

Forensic Science Research Methods 1

Module Information

2022.01, Approved

Summary Information

Module Code	4101FSBMOL
Formal Module Title	Forensic Science Research Methods 1
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	16
Practical	16
Tutorial	6
Workshop	22

Module Offering(s)

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

Aims and Outcomes

Aims	To enable students to develop a range of academic, research and transferable skills related to their programme of study.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Use simple numerical and mathematical skills in relation to laboratory procedures and basic chemical and biological calculations. Interpret written instructions, perform routine laboratory tasks and analyse both given data and practical results.
MLO2	2	Identify and reflect upon the following aspects of personal development: strengths and weaknesses, motivations and values, ability to work with others
MLO3	3	Perform independent research and present the results using appropriate techniques, such as graphing, mapping, tables, text and oral presentation methods.
MLO4	4	Recognise scientific approaches and how to apply them in order to solve problems.

Module Content

Outline Syllabus	Written communication: scientific writing (reports and essays for example), reviewing scientific literature General Laboratory Skills: Introduction to Health & Safety and good laboratory practice, the use of basic laboratory equipment Basic laboratory calculations on concentration, amount, dilution Numerical reasoning: expression of results, significant figures, linear equations, data handling and presentation (e.g. graphs, databases) and descriptive statistics (mean, SD and SE, median and mode, etc.). Basic analytical statistics: for example T-tests - to include stats packages (SPSS and Excel) Information literacy & ICT skills: Canvas, tabulation, graphics, email, internet, images, hyperlinks, presentation software Personal planning, organizing and employment skills, time management, skills auditing and skills development, target setting, action planning, using feedback. Problem solving: the nature of scientific enquiry, the Scientific Method, experimental design, hypothesis testing and project management
Module Overview	The aim of the module is to enable you to develop a range of academic, research and transferable skills such as: data handling, IT, laboratory techniques and skills related to Forensic Science.
Additional Information	To facilitate effective study of Forensic Science by providing a foundation in basic methodology, data handling, IT, laboratory techniques and skills and study skills via lectures, practicals, workshops (including IT) and tutorials which are a mixture of academic material and transferable skills. This module will provide an opportunity for PDP.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Future Focus e-learning task	Self awareness statement	10	0	MLO2
Presentation	Oral presentation	30	0	MLO2, MLO3
Test	practical test	60	1	MLO1, MLO3, MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Sulaf Assi	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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