**Liverpool** John Moores University


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| Title: | RESEARCH METHODS |
| Status: | Definitive |
| Code: | **7009MAR**   (106108) |
| Version Start Date: | 01-08-2016 |

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|---|---|
| Owning School/Faculty: | Maritime and Mechanical Engineering |
| Teaching School/Faculty: | Maritime and Mechanical Engineering |

| Team | Leader |
|---|---|
| Barbara Kelly | Y |
| Charles Roberts | |

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| **Academic Level:** | FHEQ7 | **Credit Value:** | 20 | **Total Delivered Hours:** | 36 |
| **Total Learning Hours:** | 200 | **Private Study:** | 164 | | |

**Delivery Options**

Course typically offered: Runs Twice - S1 & S2

| Component | Contact Hours |
|---|---|
| Lecture | 12 |
| Seminar | 12 |
| Tutorial | 12 |

**Grading Basis:** 40 %


**Assessment Details**

| Category | Short Description | Description | Weighting (%) | Exam Duration |
|---|---|---|---|---|
| Report | AS1 | Literature review | 25 | |
| Report | AS2 | Research critique | 25 | |
| Report | AS3 | Project proposal | 30 | |
| Presentation | AS4 | Presentation | 20 | |


**Aims**

*To provide a theoretical background for conducting postgraduate project work*

**Learning Outcomes**

After completing the module the student should be able to:

1        Review previous research completed in an area.
2        Critically appraise research data and assimilate, integrate and discuss in a logical way.
3        Assess current practice in the production of a project proposal and specification.
4        Evaluate the application of research methodologies to chosen project area.

**Learning Outcomes of Assessments**

The assessment item list is assessed via the learning outcomes listed:

Lit Rev                    1

Critique                  2

Proposal                 3

Presentation            4


**Outline Syllabus**

*Study skills review.*
*Introduction 'Why do research?'.*
*Literature search methods.*
*Research methodologies including statistical techniques, questionnaires and interviewing.*
*Data gathering techniques*
*Speaking and writing for the technical professions.*
*Project analysis and design.*
*Ethics in research.*
*Project planning.*
*Time management. Gantt charts.*


**Learning Activities**

Lectures supported by handouts & tutorials where appropriate.
Tutorial sessions in the use of on-line research searches.


**Notes**

This module provides a valuable opportunity for graduates to acquire necessary skills and techniques to allow for the completion of research at postgraduate level.