

Summary Information

Module Code	6102SPOSCI
Formal Module Title	Sports Biomechanics
Owning School	Sport and Exercise Sciences
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 6
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Sport and Exercise Sciences

Learning Methods

Learning Method Type	Hours
Lecture	22
Practical	15
Workshop	11

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-CTY	CTY	September	12 Weeks

Aims and Outcomes

Aims	The aim of this module is for students to gain the knowledge and skills necessary to evaluate sports biomechanics in performance and injury contexts
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Conduct an experimental analysis in sports biomechanics and interpret the findings
MLO2	2	Critically evaluate sports biomechanics concepts and literature
MLO3	3	Critique measurement tools used in biomechanical analysis

Module Content

Outline Syllabus	Sports Performance BiomechanicsSports Injury BiomechanicsBiomechanical Modelling Lab sessions using different biomechanical techniques.Data collection and analysis workshops
Module Overview	The aim of this module is for you to gain the knowledge and skills necessary to evaluate sports biomechanics in performance and injury contexts.
Additional Information	You will focus on the quantification of sports skills from both a performance and injury prevention perspective. You will be introduced to key data collection methods and analysis software used in sports biomechanics research and applications to specific sports and injury scenarios. You will collect kinematic data in the laboratory and understand how the data is processed towards final assessment of the performance or risk factors for injury. Sports injury aspects are further expanded by using musculo-skeletal modelling software.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Consultancy report	50	0	MLO1
Centralised Exam	Sports biomechanics exam	50	2	MLO2, MLO3

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Mark Robinson	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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