LIVERPOOL JOHN MOORES UNIVERSITY

Forensic Chemistry

Module Information

2022.01, Approved

Summary Information

Module Code	4103FSBMOL
Formal Module Title	Forensic Chemistry
Owning School	Pharmacy & Biomolecular Sciences
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 4
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Pharmacy & Biomolecular Sciences

Learning Methods

Learning Method Type	Hours
Lecture	22
Off Site	8
Practical	22
Workshop	5

Module Offering(s)

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

Aims and Outcomes

Aims	To provide a basic knowledge of chemistry and chemical analysis important in forensic science. This course aims to provide core material in chemistry relevant to forensic analysis and sufficient for higher level study of this subject.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Perform a range of chemical tests and analyse the results obtained
MLO2	2	Discuss the use of forensic chemical tests within forensic analysis
MLO3	3	Demonstrate a knowledge of the chemistry underpinning forensic chemical analysis

Module Content

Outline Syllabus	Basic Fundamentals of forensic chemistryBasic Chemical Analysis (Colour Tests and physical measurements)Polarity and Partitioning (including Liquid -Solid and Liquid-Liquid Extraction)Basic Chromatography Chemistry of Colour (Dyes and pigments, Colour systems, Inks and Paints)Forensic Techniques for the detection of Heavy Metals (Atomic Spectrometry)Chemistry of Combustion and ExplosivesIntroduction to Spectroscopic TechniquesDrug Analysis and note taking
Module Overview	The aim of this module is to provide a basic knowledge of chemistry and chemical analysis important in forensic science. The course aims to provide core material in chemistry relevant to forensic analysis.
Additional Information	Forensic Chemistry is a 20 credit semester 1 module, which provides students with information about the different types of evidence a forensic chemist would analyse. Including the chemistry underpinning the different types of evidence and both theoretical and practical experience of the forensic techniques used to analyse this evidence.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Centralised Exam	Examination	50	2	MLO2, MLO3
Test	In Class test	50	1	MLO1, MLO2, MLO3

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Amanda Boddis	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings