



MODULE SPECIFICATION

Part 1: Information			
Module Title	Process Design and Management		
Module Code	UFMFJM-15-M	Level	Level 7
For implementation from	2018-19		
UWE Credit Rating	15	ECTS Credit Rating	7.5
Faculty	Faculty of Environment & Technology	Field	Engineering, Design and Mathematics
Department	FET Dept of Engin Design & Mathematics		
Contributes towards	Engineering Business Management [Sep][FT][Frenchay][1yr] MSc 2018-19		
Module type:	Project		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description	
<p>Educational Aims: The aim of this module is to provide students with concepts, techniques and tools to design, analyse and improve operational processes in both manufacturing and service organisations. The module also enables students to develop practical knowledge and skills. Topics include, but not limited to:</p> <p>Forecasting,</p> <p>Process design and analysis,</p> <p>Capacity management,</p> <p>Inventory management,</p> <p>Resource planning and control.</p>	

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Outline Syllabus: Students will be presented with real-life service and manufacturing examples and case studies relating real or realistic situations that require analysis, decision, or both. These provide the opportunity to students to test out their understanding of the principles covered.

This module will prepare students to understand:

The main approaches and techniques of forecasting,

The tools of process design and analysis, and the different ways of process layouts,

The different strategies of managing the demand-capacity mismatches,

The importance of effectively controlling the inventory and the basic inventory models,

The technical issues of managing the core resource planning and control activities to ensure that the resources flow smoothly through processes.

Teaching and Learning Methods: See assessment strategy.

Part 3: Assessment

The assessment for this module involves a real-world case study concerning the management of processes and resources that are used to deliver either a good or service product to the customer.

Students are expected to work on an individual report of 2500 words in length to evaluate the theoretical concepts encountered within the module and apply them to a real-world problem.

The referred assignment will involve a reworking of the original report based on the feedback received from the initial submission. The length of the report is 2500 words.

First Sit Components	Final Assessment	Element weighting	Description
Report - Component A	✓	100 %	Individual report (2500 words)
Resit Components	Final Assessment	Element weighting	Description
Report - Component A	✓	100 %	Individual report (2500 words)

Part 4: Teaching and Learning Methods

Learning Outcomes	On successful completion of this module students will be able to:	
		Module Learning Outcomes
	MO1	Demonstrate detailed knowledge of the tasks, issues and decisions that are necessary to manage processes and resources effectively
	MO2	Develop a critical understanding of the nature of demand and capacity fluctuations, and the strategies of managing the potential demand-capacity mismatches
	MO3	Evaluate the roles of inventories and basics of managing inventories in various demand settings

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	MO4	Evaluate the relationship of the various planning practices of capacity planning, aggregate planning, materials requirements planning and scheduling
	MO5	Apply analytical skills and problem-solving techniques for decision making in the management of processes
Contact Hours	Contact Hours	
	Independent Study Hours:	
	Independent study/self-guided study	115
	Total Independent Study Hours:	115
	Scheduled Learning and Teaching Hours:	
	Face-to-face learning	35
	Total Scheduled Learning and Teaching Hours:	35
	Hours to be allocated	150
	Allocated Hours	150
Reading List	<p>The reading list for this module can be accessed via the following link: https://uwe.rl.talis.com/modules/ufmfjm-15-m.html</p>	