

## Liverpool John Moores University

Title: Modern Technology in Forensic Science  
Status: Definitive  
Code: **6104FSBMOL** (127112)  
Version Start Date: 01-08-2021

Owning School/Faculty: Pharmacy & Biomolecular Sciences  
Teaching School/Faculty: Pharmacy & Biomolecular Sciences

Team	Leader
Kayleigh Sheppard	Y
David Jordan	
Caroline Wilkinson	
Colin Robinson	
Thomas Berry	

**Academic Level:** FHEQ6  
**Credit Value:** 20  
**Total Delivered Hours:** 50  
**Total Learning Hours:** 200  
**Private Study:** 150

### Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	21
Practical	6
Workshop	21

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	ASS1	practical report	50	
Exam	ASS2	exam	50	2

### 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.*

## **Learning Outcomes**

After completing the module the student should be able to:

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

## **Learning Outcomes of Assessments**

The assessment item list is assessed via the learning outcomes listed:

Practical report	3	
Exam	1	2

## **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.*

## **Learning Activities**

This module consists of workshops, lectures, practical exercises mimicking typical operations and user demonstrations.

## **Notes**

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.

