



Module Specification

Sustainable Supply Chain Management and Multimodality

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Part 1: Information

Module title: Sustainable Supply Chain Management and Multimodality

Module code: UFME51-6-M

Level: Level 7

For implementation from: 2023-24

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

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: The focus of this course is on the application of theory in real business situations. The provision of practical knowledge of supply chain management and logistics in this course would enable students to discuss themes related to the course at a high level with supply chain professionals and other parties in the industry.

Features: Not applicable

Educational aims: To provide students with core knowledge of multimodal logistics and supply chain management to solve business problems. As an outcome of learning in this course, students would become familiar with applying the theory of global logistics and supply chain management in real business situations.

Outline syllabus: Overview of supply chain management.

Demand forecasting.

Network design.

Multimodal transportation and warehousing.

Third-party logistics, services, and sustainability.

Deterministic and stochastic inventory models.

Continuous and periodic inventory review.

Pricing, revenue management, and supply chain coordination.

Part 3: Teaching and learning methods

Teaching and learning methods: Learning and teaching will be provided to students in the form of lectures. Besides, practical classes will provide students with fundamental hands-on skills related to the subject. Additionally, case study analysis, business simulation games, and operations-related videos are incorporated into the learning process.

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

MO1 Knowledge in the following core subjects:

1. Supply chain theory.
2. Critical evaluation of professional practice in logistics management

in the context of the global supply chain.

3. Business forecasting in supply chain management.
4. Inventory models.
5. Trends in sustainable supply chain management.
6. Fundamentals of warehousing and transportation.
7. Pricing and revenue management in logistics.

MO2 Hands-on skills:

1. Optimization of facility location and design of transportation network.
2. Spreadsheet application for supply chain modelling.

MO3

1. Critical and systematic integration of knowledge and analysis to deal with complex global logistics, transportation, and supply chain management issues.

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](https://rl.talis.com/3/uwe/lists/48197293-0C4E-9700-00D5-07D7F61D96E6.html?lang=en-GB&login=1) via the following link <https://rl.talis.com/3/uwe/lists/48197293-0C4E-9700-00D5-07D7F61D96E6.html?lang=en-GB&login=1>

Part 4: Assessment

Assessment strategy: The assessment for this module is as follows:

Closed book exam

A portfolio (consisting of a series of in-class tests)

Resit is the same as the first sit

Assessment tasks:

Examination (First Sit)

Description: Exam

Weighting: 40 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1

Portfolio (First Sit)

Description: Portfolio of in-class test

Weighting: 60 %

Final assessment: No

Group work: No

Learning outcomes tested: MO2, MO3

Examination (Resit)

Description: Exam

Weighting: 40 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1

Portfolio (Resit)

Description: Portfolio of in-class test

Weighting: 60 %

Final assessment: No

Group work: No

Learning outcomes tested: MO2, MO3

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Aviation Management and Sustainability {Double Degree} [TSI] MSc 2023-24

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