

Summary Information

| | |
|----------------------------|---------------------|
| Module Code | 7114AMP |
| Formal Module Title | Research Skills |
| Owning School | Engineering |
| Career | Postgraduate Taught |
| Credits | 10 |
| Academic level | FHEQ Level 7 |
| Grading Schema | 50 |

Module Contacts

Module Leader

| Contact Name | Applies to all offerings | Offerings |
|--------------|--------------------------|-----------|
| Karl Jones | Yes | N/A |

Module Team Member

| Contact Name | Applies to all offerings | Offerings |
|--------------|--------------------------|-----------|
|--------------|--------------------------|-----------|

Partner Module Team

| Contact Name | Applies to all offerings | Offerings |
|--------------|--------------------------|-----------|
|--------------|--------------------------|-----------|

Teaching Responsibility

| |
|--|
| LJMU Schools involved in Delivery |
| Engineering |

Learning Methods

| Learning Method Type | Hours |
|----------------------|-------|
|----------------------|-------|

| | |
|----------|----|
| Lecture | 16 |
| Tutorial | 6 |

Module Offering(s)

| Offering Code | Location | Start Month | Duration |
|---------------|----------|-------------|----------|
| JAN-CTY | CTY | January | 12 Weeks |
| SEP-CTY | CTY | September | 12 Weeks |

Aims and Outcomes

| | |
|-------------|---|
| Aims | The aims of this module are to prepare the students to undertake their own research projects and to deliver the required skill set for successful completion of their investigations. |
|-------------|---|

Learning Outcomes

After completing the module the student should be able to:

| Code | Description |
|------|--|
| MLO1 | Critically analyse and reflect on the work of other practitioners/researchers |
| MLO2 | Formulate a research plan, demonstrating an understanding of the effect of risks and uncertainties in the delivery of a complex project. |
| MLO3 | Present comprehensive research results according to appropriate conventions |

Module Content

| Outline Syllabus |
|---|
| Introduction to search methods for literature. Styles and conventions associated with technical writing, presentations and speaking to technical audiences. Project planning activities and tools, time management, use of Gantt charts. Strategies for designing experiments and statistical considerations. Data handling, quantitative analysis of results and presentation of results to technical and managerial audiences. Management of project risk and health and safety considerations when conducting engineering tests and experiments. |

| Module Overview |
|---|
| This module is important as it sets the groundwork for the completion of the MSc project. The module provides grounding in the skill required to formulate a project plan, design experiments, mitigate against uncertainties and deliver a comprehensive description of the results. |

Additional Information

This module is important as it sets the groundwork for the completion of the MSc project. The module provides grounding in the skill required to formulate a project plan, design experiments, militate against uncertainties and deliver a comprehensive description of the results.

Assessments

| Assignment Category | Assessment Name | Weight | Exam/Test Length (hours) | Learning Outcome Mapping |
|---------------------|-------------------|--------|--------------------------|--------------------------|
| Portfolio | Portfolio of work | 100 | 0 | MLO3, MLO2, MLO1 |