



MODULE SPECIFICATION

Part 1: Information			
Module Title	Development in .Net Environment [TSI]		
Module Code	UFCFGX-6-3	Level	Level 6
For implementation from	2023-24		
UWE Credit Rating	6	ECTS Credit Rating	3
Faculty	Faculty of Environment & Technology	Field	Computer Science and Creative Technologies
Department	FET Dept of Computer Sci & Creative Tech		
Module Type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co-requisites	None		
Module Entry Requirements	None		
PSRB Requirements	None		

Part 2: Description
<p>Educational Aims: Mastering the principles and methods of object-oriented and component-oriented software development within .Net Framework technology</p> <p>Outline Syllabus: Introduction to the philosophy of .NET Namespaces and Assemblies Common Type System CTS Common Intermediate Language (CIL) Output and input from/to files and serialization Structured exception handling Memory management Processes, AppDomains and Object Contexts Multithreaded, Parallel and Async Programming</p> <p>Teaching and Learning Methods: Learning and teaching will be provided to students in two forms: lectures and labs. 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 code examples, text books, publications on the internet, videos etc will be presented in e.tsi.lv.</p>

STUDENT AND ACADEMIC SERVICES

During labs, each student receives an individual task to perform. Each practical task should be completed and uploaded to e.tsi.lv (under specific practical task element), it will be checked by the teaching staff and feedback will be provided. If positive feedback takes place students should defend practical assignment. The defence is happening orally and consists of discussion on theoretical issues which fits current practical assignment and assignment report. After the defence, a teaching staff puts the grade.

Integrated development environment (IDE) from Microsoft for .Net framework such as Visual Studio will be used for labs In addition to learning activities during taught sessions, students are expected to spend time outside of class on independent learning activities. These might include completing assignment tasks, independent reading, practising new skills on personal projects and watching informative videos, completing self-assessment test etc.

Part 3: Assessment

Examination - Examination is carried out as multi-choice test.

Portfolio:

A series of practical tasks, exploring different aspects of system development using the .NET framework. The assessment includes demonstration of the output plus an evaluative report.

First Sit Components	Final Assessment	Element weighting	Description
Examination - Component A	✓	50 %	MCQ Examination
Practical Skills Assessment - Component B		50 %	A Series of practical assignments, which should be completed. Each task should be written up and a copy of the application submitted.
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Practical Skills Assessment - Component B		50 %	A Series of practical assignments, which should be completed. Each task should be written up and a copy of the application submitted.
Examination - Component A		50 %	MCQ Examination

Part 4: Teaching and Learning Methods

Learning Outcomes	On successful completion of this module students will achieve the following learning outcomes:	
	Module Learning Outcomes	Reference
	Describe the principles and architecture of .Net Framework	MO1
	Apply the concepts of CLR (Common Language Runtime)	MO2
	Acquire the concepts of .Net Framework CIL (Common Intermediate Language) and metadata	MO3
	Design and develop object-oriented programs in .Net Framework	MO4
	Design and develop programs with different .Net Framework languages	MO5
	Formulate .Net Framework problems as steps so as to be solved systematically	MO6
	Integrate robustness	MO7

STUDENT AND ACADEMIC SERVICES

Contact Hours	Scheduled Learning and Teaching Hours:	
	Face-to-face learning	
	Total Scheduled Learning and Teaching Hours:	0
	Hours to be allocated	60
	Allocated Hours	0
Reading List	<p><i>The reading list for this module can be accessed via the following link:</i></p> <p>https://tl.talis.com/3/uwe/lists/DC81D784-6762-E565-86FA-7F55EDEB0041.html?lang=en-gb&login=1</p>	

Part 5: Contributes Towards

This module contributes towards the following programmes of study:

Computer Science and Software Development [Oct][FT][TSI][4yrs] BSc (Hons) 2020-21

Computer Science and Software Development [Feb][FT][TSI][4yrs] BSc (Hons) 2020-21