Module Specification

Individual Civil Engineering Project

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Contents

Part 1: Information

Module title: Individual Civil Engineering Project

Module code: UBGMQP-30-3

Level: Level 6

For implementation from: 2023-24

UWE credit rating: 30

ECTS credit rating: 15

Faculty: Faculty of Environment & Technology

Department: FET Dept of Geography & Envrnmental Mgmt

Partner institutions: None

Field: Geography and Environmental Management

Module type: Module

Pre-requisites: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: Module Entry Requirements: 60 credits at Level 2

Features: Module Entry Requirements: 60 credits at level 2

Educational aims: The Individual Civil Engineering Project is a major, individual investigative research or design study project. The precise nature of the project will depend on the topic selected by the student but in all situations the topic should be intellectually challenging, provide scope for students to demonstrate initiative and

creative thinking, and include consideration of matters that relate to the climate crisis.

Outline syllabus: Students will select topics provided by supervisors, or may propose a topic to a supervisor. Student proposed topics must be agreed with the student's supervisor. The student's supervisor will be nominated by the module leader based on the supervisors industrial and research experience in the area of the topic.

Part 3: Teaching and learning methods

Teaching and learning methods: Learning is predominantly independent, self-directed study. Through this, and with the guidance of the supervisor, and the provision of learning resources and timetabled sessions, students will develop skills in:

Planning and management of a technical project

Management of the ethics and risks of a project

Selecting, reviewing, critically analysing and evaluating appropriate academic and grey literature, and also any relevant legislation, codes of practice, and other policy or practice literature

Developing an appropriate research or design study methodology that meets the project requirements

Clearly presenting the results in appropriate formats including tables, figures and charts

Thorough analysis of data using appropriate methods

Critically evaluate the outcomes of the analysis

Effective, concise and precise written and verbal communication skills to disseminate technical content

Develop conclusions, recommendations and identify limitations for a technical project

Scheduled learning:

Formal taught sessions are provided for ethical, cost estimation (e.g. for materials purchase if relevant), risk management and academic skills at the beginning of the module.

Supervision:

Each student will have a nominated supervisor. Review meetings will be held on a regular basis between supervisor and student. These meetings will allow the student to discuss the planning and progress of the project, and receive feedback, direction and guidance from the supervisor. These meetings will typically take place every two to three weeks during term time. It is the responsibility of the student to arrange and record these meetings.

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

MO1 Establish the critical issues to be examined and addressed in the execution of an engineering-discipline-related technical project.

MO2 Demonstrate effective management of a technical project and select appropriate knowledge sources to guide project execution and fulfil the project aims.

MO3 Complete a systematic study involving technical work, design and specification of critical components so as to enable experiments or simulations to be undertaken with success.

MO4 Analyse and evaluate experimental, simulation-based and other data arising, to complete a critical appraisal of the technical work undertaken for the project and the overall management of the investigation.

MO5 Make clear, well-argued and supported recommendations for the continuation of the further work and development of the project.

MO6 EEffectively communicate, verbally and in written format, technical understanding and recommendations achieved from the research investigation to a technical audience.

Hours to be allocated: 300

Contact hours:

Independent study/self-guided study = 286 hours

Face-to-face learning = 14 hours

Total = 300

Reading list: The reading list for this module can be accessed at readinglists.uwe.ac.uk via the following link https://uwe.rl.talis.com/modules/ubgmqp-30-3.html

Part 4: Assessment

Assessment strategy: The assessment for this module is as follows:

Progression Portfolio:
(Progress Review = meeting with the supervisor where evidence is presented)

Progress Review 1: Evidence of meeting with supervisor (and technician) to generate initial project concept including aims, objectives, scopes, research questions, ethics.

Progress Review 2: Evidence of risk assessment, project management, evaluation of methodology, references, and setting targets for the next progress review.

Progress Review 3: Evidence of work undertaken so far and addressing the targets set in the previous progress review.

Project Report / Dissertation

The report will:

Record the project and the related processes

Contain relevant background supporting evidence

Include a clear methodology, and suitable analysis and evaluation

Provide clear conclusions and recommendations for further work based on the project's outcomes

Be a maximum of 9,000 words.

Guidelines will be provided to aid project assessment, and will cover all aspects of the project investigation and management as described.

Final Viva Presentation:
The student will be have a viva around their final report.

Resit is the same as the first sit

Assessment tasks:

Portfolio (First Sit)
Description: Progression Portfolio
(Progress Review = meeting with the supervisor where evidence is presented)

Progress Review 1: Evidence of meeting with supervisor (and technician) to

generate initial project concept including aims, objectives, scopes, research questions, ethics.

Progress Review 2: Evidence of risk assessment, project management, evaluation of methodology, references, and setting targets for the next progress review.

Progress Review 3: Evidence of work undertaken so far and addressing the targets set in the previous progress review.

Weighting:

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2

Dissertation (First Sit)

Description: Final Report (max 9000 words)

Weighting: 60 %

Final assessment: No

Group work: No

Learning outcomes tested: MO3, MO4, MO5

Presentation (First Sit)

Description: Viva

Weighting: 40 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO6

Portfolio (Resit)

Description: Progression Portfolio

(Progress Review = meeting with the supervisor where evidence is presented)

Progress Review 1: Evidence of meeting with supervisor (and technician) to generate initial project concept including aims, objectives, scopes, research questions, ethics.

Progress Review 2: Evidence of risk assessment, project management, evaluation of methodology, references, and setting targets for the next progress review.

Progress Review 3: Evidence of work undertaken so far and addressing the targets set in the previous progress review.

Weighting:

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2

Dissertation (Resit)

Description: Report (1900 words)

Weighting: 60 %

Final assessment: No

Group work: No

Learning outcomes tested: MO3, MO4, MO5

Presentation (Resit)

Description: Viva.

Weighting: 40 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO6

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Civil Engineering [Sep][FT][Frenchay][4yrs] MEng 2021-22

Civil and Environmental Engineering [Sep][FT][Frenchay][3yrs] - Not Running BEng (Hons) 2021-22

Civil Engineering [Sep][FT][Frenchay][3yrs] BEng (Hons) 2021-22

Civil and Environmental Engineering [Sep][SW][Frenchay][5yrs] - Not Running MEng 2020-21

Civil and Environmental Engineering [Sep][SW][Frenchay][4yrs] - Not Running BEng (Hons) 2020-21

Civil and Environmental Engineering {Foundation} [Sep][FT][Frenchay][4yrs] - Not Running BEng (Hons) 2020-21

Civil Engineering {Foundation} [Sep][FT][Frenchay][4yrs] BEng (Hons) 2020-21

Civil Engineering [Sep][SW][Frenchay][4yrs] BEng (Hons) 2020-21

Civil Engineering [Sep][SW][Frenchay][5yrs] MEng 2020-21

Civil and Environmental Engineering [Sep][PT][Frenchay][5yrs] BEng (Hons) 2019-20

Civil and Environmental Engineering {Apprenticeship-UWE} [Sep][FT][Frenchay][5yrs] BEng (Hons) 2019-20

Civil and Environmental Engineering {Foundation} [Sep][SW][Frenchay][5yrs] BEng (Hons) 2019-20

Civil and Environmental Engineering [Sep][PT][Frenchay][7yrs] MEng 2019-20