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MODULE DESCRIPTOR				
Module Title				
Advanced Microbiology				
Reference	AS3433	Version	1	
Created	September 2017	SCQF Level	SCQF 9	
Approved	February 2018	SCQF Points	15	
Amended		ECTS Points	7.5	

Aims of Module

To provide students with the ability to examine a range of topics related to advanced microbiology.

Learning Outcomes for Module

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

- Demonstrate understanding of the role and applications of biofilms, cell signalling, and molecular biology in medical, environmental and food microbiology.
- 2 Explain the rationale and process for drug discovery from aquatic micro-organisms.
- 3 Understand the role of micro-organisms in the remediation of the environment.
- 4 Examine current topics of interest in the field of advanced microbiology.

Indicative Module Content

Biofilms in medicine, food hygiene and the environment; cell signalling in the environment and its role in pathogenesis; application of molecular biology in environmental, medical and food microbiology; aquatic microbes as a source of pharmaceuticals; exploitation of micro-organisms for environmental clean-up; bioremediation; biodegradation; current topics - will allow delivery to be tailored to current interests and will be influenced by current advances/topics of the time.

Module Delivery

The module is based on lectures with an element of student centred learning and focussed tutorials on recently published research. Appropriate guest seminars will enhance the delivery of the unit.

Indicative Student Workload	Full Time	Part Time
Contact Hours	30	N/A
Non-Contact Hours	120	N/A
Placement/Work-Based Learning Experience [Notional] Hours		N/A
TOTAL	150	N/A
Actual Placement hours for professional, statutory or regulatory body		

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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, 4

Description: Unseen, closed book examination

MODULE PERFORMANCE DESCRIPTOR

Explanatory Text

This module is assessed using the one component detailed in the Assessment Plan. To pass this module, candidates must achieve a grade D or better.

Module Grade	Minimum Requirements to achieve Module Grade:	
Α	Final mark of 70% or greater	
В	Final mark of between 60-69%	
С	Final mark of between 50-59%	
D	Final mark of between 40-49%	
E	MARGINAL FAIL. Final mark of between 35-39%	
F	FAIL. Final mark of 34% or lower	
NS	Non-submission of work by published deadline or non-attendance for examination	

Module Requirements

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

Corequisites for module None.

Precluded Modules None.

INDICATIVE BIBLIOGRAPHY

Directed reading will consist of a selection of articles from current journal papers and recent reviews of topics of relevance.