STUDENT AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Information			
Module Title	Forensic Analysis		
Module Code	USSKAU-30-2	Level	Level 5
For implementation from	2020-21		
UWE Credit Rating	30	ECTS Credit Rating	15
Faculty	Faculty of Health & Applied Sciences	Field	Applied Sciences
Department	HAS Dept of Applied Sciences		
Module type:	Standard		
Pre-requisites	Scientific Investigation of Crime 2020-21		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description

Educational Aims: The purpose of this module is to enable students to understand what forensic evidence is, how it can be analysed and examined in the laboratory and how results from analyses can be interpreted and evaluated.

Outline Syllabus: Students will learn about the chemical and physical nature of materials of forensic interest e.g. fibres, glass, soil, paint, paper and ink, cartridges, accelerants and their environmental distribution. The potential and realised evidential value of a range of these materials will be explored through reference to and critical evaluation of real forensic casework.

Students will learn about a broad range of forensic technology e.g. specialist microscopic techniques, spectroscopy and chromatography for the analysis/examination of e.g. fibres, glass, paper, ink, cartridges, bullets, paint and pollen. They will develop analytical strategies related to hypotheses, cost of analysis and the potential value of results. Any forensic practical work will be undertaken in line with standard forensic laboratory protocols e.g. contamination avoidance and contemporaneous note taking.

The interpretation of experimental results will be taught using appropriate software for data analysis and with regard to the limitations of forensic databases.

The role of various forensic specialists e.g. Forensic Accident Investigators, Ballistics Experts and Forensic Ecologists in the forensic examination of materials from serious scenes of crime will be discussed and students will undertake virtual or practical examinations, including scene examinations relating to these specialisms.

Generic graduate skills practiced:
Innovative and Enterprising
Forward Looking
Emotional Intelligence
Globally Engaged

Generic graduate skills evidenced:
Communication
Professionalism
Critical Thinking
Digital Fluency

Teaching and Learning Methods: An integration of theory and practice is reflected in the module delivery.

Part 3: Assessment

Component A1:
Viva Voce: 10 minutes.

A viva voce based on the analysis of forensic evidence in the laboratory. Students will be questioned to establish their depth of understanding of techniques that are employed in laboratory examinations and subsequent data analysis. Understanding of forensic evidential value will also be explored. This task is designed to feed forward from the oral presentation assessment that students undertake at level 1 in Scientific Investigation of Crime and to underpin the reporting of evidence in court assessment that students undertake in the Forensic Project module at level 3.

Component B1:
 Laboratory Strategy Document (MG22a) (1000 words).

An industry standard document, which is part of the Streamlined Forensic Reporting (SFR) process. Introduction of this document provides scaffolding to level 3 were the other SFR documents are introduced in the Forensic Project. Facilitated data analysis and reflection in the taught classes will underpin this assessment.

Component B2:
Case Study (1000 words)

This assessment acts as a scaffolding assessment to the level 3 research article and also provides an opportunity to demonstrate learning from the crime scene investigation aspects of the module. Students will be asked to write upon the potential of forensic evidence pertaining to a mock criminal case. Formative activities underpinning this assessment include the practical or virtual investigation of simulated outdoor and vehicle crime scenes.

First Sit Components	Final Assessment	Element weighting	Description
Presentation - Component A		40 %	Viva voce on analysis of forensic evidence in the laboratory (10 minutes)
Written Assignment - Component B		30 %	Laboratory strategy document (MG22a) (1000 words).
Written Assignment - Component B	✓	30 %	Unusual crime scenes case study (1000 words)

Resit Components	Final Assessment	Element weighting	Description
Presentation - Component A		40 %	Viva voce on analysis of forensic evidence in the laboratory (10 minutes).
Written Assignment - Component B		30 %	Laboratory strategy document (MG22a). (1000 words).
Written Assignment - Component B	✓	30 %	Unusual crime scenes case study (1000 words)

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** Demonstrate understanding of the methods used for the location, sampling, extraction and analysis of commonly encountered trace evidence and the importance of contamination avoidance procedures, quality standards and codes of practice in the laboratory. — MO1 Interpret and evaluate results obtained from a range of forensic examinations and analyses, with the use of databases and statistical approaches where appropriate. — MO2 Demonstrate good oral presentation skills which are understandable to the intended recipients. — MO3 Develop and evaluate a forensic analytical strategy for a given criminal case scenario. — MO4 Understand the role of specialists at crime scenes and the steps required for preservation, processing and documentation of complex crime scenes e.g. vehicle and outdoor scenes, demonstrating an awareness of evidential and intelligence value. — MO5
Contact Hours	**Independent Study Hours:** Independent study/self-guided study — 229 **Total Independent Study Hours:** — 229 **Scheduled Learning and Teaching Hours:** Face-to-face learning — 71 **Total Scheduled Learning and Teaching Hours:** — 71 **Hours to be allocated** — 300 **Allocated Hours** — 300
Reading List	*The reading list for this module can be accessed via the following link:* https://uwe.rl.talis.com/modules/usskau-30-2.html

Part 5: Contributes Towards	
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This module contributes towards the following programmes of study: Forensic Science {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2018-19 Forensic Science {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2018-19 Forensic Science {Foundation} [Sep][FT][Frenchay][5yrs] MSci 2018-19 Forensic Science {Foundation} [Sep][SW][Frenchay][6yrs] MSci 2018-19	