

Module Information

2022.01, Approved

Summary Information

Module Code	5502ICBTBE
Formal Module Title	General and Medical Microbiology
Owning School	Pharmacy & Biomolecular Sciences
Career	Undergraduate
Credits	15
Academic level	FHEQ Level 5
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name
International College of Business and Technology

Learning Methods

Learning Method Type	Hours
Lecture	45
Practical	12
Tutorial	6

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
APR-PAR	PAR	April	12 Weeks

JAN-PAR	PAR	January	12 Weeks
SEP-PAR	PAR	September	12 Weeks

Aims and Outcomes

Aims	To enable learners to develop knowledge of microbiology, including the structure, physiology and genetics of microorganisms, and safe microbiology laboratory practice. Also, this module is designed to cover the current methods used for the collection of specimens from patients; isolation and identification of bacteria by biochemical, serological and other laboratory methods, laboratory methods of screening for antibiotic sensitivity, and types of pathogen.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Recognise the diversity of microorganisms in natural environments and apply knowledge of the range of microorganisms involved in human disease processes, including the role of normal microbiota in health and disease.
MLO2	2	Describe and examine the basic methods for cultivation, observation, enumeration and identification of microorganisms, including factors which influence growth.
MLO3	3	Apply knowledge in the identification of pathogenic microorganisms and in the treatment of infectious disease.
MLO4	4	Describe the basic components of the immune system and discuss the role of the immunity in infectious diseases.

Module Content

Outline Syllabus	Diversity of microorganisms Prokaryotic cell structure Structure and properties of viruses Microbial growth The control of microorganisms Microbial genetics Methods for the collection of specimens from patients Identify bacteria Methods of screening for antibiotic sensitivity Other pathogens Components of the immune system
Module Overview	
Additional Information	Learners will need access to appropriate laboratory, library and IT facilities and tutorials.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Exam	Formal Written Exam	70	2	MLO1, MLO3, MLO4
Portfolio	Practical Assessment	30	0	MLO2

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Karl Jones	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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