

SPRT: Sport and Exercise Biomechanics 1

Module Title:			Sport and Exercise Biomechanics 1		
Language of Instruction:		n:	English		
Credits:	redits: 5				
NFQ Level:		6			
		0			
Module Deli	vered In		2 programme(s)		
Teaching & Strategies:					
Module Aim	:		To develop the student's knowledge and understanding of biomechanics when applied to sport and exercise. To introduce the student to equipment and protocols related to quantitative analysis of human movement.		
Learning Ou	itcomes				
On successfu	ul completior	n of th	nis module the learner should be able to:		
LO1	Explain con movement		s in relation to linear and angular kinetics and kinematics; work, power, and energy when applied to human		
LO2	Develop th	ie abil	ity to employ experimental biomechanical techniques to assess human movement.		
LO3	Collect, an	alyze	and interpret biomechanical data of a human movement and present the findings.		
Pre-requisite	e learning				
Module Rec This is prior I			tical skill) that is recommended before enrolment in this module.		
No recommendations listed					
Incompatible		h have	e learning outcomes that are too similar to the learning outcomes of this module.		
No incompati					
		5 113100	u		
Co-requisite		Batt	,		
No Co-requis	site modules	listed	1		
Requiremen This is prior I		a prac	tical skill) that is mandatory before enrolment in this module is allowed.		
Successful c	ompletion of	year	1 or equivalent.		



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Module Content & Assessment

Indicative Content

Theory

Literature and related equations for the following topics: linear and angular kinetics and kinematics; projectiles; work, power, and energy.

Practical

The practical classes will develop the student's ability to collect and assess quantitative biomechanical data using appropriate equipment and protocols. The student will learn how to undertake a quantitative analysis of human movement.

Assessment Breakdown	%
Continuous Assessment	60.00%
Project	40.00%

Special Regulation

Students must achieve a minimum grade (35%) in the project and CA.

Continuous As	us Assessment			
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Examination	Two written examinations to be held during lecture time. Each examination will weigh 30% of the total continuous assessment weight.	1,2	60.00	n/a

Project				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Project	A 2000 word typed project on a topic covered during practical class time.	2,3	40.00	n/a
No Practical				
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
Practicals	12 Weeks per Stage	2.00
Independent Learning	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	4	Mandatory	
CW_SASAC_B	Bachelor of Science (Honours) in Strength and Conditioning	4	Mandatory	