Module Specification

Dissertation (Masters)

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Part 1: Information

Module title: Dissertation (Masters)

Module code: UFMFTF-60-M

Level: Level 7

For implementation from: 2019-20

UWE credit rating: 60

ECTS credit rating: 30

Faculty: Faculty of Environment & Technology

Department: FET Dept of Engineering Design & Mathematics

Partner institutions: None

Delivery locations: Frenchay Campus

Field: Engineering, Design and Mathematics

Module type: Standard

Pre-requisites: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: Yes

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: This is a standard module that is resourced and delivered as a project module, which includes double blind marking of student work. It is applicable to a variety of programmes. The programme director (or delegated person) will advise students on appropriate projects to ensure they relate to the relevant programme.

Features: Not applicable

Educational aims: See Learning Outcomes

Outline syllabus: The nature of the research will vary according to the subject which is being addressed. Dissertation topics should focus on some aspect(s) of technology as it is or may be applied in particular contexts, both academic and industrial. Students are encouraged to carry out research that extends their interest in the role of technology in the context of their MSc award route.

The student should carry out an investigation that tackles a practice-orientated problem and explores a range of solutions. The resultant output may include the development of a computer software package, evaluation design, learning package or exhibition materials. Any such output will be accompanied by a report that details the process of investigation and demonstrated the theoretical basis of its planning, its execution and that evaluates the proposed solution in light of the constraints identified. Where necessary, students will need to consider and plan for issues such as access to data and case study organisation, funding, cost analyses and evaluation strategies.

All students will be expected to produce a brief presentation, justifying the approach taken and the conclusions achieved.

Part 3: Teaching and learning methods

Teaching and learning methods: See Assessment

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

MO1 Analyse and critically appraise current theory, policy or practice and identify the associated practical difficulties they may face.

MO2 Set, negotiate and meet own objectives and deadlines.

MO3 Synthesise and apply theoretical understanding and practical experience to complex problems.

MO4 Justify and reflect critically on the use of a range of research and/ or evaluation strategies appropriate to exploring complex problems.

MO5 Design reliable and valid methods for gathering data and information.

MO6 Analyse data and information objectively from a range of sources and develop that knowledge to formulate solutions to a project's aims and objectives.

MO7 Reflect critically and objectively on methods, processes and outcomes, demonstrating awareness of financial and organisational constraints where appropriate.

MO8 Develop proposals or recommendations for new areas of investigation, new roblems, creative strategies or methodologies that arise from their project.

MO9 Explore and understand the issues of ethics, validity, trustworthiness and reliability in the project undertaken.

MO10 Propose an original and appropriate solution including planning for implementation to the subject area being investigated.

Hours to be allocated: 600

Contact hours:

Independent study/self-guided study = 565 hours

Face-to-face learning = 35 hours

Total = 600

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/ufmftf-60-m.html

Part 4: Assessment

Assessment strategy: There are two components to the assessment, which aim to reasonably reflect stages that students may encounter in managing projects:

Component B

Project Proposal (1200 words) includes research topic and question, research aims and objectives, early literature survey, methodology and methods of investigation, ethical considerations, expected research outcomes including students' own learning outcome as a result of research hitherto, Timescale.

A report to accompany their work (normally 12000 – 15 000 words) which will set out what they intended to accomplish, how they went about it, why they produced the output they did, an evaluation of the solutions proposed or results obtained, and a reflection upon what has been achieved.

Component A

Presentation and Viva; which is a controlled condition assessment providing students with an opportunity to reflect upon their research and explain the justified approached as well as exploring any constraints experienced and defend their conclusions.

Formative feedback is an ongoing part of this module. This may take a variety of forms:

Feedback on the project proposal.

Feedback and discussion in one to one sessions, either face to face or through some other medium such as email, telephone or the internet.

Progress reports during the project period.

Assessment components:

Presentation - Component A (First Sit)
Description: Presentation and viva
Weighting: 25 %
Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO4, MO7

Report - Component B (First Sit)

Description: Report (12000 to 15000 words)

Weighting: 67 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO3, MO4, MO5, MO6, MO7

Written Assignment - Component B (First Sit)

Description: Project Proposal (1200 words)

Weighting: 8 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO10, MO2, MO5, MO8, MO9

Presentation - Component A (Resit)

Description: Presentation and viva

Weighting: 25 %

Final assessment: Yes

Group work: No

Learning outcomes tested:

Report - Component B (Resit)

Description: Report (12000 to 15000 words)

Weighting: 75 %

Final assessment: No

Group work: No

Learning outcomes tested:

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Engineering Management [Sep][FT][Frenchay][1yr] MSc 2019-20

Engineering Management [Sep][FT][Frenchay][1yr] MSc 2019-20

Engineering Management [Feb][FT][GCET][1yr] MSc 2019-20

Mechanical Engineering [Sep][FT][Frenchay][1yr] MSc 2019-20

Professional Engineering [Sep][FT][Frenchay][1yr] MSc 2019-20

Engineering Business Management [Sep][FT][Frenchay][1yr] MSc 2019-20

Mechanical Engineering [Sep][PT][Frenchay][2yrs] MSc 2018-19

Digital Electronic Systems Engineering {Apprenticeship-UWE}
[Jan][FT][Frenchay][2yrs] MSc 2018-19