Modern Technology in Forensic Science

Module Information

2022.01, Approved

Summary Information

Module Code	6104FSBMOL
Formal Module Title	Modern Technology in Forensic Science
Owning School	Pharmacy & Biomolecular Sciences
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 6
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Pharmacy & Biomolecular Sciences

Learning Methods

Learning Method Type	Hours
Lecture	21
Practical	6
Workshop	21

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

Aims	To provide students with the technical and theoretical knowledge and the practical skills relating to state of the art modern technologies as applied to forensic science. Typical content will include current and emerging forensic technologies such as photography, audio, cybercrime, and drone surveillance.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Critically evaluate current and emerging technology based aspects of forensic science including good practice.
MLO2	2	Discuss issues surrounding the dissemination of evidence from forensic technologies in court by using appropriate scientific literature.
MLO3	3	Present and analyse forensic data and information from differing technologies.

Module Content

Outline Syllabus	Topics may include the following: Crime scene recording using techniques such as laser scanning and/or 360⯑ photography and their presentation in 2D or 3D virtual reality.Drone photography and recording for crime scene documentation and investigative surveillance. Audio forensics.Video analytics.Computer forensics.Facial reconstruction.This module includes the use of case studies and table-top exercises. These practical sessions and demonstrations will give students the opportunity to use or observe new techniques.
Module Overview	The aim of this module is to provide technical and theoretical knowledge and the practical skills relating to state of the art modern technologies as applied to forensic science. Typical content will include current and emerging forensic technologies such as photography, audio, cybercrime, and drone surveillance.
Additional Information	This module looks at modern and emerging technologies used within forensic science and topical cases in the media. Skills developed during this module include: analysing and problem solving, critical appraisal of literature and written communication.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Practical report	50	0	MLO3
Centralised Exam	Exam	50	2	MLO1, MLO2

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Kayleigh Sheppard	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings