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MODULE DESCRIPTOR

Module Title

Pharmaceutical Microbiology			
Reference	PH2134	Version	3
Created	September 2018	SCQF Level	SCQF 8
Approved	March 2013	SCQF Points	15
Amended	September 2018	ECTS Points	7.5

Aims of Module

To develop knowledge and understanding of pharmaceutical microbiology and its integration into healthcare.

Learning Outcomes for Module

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

- 1 Describe microorganisms of relevance to healthcare and the pharmaceutical industry as causative agents of infection and contamination.
- 2 Explain the action of antimicrobial agents.
- 3 Demonstrate knowledge and understanding of the practical aspects of pharmaceutical microbiology.
- 4 Perform practical procedures to demonstrate competence of aseptic manipulation.

Indicative Module Content

An application of the impact of microorganisms upon health and production of pharmaceuticals, and the role antimicrobials within this. Topics include: structure and function of components of microorganisms as infective agents of pharmaceutical relevance; antimicrobial agents and factors influencing activity; microbial genetics and antibiotic resistance; infectious diseases and the immune system for host defence; infection control; microbial contamination; product spoilage and antimicrobial preservation.

Module Delivery

Lectures and coursework (which include practical laboratory experiments, tutorials and problem solving exercises). Directed study includes directed reading in support of lectures and coursework.

Indicative Student Workload

	Full Time	Part Time
Contact Hours	52	N/A
Non-Contact Hours	98	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	150	N/A
<i>Actual Placement hours for professional, statutory or regulatory body</i>		

ASSESSMENT PLAN

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

Component 1

Type: Examination Weighting: 100% Outcomes Assessed: 1, 2, 3
 Description: A written examination comprising multiple-choice and essay type questions.

Component 2

Type: Coursework Weighting: 0% Outcomes Assessed: 4
 Description: Competency assessment based on experiments undertaken during coursework.

MODULE PERFORMANCE DESCRIPTOR**Explanatory Text**

To pass this module, the student MUST achieve a module Grade of Grade D or better.

Module Grade	Minimum Requirements to achieve Module Grade:
A	When the mark for C1 is 70% or more and a Pass in C2.
B	When the mark for C1 is 60-69% and a Pass in C2.
C	When the mark for C1 is 50-59% and a Pass in C2.
D	When the mark for C1 is 40-49% and a Pass in C2.
E	When the mark for C1 is 35-39% and a Pass in C2.
F	When the mark for C1 is less than 35% and/or an unsuccessful attempt (i.e. Fail) in C2.
NS	Non-submission of work by published deadline or non-attendance for examination

Module Requirements

Prerequisites for Module	Successful completion of Stage 1 or equivalent.
Corequisites for module	None.
Precluded Modules	None.

INDICATIVE BIBLIOGRAPHY

- 1 DENYER, S.P., HODGES, N.A. AND GORMAN, S.P. Hugo and Russell's Pharmaceutical Microbiology. Current edition. Oxford: Wiley-Blackwell.