

#### Summary Information

Module Code	6101SPS
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	13
Seminar	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
------	--

## 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	This module covers sports performance and injury contexts alongside technical training with key biomechanical tools. Sports Performance; Deterministic models; Cycling biomechanics; Footwear Methods in Sports Biomechanics; 3D Motion Analysis – QTM; Segmental Modelling - Visual 3D; Inertial Measurement Units Injury; Injury epidemiology, tissue loading, mechanisms; Injury prevention, risk factors, screening and prediction; Player Load Monitoring Current issues in sports biomechanics
Module Overview	
Additional Information	BUES mapped.

### Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Consultancy report	50	0	MLO1
Centralised Exam	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
--------------	--------------------------	-----------