



Module Specification

Masters Thesis [TSI]

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Part 1: Information

Module title: Masters Thesis [TSI]

Module code: UFMFTY-60-M

Level: Level 7

For implementation from: 2023-24

UWE credit rating: 60

ECTS credit rating: 30

Faculty: Faculty of Environment & Technology

Department: FET Dept of Engineering Design & Mathematics

Partner institutions: Transport and Telecommunication Institute

Field: Engineering, Design and Mathematics

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: This is a standard module that is resourced and delivered as a project module, which includes double blind marking of student work. 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: The thesis takes the form of an investigation that tackles a practice-orientated problem and explores a range of solutions.

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.

Part 3: Teaching and learning methods

Teaching and learning methods: Designated members of staff will provide guidance on undertaking research including developing aims and objectives, methodology, ethical issues, writing skills.

Opportunities for one-to one interaction with members of staff, although not formally scheduled, will enable additional support for students and will consist of face-to-face meetings and/or virtual scheduled supervision sessions as appropriate.

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.

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 challenges of their implementation.

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 problems, 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 = 800 hours

Total = 800

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://rl.talis.com/3/uwe/lists/95A5B98A-F6A5-4AA9-F227-5B43CCC8B9F6.html?lang=en-GB&login=1) via the following link <https://rl.talis.com/3/uwe/lists/95A5B98A-F6A5-4AA9-F227-5B43CCC8B9F6.html?lang=en-GB&login=1>

Part 4: Assessment

Assessment strategy: Students will submit 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.

All students will be expected to produce a brief presentation and take part in a viva, justifying the approach taken and the conclusions achieved. This provides students with an opportunity to reflect upon their research and explain the justified approach as well as exploring any constraints experienced and defend their conclusions.

Assessment tasks:

Report (First Sit)

Description: Thesis and its defence (with presentation) (12000-15000 words)

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO10, MO2, MO3, MO4, MO5, MO6, MO7, MO8, MO9

Report (Resit)

Description: Thesis and its defence (with presentation) (12000-15000 words)

Weighting: 100 %

Final assessment: No

Group work: No

Learning outcomes tested:

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Aviation Management and Sustainability {Double Degree} [TSI] MSc 2022-23