MODULE SPECIFICATION

Part 1: Information			
Module Title	CSCT Masters Project		
Module Code	UFCF9Y-60-M	Level	Level 7
For implementation from	2020-21		
UWE Credit Rating	60	ECTS Credit Rating	30
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

Overview: The CSCT Masters Project emphasises practical technical work but within a research-informed framework that also takes account of human factors, ethical practice and professional values. The project will normally result in an artefact resulting from a process of software development, data analysis, predictive model, simulation, audit or feasibility study, which will be submitted as part of the thesis reporting.

Features: We encourage the development or enhancement of open-source, open-access artefacts that may have a usefulness beyond the immediate requirements of the project.

The project may be undertaken in the workplace, providing it meets the requirements to the satisfaction of the assigned academic tutor. In the case of a work-based project, students should nominate an industrial assistant supervisor.

Educational Aims: To provide an opportunity for students to :

Apply technical, practical and analytical skills and knowledge acquired across the programme as a whole and through their own personal learning.

Develop self-direction and autonomous planning, evaluation and decision making skills.

Develop creative, innovative solutions to complex domain challenges.

Gain deep knowledge of a specialist area, including key theoretical models and state-of-the-art tools, techniques and approaches.

Outline Syllabus: Project topics may be proposed by students, members of the programme team or external partners. Based on the intended topic area, an academic supervisor will be assigned.

Students will proceed to scope a project idea in collaboration with their assigned academic supervisor and must have a well worked proposal approved by the supervisor.

Backed by library training and support, students should take full advantage of library resources and specialist software to conduct a review of contemporary research in their topic area and to gain sufficient familiarity with the appropriate technical tools.

It is critical that at an early stage, students select a project management paradigm and appropriate development approach, keeping accurate records of learning, supervisor input, artefact evolution and experimental results.

Students will ensure that they can provide a full and transparent account of the work and learning undertaken, through the written thesis and supporting artefact documentation.

Teaching and Learning Methods: Research orientation and research methods training will be scheduled from the beginning of the course to support idea generation, project planning and suggest implementation and evaluation methodologies. At key stages in the project lifecycle, project surgeries will be available so that students can talk to tutors on a one to one bases about project ideas.

Outside of these structured sessions, emphasis will be on students working autonomously, with regular supervision meetings for checking progress and giving direction. Students will be responsible for taking maximum advantage of supervision opportunities and any other technical input as appropriate.

Part 3: Assessment

The project assessments are designed to evaluate the extent of technical learning as well as the approach to scoping the project and designing the solution. The extent of integration of related research and application of relevant tools, models and techniques will be important criteria.

A key additional assessment goal is to evaluate the student's written and verbal communication skills, including organisation skills, ability to use logical and narrative structure and to present key results and actionable conclusions effectively.

In addition to the written dissertation report, students will be expected to fully document their artefact to allow for proper assessment.

The post-submission viva will be used to assess the project through verbal questions and answers and particularly to address the depth of students' understanding of the technical approaches and code used.

A further short video presentation will serve to assess the ability to effectively summarise the project in accessible language.

First Sit Components	**Final Assessment**	**Element weighting**	**Description**

Dissertation - Component A		75 %	Written thesis with links to accompanying online demonstrations and code repositories (12,000 words)
Presentation - Component A		5 %	2 minute video summary
Presentation - Component B	✓	20 %	Oral examination (30 mins)
Resit Components	**Final Assessment**	**Element weighting**	**Description**
Dissertation - Component A		75 %	A reworking of the dissertation report that takes account of feedback received from the first submission (12,000 words)
Presentation - Component B		25 %	Viva (30 mins)

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**
Identify a research problem and scope research to suitably investigate it	MO1
Synthesise and critically evaluate recent research having a direct bearing on the problem space	MO2
Design and implement a technology solution or practical/analytical investigation to a high standard, with aspects of novelty and personal innovation.	MO3
Select and apply appropriate and contemporary best-of-breed tools, techniques and theoretical models	MO4
Critically and reflexively evaluate the outcome and personal performance to standards of research quality (validity, reliability) and professional competence.	MO5
Embody an ethical approach to research conduct in a specialist area in computer science	MO6
Communicate research outcomes and learning effectively to specialist and non-specialist audiences	MO7

Contact Hours

Independent Study Hours:	
Independent study/self-guided study	590
Total Independent Study Hours:	590
Scheduled Learning and Teaching Hours:	
Tutor led	10
Total Scheduled Learning and Teaching Hours:	10

	Hours to be allocated	600
	Allocated Hours	600
Reading List	*The reading list for this module can be accessed via the following link:* https://uwe.rl.talis.com/modules/ufcf9y-60-m.html	

Part 5: Contributes Towards
This module contributes towards the following programmes of study: Information Technology [May][FT][Villa][1yr] MSc 2020-21 Information Technology [Jan][FT][Villa][1yr] MSc 2020-21 Cyber Security [Sep][FT][Frenchay][1yr] MSc 2020-21 Data Science [Sep][FT][Frenchay][1yr] MSc 2020-21 Information Technology [Sep][FT][Frenchay][1yr] MSc 2020-21 Duplicate of Information Technology [Sep][FT][Frenchay][1yr] MSc 2020-21