



## MODULE SPECIFICATION

Part 1: Information			
Module Title	Human Anatomy and Physiology		
Module Code	UZYRGS-15-0	Level	Level 3
For implementation from	2020-21		
UWE Credit Rating	15	ECTS Credit Rating	7.5
Faculty	Faculty of Health & Applied Sciences	Field	Allied Health Professions
Department	HAS Dept of Allied Health Professions		
Module Type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co-requisites	None		
Module Entry Requirements	None		
PSRB Requirements	None		

Part 2: Description
<p><b>Educational Aims:</b> See Learning Outcomes.</p> <p><b>Outline Syllabus:</b> Mode of action of enzymes:-</p> <p>Importance of enzymes in controlling the catabolic and anabolic reactions of metabolism            Models of enzyme action and inhibition            Effects of temperature, pH, substrate and enzyme concentration</p> <p>Human digestive system and its functions:-</p> <p>Structure of digestive system            Peristalsis            Sources, substrates and necessary conditions for some major enzymes of the digestive system</p> <p>Human reproductive system and its function:-</p>

## STUDENT AND ACADEMIC SERVICES

Role of hormones in the physical changes occurring at puberty  
Structure and function of main features of female and male reproductive system  
Hormonal interactions and menstrual cycle  
Process of fertilisation including structure and function of sperm cells and oocytes  
Structure and function of the placenta during pregnancy  
Foetal development

### Homeostasis:-

Importance of homeostasis  
Main systems responsible for the maintenance of a constant internal environment  
Negative feedback  
Thermoregulation  
The liver and its role in homeostasis with reference to blood glucose levels, deamination and the formation of the urea  
The kidneys and their role with reference to removing waste products and osmoregulation

### Nervous system:-

Structure and function of motor and sensory neurones  
Nature of nerve impulse transmission

### Endocrine system:-

Function of endocrine glands including the position and role of the main endocrine glands  
Mechanisms of hormonal control with reference to insulin, glucagon and adrenaline

### Defence against infection:-

Roles of skin, mucous membranes and clotting of blood in preventing the invasion of micro-organisms  
Antigens and antibodies and their function  
Artificial enhancement of defence against infection

### Nature of infective and parasitic diseases:-

Viral, parasitic and bacterial diseases  
Transmission  
Treatment, prevention and control

**Teaching and Learning Methods:** This module operates on the basis of 150 hours of study in total.

This includes 90 hours of scheduled teaching:-

Lectures and workshops 36 hours  
Laboratory sessions 36 hours  
Tutorials 18 hours

Scheduled learning may include a combination of face to face and online lectures, seminars, tutorials, project supervision, demonstration, practical classes and workshops.

Independent learning includes hours engaged with essential reading, assignment preparation and completion etc. These sessions constitute an average time per level as indicated in the table below.

## STUDENT AND ACADEMIC SERVICES

Part 3: Assessment			
Regular formative assessment will take place throughout the module delivery to enable students to gauge their progress and learning to date.			
Summative (Final) assessment will be by means of a 1.5 hour exam and submission of a 1,250 word report on a specific topic.			
First Sit Components	Final Assessment	Element weighting	Description
Examination - Component A	✓	70 %	Exam (1.5 hour)
Report - Component B		30 %	Report (1,250 words)
Resit Components	Final Assessment	Element weighting	Description
Report - Component B		30 %	Report (1,250 words)
Examination - Component A	✓	70 %	Exam (1.5 hour)

Part 4: Teaching and Learning Methods															
Learning Outcomes	On successful completion of this module students will achieve the following learning outcomes:														
	<table border="1"> <thead> <tr> <th>Module Learning Outcomes</th> <th>Reference</th> </tr> </thead> <tbody> <tr> <td>Demonstrate an understanding of metabolic and energy pathways</td> <td>MO1</td> </tr> <tr> <td>Outline the specific regulatory systems and explain the characteristics of homeostasis</td> <td>MO2</td> </tr> <tr> <td>Describe the structure of the digestive, reproductive, nervous and endocrine systems and explain their functions</td> <td>MO3</td> </tr> <tr> <td>Outline the body's defence mechanisms against infection and relate this to pathology</td> <td>MO4</td> </tr> <tr> <td>Relate biological theory to health and well-being</td> <td>MO5</td> </tr> <tr> <td>Utilise basic information retrieval skills</td> <td>MO6</td> </tr> </tbody> </table>	Module Learning Outcomes	Reference	Demonstrate an understanding of metabolic and energy pathways	MO1	Outline the specific regulatory systems and explain the characteristics of homeostasis	MO2	Describe the structure of the digestive, reproductive, nervous and endocrine systems and explain their functions	MO3	Outline the body's defence mechanisms against infection and relate this to pathology	MO4	Relate biological theory to health and well-being	MO5	Utilise basic information retrieval skills	MO6
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	Outline the body's defence mechanisms against infection and relate this to pathology	MO4													
	Relate biological theory to health and well-being	MO5													
Utilise basic information retrieval skills	MO6														
Contact Hours	<b>Independent Study Hours:</b>														
	Independent study/self-guided study	60													
	<b>Total Independent Study Hours:</b>	60													
	<b>Scheduled Learning and Teaching Hours:</b>														
	Face-to-face learning	90													

## STUDENT AND ACADEMIC SERVICES

	<b>Total Scheduled Learning and Teaching Hours:</b>	90
	<b>Hours to be allocated</b>	150
	<b>Allocated Hours</b>	150
Reading List	<i>The reading list for this module can be accessed via the following link:</i> <a href="https://uwe.rl.talis.com/index.html">https://uwe.rl.talis.com/index.html</a>	

### **Part 5: Contributes Towards**

This module contributes towards the following programmes of study: