MODULE SPECIFICATION

Part 1: Information			
Module Title	Advanced Forensic Analysis		
Module Code	USSKFC-45-M	Level	Level 7
For implementation from	2020-21		
UWE Credit Rating	45	ECTS Credit Rating	22.5
Faculty	Faculty of Health & Applied Sciences	Field	Applied Sciences
Department	HAS Dept of Applied Sciences		
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description

Educational Aims: In this module the laboratory examination and analysis of biological, chemical, trace and marks and impression evidence will be explored in theory and practice.

Outline Syllabus: A broad range of specialist lighting, microscopic and analytical instrumentation will be covered, as is used to locate, recover and extract evidence and to process it in the laboratory with due regard for anti-contamination procedures.

Evidence to be discussed will include bodily fluids and subsequent DNA analysis, trace evidence (e.g. fibres, paint and glass), questioned document analysis, chemical development of fingermarks, recovery of digital evidence, examination of materials relating to gun crime and drug analysis. Analytical strategies will be developed based on e.g. prosecution and defence propositions, evidence preservation considerations and cost. The potential for bias in interpretation e.g. of fingermark evidence will also be explored.

The module will also cover the Forensic Science Regulator's Codes of Practice and Conduct with respect to the laboratory analysis of evidence and the requirement for ISO 17025 accreditation.

Teaching and Learning Methods: Throughout the module students will collect a portfolio of evidence of the forensic, analytical and transferable skills that they have gained or developed.

This portfolio will form the basis of personal development planning discussions with the academic personal tutor and will be added to in the follow on module, Interpretation, Evaluation and Presentation of Evidence.

The following Generic Graduate Skills will be Introduced (I), Practiced (P), or Evidenced (E):

1. Communication
2. Professionalism (E)
3. Critical Thinking (E)
4. Digital Fluency (E)
5. Innovative and Enterprising (E)
6. Forward Looking (E)
7. Emotional Intelligence
8. Globally Engaged

Part 3: Assessment

Students will undertake the assessment in the role of a professional forensic scientist. Students will devise a strategy for the searching, recovery and analysis of evidence pertaining to a previously unseen simulated serious crime. Students will utilise Standard Operating Procedures and demonstrate an awareness of ISO17025. Students will complete a Streamlined Forensic Report (MG22b).

Students will evidence strategy development, time management and problem solving skills. They will demonstrate understanding of analytical instrumentation and associated specialist software.

Prior to the assessment students will receive continuous formative opportunities.

First Sit Components	**Final Assessment**	**Element weighting**	**Description**
Practical Skills Assessment - Component A	✓	100 %	Practical or virtual laboratory examination of forensic evidence.
Resit Components	**Final Assessment**	**Element weighting**	**Description**
Practical Skills Assessment - Component A	✓	100 %	Practical or virtual laboratory examination of forensic evidence

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**
Critically evaluate a case study to devise a proportionate analytical strategy, to be reviewed dynamically with changing timescales and contexts.	MO1
Analyse evidence with an awareness of the practice of quality assurance and regulation in Forensic Science in the United Kingdom.	MO2
Critically evaluate the utility, effectiveness and efficiency of analytical methods in terms of time, cost, specificity and sensitivity in a forensic context.	MO3
Demonstrate critical understanding of a range of methods used for the location, recovery and analysis of forensic evidence, including calibration, operation and the use of specialist software.	MO4
Record observations and experimentation, including experimental design, in a logical, comprehensive and contemporaneous manner in keeping with established and accepted codes of good practice.	MO5

Contact Hours	**Independent Study Hours:**	
	Independent study/self-guided study	342
	Total Independent Study Hours:	342
	Scheduled Learning and Teaching Hours:	
	Face-to-face learning	108
	Total Scheduled Learning and Teaching Hours:	108
	Hours to be allocated	450
	Allocated Hours	450
Reading List	*The reading list for this module can be accessed via the following link:* https://uwe.rl.talis.com/	

Part 5: Contributes Towards
This module contributes towards the following programmes of study: