



MODULE SPECIFICATION

Part 1: Information			
Module Title	Requirements Engineering		
Module Code	UFCFM6-15-3	Level	Level 6
For implementation from	2019-20		
UWE Credit Rating	15	ECTS Credit Rating	7.5
Faculty	Faculty of Environment & Technology	Field	Computer Science and Creative Technologies
Department	FET Dept of Computer Sci & Creative Tech		
Module type:	Standard		
Pre-requisites	Software Engineering 2019-20		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
<p>Overview: Pre-requisites EITHER: UFCFB6-30-2 Object-Oriented Systems Development 2 OR: UFCFK6-30-2 Software Engineering</p> <p>Educational Aims: See learning outcomes.</p> <p>Outline Syllabus: Generic requirements engineering method and concepts:</p> <ul style="list-style-type: none"> Role of requirements engineering in software engineering Elicitation Analysis Documentation Validation Stakeholder Served and serving systems

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Traditional requirements engineering methods and notations:

Goal-oriented

Organisational analysis

Ethnography

Contextual design

Use cases

Contemporary requirements engineering methods

Agile

Construction by configuration

Teaching and Learning Methods: Scheduled learning

Lectures will introduce students to the key concepts and methods of requirements engineering. In addition, lectures will provide opportunities to practice the introduced methods using, for example, case studies, and/or to tackle problems based upon the introduced concepts.

To assess formative learning and to improve learning, each lecture will end with a short set of questions which students will answer using “clicker”-based technology. The results, viewed on the screen, will be used to drive short discussions and to provide further advice to the cohort.

Seminars will be used either to deepen and/or extend knowledge of concepts, for example by working through a case study either individually or in small groups, or to practice applying a method, or to practice creating different kinds of models, or to practice interpreting different kinds of models.

Independent learning

Students will be expected to undertake directed reading, practice applying methods to case studies and tackle conceptual problems outside of scheduled lecture and seminar times. In addition, they will be expected to undertake self-directed reading outside of the lectures and seminars.

Part 3: Assessment

Learning outcomes 1 to 4 involve mainly high level cognitive abilities (describe, explain, choose, compare, and appraise). Using a written examination is the best way to assess these outcomes.

On the other hand, learning outcome 5 involves the practical skill of doing independent research; and using a coursework assignment is the best way to assess the attainment of this skill.

The examination will be two hours long; the assignment will be a 1,000 word essay.

First Sit Components	Final Assessment	Element weighting	Description
Written Assignment - Component B		25 %	Essay (1,000 words)
Examination - Component A	✓	75 %	Examination (2 hours)

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Part 4: Teaching and Learning Methods																	
Learning Outcomes	<p>On successful completion of this module students will achieve the following learning outcomes:</p> <table border="1"> <thead> <tr> <th>Module Learning Outcomes</th> <th>Reference</th> </tr> </thead> <tbody> <tr> <td>Describe and explain the generic requirements engineering method</td> <td>MO1</td> </tr> <tr> <td>Choose appropriate contemporary requirements engineering methods to apply to each of a range of domain problem contexts; and apply them</td> <td>MO2</td> </tr> <tr> <td>Compare competing contemporary requirements engineering methods</td> <td>MO3</td> </tr> <tr> <td>Critically appraise the contribution to requirements engineering of selected research results</td> <td>MO4</td> </tr> <tr> <td>Research the literature in order to address questions on requirements engineering concepts, methods and notations</td> <td>MO5</td> </tr> </tbody> </table>	Module Learning Outcomes	Reference	Describe and explain the generic requirements engineering method	MO1	Choose appropriate contemporary requirements engineering methods to apply to each of a range of domain problem contexts; and apply them	MO2	Compare competing contemporary requirements engineering methods	MO3	Critically appraise the contribution to requirements engineering of selected research results	MO4	Research the literature in order to address questions on requirements engineering concepts, methods and notations	MO5				
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Reading List	<p>The reading list for this module can be accessed via the following link:</p> <p>https://uwe.rl.talis.com/modules/ufcfm6-15-3.html</p>																

Part 5: Contributes Towards
This module contributes towards the following programmes of study: