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MODULE DESCRIPTOR

Module Title

Public Health

Reference	AS3033	Version	4
Created	February 2017	SCQF Level	SCQF 9
Approved	May 2008	SCQF Points	15
Amended	September 2017	ECTS Points	7.5

Aims of Module

To provide students with the ability to recognise the processes associated with provision of safe drinking water and food.

Learning Outcomes for Module

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

- 1 Discuss the management and treatment of wastewater.
- 2 Discuss microbial diseases associated with water and food.
- 3 Explain the procedures and regulations developed to ensure food safety.
- 4 Discuss how potable water is managed and treated.

Indicative Module Content

Wastewater Treatment Processes: primary, secondary treatment; activated sludge systems; attached growth systems; advanced treatment; disinfection. Local examples of problems and solutions. Alternative technologies. Water, food and disease: sanitation, and population growth. Sources, symptoms and prevention of microbial disease including recommended procedures and regulations. Assessment of water quality; chemical, biological, physical and techniques for monitoring them. Water Treatment; quantity, water quality standards and sources of supply; pre-treatment sedimentation; coagulation; flocculation; filtration; disinfection; advanced treatment; delivery. Local examples of problems and solutions. Emerging challenges to public health e.g. antimicrobial resistance (AMR) as a global problem along with strategies to combat it.

Module Delivery

This module is delivered by lectures and tutorials.

Indicative Student Workload

	Full Time	Part Time
Contact Hours	33	N/A
Non-Contact Hours	117	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, 4
Description:	Unseen, closed book examination				

MODULE PERFORMANCE DESCRIPTOR**Explanatory Text**

This module is assessed using the component of assessment described 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:
A	Final mark of 70% or greater
B	Final mark of between 60-69%
C	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	AS1010 or equivalent
Corequisites for module	None.
Precluded Modules	None.

INDICATIVE BIBLIOGRAPHY

1	MADIGAN, M., et al. <i>Brock: Biology of Microorganisms</i> . Current Edition. Pearson Prentice Hall, New Jersey.
2	WORLD HEALTH ORGANISATION. <i>Water, Sanitation and Health</i> . Current Edition. WHO electronic Library.
3	DETELS R. et al., <i>Oxford Textbook of Global Public Health</i> . Current Edition. Oxford University Press: Oxford, UK