

## MODULE DESCRIPTOR

<b>MODULE TITLE</b>	Critical Analysis		
<b>MODULE CODE</b>	CO4820 (L7)	<b>CREDIT VALUE</b>	<u>10 ECTS</u>
<b>SCHOOL</b>	SCHOOL OF SCIENCE		

### MODULE AIMS

The module aims to develop students' research, critical analysis and academic writing skills to Masters level.

### MODULE CONTENT

Literature Reviewing:

- Finding and reading academic literature
- Writing a literature review
- Critical thinking and writing
- Critiquing academic papers

Philosophy and Paradigms of Research:

- Overview of research methods
- Understanding research methods

Collecting, Analysing and Reporting Research Data:

- Interpreting data and statistics
- Designing and conducting a simple experiment
- Designing and conducting a survey
- Reporting the results from an experiment or survey in an appropriate style
- Referencing, citing and quoting
- Writing an academic paper

### INTENDED LEARNING OUTCOMES

On successful completion of this module a student will be able to:

1. Source and read academic literature and be able to critique its purpose and value
2. Construct a well referenced and critical review of literature
3. Design, carry out and report a simple experiment or survey
4. Critically evaluate different research methods for given situations

### TEACHING METHODS

This class is taught in different ways and the teaching strategy differs according to whether it is being delivered as a burst (two weekends) or a semester long course. When taught in burst mode the first half of the course covers the 'evaluation' of research and the second half the 'creating' of research.

As a highly practical module – the teaching is by example and by doing. Lectures are collaborative with class input and work done beyond the class is made relevant to the students according to their courses.

As this is a skills based course it is ideally suited to incremental class activities. The constraints on the assessment for this module require that students do work in between taught classes and that this is reviewed before formal assessment – to that end each assessment has a pre- hand in where students can get feedback.

The second assessment often ends up being quite a lot longer than 2500 words as it is very hard to write an academic paper to that length and given there is an emphasis on real word application in the course, students are encouraged to write a paper for publication in their second assignment.

## **ASSESSMENT METHODS**

This module is assessed through an exam (40%) and a research paper (60%).