

Prifysgol Wreccsam Wrexham University

Module specification

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Module Code	ONL716
Module Title	Project and Operations Management
Level	7
Credit value	15
Faculty	Wrexham Business School
HECoS Code	100812
Cost Code	GABP
Pre-requisite module	NA

Programmes in which module to be offered

Programme title	Core/Optional/Standalone
MBA Project Management (Online)	Core

Breakdown of module hours

Learning and teaching hours	15 hrs
Placement tutor support hours	0 hrs
Supervised learning hours e.g. practical classes, workshops	0 hrs
Project supervision hours	0 hrs
Active learning and teaching hours total	15 hrs
Placement hours	0 hrs
Guided independent study hours	135 hrs
Module duration (Total hours)	150 hrs

Module aims

This module aims to develop students' understanding and knowledge on how to manage production processes, how firms achieve a competitive advantage through improving the processes involved in delivering superior products and services and by increasing efficiencies.

Module Learning Outcomes

At the end of this module, students will be able to:

1	Critically appraise the key production functions of an organisation such as operations management, operations performance and operations strategy.
2	Evaluate appropriate production and inventory processes for effectiveness and efficiency.
3	Critically review sustainable project and supply chain techniques to manage risk and recovery for successful operations.

Assessment

Indicative Assessment Tasks:

This section outlines the type of assessment task the student will be expected to complete as part of the module. More details will be made available in the relevant academic year module handbook.

You must present critical discussion and analysis of academic theory and literature to successfully meet the learning outcomes.

Formative assessment for this module may include:

End of lesson questions or quizzes, to check knowledge at the end of each unit and module, feedback on subject discussion forums, sharing experiences in groups, self and peer assessment and one-minute papers, to demonstrate understanding and progress of subject knowledge, and improve learning.

Assessment 1: Written Essay

Present a critical overview of the main production functions of an organisation such as operations management, operations performance and operations strategy. Use theory, frameworks or models to reinforce your work.

Assessment 2: Portfolio

This assessment is in two parts:

Part 1 – academic poster

Drawing on your work from assessment 1, present an academic poster on an evaluation of production processes and inventory processes and their components – applying a theoretical framework to each.

Part 2 – Written Report

Using your academic poster as a framework, critically discuss supply chain integration via a detailed evaluation matrix. Consider what tools – including analytics and AI - you would utilise to manage this, and how they would drive effectiveness and efficiency. Evaluate your findings against a relevant sustainability model. Incorporate risk factors – including ethical and legal objectives. Present your findings in the form of a critical analysis.

Assessment number	Learning Outcomes to be met	Type of assessment	Duration/Word Count	Weighting (%)	Alternative assessment, if applicable
1	1	Written Assignment	800	40%	N/A
2	2, 3	Portfolio	1,200	60%	N/A

Derogations

None

Learning and Teaching Strategies

The overall learning and teaching strategy is one of guided independent study, in the form of distance learning requiring ongoing student engagement. On-line material will provide the foundation of the learning resources, to support a blended approach, requiring the students to log-in and engage on a regular basis throughout the six-week period of the module.

There will be a mix of recorded lectures and supporting notes/slides, containing embedded digital content and self-checks for students to complete as they work through the material and undertake the assessment tasks. The use of a range digital tools via the virtual learning environment together with additional sources of reading will also be utilised to accommodate learning styles. There is access to a help-line for additional support and chat facilities through Canvas for messaging and responding.

Welsh Elements

Every student has the right to submit written work or examinations in Welsh. All Welsh speaking students have the right to a Welsh speaking tutor. Elements of the Welsh language and culture will be embedded throughout the module where possible.

Indicative Syllabus Outline

Introduction to operations management
Forecasting & analytics
Risk management
Procurement and quality
Logistics management
Understanding supply chain operations
Supply chain management sustainability
Technology and data analytics

Indicative Bibliography

Please note the essential reads and other indicative reading are subject to annual review and update.

Essential Reads:

Simin Dargahi Darabad, Maryam Izadbakhsh, Seyed Farid Ghannadpour, Siamak Noori and Mohammad Mahdavi mazdeh (2024), 'A New Bi-Objective Green Construction Model for Multi Project Supply Chain Management Under Uncertainty', *International Journal of Industrial Engineering & Production Research*, Vol.35, No.1, pp. 58–73. DOI: 10.22068/ijiepr.35.1.1813.

Slack, N. et al (2022). *Operations Management*, 10th ed. Pearson Education Limited.

Waqar, A., Houda, M., Ahsan, M. and Nisar, S. (2025), 'Enhancing Project Performance through Sustainable Supply Chain Management: A Comprehensive Analysis of Residential Construction Practices', *Environmental Challenges (Amsterdam, Netherlands)*, Vol.18, pp. 101075. DOI: 10.1016/j.envc.2024.101075.

Other indicative reading:

Wei, X., Prybutok, V. and Sauser, B. (2021), 'Review of Supply Chain Management within Project Management', *Project Leadership and Society*, Vol.2, pp. 100013–12. DOI: 10.1016/j.plas.2021.100013.

Administrative Information

For office use only	
Initial approval date	12/07/2019
With effect from date	23/09/2019
Date and details of revision	01/2026 Modification to assessment strategy and updated to module aims, syllabus and bibliography.
Version number	2