

Practical Skills in Biotechnology

Module Information

2022.01, Approved

Summary Information

Module Code	4111BCBMOL
Formal Module Title	Practical Skills in Biotechnology
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 facilitate effective study of Biotechnology by providing a foundation in communication and research skills, data handling and IT, laboratory techniques and underpinning theory. The module will be delivered by a mixture of lectures, tutorials, workshops and practicals
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Demonstrate laboratory skills competently
MLO2	2	Locate and analyse scientific information from a wide range of sources and communicate this effectively
MLO3	3	Identify and reflect upon the following aspects of personal development: strengths and weaknesses, motivations and values

Module Content

Outline Syllabus	Study skills: The presentation of written material including essays, practical reports and graphs and tabulated data. Oral presentation. Numeracy: Expression of results, significant figures, concepts linked to basic laboratory calculations on concentration, amount, dilution, pH and buffers. Information technology: Introduction to LJMU PC network and webpages. Spreadsheets, graphical representation of data, literature searching and use of databases. Word and Excel. General laboratory skills: Health and safety, use of equipment including spectrophotometer, microscope and pipetting, aseptic technique, making up solutions
Module Overview	This module facilitates your effective study of Biotechnology 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 also provide you with an opportunity for personal development planning.
Additional Information	To facilitate effective study of Biotechnology 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 personal development planning.

Assessments

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

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Baoxiu Qi	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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