



## **Module Specification**

### **CSCT Masters Project**

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## Part 1: Information

**Module title:** CSCT Masters Project

**Module code:** UFCF9Y-60-M

**Level:** Level 7

**For implementation from:** 2023-24

**UWE credit rating:** 60

**ECTS credit rating:** 30

**Faculty:** Faculty of Environment & Technology

**Department:** FET Dept of Computer Sci & Creative Tech

**Partner institutions:** None

**Field:** Computer Science and Creative Technologies

**Module type:** Module

**Pre-requisites:** None

**Excluded combinations:** None

**Co-requisites:** None

**Continuing professional development:** No

**Professional, statutory or regulatory body 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 - this must be passed for students to progress

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.

### **Part 3: Teaching and learning methods**

**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.

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

**MO1** Identify a research problem and scope research to suitably investigate it

**MO2** Synthesise and critically evaluate recent research having a direct bearing on the problem space

**MO3** Design and implement a technology solution or practical/analytical investigation to a high standard, with aspects of novelty and personal innovation.

**MO4** Select and apply appropriate and contemporary best-of-breed tools, techniques and theoretical models

**MO5** Critically and reflexively evaluate the outcome and personal performance to standards of research quality (validity, reliability) and professional competence.

**MO6** Embody an ethical approach to research conduct in a specialist area in computer science

**MO7** Communicate research outcomes and learning effectively to specialist and non-specialist audiences

**Hours to be allocated:** 600

**Contact hours:**

Independent study/self-guided study = 590 hours

Tutor led = 10 hours

Total = 600

**Reading list:** The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/ufcf9y-60-m.html) via the following link <https://uwe.rl.talis.com/modules/ufcf9y-60-m.html>

## **Part 4: Assessment**

**Assessment strategy:** At both first sit and resit, 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.

**Assessment tasks:****Presentation (First Sit)**

Description: Oral examination (30 mins)

Weighting: 60 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO4, MO5, MO6, MO7

**Dissertation (First Sit)**

Description: Written thesis with links to accompanying online demonstrations and code repositories (5000-6000 words)

Weighting: 40 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4, MO5, MO6, MO7

**Written Assignment (First Sit)**

Description: Proposal (pass/fail)

Weighting:

Final assessment: No

Group work: No

Learning outcomes tested: MO1

**Presentation (Resit)**

Description: Oral examination (30 mins)

Weighting: 60 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO4, MO5, MO6, MO7

**Dissertation (Resit)**

Description: Written thesis with links to accompanying online demonstrations and code repositories (5000-6000 words)

Weighting: 40 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4, MO5, MO6, MO7

**Written Assignment (Resit)**

Description: Proposal (pass/fail)

Weighting:

Final assessment: No

Group work: No

Learning outcomes tested: MO1

**Part 5: Contributes towards**

This module contributes towards the following programmes of study:

Information Technology [Frenchay] MSc 2023-24

Information Technology [Frenchay] MSc 2023-24

Data Science [NepalBrit] MSc 2023-24

Data Science [Frenchay] MSc 2023-24

Data Science [Frenchay] MSc 2023-24

Information Management [Frenchay] MSc 2023-24

Information Technology [Villa] MSc 2023-24

Information Management [Frenchay] MSc 2022-23