



Module Specification

Requirements Engineering

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Contents

Module Specification	1
Part 1: Information	2
Part 2: Description	2
Part 3: Teaching and learning methods	4
Part 4: Assessment.....	5
Part 5: Contributes towards	6

Part 1: Information

Module title: Requirements Engineering

Module code: UFCFM6-15-3

Level: Level 6

For implementation from: 2023-24

UWE credit rating: 15

ECTS credit rating: 7.5

Faculty: Faculty of Environment & Technology

Department: FET Dept of Computer Sci & Creative Tech

Partner institutions: None

Delivery locations: Not in use for Modules

Field: Computer Science and Creative Technologies

Module type: Module

Pre-requisites: Software Engineering 2023-24

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: Pre-requisites EITHER: UFCFB6-30-2 Object-Oriented Systems Development 2 OR: UFCFK6-30-2 Software Engineering

Features: Not applicable

Educational aims: See learning outcomes.

Outline syllabus: Generic requirements engineering method and concepts:

Role of requirements engineering in software engineering

Elicitation

Analysis

Documentation

Validation

Stakeholder

Served and serving systems

Traditional requirements engineering methods and notations:

Goal-oriented

Organisational analysis

Ethnography

Contextual design

Use cases

Contemporary requirements engineering methods

Agile

Construction by configuration

Part 3: Teaching and learning methods

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.

Module Learning outcomes: On successful completion of this module students will achieve the following learning outcomes.

MO1 Describe and explain the generic requirements engineering method

MO2 Choose appropriate contemporary requirements engineering methods to apply to each of a range of domain problem contexts; and apply them

MO3 Compare competing contemporary requirements engineering methods

MO4 Critically appraise the contribution to requirements engineering of selected research results

MO5 Research the literature in order to address questions on requirements engineering concepts, methods and notations

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 114 hours

Face-to-face learning = 36 hours

Total = 150

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/ufcfm6-15-3.html) via the following link <https://uwe.rl.talis.com/modules/ufcfm6-15-3.html>

Part 4: Assessment

Assessment strategy: 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.

Assessment components:

Examination (Online) (First Sit)

Description: Examination (2 hours) 24-hour window

Weighting: 75 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

Written Assignment (First Sit)

Description: Essay (1,000 words)

Weighting: 25 %

Final assessment: No

Group work: No

Learning outcomes tested: MO5

Examination (Online) (Resit)

Description: Examination (2 hours) 24-hour window

Weighting: 75 %

Final assessment: Yes

Group work: No

Learning outcomes tested:

Written Assignment (Resit)

Description: Essay (1,000 words)

Weighting: 25 %

Final assessment: No

Group work: No

Learning outcomes tested:

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Software Engineering [Sep][FT][Frenchay][3yrs] - Not Running BSc (Hons) 2021-22

Computing {Dual} [Aug][FT][Taylors][3yrs] - Not Running BSc (Hons) 2021-22

Computing {Dual} [Mar][FT][Taylors][3yrs] - Not Running BSc (Hons) 2021-22

Computing [Sep][FT][Frenchay][3yrs] - Not Running BSc (Hons) 2021-22

Software Engineering {Dual} [Aug][FT][Taylors][3yrs] BSc (Hons) 2021-22

Software Engineering {Dual} [Mar][FT][Taylors][3yrs] BSc (Hons) 2021-22

Software Engineering [Jan][FT][Northshore][3yrs] - Not Running BSc (Hons) 2021-22

Computing [Sep][SW][Frenchay][4yrs] BSc (Hons) 2020-21

Computing {Dual} [Aug][SW][Taylors][4yrs] BSc (Hons) 2020-21

Computing {Dual} [Mar][SW][Taylors][4yrs] BSc (Hons) 2020-21

Computing {Foundation} [Sep][FT][Frenchay][4yrs] - Not Running BSc (Hons) 2020-21

Software Engineering [Sep][SW][Frenchay][4yrs] - Not Running BSc (Hons) 2020-21

Computing {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2019-20

Business Computing [Sep][FT][Frenchay][3yrs] BSc (Hons) 2021-22

Computer Science [Sep][FT][Villa][3yrs] - Not Running BSc (Hons) 2021-22

Computer Science [May][FT][Villa][3yrs] - Not Running BSc (Hons) 2021-22

Computer Science [Jan][FT][Villa][3yrs] - Not Running BSc (Hons) 2021-22

Software Engineering for Business [Sep][FT][Frenchay][3yrs] BSc (Hons) 2021-22

Cyber Security and Digital Forensics [Sep][FT][Frenchay][3yrs] BSc (Hons) 2021-22

Cyber Security and Digital Forensics [Jan][FT][NepalBrit][3yrs] BSc (Hons) 2021-22

Forensic Computing and Security {Dual} [Mar][FT][Taylors][3yrs] - Not Running BSc (Hons) 2021-22

Forensic Computing and Security {Dual} [Aug][FT][Taylors][3yrs] - Not Running BSc (Hons) 2021-22

Computer Security and Forensics {Foundation} [Feb][FT][GCET][4yrs] BSc (Hons) 2020-21

Computer Security and Forensics {Foundation} [Oct][FT][GCET][4yrs] BSc (Hons) 2020-21

Software Engineering for Business {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2020-21

Computer Science {Foundation} [Sep][FT][Frenchay][4yrs] - Not Running BSc (Hons) 2020-21

Computer Science [Sep][SW][Frenchay][4yrs] - Not Running BSc (Hons) 2020-21

Forensic Computing and Security {Foundation} [Sep][FT][Frenchay][4yrs] - Not Running BSc (Hons) 2020-21

Forensic Computing and Security [Sep][SW][Frenchay][4yrs] - Not Running BSc (Hons) 2020-21

Cyber Security and Digital Forensics [Sep][SW][Frenchay][4yrs] BSc (Hons) 2020-21

Cyber Security and Digital Forensics {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2020-21

Business Computing {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2020-21

Software Engineering {Foundation} [Feb][FT][GCET][4yrs] BEng (Hons) 2020-21

Software Engineering {Foundation} [Oct][FT][GCET][4yrs] BEng (Hons) 2020-21

Computer Science {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2019-20

Forensic Computing and Security {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2019-20