UNIVERSITY of BRADFORD

Module Descriptor

Module Details	
Module Title	Diagnostic Microbiology
Module Code	BIS6022-B
Academic Year	2020/1
Credits	20
School	School of Chemistry and Biosciences
Subject Area	Biomedical Science
FHEQ Level	FHEQ Level 6
Pre-requisites	N/A
Co-requisites	N/A

Contact Hours	
Type	Hours
Lectures	24
Lectures	24
Tutorials	12
Laboratories	6
Directed Study	158

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Semester 2

Module Aims

To enable the student to understand and gain experience of the application and delivery of a range of core and specialised methods and techniques from across the infection sciences. Also to allow students to understand strategies to prevent and investigate bacterial infections.

Outline Syllabus

Present and analyse data in simple terms in both oral and written formats.
Conduct a suitable range of diagnostic, investigative or monitoring procedures and address quality control/assurance requirements. Apply the principles of scientific enquiry, including the evaluation of treatment efficacy and the research process.

Effectively manage your workload, resources and work successfully to a deadline. Demonstrate personal responsibility for self-directed learning and time management.

Learning Outcomes

Outcome Number	Description
01	Understand common bacterial infections and the methods used in their investigation.
10	Apply the principles of scientific enquiry, including the evaluation of treatment efficacy and the research process.
11	Effectively manage your workload, resources and work successfully to a deadline. Demonstrate personal responsibility for self-directed learning and time management. HCPC competencies covered by this module include: 1.2, 3.3, 4.2, 4.3, 4.4, 4.5, 5.1, 9.1, 10.3, 13.1, 13.8, 13.9, 13.10, 14.9, 14.19, 14.28.
02	Evaluate different microbiological methods and techniques for the investigation of infection in the community and hospital setting.
03	Understand the mechanism of bacterial infection & investigation of patients suspected of having bacterial infection.
04	Critically evaluate the tests used for commonly encountered aerobic & anaerobic bacterial infections of the skin, respiratory tract, digestive tract & reproductive tract.
05	Analyse laboratory investigations of infectious disease in the community & guidelines for the optimum treatment of community based infection.
06	Understand the sources and routes of transmission, the diagnosis of and strategies to reduce hospital-acquired infections (HAI).
07	Discuss anti-microbial therapy.
08	Present and analyse data in simple terms in both oral and written formats.
09	Conduct a suitable range of diagnostic, investigative or monitoring procedures and address quality control/assurance requirements.

Learning, Teaching and Assessment Strategy

Learning will be facilitated by a series of lectures, seminars and workshops as well as practical work. Lectures will be supported by case studies that aim to develop the students' abilities to apply their knowledge to microbial infection problems. Here the students will work in groups under the guidance of facilitators to solve problems and interpret data. Finally the practical class will develop written communication and data presentation skills.

Mode of Assessment				
Type	Method	Description	Length	Weighting
Summative	Examination - Open Book	Online assessment (two from a choice of five essays)	2 hour	60%
Summative	Coursework	Short answer questions and data analysis	N/A	20%
Summative	Presentation	Oral Presentation (20 minutes)	N/A	20%

Reading List
To access the reading list for this module, please visit https://bradford.rl.talis.com/index.html

Please note:
This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.

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