

uwe hartpury

MODULE CODE:	UIS XQQ-20-3	MODULE VERSION: 1.2
MODULE TITLE:	APPLIED PERFORMANCE ANALYSIS	
LEVEL:	3	
UWE CREDIT RATING:	20	
ECTS CREDIT RATING:	10	
MODULE TYPE:	STANDARD	
OWNING FACULTY:	HARTPURY	
FIELD:	Sports Science	
VALID FROM:	APRIL 2007	
DISCONTINUED FROM:		
PRE-REQUISITES:	UIS XPL-20-2 Principles of Performance Analysis	
CO-REQUISITES:	None	
EXCLUDED COMBINATIONS:	None	

LEARNING OUTCOMES:

At the end of this module the student should be able to:

A. Knowledge and understanding

1. Appraise the underpinning biomechanical theory related to performance and sports injury. (A)
2. Evaluate the limitations of certain measurement techniques. (A, B)

B. Intellectual skills

1. Critically evaluate the biomechanical aspects that contribute to optimal performance. (A, B)
2. Analyse current research regarding performance analysis. (A, B)

C. Subject/professional and practical skills

1. Apply appropriate measurement systems to address a range of examples of human movement. (A, B)
2. Plan and carry out quantitative biomechanical analysis. (B)

D. Transferable skills and other attributes

1. Utilise IT applications to analyse and describe concepts. (B)
2. Work independently to design a piece of research-based work. (B)

SYLLABUS OUTLINE:

- Electromyographic monitoring of a variety of human movements.
- 3-D kinematic analysis of human movement techniques and performance.
- Body segment inertia parameters involved in human movement.
- Biomechanical analysis related to sport injury
- Quasi-static analysis and inverse dynamic utilised in the calculation of load.
- Current and past models used in performance analysis.

TEACHING & LEARNING METHODS:

A variety of learning strategies will be used which may include lectures, tutorials, demonstrations, seminars, practicals, guest speakers, visits, self-directed learning, and e-learning

READING STRATEGY**Essential Reading**

It is essential that students read one of the many texts on research methods available through the Library. Module guides will also reflect the range of reading to be carried out.

Further Reading

Students are expected to identify all other reading relevant to their chosen research topic for themselves. They will be encouraged to read widely using the library catalogue, a variety of bibliographic and full text databases, and Internet resources. Many resources can be accessed remotely.

Access and Skills

The development of literature searching skills is supported by the Library seminar within the induction period and by the Graduate Development Programme at level three. These level three skills will build upon skills gained by the student whilst studying at levels one and two. Additional support is available through iSkillZone. This includes interactive tutorials on search skills and on the use of specific electronic library resources. Sign up workshops are also offered by the Library.

Indicative Reading List

The following list is offered to provide validation panels/accrediting bodies with an indication of the type and level of information students may be expected to consult. As such, its currency may wane during the life span of the module specification. However, as indicated above, CURRENT advice on readings will be available via the module handbook.

Winter, D.A. (Current Edition) *Biomechanics and Motor Control of Human Movement*. New York: Wiley.

Wirhed, R. (Current Edition) *Athletic ability & the anatomy of motion*. London: Mosby.

Websites and databases:

The above sources give an indication of the area of study involved. Although students may be directed to some specific titles, they will also be encouraged to identify other relevant material for themselves.

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Module Code UIS XQQ-20-3

ASSESSMENT

In line with the College's commitment to facilitating equal opportunities, a student may apply to the Learning Teaching and Assessment Committee (LTAC) for alternative means of assessment if appropriate. Each application will be considered on an individual basis taking into account learning and assessment needs. For further information regarding this please refer to the Virtual Learning Environment (VLE).

Weighting between components A and B (standard modules only) **A: 50%**
B: 50%

FIRST ATTEMPT

First Assessment Opportunity

Description of assessment elements

Component A	Type	Length	Element Weighting
1	Written Examination	2 hours	100%

Component B			
1	Written Assignment	2000 words	100%

FIRST ATTEMPT

Second Assessment Opportunity

Further attendance at taught classes is not required

Description of assessment elements

Component A	Type	Length	Element Weighting
1	Written Examination	2 hours	100%

Component B			
1	Written Assignment	2000 words	100%

SECOND (or subsequent) ATTEMPT

Attendance at taught classes is not required for a second or subsequent attempt

Specification confirmed by:



Role: Associate Dean

Date: 03/04/07