Module Specification

Forensic Computing Practice

Version: 2023-24, v3.0, 20 Mar 2023

Contents

Part 1: Information

Module title: Forensic Computing Practice

Module code: UFCFC5-15-3

Level: Level 6

For implementation from: 2023-24

UWE credit rating: 15

ECTS credit rating: 7.5

Faculty: Faculty of Environment & Technology

Department: FET Dept of Computer Sci & Creative Tech

Partner institutions: None

Delivery locations: Not in use for Modules

Field: Computer Science and Creative Technologies

Module type: Module

Pre-requisites: Computer Crime and Digital Evidence 2022-23, Security and Forensic Tools 2022-23

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: Not applicable

Features: Not applicable

Educational aims: See Learning Outcomes.

Outline syllabus: As with many project modules there is no particular syllabus content other than that covered by earlier modules, in particular the pre-requisite modules. The aim here is for students to apply their technical knowledge and put into practice the skills developed earlier in the programme in realistic computer crime scenarios.

Students firstly create a computer crime scene in a specified format. These cases are then investigated by other students by performing computer forensic analyses. This will involve using the tools and techniques taught in other modules and will require significant problem-solving abilities. The investigations will be summarised in professional style computer forensic reports. Finally each student will be required to defend one investigation carried out by them in a simulated courtroom environment.

Part 3: Teaching and learning methods

Teaching and learning methods: Scheduled learning:
Laboratory sessions, lectures, ad-hoc supervision sessions, 'courtroom' appearance.
Independent learning:
Case study creation, investigation of case studies, Writing reports, 'courtroom' preparation.

Over the course of the academic year students should expect to spend approximately:
36 hours contact time
110 hours in independent study, including time spent in creating their case and investigating and reporting on the assigned cases.
4 hours preparing for and attending the mock courtroom session.
(150 hours in total)

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

> **MO1** Design a computer crime scenario and create a computer disk drive containing relevant evidential materials

MO2 Examine and investigate digital crime cases for evidential items

MO3 Use discovered evidence items to construct a plausible scenario and from this produce professional reports on their examinations and investigation

MO4 Defend their work in a mock courtroom environment

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 114 hours

Face-to-face learning = 36 hours

Total = 150

Reading list: The reading list for this module can be accessed at readinglists.uwe.ac.uk via the following link https://uwe.rl.talis.com/modules/ufcfc5-15-3.html

Part 4: Assessment

Assessment strategy: Assessment is based around a phased project, divided into three:

i) Creation of a computer crime scenario and related evidential material. To be delivered in the form of a computer disk drive; Assessed by written report of scenario and evidence created.

ii) Investigation and reporting of two allocated computer crime cases. Assessed by written report outlining investigation process, evidence items located and scenario reconstructed from evidence found.

iii) Defence of investigation in mock courtroom (controlled conditions). Assessed by witness-stand cross-examination on case-related topics.

Assessment components:

Report (First Sit)

Description: Forensic examination and reporting of two computer crime cases (2000 words)

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO2, MO3

Practical Skills Assessment (First Sit)

Description: Attendance at mock courtroom session (30 mins)

Weighting: 25 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO4

Set Exercise (First Sit)

Description: Creation of computer crime case

Weighting: 25 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1

Report (Resit)

Description: Forensic examination and reporting of two computer crime cases (2000 words)

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested:

Practical Skills Assessment (Resit)

Description: Attendance at mock courtroom session (30 mins)

Weighting: 25 %

Final assessment: Yes

Group work: No

Learning outcomes tested:

Set Exercise (Resit)

Description: Creation of computer crime case

Weighting: 25 %

Final assessment: No

Group work: No

Learning outcomes tested:

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Information Technology {Top-Up} [Gloscoll] BSc (Hons) 2023-24

Cyber Security and Digital Forensics [Sep][FT][Frenchay][3yrs] BSc (Hons) 2021-22

Cyber Security and Digital Forensics [Jan][FT][NepalBrit][3yrs] BSc (Hons) 2021-22

Forensic Computing and Security {Dual} [Mar][FT][Taylors][3yrs] - Not Running BSc (Hons) 2021-22

Forensic Computing and Security {Dual} [Aug][FT][Taylors][3yrs] - Not Running BSc (Hons) 2021-22

Computer Security and Forensics {Foundation} [Feb][FT][GCET][4yrs] BSc (Hons) 2020-21

Computer Security and Forensics {Foundation} [Oct][FT][GCET][4yrs] BSc (Hons) 2020-21

Forensic Computing and Security {Foundation} [Sep][FT][Frenchay][4yrs] - Not Running BSc (Hons) 2020-21

Forensic Computing and Security [Sep][SW][Frenchay][4yrs] - Not Running BSc (Hons) 2020-21

Cyber Security and Digital Forensics [Sep][SW][Frenchay][4yrs] BSc (Hons) 2020-21

Cyber Security and Digital Forensics {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2020-21

Forensic Computing and Security {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2019-20

Information Technology {Top-Up} [Frenchay] BSc (Hons) 2023-24

Information Technology {Top-Up} [Frenchay] BSc (Hons) 2022-23

Information Technology {Dual}[Mar][FT][Taylors][3yrs] BSc (Hons) 2021-22