STUDENT AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Information			
Module Title	Requirements Engineering		
Module Code	UFMFVH-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 Professional Engineering [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
Educational Aims: See Learning Outcomes

Outline Syllabus: This module examines the contribution that knowledge of requirements makes to the production of systems. It considers a variety of different approaches to the requirements development process and considers their strengths and weaknesses. Topics covered:

Rationale for requirements.

What is a requirement?

Stakeholders.

Examples of good and bad practice. |

Placing requirements within the context of Systems Engineering:

What is Requirements Engineering?

Component parts of the Requirements Engineering process.

Characteristics of requirements.

Types of requirements.

Non-functional requirements.

Prioritising requirements.

Validating requirements.

Managing requirements.

Requirements Engineering tools.

Teaching and Learning Methods: Scheduled Learning
There is an intensive block delivery of lectures, demonstrations and syndicated exercises. These are scheduled so that the lecture material is reinforced by practical exercises.

Independent Learning
It is important that learning is guided by the tutors to maintain students' focus during the course. However, following the course,
independent learning is required to produce an assessed report.

Access and skills
All students will be directed and given guidance on how to make full use of the print and electronic resources available to them through membership of the university. This includes journals and resources available through web sites and information gateways, and relevant information from the Library's resources. Students will be encouraged to develop their information retrieval and evaluation skills, to enable them to effectively identify appropriate resources.

Blackboard
This module is supported by Blackboard, where students are directed to find all necessary module documentation and include guidance on further reading. Where appropriate, direct links to information resources will also be provided from within Blackboard.

Essential reading
Other required reading is provided via Blackboard or directly from the library, or the students' own company libraries.

Further Reading
Further Reading is required as part of the students' assignment activity, to ensure they are familiar with current research, current industry practice and materials specific to the subject chosen. Students will be guided towards relevant reading materials, but are also expected to employ their own initiative and discretion when selecting appropriate material. Examples include relevant journals, company documents – such as technical reports and quality processes, as well as relevant.

Part 3: Assessment	
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The assessment will cover the critical aspects of Requirements and their context within the engineering environment.

The report will be assessed based on the student demonstrating the Learning Outcomes. The nature of the assessment will be a significant piece of individual work undertaken after the taught part of the module to allow the synthesis and evaluation of taught material in the individual's particular work context.

As a focused, intensive block delivery, the assessment aims to determine the student's ability to implement and reflect upon the skills learnt. The assessed report is to be submitted after approximately 8 weeks from the workshop.

The assessment requires demonstration of independent learning of theory and critical reflection of the student's work, both in the classroom and especially during the assignment period outside the classroom. Students are expected to be able to show through the reflective element how they have achieved the module's learning outcomes.

A mix of general and individual written feedback will be provided. The report is normally expected to be between 4000 and 5000 words in length.

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

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 Requirements Engineering concepts and techniques which form the basis for the practice and development of Requirements Engineering.
MO2	Analyse and critique theoretical perspectives underlying the discipline that distinguish it from other disciplines.
MO3	Demonstrate an ability to use the wider literature, to identify different approaches to requirements engineering processes.
MO4	Critically evaluate the characteristics of requirements, to demonstrate the ability to select and implement appropriate concepts and techniques for requirements development and problem solving.

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	*The reading list for this module can be accessed via the following link:* https://uwe.rl.talis.com/modules/UFMFVH-15-M.html