Prifysgol Wrecsam
Wrexham University

Module specification

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Module Code	SPT702
Module Title	Research Practice and Examination in Sport & Exercise Science
Level	7
Credit value	20
Faculty	FSLS
HECoS Code	100433
Cost Code	GASP
Pre-requisite module	N/A

Programmes in which module to be offered

Programme title	Core/Optional/Standalone
MSc Sport & Exercise Sciences (both pathways)	Core
MSc Football Science & Coaching	Core
MSc Strength & Conditioning	Core

Breakdown of module hours

Learning and teaching hours	11 hrs
Placement tutor support hours	0 hrs
Supervised learning hours e.g. practical classes, workshops	10 hrs
Project supervision hours	0 hrs
Active learning and teaching hours total	**21 hrs**
Placement hours	0 hrs
Guided independent study hours	179 hrs
Module duration (Total hours)	**200 hrs**

Module aims

- Provide students with an advanced understanding of the key principles and theoretical foundations of various research methodologies used in sport.

- Enable students to critically evaluate and compare different research designs and approaches, understanding their strengths, limitations, and appropriate contexts of use.

- Equip students with practical skills in designing, conducting, and analysing research, including quantitative, qualitative, and mixed methods approaches.

- Develop students' abilities to effectively manage, and analyse data using relevant tools and software, ensuring accuracy and reliability in research findings.

- Enhance students' skills in effectively communicating research findings through oral presentations, targeting both academic and non-academic audiences

Module Learning Outcomes

At the end of this module, students will be able to:

1	Conduct appropriate analysis of presented data.
2	Present analysed data in a format that is of publishable standard.
3	Produce a research poster that is engaging for audiences that are specialist and non-specialist.
4	Effectively present a research poster by clearly communicating the research objectives, methodology, results, and conclusions to an audience.

Assessment

Indicative Assessment Tasks:
This section outlines the type of assessment task the student will be expected to complete as part of the module. More details will be made available in the relevant academic year module handbook.

Assessment 1: Students will be given a variety of research data and scenarios, both qualitative and quantitative to choose from. After choosing one, they will conduct appropriate analysis of the data and present it in the format of a research poster. The posters will then be presented at a student led conference

Assessment number	Learning Outcomes to be met	Type of assessment	Duration/Word Count	Weighting (%)	Alternative assessment, if applicable
1	1 - 4	Coursework	10 minutes / 1,000 words	100	N/A

Derogations

N/A

Learning and Teaching Strategies

A blended learning approach will be utilised for the delivery of this module. Students will often be provided with short, pre-recorded presentations to watch prior to attending face-to-face sessions with the aim of introducing them to the topic beforehand. There is an even split with lectures and workshops with students utilising PC labs and a variety of data analysis software.

Welsh Elements

The programmes will be delivered through the medium of English. Students are entitled to submit assessments in the medium of Welsh. If students wish to converse in Welsh, they will be assigned a Welsh speaking personal tutor. Support can also be made available for Welsh language students via Coleg Cymraeg Cenedlaethol where students can present their research at their conferences through the Welsh Language. Students will be sign posted to relevant opportunities via the VLE and MS Teams page.

Indicative Syllabus Outline

- Research paradigms and epistemology
- Research designs – experimental, descriptive, correlational, action research, case studies, causal, cohort, cross-sectional, exploratory, meta-analysis, systematic reviews, observational, sequential.
- Artificial Intelligence and how it can be used in academia
- Qualitative inquiry – interviews, focus groups, ethnographic research
- Qualitative analysis – thematic analysis, using NVIVO
- Quantitative methods – questionnaires, experiments, survey, audits, quasis etc
- Quantitative analysis – hypothesis testing, SPSS – difference testing, relationship testing, ANOVA and ANCOVA
- Data Analytics and implications within the sport sciences
- Statistical power and power calculations

Indicative Bibliography

Please note the essential reads and other indicative reading are subject to annual review and update.

Essential Reads:

Jones, I. (2022). *Research Methods for Sports Studies*. 4th ed. London: Routledge

Other indicative reading:

Field, A. (2024). *Discovering Statistics Using IBM SPSS Statistics*. 6th ed. London: SAGE Publications Ltd.

Kang, H. (2021). Sample size determination and power analysis using the G*Power software. *Journal of Education Evaluation for Health Professionals*, 18(17), DOI: https://doi.org/10.3352/jeehp.2021.18.17.

Atkinson, M. (2012). *Key Concepts in Sport and Exercise Research Methods*, London: SAGE Publications ltd

Administrative Information

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Initial approval date	20.11.2024
With effect from date	September 2025
Date and details of revision	08.01.2026 AM0 Modification to revise the Indicative Syllabus Outline section.
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