




MODULE SPECIFICATION

Part 1: Information			
Module Title	Human health and diseases		
Module Code	USSKNJ-15-2	Level	2
For implementation from	September 2018		
UWE Credit Rating	15	ECTS Credit Rating	7.5
Faculty	Health and Applied Sciences	Field	Applied Sciences
Department	Applied Sciences		
Contributes towards	FdSc Biological Laboratory Sciences		
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
<p>This module introduces students to the human health, infectious diseases and immune response.</p> <p>Immunology: introduction to the immune system, autoimmune disorders and immunodeficiency.</p> <p>Infectious diseases: infectious agents and diseases they cause.</p> <p>Epidemiology: artificial control methods of various infectious diseases.</p> <p>Inherited health conditions: diseases caused by autosomal, allosomal, mitochondrial and polygenic disorders.</p> <p>Exercise, nutrition and health: the role of nutrition and physical activity in the cause, prevention and treatment of chronic human disease including those of the cardiovascular and endocrine systems.</p>
Part 3: Assessment
<p>The assessment is designed to test students' breadth and depth of understanding of human immune response, relationship between a lifestyle and health and relationship between infectious agents and artificial control methods.</p> <p>A group case study analysis poster presentation will enable students to analyse, assess and evaluate on 2 given case studies. This assessment will test their depth of understanding of key health conditions and ability to analyse and evaluate transitions from healthy to disease states. The students will undertake a</p>

<p>time constrained condition in a group task to prepare an academic poster presentation; this will then be presented at an agreed time slot and a paired (group) presentation.</p> <p>The coursework consists of an essay (2500 words) to explore infectious agents, diseases they cause, artificial control methods and epidemiology of those infectious diseases. This is an opportunity for students to research scientific findings and generate an in-depth analysis of epidemiology specific infectious diseases and evaluation of current artificial control methods. This assessment will test a range of learning outcomes and will provide a valuable learning experience through applying knowledge and supporting this through the published literature.</p> <p>Students have the opportunity to informally discuss their work with an academic member of staff during timetabled feed forward sessions, or remotely using Blackboard, e-mail, skype, or other social media vehicles.</p> <p>All work is marked in line with the UWE generic assessment criteria and conforms to university policies for the setting, collection, marking and return of student work. Assessments are described in the module handbook that is supplied at the start of module.</p>		
Identify final timetabled piece of assessment (component and element)		Component B
% weighting between components A and B (Standard modules only)		A:
		B:
		50
		50
First Sit		
Component A (controlled conditions) Description of each element		Element weighting (as % of component)
1. Group poster presentation		100
Component B Description of each element		Element weighting (as % of component)
1. Essay (2500 words)		100
Resit (further attendance at taught classes is not required)		
Component A (controlled conditions) Description of each element		Element weighting (as % of component)
1. Poster Presentation		100
Component B Description of each element		Element weighting (as % of component)
1. Essay (2500 words)		100
Part 4: Teaching and Learning Methods		
Learning Outcomes	On successful completion of this module students will be able to:	
	<ul style="list-style-type: none"> Discuss the structure and function of the human immune system (B) 	

	<ul style="list-style-type: none"> Investigate pathogenesis of various infectious agents and evaluate epidemiology of the selected infectious diseases (B) Analyse and discuss the impact of hereditary disorders (A) Evaluate the role of exercise and nutrition in the maintenance of a healthy state (A) Analyse, evaluate and present published data by employing effective science communication skills (A) 																				
<p>Key Information Sets Information (KIS)</p> <p>Contact Hours</p> <p>Total Assessment</p>	<p style="text-align: center;">30</p> <p style="text-align: center;"><i>Number of credits for this module</i></p> <div style="text-align: right; border: 1px solid black; padding: 2px; display: inline-block;">15</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Hours to be allocated</th> <th style="width: 20%;">Scheduled learning and teaching study hours</th> <th style="width: 20%;">Independent study hours</th> <th style="width: 20%;">Placement study hours</th> <th style="width: 10%;">Allocated Hours</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">150</td> <td style="text-align: center;">30</td> <td style="text-align: center;">120</td> <td style="text-align: center;">0</td> <td style="text-align: center;">150</td> </tr> </tbody> </table> <div style="text-align: right; margin-top: 5px;"></div> <p>The table below indicates as a percentage the total assessment of the module which constitutes a;</p> <p>Written Exam: Unseen or open book written exam Coursework: Written assignment or essay, report, dissertation, portfolio, project or in class test Practical Exam: Oral Assessment and/or presentation, practical skills assessment, practical exam (i.e. an exam determining mastery of a technique)</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th colspan="2" style="text-align: left;">Total assessment of the module:</th> </tr> </thead> <tbody> <tr> <td style="width: 80%;">Written exam assessment percentage</td> <td style="text-align: center;">40%</td> </tr> <tr> <td>Coursework assessment percentage</td> <td style="text-align: center;">60%</td> </tr> <tr> <td>Practical exam assessment percentage</td> <td style="text-align: center;">0%</td> </tr> <tr> <td></td> <td style="text-align: center;">100%</td> </tr> </tbody> </table>	Hours to be allocated	Scheduled learning and teaching study hours	Independent study hours	Placement study hours	Allocated Hours	150	30	120	0	150	Total assessment of the module:		Written exam assessment percentage	40%	Coursework assessment percentage	60%	Practical exam assessment percentage	0%		100%
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	100%																				
Reading List	<p>The following books are recommended as it covers most of the module material at an appropriate level.</p> <ul style="list-style-type: none"> Cohen, B.J. and Hull, K.L. (2015) Memmler's The Human Body in Health and Disease. 13th Ed. Philadelphia: Wolters Kluwer. Waugh, A and Grant, A. (2014) Ross and Wilson Anatomy and Physiology in Health and Illness. 14th Ed. Churchill Livingstone: London. <p>Extensive notes will be provided via blackboard on the scientific topics. Links to useful and credible websites will also be provided.</p> <p>The students are also advised to consult the basic scientific texts in UCW, Frenchay and Glenside libraries, of which the following is a representative sample:</p> <ul style="list-style-type: none"> Ahmed, N. Dawson, M. Smith, C. & Wood, E. (2007) <i>Biology of Disease</i>. New York: Taylor & Francis. 																				

- Lakhani, S.R., Dilly, S.A., Finlayson, C.J. & Dogan, A. *Basic Pathology*. London: Hodder Arnold.
- Phillips, J., Murray, P. & Kirk, P. *The Biology of Disease*. Oxford: Blackwell Science.

The following journals may also include relevant material and are available through the UWE Library:

- PNAS
- Nature
- Microbiology
- Infection, Disease and Health

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First SUVP Approval Date	17/5/2018			
Revision Approval Date		Version	1	APDG approval 26/1/18