Module code: MOD010863	**Version:** 1 **Date Amended:** 07/Mar/2025

1. Module Title

Measurement and Evaluation in Human Performance

2a. Module Leader

David Dixon

2b. School

School of Psychology, Sport and Sensory Sciences

2c. Faculty

Faculty of Science and Engineering

3a. Level

4

3b. Module Type

Standard (fine graded)

4a. Credits

15

4b. Study Hours

150

5. Restrictions

Type	Module Code	Module Name	Condition
Pre-requisites:	None		
Co-requisites:	None		
Exclusions:	None		
Courses to which this module is restricted:			

LEARNING, TEACHING AND ASSESSMENT INFORMATION

6a. Module Description

This module will introduce you to data retrieval; measurement; analysis and interpretation; health and fitness assessment whilst working with athletes in a field and in lab-based settings. You'll be carrying out pre-screening tests and outlining risk assessments and general procedures of working with an athlete from start to finish. You'll gain an introduction to the concept of central tendency and dispersion, units of measurements, correlation, hypothesis and significance testing, measurement validity, reliability, and error. You'll then learn how to educate fellow students to interpret data from testing, understand what the data is, and be able to synthesise and analyse data from testing in a way that can be reported in a user-friendly style.

6b. Outline Content

Indicative content will include:
- Data Analysis and Interpretation
- Statistical methods for performance data analysis
- Interpreting test results and performance trends
- Using data to inform training programs and performance improvement
- Reliability and Validity of Tests
- Concepts of reliability and validity in performance testing
- Methods to assess and ensure test reliability and validity
- Sources of error and how to minimize them
- Ethical Considerations and Best Practices
- Informed consent and confidentiality
- Ethical issues in testing and evaluation
- Best practices in conducting performance assessments
- Risk Assessment and Health and Safety Protocols
- Identifying potential hazards in testing environments
- Developing and implementing risk assessments
- Health and safety protocols to ensure participant well-being
- Case Studies and Practical Applications
- Analysis of real-world case studies
- Practical sessions and hands-on experience with performance testing
- Application of theoretical knowledge to practical scenarios
- Current Trends and Future Directions

6c. Key Texts/Literature

The reading list to support this module is available at: https://readinglists.aru.ac.uk/

6d. Specialist Learning Resources

N/A

7. Learning Outcomes (threshold standards)

No.	Type	On successful completion of this module the student will be expected to be able to:
1	Knowledge and Understanding	Demonstrate the competency to conduct thorough risk assessments and implement health and safety protocols during sport-specific athlete testing.
2	Intellectual, practical, affective and transferrable skills	Ensure a safe testing environment by identifying potential hazards, mitigating risks, and responding effectively to emergencies.
3	Knowledge and Understanding	Demonstrate the skills to analyse and interpret the results of sport-specific athlete tests.
4	Intellectual, practical, affective and transferrable skills	Provide actionable insights and recommendations for performance improvement, injury prevention, and training program adjustments based on the data collected.

8a. Module Occurrence to which this MDF Refers

Year	Occurrence	Period	Location	Mode of Delivery
2025/6	ZZF	Template For Face To Face Learning Delivery		Face to Face

8b. Learning Activities for the above Module Occurrence

Learning Activities	Hours	Learning Outcomes	Details of Duration, frequency and other comments
Lectures	30	1-4	3-hour lecture per week
Other teacher managed learning	10	1-4	Individual and small group seminars, and peer discussion/collaboration opportunities
Student managed learning	110	1-4	Additional reading, tasks, synthesis and assessment preparation
TOTAL:	150		

9. Assessment for the above Module Occurrence

Assessment No.	Assessment Method	Learning Outcomes	Weighting (%)	Fine Grade or Pass/Fail	Qualifying Mark (%)
010	Coursework	1-4	100 (%)	Fine Grade	30 (%)
Report 1500 words					

Assessment components for Element 010				
Component No.	Assessment Title	Submission Method	Weighting (%)	Components needed for Mark Calculation?
010/1	Analyse Sample data	Canvas	50 (%)	All
010/2	Produce a report for coaches providing suggestions based on data in report	Canvas	50 (%)	

In order to pass this module, students are required to achieve an overall mark of 40% (for modules at levels 3, 4, 5 and 6) or 50% (for modules at level 7*).

In addition, students are required to:
(a) achieve the qualifying mark for each element of fine graded assessment as specified above
(b) pass any pass/fail elements

[* the pass mark of 50% applies for all module occurrences from the academic year 2024/25 – see Section 3a of this MDF to check the level of the module and Section 8a of this MDF to check the academic year]