

Summary Information

Module Code	6105SPS
Formal Module Title	Clinical 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	18
Practical	8
Workshop	12

Module Offering(s)

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

Aims and Outcomes

Aims	The aim of this module is for students to gain the knowledge and skills necessary to evaluate (1) gait through quantitative analysis and (2) the role of muscle and tendon function and adaptation that contribute to locomotor impairments.
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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 of human gait and interpret the findings
MLO2	2	Critically evaluate the role of muscle and tendon function and adaptation

Module Content

Outline Syllabus	Introduction to gait analysis Observational gait analysis and temporal/spatial parameters Methods of 3D movement analysis Normal gait Collection of kinematic data for assessment Invited speaker on clinical gait analysis in cerebral palsy Relationship between muscle structure and function Muscle and tendon function & adaptation Voluntary activation of muscle Measurement techniques for muscle and tendon function
Module Overview	
Additional Information	BUES mapped.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Gait analysis report	50	0	MLO1
Centralised Exam	Clinical populations exam	50	2	MLO2

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Gabor Barton	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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