



Module Specification

Research Seminar [TSI]

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Part 1: Information

Module title: Research Seminar [TSI]

Module code: UFMFNY-6-M

Level: Level 7

For implementation from: 2024-25

UWE credit rating: 6

ECTS credit rating: 3

College: College of Arts, Technology and Environment

School: CATE School of Engineering

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 module will prepare students to be able to effectively plan and manage an extensive piece of academic research that involves the use of physical and computing resources. A series of lectures and seminars will introduce topics such as effective project planning, academic literature review, ethics, data analysis, technical resources, requirements, identifying a suitable topic etc. Some of these areas will have been introduced in earlier modules and in this module will be built

upon to produce a detailed research proposal that could be used for the Master's Thesis.

Features: Not applicable

Educational aims: The aim of this module is to develop research skills and practice including the development of a feasible research proposal that could be implemented as a Master's Thesis.

Outline syllabus: This module is designed to introduce students to various approaches to research methodology in an aviation environment. It will develop the ability to formulate research proposals, select appropriate methods of analysis and prepare and demonstrate research outcomes.

Key topics covered include:

The Research Process: theory and practical implications including action and case study research, scientific document types

Ethical considerations for aviation managers undertaking research

Writing abstracts for research papers

The research proposal, research strategy and project plan

Search techniques, databases and the preparation of a literature review

Issues of reliability, validity and generalisability for researchers

Citation styles of information resources

Collection of primary data: experimental design, survey methods, sampling design and procedure

Analysis of quantitative data

Use of secondary data in the research process

Collection and analysis of qualitative data: interviewing and observation methods
Communicating results effectively: dissertation structure and presentation

Understanding plagiarism

Preparation of a research proposal.

Part 3: Teaching and learning methods

Teaching and learning methods: The module will be delivered to promote discussion and active engagement with the material. The module material will be delivered with a combination of lectures, seminars and on-line materials. The module will involve a substantial element of independent research and learning. Students will work to scope out project ideas leading to an individual detailed proposal.

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

MO1 Develop a coherent, evidenced and feasible project proposal that contains a clearly defined engineering research question that may be applicable to real world application or academic research

MO2 Develop an effective project plan, identifying risk factors and resource requirements and constraints

MO3 Identify and critically evaluate relevant literature to support the proposed research project.

MO4 Identify and evaluate ethical, societal, legal, financial and environmental issues in the context of the proposed research

Hours to be allocated: 60

Contact hours:

Independent study/self-guided study = 56 hours

Face-to-face learning = 24 hours

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://rl.talis.com/3/uwe/lists/18E4A1A3-D04A-2887-8BFE-C5C7F8512F20.html?lang=en-GB&login=1) via the following link <https://rl.talis.com/3/uwe/lists/18E4A1A3-D04A-2887-8BFE-C5C7F8512F20.html?lang=en-GB&login=1>

Part 4: Assessment

Assessment strategy: The assessment consists of a report (Research Proposal). The assessment strategy is designed to support students as they develop a detailed project proposal that identifies a clear research question, contains an initial literature review, considers ethical, resource and professional considerations, details an achievable project plan, identifies the academic knowledge and skills required for the completion of the proposed project including new knowledge that student will need to acquire and a reflection on the project development process.

Resit is the same as the first sit

Assessment tasks:

Report (First Sit)

Description: A presented report.

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

Report (Resit)

Description: A presented report.

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Aviation Management and Sustainability {Double Degree} [TSI] MSc 2024-25