STUDENT AND ACADEMIC SERVICES

UWE Bristol | University of the West of England

MODULE SPECIFICATION

Part 1: Information			
Module Title	Logical Programming [TSI]		
Module Code	UFCFEX-6-2	Level	Level 5
For implementation from	2022-23		
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
Educational Aims: The aim of this module is to give an understanding of logic programming principles, using PROLOG programming language as an example.   **Outline Syllabus:** Introduction to logic programming paradigm;   Predicate logic;   Introduction to PROLOG programming language. Elements, syntax;   Relations, rules, structures;   Declarative and procedural meaning;   Automaton representation in PROLOG language;   Lists and structure trees;   Route planner;   Manipulating trees.   **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, official documentation, videos etc will be

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presented in e.tsi.lv.
During labs, each student receives an individual task to perform. PROLOG is considered as
logical programming language. 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.

Part 3: Assessment

This module assessment is split into two components (A – Exam, B – Labs):
A1 - final 2-hour examination which will assess the students understanding of taught material that forms part of
the learning outcomes but cannot easily be assessed through practical tasks.

B1 – series of labs, exploring basic principles of logical programming using PROLOG programming language as
example. An application and its source code should be provided to the teaching staff in form of report.
B2 – series of in-class tests with theoretical and practical tasks.

First Sit Components	Final Assessment	Element weighting	Description
Examination - Component A	✓	40 %	Examination
Portfolio - Component B		36 %	A series of labs, exploring basic principles of logical programming using PROLOG programming language as example. An application and its source code should be provided to the teaching staff in form of report.
In-class test - Component B		24 %	A series of in-class tests with theoretical and practical tasks.
Resit Components	Final Assessment	Element weighting	Description
Examination - Component A		40 %	Examination
Portfolio - Component B		36 %	series of 5 labs, exploring basic principles of logical programming using PROLOG programming language as example. An application and its source code should be provided to the teaching staff in form of report.
In-class test - Component B		24 %	series of 3 quizzes with theoretical and practical tasks. Answers for quizzes should be provided to the teaching staff through e.tsi.lv system in the module section

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
Understand and use the basics of logical programming	MO1
Understand and apply the underlying mathematics	MO2
Understanding predicate expressions	MO3

	Read PROLOG programs created by others, using those as examples to solve problems.	MO4
	Develop simple programs in PROLOG language	MO5
	Dissecting the subject area into phrases, then translating phrases into predicate expressions	MO6
	Widening personal knowledge in logical programming, relying on experience from this course	MO7

Contact Hours	**Independent Study Hours:**	
	Independent study/self-guided study	48
	Total Independent Study Hours:	48
	Scheduled Learning and Teaching Hours:	
	Face-to-face learning	32
	Total Scheduled Learning and Teaching Hours:	32
	Hours to be allocated	60
	Allocated Hours	80
Reading List	*The reading list for this module can be accessed via the following link:* https://rl.talis.com/3/uwe/lists/9456BB8B-6E7F-95FE-2929-D240AFC212F6.html?lang=en-gb&login=1	

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