

Practical Laboratories 1

Module Information

2022.01, Approved

Summary Information

Module Code	4003APCHEM
Formal Module Title	Practical Laboratories 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
Practical	78

Module Offering(s)

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

Aims and Outcomes

Aims	This course will provide an introduction to the techniques and practice of a modern chemical laboratory, including each of the areas of Inorganic, Organic, Physical, Analytical and Computational Chemistry. The course will also establish the requirements for written and computational work throughout the programme, and thus for future work in the chemical and allied industries.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Identify and practise health and safety requirements in the laboratory.
MLO2	2	Select and construct suitable laboratory equipment for standard operations.
MLO3	3	Carry out simple chemical separations.
MLO4	4	Select and perform simple analytical procedures.

Module Content

Outline Syllabus	Good laboratory practice; chemical drawing; labware construction; simple mixture separation; recrystallisation; thin layer chromatography; infrared spectroscopy; ultraviolet-visible spectrophotometry, fluorimetry; quantitative analysis.
Module Overview	In this module you will be provided with an introductory level experience in the chemical laboratory, particularly in areas of safety, equipment, and manipulations. You will cover the practical aspects of Inorganic, Organic, Physical and Analytical Chemistry dealt with in the two accompanying first-semester theoretical modules. This module will also help you establish the requirements for written and computational work throughout the programme, and thus for future work in the chemical and allied industries.
Additional Information	The course provides introductory level experience in the chemical laboratory, particularly in respect of safety, equipment and manipulations and covers the practical aspects of Inorganic, Organic, Physical and Analytical Chemistry dealt with in the two accompanying first-semester theoretical modules.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Centralised Exam	On line Test	50	0	MLO1, MLO2, MLO3, MLO4
Report	Practical Report	50	0	MLO1, MLO2, MLO3, MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Mark Wainwright	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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