



Module Specification

IT Project and Requirements Management [TSI]

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Part 1: Information

Module title: IT Project and Requirements Management [TSI]

Module code: UFCE61-18-M

Level: Level 7

For implementation from: 2021-22

UWE credit rating: 18

ECTS credit rating: 9

Faculty: Faculty of Environment & Technology

Department: FET Dept of Computer Sci & Creative Tech

Partner institutions: Transport and Telecommunication Institute

Delivery locations: Transport and Telecommunication Institute Latvia

Field: Computer Science and Creative Technologies

Module type: Standard

Pre-requisites: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: This module will help students the necessary knowledge, skills, and competencies to manage IT projects effectively.

Features: Not applicable

Educational aims: Students will develop skills in the requirements management processes (establishing, defining, modelling, evaluating, and tracing various

requirement types.) as well as overseeing work, cost, time, quality and the overall satisfaction of stakeholders.

Outline syllabus: Project Management Concept. Project management processes and knowledge areas. Review.

Project Management and Information Technology Context

IT Project Integration management

IT project scope management: collecting project requirements, defining the scope, creating WBS, verifying and controlling the scope

IT project time management

Project scheduling and resource allocation

IT project cost management; project progress control

IT project quality management

Risk identification and analysis

IT Project human resource and communication management

Introduction into Requirements Engineering and Management

Requirements from the stakeholders' perspective

Good Practices for Requirements Engineering

Establishing the Business Requirements

Requirements' Elicitation techniques

Requirements modelling

Requirements analysis, verification, and validation techniques

Requirements Management Practices

Requirements Change Management

Tracing Requirements

Part 3: Teaching and learning methods

Teaching and learning methods: Learning and teaching will be provided to students in two forms: lectures and practical classes. During lectures, theoretical aspects of the course will be provided to students by the teaching staff. Lectures will be supported by presentation published and available to the students on e.tsi.lv under the module section. Also, additional materials, like publications on the internet,

videos etc. will be presented in e.tsi.lv. Also, module is enriched by the project, which should be completed as a group project.

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

MO1 Evaluate a range of project planning, cost estimation, risk management and control techniques and apply these effectively in the set-up and management of an IT development project

MO2 Select and use appropriate tools and techniques for the elicitation, modelling, analysis, validation and verification of functional and non-functional requirements in a software development project

MO3 Implement and evaluate requirements development and requirements management processes in the context of a specific business situation using appropriate tools and techniques

MO4 Monitor progress and define strategies that optimise interaction between personnel and create an effective project team

MO5 Communicate effectively with technical and non-technical stakeholders, using professionally recognised notations and forms of documentation appropriate to each stage in the design and development of a software product

MO6 Recognise the boundaries and limitations of IT project management and use contemporary project management tools and practices to support team-work, planning and effective organisation of IT project development

Hours to be allocated: 180

Contact hours:

Independent study/self-guided study = 168 hours

Face-to-face learning = 72 hours

Total = 240

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://rl.talis.com/3/uwe/lists/0AD724B3-0EC9-9674-C50B-A7EF644CB2CD.html?lang=en-gb&login=1) via the following link <https://rl.talis.com/3/uwe/lists/0AD724B3-0EC9-9674-C50B-A7EF644CB2CD.html?lang=en-gb&login=1>

Part 4: Assessment

Assessment strategy: Assessment for this modules has been split into two components.

Component A - Written examination

Component B - Project

Apply knowledge gained through case study analysis and practical lab.

Assessment components:

Examination - Component A (First Sit)

Description: Exam

Weighting: 25 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO5, MO6

Project - Component B (First Sit)

Description: Project, applying knowledge to case studies and practical labs

Weighting: 75 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4, MO5, MO6

Examination - Component A (Resit)

Description: Exam

Weighting: 25 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO5, MO6

Project - Component B (Resit)

Description: Project, applying knowledge to case studies and resit failed practical labs

Weighting: 75 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4, MO5, MO6

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Computer Science (Data Analytics and Artificial Intelligence) {Double Degree}

[Feb][FT][TSI][2yrs] MSc 2021-22