

Module Title:	Operations Management for Business
Credits:	5
NFQ Level:	7
Module Delivered In	5 programme(s)
Teaching & Learning Strategies:	Lectures - communication and discussion of knowledge, ideas and skills. Problem Solving Exercises - student will work individually and/or as part of a team, to resolve relevant operations management problems. E-Learning - It is envisaged that the module will be supported with on-line learning materials. Self-Direct Independent Learning - the emphasis on independent learning will develop a strong and autonomous work and learning practices.
Module Aim:	The aim of this module is to give students an understanding of role of the operations function within an organization and the outward impact operations has on all aspects of the business. The module will introduce the elements and some of the practices that comprise the field of Operations Management and the quantitative tools used in this field to aid decision making.
Learning Outcomes	
<i>On successful completion of this module the learner should be able to:</i>	
LO1	Explain key terms, concepts and practices in the area of operations management.
LO2	Examine processes and quantitative tools that are used to aid decision making in the area of operations management.
LO3	Apply appropriate processes and quantitative tools to defined and undefined practical operations management problems.
LO4	Analyse the outcome of the application of quantitative tools to operations management scenarios in terms of implications and limitations.
Pre-requisite learning	
Module Recommendations <i>This is prior learning (or a practical skill) that is recommended before enrolment in this module.</i>	
No recommendations listed	
Incompatible Modules <i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module.</i>	
No incompatible modules listed	
Co-requisite Modules	
No Co-requisite modules listed	
Requirements <i>This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.</i>	
Quantitative Techniques Business Mathematics Management Business Applications	

Module Content & Assessment

Indicative Content

Introduction to Operations

What is Operations Management? Operations function as a transformation process in Manufacturing and Service Organisations; Operations Management Decisions; Operations Management in Practice today: E - Business, Ethics and Sustainability.

Productivity and Capacity Management

Measuring Productivity and capacity; Reconciling capacity and demand; Evaluating capacity alternatives using Decision criteria, Expected Values, Decision Trees.

Forecasting

The Importance and Role of Forecasting; Quantitative and Qualitative Forecasting methods. Time Series Forecasting: Moving Averages and Exponential Smoothing. Casual Forecasting: Regression and Correlation Analysis. Measuring Forecasting Errors Collaborative Forecasting, Planning and Replenishment (CFPR)

Independent Demand Inventory Management

Types of Inventory; Relevant inventory costs; Determining Order Quantities: EOQ, Quantity Discount Model, Determining safety stock, Periodic Review System. ABC inventory classification

Quality Management and Improvement

Quality Defined, Quality Dimensions, Costs of Quality, Total Quality Management, Six Sigma, Quality Tools: Their application in identifying quality issues and measuring quality characteristics.

Just in Time/Lean Operations

The philosophy of JIT. Elements of JIT. Just in Time Manufacturing. The pull system.. Kanban production. Variations on Kanban Production. Total Quality Management. Respect for people. Benefits of JIT. JIT in services.

Scheduling

Scheduling jobs using priority rules, measuring and comparing performance of priority rule schedules. Scheduling bottlenecks. Workforce scheduling

Assessment Breakdown	%
Continuous Assessment	40.00%
End of Module Formal Examination	60.00%

Continuous Assessment

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Other	Written assignment	1,2,3,4	20.00	Week 9
Other	Class Test	1,2,3,4	20.00	Week 4

No Project

No Practical

End of Module Formal Examination

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	End-of-Semester Final Examination	1,2,3,4	60.00	End-of-Semester

SETU Carlow Campus reserves the right to alter the nature and timings of assessment

Module Workload

Workload: Full Time		
<i>Workload Type</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	Every Week	3.00
Independent Learning	Every Week	6.00
Total Hours		9.00

Workload: Part Time		
<i>Workload Type</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	Every Week	1.50
Independent Learning Time	Every Week	7.50
Total Hours		9.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_BBACF_B	Bachelor of Business (Honours) in Accounting and Finance	5	Elective
CW_BBHRM_B	Bachelor of Business (Honours) in Human Resource Management	5	Elective
CW_BBBBM_B	Bachelor of Business (Honours) in Management	5	Mandatory
CW_BBBUS_D	Bachelor of Business in Business	5	Mandatory
CW_BBHRM_D	Bachelor of Business in Human Resource Management	5	Elective