

Trace Evidence Analysis

Module Information

2022.01, Approved

Summary Information

Module Code	5102FSBMOL
Formal Module Title	Trace Evidence Analysis
Owning School	Pharmacy & Biomolecular Sciences
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 5
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Pharmacy & Biomolecular Sciences

Learning Methods

Learning Method Type	Hours
Lecture	24
Practical	24
Workshop	4

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-CTY	CTY	September	12 Weeks

Aims and Outcomes

Aims	This module will provide students with a thorough knowledge of the use of microscopy in trace evidence analysis examining methodologies employed in the laboratory.
------	---

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Demonstrate an understanding of the principles of operation of different types of microscopes used in trace evidence analysis
MLO2	2	Demonstrate an understanding of the applications of microscopy in trace evidence analysis.
MLO3	3	Demonstrate practical skills relevant to trace evidence analysis.

Module Content

Outline Syllabus	Microscopy and imaging techniques. Light microscopy; its applications in trace evidence analysis. Types of imaging: for example bright field, dark field, polarised light, fluorescence. Confocal and atomic force microscopy; applications in trace evidence analysis. Electron Microscopy: general construction and principles of operation of transmission and scanning electron microscopes, specimen preparation, X-ray microanalysis; applications in trace evidence analysis.
Module Overview	This module will provide you with a thorough knowledge of the use of microscopy in trace evidence analysis examining methodologies employed in the laboratory.
Additional Information	This module is an introduction to forensic microscopy covering aspects relating to a number of areas of trace evidence analysis.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Report	40	0	MLO1, MLO2
Report	Practice	60	0	MLO2, MLO3

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
George Sharples	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
--------------	--------------------------	-----------