PRIFYSGOL glyndŵr UNIVERSITY

MODULE SPECIFICATION FORM

Module Title:	Applied Performance Analysis	Level:	5	Credit Value:	20

Module code:	FAW505	**Is this a new module?** Yes	Code of module being replaced:	

Cost Centre:	GASP	**JACS3** code:	C600

Trimester(s) in which to be offered:	1, 2 and 3	**With effect from:**	September 2017

School:	School of Social and Life Sciences	**Module Leader:**	Dr Tim Donovan

Scheduled learning and teaching hours	35 hrs
Guided independent study	165 hrs
Placement	0 hrs
Module duration (total hours)	200 hrs

Programme(s) in which to be offered	Core	Option
BSc. (Hons.) Sports Coaching and Performance Development	✓	☐
BSc (Hons.) Football Coaching and the Performance Specialist	✓	☐
BSc (Hons) Sport and Exercise Sciences	☐	✓

Pre-requisites
None

Office use only

Initial approval August 2016

APSC approval of modification May 2017 Version 2

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Module Aims
This module aims to: • Apply the biomechanical principles identified in the module 'Introduction to Performance Analysis' to sport specific activities. • Highlight the importance of developing a range of 'real-time' assessment techniques to assist performance. • Expose students to a range of practical issues in conducting performance analysis.

Intended Learning Outcomes

Key skills for employability

KS1	Written, oral and media communication skills
KS2	Leadership, team working and networking skills
KS3	Opportunity, creativity and problem solving skills
KS4	Information technology skills and digital literacy
KS5	Information management skills
KS6	Research skills
KS7	Intercultural and sustainability skills
KS8	Career management skills
KS9	Learning to learn (managing personal and professional development, self-management)
KS10	Numeracy

At the end of this module, students will be able to		Key Skills	
1	Design and evaluate a notational analysis system and apply it to analyse an aspect of sport performance.	KS1	KS2
		KS4	
2	Utilise notational analysis data to provide technical or tactical information to enhance future performances.	KS1	KS3
		KS5	KS10
3	Using mechanical principles analyse a sport technique.	KS1	KS4
		KS6	
4	Evaluate the impact of mechanical principles on the performance of a sports technique using quantitative and/or qualitative methods.	KS4	KS10
		KS5	KS10

Transferable/key skills and other attributes
Working independently, working in groups, academic writing skills, practical and laboratory skills, numeracy, and the use of IT.

Derogations
N/A

Assessment:

Assessment 1: Coursework
In small groups the students will produce a report that describes the design of a notation analysis system and use it to evaluate the technical or tactical aspects in sport. They will use this information to design an appropriate system for assessing sporting performance, use the template to analyse a sport and describe how the outcomes of the analysis can be used to enhance performance.

Assessment 2: Report
The students will produce an individual submission that describes the key technical/coaching elements of a sporting action. They will analyse the technical/coaching elements in terms of the mechanical principles that underpin their execution. The students will record the action, using an appropriate AV medium, and describe the action using quantitative or qualitative methods, evaluating the impact of the result of the analysis on the performance outcome of the action.

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)	Duration (if exam)	Word count (or equivalent if appropriate)
1	1 and 2	Coursework	50%		2000 words
2	3 and 4	Report	50%		2000 words

Learning and Teaching Strategies:

A combination of lead-lectures, practical workshops, field work and seminars developing applied IT skills will form the basis of this module. Students will be required to undertake background reading and experiential work will be conducted across a range of sports. Formative assessments will be provided through practical tasks and feedback to students on performance in class-based tasks.

Syllabus outline:

- Qualitative and quantitative analysis of sports technique, tactics and team sports.
- Systematic observation of athletic performance in individual and team sports.
- Observation bias of coaches.
- Models in qualitative analysis of sports technique.
- Validity and reliability of performance analysis methodologies.
- Working as a performance analyst with coaches and athletes.
- Collection and presentation of performance analysis data.
- Intervention strategies to maximize the impact of performance analysis.
- The use of computer software in notational analysis.
- The use of performance indicators to assist in the development of notation analysis systems.
- Sport, position and individual athlete profiling

Bibliography:

Essential reading

Blazevich, A. (2007), Sports *Biomechanics, the Basics: Optimising Human Performance*. London: A & C Black.

Hughes, M. and Franks, I. (2004), *Notational analysis of sport.* 2nd ed. London: Routledge.

Hughes, M. and Franks, I. (2007), *The essentials of performance analysis*. London: Routledge.

Other indicative reading

Bartlett, R. (2007). *Introduction to sports biomechanics: Analysing human movement patterns.* London: Routledge.

Carling, C. Williams, A. M., and Reilly, T. (2006). *Handbook of soccer match analysis*. London: Routledge.

Franks I and Hughes M (2016). Soccer Analytics: Successful Coaching Through Match Analyses. Meyer & Meyer Sport (UK) Ltd

Grimshaw, P., Fowler, N., Lees, A., and Burden, A. (2006). *Instant notes in sport & exercise Biomechanics.* London: Routledge.