

### Summary Information

|                            |                                       |
|----------------------------|---------------------------------------|
| <b>Module Code</b>         | 7110NATSCI                            |
| <b>Formal Module Title</b> | Technology and Operations             |
| <b>Owning School</b>       | Biological and Environmental Sciences |
| <b>Career</b>              | Postgraduate Taught                   |
| <b>Credits</b>             | 40                                    |
| <b>Academic level</b>      | FHEQ Level 7                          |
| <b>Grading Schema</b>      | 50                                    |

### Module Contacts

#### Module Leader

| Contact Name | Applies to all offerings | Offerings |
|--------------|--------------------------|-----------|
| Serge Wich   | Yes                      | N/A       |

#### Module Team Member

| Contact Name    | Applies to all offerings | Offerings |
|-----------------|--------------------------|-----------|
| Edwin Parker    | Yes                      | N/A       |
| Stefano Mariani | Yes                      | N/A       |
| Ian Thomson     | Yes                      | N/A       |
| Patrick Byrne   | Yes                      | N/A       |

#### Partner Module Team

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

## Teaching Responsibility

| LJMU Schools involved in Delivery     |
|---------------------------------------|
| Biological and Environmental Sciences |

## Learning Methods

| Learning Method Type | Hours |
|----------------------|-------|
| Lecture              | 20    |
| Off Site             | 40    |
| Practical            | 20    |

## Module Offering(s)

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

## Aims and Outcomes

|             |  |
|-------------|--|
| <b>Aims</b> | To provide a comprehensive overview of conservation technology, practical operation of technology, planning, regulations and data processing |
|-------------|--|

## Learning Outcomes

After completing the module the student should be able to:

| Code | Description   |
|------|---|
| MLO1 | Critically explore the advantages and disadvantages of various conservation technologies. |
| MLO2 | Employ different sensors that can be used to collect data for conservation.               |
| MLO3 | Apply data processing software  |
| MLO4 | Collect, analyse, and synthesise data from conservation technologies                      |
| MLO5 | Plan and implement a drone mission within the current regulatory framework for the UK     |
| MLO6 | Critically reflect on the application of conservation technologies                        |

## Module Content

### Outline Syllabus

Conservation Technology: Usage of conservation technology to collect data. Usage of software to analyse data that have been collected with conservation technology

### Module Overview

This module provides a comprehensive overview of drone technology at a conceptual and practical level. Special emphasis is placed on being able to specify, select, install and deploy sub-systems to fulfil the requirements of an application.

### Additional Information

An overview of conservation technology and operations at a conceptual and practical level.

## Assessments

| Assignment Category | Assessment Name             | Weight | Exam/Test Length (hours) | Learning Outcome Mapping     |
|---------------------|-----------------------------|--------|--------------------------|------------------------------|
| Practice            | Practical Flight Assessment | 30     | 0                        | MLO3, MLO1, MLO6, MLO5       |
| Report              | Mission Planning Project    | 40     | 0                        | MLO3, MLO1, MLO2, MLO5       |
| Essay               | Essay on technology         | 30     | 0                        | MLO3, MLO1, MLO2, MLO4, MLO6 |