MODULE SPECIFICATION

Part 1: Information			
Module Title	Principles of Lean Engineering		
Module Code	UFMEE8-15-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 Competence [Jan][PT][FR][2yrs] PGDip 2018-19 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
Overview: 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. **Features**: The module is intended for science and engineering graduates, or equivalent, engaged in professions who require a comprehensive understanding of manufacturing in the Aerospace and related sectors. **Educational Aims:** 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.

Outline Syllabus: 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.

Teaching and Learning Methods: This module is taught in a single week. The block-week delivery will contain a mixture of lectures and reflective workshops where students work in preparation towards being able to complete the case study assignment.

Part 3: Assessment

The assignment will require demonstration of independent learning of theory and critical reflection of their work both in the classroom and during the assignment period outside the classroom and will result in a written report of 3000 words.

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 be able to:

	Module Learning Outcomes
MO1	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
MO2	Creatively and critically reflect upon the need for leading with lean principles, engaging people through systems and applying tools to solve business problems and eliminate waste
MO3	Demonstrate through evaluation the need for a coordinated, structured and scientific approach in adopting and implementing lean into an organisation.
MO4	Understand the importance of strategy and the role of leaders in enabling lean practices that drive a culture of continuous improvement and apply this in context.

Contact Hours

Contact Hours	
Independent Study Hours:	
Independent study/self-guided study	114

	Total Independent Study Hours:	114
	Scheduled Learning and Teaching Hours:	
	Face-to-face learning	36
	Total Scheduled Learning and Teaching Hours:	36
	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	