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MODULE DESCRIPTOR					
Module Title					
Medical Microbiol	logy				
Reference	AS3016	Version	8		
Created	October 2017	SCQF Level	SCQF 9		
Approved	May 2011	SCQF Points	15		
Amended	February 2018	ECTS Points	7.5		

Aims of Module

To enable students to comprehend the nature and role of micro-organisms in infectious disease states, their mechanisms of host pathogenesis, and the action of antimicrobial agents for treatment.

Learning Outcomes for Module

On completion of this module, students are expected to be able to:

- 1 Discuss and describe aspects of pathogenic microorganisms that can cause infections in humans.
- Explain the nature of bacterial pathogenesis and virulence mechanisms involving toxins, diagnostic approaches for pathogen identification and the action of antifungal, antiviral or antibacterial antibiotics.
- 3 Demonstrate knowledge and understanding of the practical aspects of medical microbiology.

Indicative Module Content

Biology of pathogenic micro-organisms. Epidemiology and public health microbiology. Normal external and internal flora of the human body. Bacterial genetics, pathogenesis and virulence. examples of infectious diseases such as tuberculosis, streptococcal diseases, sexually transmitted infections and influenza. Diagnostic microbiology and rapid microbial detection. Antifungals, antivirals and antibacterial antibiotics that inhibit nucleic acid synthesis, protein synthesis or peptidoglycan synthesis. Development of antibiotic resistance. Novel approaches for treatment.

Module Delivery

A lecture based approach supplemented with laboratory practical session involving group learning activities, case studies and revision tutorials will be used.

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Indicative Student Workload	Full Time	Part Time
Contact Hours	40	N/A
Non-Contact Hours	110	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	150	N/A
Actual Placement hours for professional, statutory or regulatory body		

ASSESSMENT PLAN

If a major/minor model is used and box is ticked, % weightings below are indicative only.

Component 1

Type: Examination Weighting: 70% Outcomes Assessed: 1, 2

Description: An unseen, closed book examination

Component 2

Type: Coursework Weighting: 30% Outcomes Assessed: 3

Description: A closed book test with multiple-choice type questions based on the laboratory coursework.

MODULE PERFORMANCE DESCRIPTOR

Explanatory Text

This module is assessed using the two components of assessment as detailed in the Assessment Plan. To pass this module, candidates must achieve a Module Grade D or better.

Module Grade	Minimum Requirements to achieve Module Grade:	
Α	Final aggregate mark of 70% or greater and a minimum of 35% in C1 and C2	
В	Final aggregate mark of between 60-69% and a minimum of 35% in C1 and C2	
С	Final aggregate mark of between 50-59% and a minimum of 35% in C1 and C2	
D	Final aggregate mark of between 40-49% and a minimum of 35% in C1 and C2	
E	MARGINAL FAIL. Final aggregate of between 35-39% and a minimum of 35% in C1 and C2	
F	FAIL. A mark of less than 35% in either component	
NS	Non-submission of work by published deadline or non-attendance for examination	

Module Requirements

Prerequisites for Module Successful completion of Stage 2 of the course or equivalent.

Corequisites for module None.

Precluded Modules None.

INDICATIVE BIBLIOGRAPHY

No core text book will be used. Instead recently published scientific papers will form the basis of background material.

2 MADIGAN, M.T., et al. Brock Biology of Microorganisms. Current Edition. Pearson.