

Module Information

2022.01, Approved

Summary Information

Module Code	7115SPOSCI
Formal Module Title	Biomechanical Assessment in Sport and Exercise
Owning School	Sport and Exercise Sciences
Career	Postgraduate Taught
Credits	20
Academic level	FHEQ Level 7
Grading Schema	50

Teaching Responsibility

LJMU Schools involved in Delivery
Sport and Exercise Sciences

Learning Methods

Learning Method Type	Hours
Lecture	14
Practical	10

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

Aims	This module aims to provide the conceptual and practical knowledge base that develops and extends the understanding of biomechanical assessment. Biomechanical assessment has a role in performance evaluation, in injury prevention, and in injury rehabilitation. This module exposes students to the current issues relating to biomechanical assessment in a theoretical and practical context and prompts self-awareness of the skills required to conduct biomechanical assessments.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Propose an evidence-based biomechanical assessment protocol in the context of performance enhancement, injury prevention, or injury rehabilitation.
MLO2	2	Audit the skills required to conduct biomechanical assessments.
MLO3	3	Conduct a biomechanical assessment and produce a suitable report.

Module Content

Outline Syllabus	Module content includes:Biomechanical Assessment FundamentalsUndertaking a skills auditInjury Screening Diagnostics and RiskPerformance EnhancementAssessment of Sports EquipmentReturn to play assessmentFunctional Rehabilitation of muscle strengthGuest lectures from expert practitioners
Module Overview	This module aims to provide a conceptual and practical knowledge base that develops and extends the understanding of biomechanical assessment. It also exposes you to a large variety of tools, each time gaining a better understanding of the theoretical framework that justifies the use of such tools.
Additional Information	Our world-class Biomechanics laboratories house cutting edge equipment waiting for you to use. Optoelectronic cameras enable 3D movement capture, force and pressure platforms give information about global and local loads and wearable accelerometers. See our Biomechanics section on the RISES website for staff research which feeds into your studies.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Assessment proposal	50	0	MLO1, MLO2
Report	Assessment report	50	0	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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