

# STUDY GUIDE

## *INTRODUCTION TO OPERATIONS MANAGEMENT*

Organised by

*University of Vaasa*

1. IDENTIFYING DATA.		
• <b>Course Name.</b>	Introduction to Operations Management	
• <b>Coordinating University.</b>	University of Vaasa	
• <b>Partner Universities Involved.</b>	-	
• <b>Course Field(s).</b>	Industrial Management	
• <b>Related Study Programme.</b>	Information Systems, Bachelor of Science Industrial Engineering and Management, Bachelor of Science Data Architecture, Bachelor of Science Industrial Management, Master of Science	
• <b>ISCED Code.</b>	0718	
• <b>SDG.</b>	Goal 4: Quality education Goal 8: Decent work and Growth Economy Goal 9: Industry, Innovation and Infrastructure Goal 12: Responsible Consumption and Production	
• <b>Study Level.</b>	Bachelor	
• <b>EUNICE Key Competencies</b>	Problem solving	Moderately
	Teamworking	-
	Communication	Partially
	Self-management	Strongly
	Cognitive flexibility	Moderately
	Digital competence	Partially
	Technical competence	Strongly
	Global intercultural competence	Moderately

• <b>Number of ECTS credits allocated.</b>	3
• <b>Mode of Delivery.</b>	Online asynchronous  (One kick-off session and one mid-term Q&A session will be online live; dates will be announced in Moodle)
• <b>Language of Instruction.</b>	English
• <b>Course Dates.</b>	Spring semester 2026
• <b>Precise Schedule of the Lectures.</b>	12 January 2026 – 22 February 2026
• <b>Key Words.</b>	Operations management; Process quality; Resource planning; Supply chain; Sustainable operations
• <b>Catchy Phrase.</b>	Think Like a Manager, Act Like an Engineer: Discover the Power of Operations Management.

• <b>Prerequisites and co-requisites.</b>	- English B2 - Be enrolled as a Bachelor level student at any EUNICE member university. Master's level students of other fields may be accepted. Bachelor level students have priority.
• <b>Number of EUNICE students that can attend the Course.</b>	36
• <b>Course inscription procedure(s).</b>	Enrolment via the EUNICE website

## 2. CONTACT DETAILS.

• <b>Department.</b>	School of Technology and Innovations
• <b>Name of Lecturer.</b>	Inês Peixoto
• <b>E-mail.</b>	<a href="mailto:inessimo@uwasa.fi">inessimo@uwasa.fi</a>
• <b>Other Lecturers.</b>	-

## 3. COURSE CONTENT.

The course content consists of the basics of managing operations in organizations. Topics that will be covered during the course are among others: the fundamentals of operations processes and performance, analysis and control of processes, supply chains, process quality, capacity and inventory, and resource planning and control. Each topic includes real-world examples or practical exercises, and a snapshot of how trends like sustainability and digitization may affect operations.

#### 4. LEARNING OUTCOMES.

By the end of the course students should be able to describe the elements and processes of a company's operations, and understand the key concepts, principles, and relationships between them, that support operational processes. More specifically:

1. Understanding real-world operations and their management and the concepts and principles that support them.
2. Applying key concepts and principles of operations management to the analysis of specific processes within companies and other organizations.
3. Understanding how external changes and trends can impact the operational processes of organizations.

Additionally, the course develops:

- problem-solving and decision-making (application of knowledge to problems),
- analytical and critical thinking (assessment and interpretation of knowledge), and
- ethics, responsibility and sustainability (recognizing and evaluating responsible and sustainable action).

#### 5. OBJECTIVES.

In the course, students will develop a basic understanding of real-world operations and of their importance to any kind of organization.

#### 6. COURSE ORGANISATION.

##### UNITS

- |    |   |
|----|---|
| 1. | Introducing operations management                                       |
| 2. | Process management, operations performance and process design           |
| 3. | Supply chains   |
| 4. | Resource planning and control (incl. capacity and inventory management) |
| 5. | Quality management and development of operations                        |

##### LEARNING RESOURCES AND TOOLS.

Coursebook. Additionally: Lecture slides and videos, and other materials available in the course page.

##### PLANNED LEARNING ACTIVITIES AND TEACHING METHODS.

Total student workload (81 hours) includes lecture videos, practice exercises in Moodle, independent study using the learning materials, and exam.

## 7. ASSESSMENT METHODS AND CRITERIA.

Independent study and online exam.

Grading: On a scale of 1-5, or fail (0)

### OBSERVATIONS.

Recognition-related issues:

Please contact your home university's International Relations Office if you encounter any issues related to the recognition of the ECTS at the end of the course. Lecturers are not in charge of the recognition process.

## 8. BIBLIOGRAPHY AND TEACHING MATERIALS.

Coursebook: Slack, Brandon-Jones, Burgess (2023) Essentials of Operations Management. Pearson Education.