

MODULE SPECIFICATION

Part 1: Information						
Module Title	Principles of Lean Engineering					
Module Code	UFMEE8-15-M		Level	Level 7		
For implementation from	2019-20					
UWE Credit Rating	15		ECTS Credit Rating	7.5		
Faculty	Faculty of Environment & Technology		Field	Engineering, Design and Mathematics		
Department	FET [FET Dept of Engin Design & Mathematics				
Module type:	Proje	Project				
Pre-requisites		None				
Excluded Combinations		None				
Co- requisites		None				
Module Entry requirements		None				

Part 2: Description

Overview: This module introduces the principles of lean manufacturing and engineering and the significance of the philosophies, principles, systems and tools in enhancing the effectiveness and profitability of manufacturing and service operations

Educational Aims: See Learning outcomes

Outline Syllabus: The module provides an overview of lean engineering and its tools and techniques in enabling supporting business improvement and the importance of strategy and the role of leaders in enabling lean practices that drive a culture of continuous improvement.

The need for a coordinated, structured and scientific approach in adopting and implementing lean into an organisation and the challenges and benefits of implementing lean and lean engineering into an organisation and across its enterprise (beyond just manufacturing) area is also integral to the module outcomes.

Teaching and Learning Methods: See Contact Hours.

Part 3: Assessment

Students complete an individual case study assignment that requires demonstration of independent learning of theory and critical reflection of their work both in the classroom and during the assignment period outside the classroom resulting in a written report of 3000 words.

The referred assignment will involve a reworking of the 1st sit case study.

First Sit Components	Final Assessment	Element weighting	Description
Report - Component A	✓	100 %	Report (3000 words)
Resit Components	Final Assessment	Element weighting	Description
Report - Component A	✓	100 %	Report (3000 words)

Part 4: Teaching and Learning Methods						
Learning Outcomes	On successful completion of this module students will achieve the following learning outcomes:					
	Module Learning Outcomes		Reference			
	Critically evaluate and synthesise professionally relevant information regarding the significance of lean philosophies, principles, systems and tools in enhancing the effectiveness and profitability of manufacturing and service operations					
	Creatively and critically reflect upon the need for leading with lean pri engaging people through systems and applying tools to solve busines and eliminate waste	nciples,	MO2			
	Demonstrate through evaluation the need for a coordinated, structured and scientific approach in adopting and implementing lean engineering into an organisation					
	Explain the importance of strategy and the role of leaders in enabling practices that drive a culture of continuous improvement and apply the		MO4			
Contact Hours	Independent Study Hours:					
	Independent study/self-guided study 114					
	Total Independent Study Hours: 11					
	Scheduled Learning and Teaching Hours:					
	Face-to-face learning 36					
	Total Scheduled Learning and Teaching Hours: 36					

STUDENT AND ACADEMIC SERVICES

	Hours to be allocated	150		
	Allocated Hours	150		
Reading List	The reading list for this module can be accessed via the following link:			
	https://uwe.rl.talis.com/modules/UFMEE8-15-M.html			

Part 5: Contributes Towards

This module contributes towards the following programmes of study:

Engineering Business Management [Sep][PT][Frenchay][2yrs] MSc 2019-20

Engineering Competence [Jan][PT][FR][2yrs] PGDip 2018-19