



Module Specification

Human Anatomy and Physiology

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Part 1: Information

Module title: Human Anatomy and Physiology

Module code: UZYRGS-15-0

Level: Level 3

For implementation from: 2023-24

UWE credit rating: 15

ECTS credit rating: 7.5

Faculty: Faculty of Health & Applied Sciences

Department: HAS School of Health and Social Wellbeing

Partner institutions: None

Field: Allied Health Professions

Module type: Module

Pre-requisites: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: Not applicable

Features: Not applicable

Educational aims: See Learning Outcomes.

Outline syllabus:

Mode of action of enzymes:-

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

Human digestive system and its functions:-

Structure of digestive system

Peristalsis

Sources, substrates and necessary conditions for some major enzymes of the digestive system

Human reproductive system and its function:-

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

Part 3: Teaching and learning methods

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.

Module Learning outcomes: On successful completion of this module students will achieve the following learning outcomes.

MO1 Demonstrate an understanding of metabolic and energy pathways

MO2 Outline the specific regulatory systems and explain the characteristics of homeostasis

MO3 Describe the structure of the digestive, reproductive, nervous and endocrine systems and explain their functions

MO4 Outline the body's defence mechanisms against infection and relate this to pathology

MO5 Relate biological theory to health and well-being

MO6 Utilise basic information retrieval skills

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 60 hours

Face-to-face learning = 90 hours

Total = 150

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/index.html) via the following link <https://uwe.rl.talis.com/index.html>

Part 4: Assessment

Assessment strategy: 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 2 hour timed assignment.

Assessment tasks:

Written Assignment (First Sit)

Description: Timed assignment (2 hours)

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4, MO5, MO6

Written Assignment (Resit)

Description: Timed assignment (2 hours)

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4, MO5, MO6

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Health Professions [COBC] Found 2023-24