

MGMT: Operations Management

Module Title:			Operations Management		
Language of Instruction:		n:	English		
Credits: 5		5			
NFQ Level: 8		8			
			1		
Module Deli	vered In		3 programme(s)		
Teaching & Learning Strategies:			Students will perform as actors in various demonstrations of operations management techniques. Classe will take place in a laboratory environment to allow experiments and computational numerical analysis to take place.		
Module Aim:			The aim of this course is to provide students with an understanding and justification of operations management techniques as well as practical computing techniques that are used to design, analyse and improve operational systems within organisations.		
Learning Ou	itcomes				
On successf	ul completic	n of th	his module the learner should be able to:		
LO1	Analyse p	alyse project schedules with the use of Project Diagrams and the Critical Path Method (CPM).			
LO2	Demonstrate the use of Operations Management techniques in quality systems, supply and demand shaping, facility loc and layout to increase the operational efficiency of organisations				
LO3 Appreciate the to control technique			enefits and effects of introducing Lean Operations in a supply chain and its relationship with other production		
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Pre-requisite learning					
Module Recommendations This is prior learning (or a practical skill) that is recommended before enrolment in this module.					
No recommendations listed					
<i>Incompatible Modules</i> These are modules which have learning outcomes that are too similar to the learning outcomes of this module.					
No incompatible modules listed					
Co-requisite Modules					
No Co-requisite modules listed					
Requirements This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.					
No requirements listed					



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Module Content & Assessment

Indicative Content

Techniques for Project Management

Gantt charts, Project Network Diagrams, Critical Path Method, Activity crashing and resource constraints, Project Management Software

Quality Management

Defining quality. Designing quality. Taguchi methods. Quality Function Deployment. Measuring quality. Service Process Control Statistical Process Control TQM: Quality Systems, implementing quality systems in spreadsheets

Managing Capacity and Demand Capacity management, Queuing models – queuing simulation, Managing demand, Managing supply, Yield management, Spreadsheet techniques for yield management, Facility Location Methods, Facility Layout – Operations Sequence Analysis, Using spreadsheet techniques for demand/capacity planning,

Lean Operations

The origins of lean production: buffers, push control, over, production; Categories of waste, The 5 S's of the lean philosophy, Pull control vs push control, Production line balancing techniques, Qualitative and quantitative forecasting methods,

Assessment Breakdown	%
Continuous Assessment	100.00%

Continuous Assessment							
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date			
Other	Assignment 1: A given assignment that assesses numerical techniques as well the theory aspects of Lean Operations, Project Management and Facility Location and Layout	1,3	50.00	n/a			
Practical/Skills Evaluation	Assessment 2: An in class computer practical assessment that assesses numerical techniques as well the theory aspects of Project Management, Capacity Management and Quality Management	1,2	50.00	n/a			
No Project							

No Practical

No End of Module Formal Examination

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



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Module Workload

Workload: Full Time		
Workload Type	Frequency	Average Weekly Learner Workload
Practicals	12 Weeks per Stage	3.00
Independent Learning		6.00
	Total Hours	126.00
Workload: Part Time		
Workload Type	Frequency	Average Weekly Learner Workload
Practicals	12 Weeks per Stage	1.50
Independent Learning	15 Weeks per Stage	4.00
	Total Hours	78.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_BWBUS_B	Bachelor of Business (Honours) Options: in Business or Digital Marketing	5	Group Elective 3
CW_BWBUS_B	Bachelor of Business (Honours) Options: in Business or Digital Marketing	7	Mandatory
CW_BWBUS_D	Bachelor of Business Options: Business or Digital Marketing	5	Group Elective 3