

ZPHI H4102: Exercise Physiology 3

Module Title:			Exercise Physiology 3					
Language of Instruction:		n:	English					
Credits: 5		5						
0		-						
NFQ Level: 8		8						
Module Delivered In			No Programmes					
Teaching & Learning Strategies:			This module will be taught in two theory classes of one hour duration and one two hour practical/laboratory per week for 15 weeks. The theory classes will include lecture, Q&A, group discussion, digital content, and guest lecturers where appropriate. Practical work will involve demonstration, physiological assessment, group data collection, data handling, analyses and presentation, interpretation of physiological data and discussion.					
Module Aim:			To provide the student with the scientific knowledge, physiological laboratory skills and experience in preparation of the athlete for performance					
Learning Ou	itcomes							
On successful completion of this module the learner should be able to:								
			its of, and acute and chronic adaptations to, various training types for developing optimal performance, plication of the Lactate Threshold to endurance training, HIIT, MAS for team/individual athletes etc.					
LO2	Explain the the athlete	effe	cts of environmental conditions (e.g. altitude, heat, cold, hyperbaric) on human physiology and, in particular,					
LO3	Discuss the problems associated with exercise performance in varying environmental conditions (e.g. altitude, heat, hyperbaric) and formulate recommendations for optimal athletic performance in these conditions							
			of biological rhythms and sleep in the preparation of athletes for competition, and, discuss hormonal ysiological processes regarding adaptation to exercise/conditions and overtraining syndrome.					
LO5 Develop researc			ch and writing skills through the completion of a number of laboratory practical experiments.					
Pre-requisite learning								
Module Recommendations This is prior learning (or a practical skill) that is recommended before enrolment in this module.								
No recommendations listed								
<i>Incompatible Modules</i> 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.								
Successful completion of year 3 or equivalent								



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Module Content & Assessment

Indicative Content											
Training types: Lactate threshold, HIIT, MAS etc. n/a											
Thermoregulation and exercise in the heat and cold n/a											
Altitude, exercise at altitude and altitude training n/a											
The hyperbaric environment n/a											
Biological rhythms and performance n/a											
Recovery from exercise n/a											
Practical Determination of lactate threshold and heart rate response to incremental exercise, comparison of anaerobic capacity and power, HR response during maximal anaerobic speed training, force-velocity resistance training											
Assessment Breakdown						%					
Practical						40.00%					
End of Module Formal Examination 60.0								0.00%			
Special Regulation											
Students must achieve a minim	um grade	(35%) in both the practical/CA and	final examinati	on							
No Continuous Assessment											
No Project											
Practical											
Assessment Type		Assessment Description		Outcome addressed			% of total	Assessment Date			
Practical/Skills Evaluation		Laboratory Report		1,5			20.00	Sem 1 End			
Practical/Skills Evaluation		Laboratory Report Presentation		1,5			20.00	n/a			
End of Module Formal Exami	nation										
Assessment Type Asses		ment Description	Outcome addressed		% of total	Assessment Date					
Formal Exam	2 hour	final	1,2,3,4		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	1.00
Laboratory	30 Weeks per Stage	1.00
Estimated Learner Hours	30 Weeks per Stage	1.33
	Total Hours	100.00