

ZPHI H1101: Physiology

Module Title:			Physiology			
Language of Instruction:		n:	English			
Credits:		10				
NFQ Level:		6				
Module Deli	vered In		No Programmes			
Teaching & Learning Strategies:			This course will be delivered in three theory classes of one hour duration for thirty weeks and 1 practical hour per week for fifteen weeks in term 1. Lectures will include power point presentations, group discussions, and any course-related issue or questions that may arise will be discussed at lectures. Practicals will be delivered in the Physiology Laboratory, lecture and lab notes will be available on Blackboard.			
Module Aim:			To provide the student with an understanding of the function and control of the cardiovascular, respiratory integumentary, renal, endocrine and digestive systems.			
Learning Ou	Learning Outcomes					
On successf	On successful completion of this module the learner should be able to:					
LO1	Demonstrate a detailed knowledge and understanding of the physiology behind the cardiovascular, respiratory, integumentary, urinary, endocrine and digestive organ systems of the body					
LO2	Have a broad overview of the context of these organ systems with regards to other modules on their prorgramme					
LO3	Demonstrate an understanding of the rationale behind certain cardiovascular and respiratory investigatory procedures		understanding of the rationale behind certain cardiovascular and respiratory investigatory procedures			
LO4	.04 Carry out laborat		atory investigations to examine certain cardiovascular and respiratory functions			
Pre-requisit	Pre-requisite learning					
<i>Module Recommendations</i> This is prior learning (or a practical skill) that is recommended before enrolment in this module.						
No recommendations listed						
Incompatible Modules These are modules which have learning outcomes that are too similar to the learning outcomes of this module.						
No incompatible modules listed						
Co-requisite Modules						
No Co-requisite modules listed						
Requirements This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.						
No requirements listed						



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Module Content & Assessment

Indicative Content

Theory Section 1 - Term 1

In depth physiology of the cardiac system, examining the functioning of the heart in detail. Detailed physiology of the blood system and how it relates to cardiac and respiratory system. Comprehensive physiology of the respiratory system and how it relates to the cardiac and blood systems.

Theory Section 2.1 The Integumentary System Structure and function of integumentary system. Skin wound healing, skin cancers, burns, ageing

Theory Section 2.2: The Urinary System

Structure and function of the urinary system, and detailed physiology of the processes involved in urine production and micturition. Overview of processes involved in fluid, electrolyte and acid-base balance

Theory Section 2.3: The Endocrine System

Classification of hormones and overview of the location of the major endocrine glands. Major actions and feedback regulation of the hormones produced by the Hypothalamus, Pituitary, Thyroid, Parathyroid, Adrenal glands and Pancreas

Theory Section 2.4. The Digestive System:

Overview of the structure, function and actions of the digestive tract and of the accessory structures and organs including the salivary glands, pancreas, liver and gallbladder

Practical

1. Electrocardiograph; students will carry out ECG's, interrupt data and report their findings. 2. Arterial Blood Pressure examination; students will learn how to take blood pressure and interrupt their findings 3. Lung volumes and capacities; students will carry out lung volume capacities and interrupt the data

Assessment Breakdown	%
Continuous Assessment	30.00%
Practical	10.00%
End of Module Formal Examination	60.00%

Continuous Assessment					
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Multiple Choice Questions	There will be two continuous assessments, one midway during term 1 and the other mdiway during term 2, each worth 15%	1,2	30.00	Week 6	

No Project

Practical						
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date		
Practical/Skills Evaluation	Laboratory practicals	3,4	10.00	n/a		
End of Module Formal Examination				-		

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	There will be a final written paper of 3 hours duration, including multiple choice sections and long questions	1,2,3	60.00	End-of- Semester

SETU Carlow Campus reserves the right to alter the nature and timings of assessment



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Module Workload

Workload: Full Time		
Workload Type	Frequency	Average Weekly Learner Workload
Lecture	30 Weeks per Stage	3.00
Laboratory	30 Weeks per Stage	0.50
Estimated Learner Hours	30 Weeks per Stage	2.50
	Total Hours	180.00