



## MODULE SPECIFICATION

Part 1: Information			
Module Title	Human Health and Diseases		
Module Code	USSKNJ-15-2	Level	2
For implementation from	September 2020		
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, compulsory		
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><b>Immunology:</b> introduction to the immune system, autoimmune disorders and immunodeficiency.</p> <p><b>Infectious diseases:</b> infectious agents and diseases they cause.</p> <p><b>Epidemiology:</b> artificial control methods of various infectious diseases.</p> <p><b>Inherited health conditions:</b> diseases caused by autosomal, allosomal, mitochondrial and polygenic disorders.</p> <p><b>Exercise, nutrition and health:</b> 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>

<b>Generic Graduate Skill</b>	<i>Specific strand (eg presentation) - Optional</i>	<b>Introduced</b>	<b>Developed</b>	<b>Evidenced</b>
<b>1. Communication</b>	Written and oral communication [A, B]	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>2. Professionalism</b>	Group poster presentation [A]	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>3. Critical Thinking</b>	Case study analysis and evaluation [A]	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>4. Digital Fluency</b>	Digital assignment [A, B]	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>5. Innovative and Enterprising</b>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>6. Forward Looking</b>	Evaluation of current developments in infectious diseases [B]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7. Emotional Intelligence</b>	Group work and negotiating [A]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>8. Globally Engaged</b>	Evaluation of current developments in infectious diseases [B]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Part 3: Assessment: Strategy and Details

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.

A poster presentation (component A) based on two case studies will enable students to deepen their understanding of key health conditions and disorders. Students will also develop their ability to analyse and evaluate factors affecting human health.

The coursework consists (component B) 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.

Students have the opportunity to informally discuss their work with an academic member of staff during timetabled feed forward sessions.

Identify final timetabled piece of assessment (component and element)

#### Component B

% weighting between components A and B (Standard modules only)




**A:**

**50**

**B:**

**50**

**First Sit**

<b>Component A (controlled conditions)</b> <b>Description of each element</b>		<b>Element weighting</b> <b>(as % of component)</b>																																				
1. Poster presentation		100																																				
<b>Component B</b> <b>Description of each element</b>		<b>Element weighting</b> <b>(as % of component)</b>																																				
1. Essay (2500 words)		100																																				
<b>Resit (further attendance at taught classes is not required)</b>																																						
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<b>Part 4: Learning Outcomes &amp; KIS Data</b>																																						
Learning Outcomes	<p>On successful completion of this module students will be able to:</p> <ul style="list-style-type: none"> <li>• Discuss the structure and function of the human immune system (B)</li> <li>• Investigate pathogenesis of various infectious agents and evaluate epidemiology of the selected infectious diseases (B)</li> <li>• Analyse and discuss the impact of hereditary disorders (A)</li> <li>• Evaluate the role of exercise and nutrition in the maintenance of a healthy state (A)</li> <li>• Analyse, evaluate and present published data by employing effective science communication skills (A)</li> </ul>																																					
Key Information Sets Information (KIS)	<table border="1"> <thead> <tr> <th colspan="5"><b>Key Information Set - Module data</b></th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </thead> <tbody> <tr> <td colspan="4"><i>Number of credits for this module</i></td> <td style="text-align: center; border: 2px solid black;">15</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <th>Hours to be allocated</th> <th>Scheduled learning and teaching study hours</th> <th>Independent study hours</th> <th>Placement study hours</th> <th>Allocated Hours</th> </tr> <tr> <td style="text-align: center;">150</td> <td style="text-align: center;">45</td> <td style="text-align: center;">105</td> <td style="text-align: center;">0</td> <td style="text-align: center;">150</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;"></td> </tr> </tbody> </table>			<b>Key Information Set - Module data</b>										<i>Number of credits for this module</i>				15						Hours to be allocated	Scheduled learning and teaching study hours	Independent study hours	Placement study hours	Allocated Hours	150	45	105	0	150					
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150	45	105	0	150																																		
																																						
Contact Hours	<p>The table below indicates as a percentage the total assessment of the module which constitutes a;</p> <p><b>Written Exam:</b> Unseen or open book written exam  <b>Coursework:</b> Written assignment or essay, report, dissertation, portfolio, project or in class test  <b>Practical Exam:</b> Oral Assessment and/or presentation, practical skills assessment, practical exam (i.e. an exam determining mastery of a technique)</p>																																					

Total Assessment	Total assessment of the module:							
	Written exam assessment percentage				0%			
	Coursework assessment percentage				50%			
	Practical exam assessment percentage				50%			
					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"> <li>• Cohen, B.J. and Hull, K.L. (2015) Memmler's The Human Body in Health and Disease. 13<sup>th</sup> Ed. Philadelphia: Wolters Kluwer.</li> <li>• Waugh, A and Grant, A. (2014) Ross and Wilson Anatomy and Physiology in Health and Illness. 14<sup>th</sup> Ed. Churchill Livingstone: London.</li> </ul> <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"> <li>• Ahmed, N. Dawson, M. Smith, C. &amp; Wood, E. (2007) <i>Biology of Disease</i>. New York: Taylor &amp; Francis.</li> <li>• Lakhani, S.R., Dilly, S.A., Finlayson, C.J. &amp; Dogan, A. <i>Basic Pathology</i>. London: Hodder Arnold.</li> <li>• Phillips, J., Murray, P. &amp; Kirk, P. <i>The Biology of Disease</i>. Oxford: Blackwell Science.</li> </ul> <p>The following journals may also include relevant material and are available through the UWE Library:</p> <ul style="list-style-type: none"> <li>• PNAS</li> <li>• Nature</li> <li>• Microbiology</li> <li>• Infection, Disease and Health</li> </ul>							

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First CAP Approval Date	17/5/2018			
Revision CAP Approval Date Update this row each time a change goes to CAP		Version	1	APDG approval 26/1/18
	06/11/2019		2	