



Module Specification

Aerospace Risk Management [TSI]

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Part 1: Information

Module title: Aerospace Risk Management [TSI]

Module code: UFMFPY-6-M

Level: Level 7

For implementation from: 2021-22

UWE credit rating: 6

ECTS credit rating: 3

Faculty: Faculty of Environment & Technology

Department: FET Dept of Engineering Design & Mathematics

Partner institutions: Transport and Telecommunication Institute

Delivery locations: Transport and Telecommunication Institute Latvia

Field: Engineering, Design and Mathematics

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: This module explores risk management approaches and their application to improve effectiveness of products, processes or services, in the Aerospace and Aviation industries, including consideration of business and ethical aspects.

Features: Not applicable

Educational aims: The module aims to build upon project management principles to provide an introduction to key risk principles and techniques. This module also aims to provide a holistic overview of risk management processes from concept to disposal within the aerospace and aviation industries.

Outline syllabus: The module comprises the following:

Awareness of the key principles underlying the effective management of risk to improve effectiveness of aerospace products, processes or service, including consideration of business and ethical aspects

Introduction to risk management processes from concept to disposal

An introduction to the main techniques used in identification, assessment and action, with practical application within organisations, functions and project teams

Building upon project management principles to provide an introduction to key risk principles and techniques of a systematic and holistic approach

Applying these principles and techniques to organisations, and within various functions and project teams

Developing the capability to reflect upon and evaluate the effects of their application to identify innovative improvements

Part 3: Teaching and learning methods

Teaching and learning methods: The module will include lectures to introduce and key concepts and approaches. Tutorials will explore the application of risk assessment approaches via case studies and group exercises.

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

MO1 Understand and critique key risk management principles, processes and techniques and consider why effective risk management is a vital element for success in the aerospace and aviation industry

MO2 Develop and apply appropriate risk management strategies and plans to aerospace and aviation organisations

MO3 Reflect upon the techniques and processes to aid further improvements in practical application of risk management principles.

Hours to be allocated: 60

Contact hours:

Independent study/self-guided study = 56 hours

Face-to-face learning = 24 hours

Total = 80

Reading list: The reading list for this module can be accessed at readinglists.uwe.ac.uk via the following link <https://rl.talis.com/3/uwe/lists/8D7035B2-B517-87AC-1372-66BA745A2C74.html?lang=en-GB&login=1>

Part 4: Assessment

Assessment strategy: Component A: Individual Report (2000 words)

This assessment is designed to encourage students to evaluate the theoretical concepts encountered within the module and apply them to a real-world aerospace or aviation organisation, with the aim to improve the organisations products, processes or services.

Assessment components:

Written Assignment - Component A (First Sit)

Description: Individual report (2000 words)

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3

Written Assignment - Component A (Resit)

Description: Individual report (2000 words)

Weighting: 100 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Aviation Management and Sustainability {Double Degree} [Feb][FT][TSI][2yrs] MSc
2021-22