Module Specification

Quality and Safety Management in Aviation

Version: 2022-23, v1.0, 26 Oct 2021

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Part 1: Information

Module title: Quality and Safety Management in Aviation

Module code: UFME31-6-M

Level: Level 7

For implementation from: 2022-23

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 covers concepts of Quality and Safety Management in aviation. Students will learn real-world quality and safety best practices through case study analysis. The content includes how to implement quality systems to achieve consistent quality and how to continuously improve and maintain safety within an aviation organization.

Features: Not applicable

Educational aims: The objective of this module is to provide students with knowledge, understanding and related skills of Quality and Safety Management Systems (SMS).

Outline syllabus: 1. Overview of Quality Management Systems
2. Overview of Safety Management Systems
3. Quality and safety best practices
4. Safety Management System (SMS) critical role within civil aviation
5. Tools and techniques used in quality management and SMS
6. Regulatory requirements
7. Need for a security management system
8. Quality management systems best practices
9. The critical role of the safety management system in the aviation industry system in practice

Part 3: Teaching and learning methods

Teaching and learning methods: Students will be explained the concept of Quality and Safety Management in Aviation. They will learn learn real-world quality and safety best practices through the case study analysis and a progress test.
Students will be introduced to the SMS critical role within civil aviation, tools and techniques used in quality management and SMS by exploring documents, work reports, and real-life cases.
Through the evidence from case analysis, students will take the role of a safety manager and make requirements that would secure safety and security of the given organization’s operations.
Students will investigate the historic path and a critical role of regulatory requirements by exploring official aviation bodies directives.

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

MO1 Implement, apply and monitor the compliance regulatory acts on aviation safety

MO2 Explain the objectives and basic principles of the quality management and safety management systems and how they are applied in an aviation context.

MO3 Consider and critically evaluate management decision making with an ethical lens.

MO4 outline and consider how to comply with civil protection and environmental regulatory requirements

MO5 Explain sustainable development issues and to draw evidence-based conclusions in order to tackle them.

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/AC962DB0-C68D-51D7-3BD9-F172B27FD1EF.html?lang=en-GB&login=1

Part 4: Assessment

Assessment strategy: This module assessment is split into two components (A – In-class final exam, B – In-semester assignment):

Component A – a written 2-hour closed-book test. Students are expected to demonstrate their knowledge of most important terms, as well as understanding of general concepts of SMS in aviation.

Component B – An individual written assignment.

Assessment components:

Examination - Component A (First Sit)
Description: Exam
Weighting: 60 %
Final assessment: Yes
Group work: No
Learning outcomes tested: MO1, MO2, MO3, MO4, MO5

Written Assignment - Component B (First Sit)
Description: Individual written assignment
Weighting: 40 %
Final assessment: No
Group work: No
Learning outcomes tested: MO1, MO2, MO3, MO4, MO5

Examination - Component A (Resit)
Description: Exam
Weighting: 60 %
Final assessment: No
Group work: No
Learning outcomes tested:

Written Assignment - Component B (Resit)
Description: Individual written assignment
Weighting: 40 %
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} [Feb][FT][TSI][2yrs] MSc 2021-22