



## **Module Specification**

### **Innovation in Operations Management**

Version: 2023-24, v2.0, 12 Jul 2023

#### **Contents**

<b>Module Specification .....</b>	<b>1</b>
<b>Part 1: Information .....</b>	<b>2</b>
<b>Part 2: Description .....</b>	<b>2</b>
<b>Part 3: Teaching and learning methods .....</b>	<b>3</b>
<b>Part 4: Assessment.....</b>	<b>5</b>
<b>Part 5: Contributes towards .....</b>	<b>8</b>

## Part 1: Information

**Module title:** Innovation in Operations Management

**Module code:** UMMC9U-15-M

**Level:** Level 7

**For implementation from:** 2023-24

**UWE credit rating:** 15

**ECTS credit rating:** 7.5

**Faculty:** Faculty of Business & Law

**Department:** FBL Dept of Business & Management

**Partner institutions:** None

**Field:** Operations and Information Management

**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:** Not applicable

**Features:** Not applicable

**Educational aims:** See Learning Outcomes.

**Outline syllabus:** The syllabus includes:

Review of key theories underpinning the module

Role of innovation in achieving a competitive and sustainable advantage through a more effective management of operations and processes in order to add greater value and better identify, understand and satisfy the needs of its customers

Definitions of the different types of innovation; Key determinants and motives of innovation

Process of innovation and the crucial role of the implementation stage which forms the heart of the innovation process in operations management

Key Business Models for innovation in operations management and the emergence of Open Innovation

Just in Time, Total Quality Management, Six Sigma and Business Process Reengineering as examples of innovation

Supply chain management: origins and key features of supply chain management and pre-requisites for its successful implementation

Lean thinking and the continuous search for improvement through greater integration of processes and customer focus

### **Part 3: Teaching and learning methods**

**Teaching and learning methods:** Teaching strategy:

Each session is designed to introduce a range of major topic areas through lectures and student-led sessions. Students will be requested to work in groups on case studies, prepare each session, carry out presentations and lead discussions. More information about the organization of the lectures, case studies discussion, the readings and the assignment will be posted on blackboard and indicated in the module handbook provided at the start of the module. In addition, the lecture slides,

the case studies and relevant academic articles will be posted on blackboard. Students will be expected to contribute using their own research and experience. Guest lectures will also be delivered to students. Students will be informed about relevant lectures and research workshops organised the Business School.

Students will need to complete the necessary and essential reading (recommended articles and chapters from the main text book), and, work for case studies and presentation. Students will be expected to put forward, rationalise, substantiate and defend their arguments.

Students should consult the Study Skills web pages which provides support and guidance in a range of areas.

In addition to discussion through emails and blackboard, students are required to meet face to face (at least twice) with the tutor to discuss the two components of their assignment (presentation and research based essay/project). Students will be asked to submit an assignment proposals. Most meeting will be scheduled on Wednesday afternoon to accommodate part time students.

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

**MO1** Evaluate the importance of innovation in adding value and delivering continuous improvement and competitive advantage

**MO2** Critically assess the complexity of innovation application in operations management, focusing particularly on the implementation stage

**MO3** Review and assess the main business models for innovation

**MO4** Review and appraise the main classes of innovation strategy aimed at better managing operations and processes and satisfying the needs of customers, assessing their impact on adding value and creating continuous improvement and competitive advantage. e.g. Total Quality Management, Just in Time, Supply Chain Management, e-Procurement, Business Process Engineering and Lean thinking

**MO5** Understand and assess the relevance of issues (enablers and inhibitors) affecting the implementation of such strategies

**MO6** Identify and critically analyse the main stages of the innovation in operations management

**MO7** Understand the importance of open innovation and learning

**MO8** Critically assess the key theories underpinning the management of innovation (eg. Learning, Resources Based Value, Social Capital, Organisation etc)

**MO9** Work and learn in groups

**MO10** Develop presentation skills

**Hours to be allocated:** 150

**Contact hours:**

Independent study/self-guided study = 114 hours

Face-to-face learning = 36 hours

Total = 150

**Reading list:** The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://readinglists.uwe.ac.uk) via the following link

<https://uwe.rl.talis.com/modules/ummc9u-15-m.html>

## **Part 4: Assessment**

**Assessment strategy:** Students will be assessed through the means of two components: a presentation (20 minutes) and a research based essay (3000 words). The presentations will start three weeks after the first lecture.

All presentations will be recorded so that they can be viewed by the 2nd Internal Examiner and the External Examiner.

Task1 Presentation

The presentation will be based on a critical review of academic publications. Students are asked to agree on a topic and a list of academic articles (at least three articles on a selected item related to the contents of the course).

The aim of this exercise is to evaluate the students' ability to identify and evaluate issues related to:

The concepts of operations management

Organisational innovation such as JIT, TQM, Lean approaches, Sixsigma, Supply chain Management

The enablers of innovation

The challenges of innovation

The national and/ or regional system of innovation

The role of creativity

The role of learning

It will also aim to evaluate the students' awareness and understanding of the theoretical debate underpinning these issues, and to develop analytical and presentation skills.

Credit will be given to well researched, critically analysed and clearly structured presentations. Credit will also be given to lively and clear delivery of the presentation.

The Presentation will account for 25% of the mark for the module.

Task 2 and Final Assessment: Research based essay

This essay is based on research and readings. Although it has an essential theoretical underpinning, you will be required to illustrate your discussion through the use of examples and case studies. It is intended to provide the student with an opportunity to conduct his/her research and to apply the appropriate concepts, frameworks and perspectives in his/her analysis of the selected topic. You will also

be required to give evidence of a critical review of relevant literature and an analysis regarding the application of the selected issue. The topic should allow a practical and theoretical deployment of the main strands of the course content. The assignment must therefore demonstrate the linkage between theoretical models and practical applications of these models. Students should ensure that their research objectives are very clearly formulated and adequately addressed throughout the whole assignment. Students are expected to go beyond a purely descriptive account of their particular area of choice and place a greater emphasis upon an analytical and critical approach.

It is very important that the title and the objectives of your assignment are discussed with the tutor. All students need to submit an assignment proposal. In addition to meetings with your tutor, progress report sessions will be organised to discuss your assignments to ensure that they are appropriate.

The research based essay will account for 75% of the mark for the module.

### **Assessment tasks:**

#### **Presentation (First Sit)**

Description: Presentation

Weighting: 25 %

Final assessment: No

Group work: No

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

#### **Written Assignment (First Sit)**

Description: Research based essay (3000 words)

Weighting: 75 %

Final assessment: Yes

Group work: No

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

**Presentation (Resit)**

Description: Presentation

Weighting: 25 %

Final assessment: No

Group work: No

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

**Written Assignment (Resit)**

Description: Research based essay (3000 words)

Weighting: 75 %

Final assessment: Yes

Group work: No

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

**Part 5: Contributes towards**

This module contributes towards the following programmes of study:

Mechanical Engineering [Sep][PT][Frenchay][7yrs] MEng 2018-19

Mechanical Engineering {Foundation} [Sep][SW][Frenchay][6yrs] MEng 2018-19

Mechanical Engineering [Sep][PT][Frenchay][2yrs] - Not Running MSc 2022-23