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SPRT: Human Performance and Athletic Assessment

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Module Title:			Human Performance and Athletic Assessment	
Language of Instruction:		n:	English	
Credits: 5		5		
NFQ Level: 8		8		
Module Deli	vered In		1 programme(s)	
Teaching & Learning Strategies:			This module will be delivered through two one-hour lectures and one two-hour practical each week. Lectures will explore laboratory conduct, measurement and data handling, game/event demands, methods and protocols of physiological and biomechanical assessment of the athlete, normative data and performance characteristics, interpretation and analysis of test data, setting performance targets and evidence-based interventions to improve performance. The practical component will allow students to develop laboratory skills, problem solving abilities and gain skills essential for working in a performance/health testing environment. The classes are designed to promote deep learning via investigation of a problem, application of prior knowledge, analysis of results, synthesis of literature and reflection, thus, generating new knowledge. The practical work will comprise demonstration and instruction in testing methods, and data interpretation and analysis, and reporting. The primary focus, however, will be on developing students' practical skills, competence and confidence in conducting age- and competitive level appropriate sport-specific tests, interpreting the data and providing an evidence-based programme for improving performance. Independent learning will involve data analysis tasks, reading, and report writing.	
Module Aim:			This module aims to develop the student's knowledge and practical skills, through the use of a multi- disciplinary approach, to complete an appropriate physiological assessment of the athlete, evaluate the data and prescribe an evidence-based programme to develop the athlete and improve athletic performance.	
Learning Ou	itcomes			
On successfu	ul completic	on of th	nis module the learner should be able to:	
LO1	Perform graded incremental/maximal cardiorespiratory tests on the athlete, determine thresholds (ventilatory/lactate) and prescribe training for improved performance		incremental/maximal cardiorespiratory tests on the athlete, determine thresholds (ventilatory/lactate) and g for improved performance	
LO2 Select and performance based assessm force plate and		d perfo sessme e and a	orm the appropriate methods and protocols for physiological assessment from a variety of field and laboratory ents of aerobic capacity, speed, power and agility, including various strength and power test protocols on a analyse the force time data.	
LO3 Analyse, preser performance up		oresen	t and communicate (orally/written report) test data and evidence based recommendations to improve on completion of the analysis.	
Pre-requisite	e learning			
Module Rec This is prior l	ommendat earning (or	ions a prac	ctical 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.				
Successful completion of year 3 or equivalent				



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Module Content & Assessment

Indicative Content

Human performance and athletic assessment in sports

The role of the sport scientist, commonly used assessments, sport specific assessments

Laboratory Practice

Quality control, laboratory practices, Preparation of the testing environment, preparation of the athlete,

Test validity and reliability Test protocols, reliability and validity of test protocols, determining and reporting validity, typical error and reliability.

Needs Analysis

How to conduct a needs analysis for sport/event, the role of normative data, test and game data in prescription of training recommendations, and training monitoring.

Test Protocols

Conducting tests and recording data

Interpretation, analysis and reporting of test results

Analysis of data, displaying data, generating the report, setting targets, using the data to monitor the athlete

Provision of recommendations

Researching, writing and programming for improved performance

Practical

Lactate threshold testing, prescribing exercise programmes using lactate thresholds 2. Isokinetic and biomechanical assessments for sports 3. Strength assessment 4. Power assessment 5. Speed and agility 6. Field based physiological assessments

Assessment Breakdown	%
Project	50.00%
Practical	50.00%

Special Regulation

Students must achieve a minimum grade (35%) in both project and practical assessments

No Continuous Assessment

Project				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Project	A detailed case study outlining engagement with an athlete for the identification and development of practical recommendations to improve performance.	1,2,3	50.00	End-of- Semester

Practical				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Practical/Skills Evaluation	Conduct of appropriate sport/event specific physiological assessment protocols on an athlete demonstrating due consideration for good laboratory practice and communication of results	2,3	50.00	Week 14

No End of Module Formal Examination

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	12 Weeks per Stage	2.00	
Laboratory	12 Weeks per Stage	2.00	
Estimated Learner Hours	15 Weeks per Stage	5.13	
	Total Hours	125.00	

Module Delivered In				
Programme Code	Programme	Semester	Delivery	
CW_SASPS_B	Bachelor of Science (Honours) in Sport and Exercise Science	7	Mandatory	