

Module Details	
Module Title:	Diagnostic Microbiology
Module Code:	BIS6022-B
Academic Year:	2019-20
Credit Rating:	20
School:	School of Chemistry and Biosciences
Subject Area:	Biomedical Science
FHEQ Level:	FHEQ Level 6
Pre-requisites:	
Co-requisites:	

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

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Semester 1 (Sep - Jan)

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

1	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
2	Evaluate different microbiological methods and techniques for the investigation of infection in the community and hospital setting.
3	Understand the mechanism of bacterial infection & investigation of patients suspected of having bacterial infection
4	Critically evaluate the tests used for commonly encountered aerobic & anaerobic bacterial infections of the skin, respiratory tract, digestive tract & reproductive tract.
5	Analyse laboratory investigations of infectious disease in the community & guidelines for the optimum treatment of community based infection.
6	Understand the sources and routes of transmission, the diagnosis of and strategies to reduce hospital-acquired infections (HAI)
7	Discuss anti-microbial therapy.
8	Present and analyse data in simple terms in both oral and written formats.
9	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	Presentation	Oral Presentation	30 minutes	20%
Summative	Examination - closed book	Examination comprising two from a	2 hours	60%

		choice of five essays		
Summative	Coursework	Short answer questions and data analysis	1 hour	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.