporary debate in at least two thematic areas relevant to engineering in society

MO2 Evaluate current resources, data and technologies related to the selected thematic areas

MO3 Critically review contemporary policy and practice within the selected thematic areas

MO4 Identify strategic responses and research needs

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 112 hours

Face-to-face learning = 38 hours

Total = 150

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/ubgmgr-15-3.html) via the following link <https://uwe.rl.talis.com/modules/ubgmgr-15-3.html>

Part 4: Assessment

Assessment strategy: 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.

Assessment components:

Presentation - Component A (First Sit)

Description: Presentation and oral exam (2 hour)

Weighting: 40 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1

Written Assignment - Component B (First Sit)

Description: Position paper (2000 words)

Weighting: 60 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO2, MO3, MO4

Presentation - Component A (Resit)

Description: Presentation and oral exam (2 hour)

Weighting: 40 %

Final assessment: No

Group work: No

Learning outcomes tested:

Written Assignment - Component B (Resit)

Description: Position paper (2000 words)

Weighting: 60 %

Final assessment: Yes

Group work: No

Learning outcomes tested:

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Civil and Environmental Engineering [Sep][FT][Frenchay][3yrs] BEng (Hons) 2019-20

Civil and Environmental Engineering [Sep][PT][Frenchay][7yrs] MEng 2018-19

Civil and Environmental Engineering {Apprenticeship-UWE}
[Sep][FT][Frenchay][5yrs] BEng (Hons) 2018-19

Civil and Environmental Engineering [Sep][PT][Frenchay][5yrs] BEng (Hons) 2018-19

Civil and Environmental Engineering {Foundation} [Sep][FT][Frenchay][4yrs] BEng (Hons) 2018-19

Civil Engineering [Jan][FT][Northshore][4yrs] BEng (Hons) 2019-20

Civil Engineering [Jan][FT][Northshore][4yrs] MEng 2019-20

Civil and Environmental Engineering [Sep][FT][Frenchay][4yrs] MEng 2019-20