

## MODULE DESCRIPTOR

<b>MODULE TITLE</b>	<b>RESEARCH PROJECT FOR SPORT EXERCISE &amp; NUTRITIONAL SCIENTISTS</b>		
<b>MODULE CODE</b>	<b>XS4900 (L7)</b>	<b>CREDIT VALUE</b>	<b>30 ECTS</b>
<b>SCHOOL</b>	SCHOOL OF SCIENCE		

### MODULE AIMS

To further develop the student's ability to formulate hypotheses and, through the process of effective decision making, employ a relevant research strategy.

To engender a spirit of enquiry in all aspects of research.

To encourage students to apply the knowledge gained in the academic programme to a research programme.

To expand the student's ability to critically evaluate research methods and subsequent analysis of data.

To provide the means whereby students can present original research in the form of a written report.

### MODULE CONTENT

The detailed content of each project will vary, according to the student's choice of topic. However, the following common stages can be recognised.

#### **Planning and Preparation:**

Selection of appropriate project; development of hypotheses and consideration of the appropriate research paradigm, experimental design and data analysis; production of an action plan with details of the proposed topic; anticipated time-scale; discussion with academic supervisors; ethical approval processes; challenges to the research.

#### **Literature Survey and Evaluation:**

Scan literature for appropriate articles; use appropriate electronic based information systems; read and assess the relevance and values of articles; record information using appropriate systems; plan the structure and content of the written report and format appropriately for a postgraduate levels thesis/ project report.

#### **Experimental Work:**

Risk and COSHH assessment; participant information and benevolence; planning, execution, recording and interpreting experimental studies; analysis of qualitative or quantitative data.

### INTENDED LEARNING OUTCOMES

1. Conduct a critical literature review on the proposed research topic.
2. Identify the research design, an attendant method, required to carry out the proposed research.

3. Conduct research in a safe, ethical and effective manner.
4. Select and implement the most appropriate data and statistical analysis needed to answer the research question.
5. Interpret critically the findings of the research with reference to the contemporary literature frame.
6. Develop and apply fundamental research skills, appropriate to the chosen research topic.
7. Present findings in the form of a written research report.

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### **TEACHING METHODS**

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This module will be taught year-long through a series of tutorial sessions, held with a nominated supervisor. To facilitate the achievement of the learning outcomes listed, students will need to take a pro-active role in their own learning. Students will be expected to work on their own initiative in the development of appropriate skills, taking a critical appreciation of their progress. eLearn resources will be utilised to support student learning.

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### **ASSESSMENT METHODS**

This module is assessed through a project report.