

### Summary Information

|                     |                                     |
|---------------------|-------------------------------------|
| Module Code         | 3501USST                            |
| Formal Module Title | Engineering and Technology Practice |
| Owning School       | Engineering                         |
| Career              | Undergraduate                       |
| Credits             | 20                                  |
| Academic level      | FHEQ Level 3                        |
| Grading Schema      | 40                                  |

### Teaching Responsibility

|                                   |
|-----------------------------------|
| LJMU Schools involved in Delivery |
| LJMU Partner Taught               |

### Partner Teaching Institution

|   |
|---|
| Institution Name                                  |
| University of Shanghai For Science and Technology |

### Learning Methods

| Learning Method Type | Hours |
|----------------------|-------|
| Workshop             | 48    |

### Module Offering(s)

| Display Name | Location | Start Month | Duration Number Duration Unit |
|--------------|----------|-------------|-------------------------------|
| SEP-PAR      | PAR      | September   | 28 Weeks                      |

### Aims and Outcomes

|      |   |
|------|---|
| Aims | This module aims to develop the practical skills of students by applying what they learn across the rest of their programme. It will provide an experience of planning, execution and report writing, as well as activities aimed at developing problem solving skills. It also embeds the study skills which are required for students to become effective and independent learners. |
|------|---|

**After completing the module the student should be able to:**

### Learning Outcomes

| Code | Number | Description  |
|------|--------|--|
| MLO1 | 1      | Solve questions on a practical exercise which they have planned and executed                                   |
| MLO2 | 2      | Interpret research data on a topic in engineering or technology  |
| MLO3 | 3      | Apply principles of engineering and technology to solve a problem in an engineering and technology context     |
| MLO4 | 4      | Demonstrate the skills necessary to be an effective and independent learner in a higher education environment. |

### Module Content

|                        |   |
|------------------------|---|
| Outline Syllabus       | The list below provides an indicative list of topics which may be covered in this module: Study Skills-Read effectively and identify appropriate resources to study topical engineering problems-Identify their study needs and plan their study effectively-Work effectively in a group-Present information in an appropriate style Experimental Methods-Planning an investigation-Record keeping-Report writing-Handling data-Graphical representation-Errors-Analysis of results, and the formulation of conclusions |
| Module Overview        |   |
| Additional Information | This year long module supports students in developing the academic and practical skills needed to become effective and independent learners. It included regular contact with personal tutors, encouraging a smooth transition into Higher Education.   |

### Assessments

| Assignment Category | Assessment Name  | Weight | Exam/Test Length (hours) | Module Learning Outcome Mapping |
|---------------------|------------------|--------|--------------------------|---------------------------------|
| Portfolio           | Academic Skills  | 50     | 0                        | MLO2, MLO4                      |
| Practice            | Practical Skills | 50     | 0                        | MLO1, MLO3                      |

### Module Contacts

#### Module Leader

| Contact Name    | Applies to all offerings | Offerings |
|-----------------|--------------------------|-----------|
| Clifford Mayhew | Yes                      | N/A       |

#### Partner Module Team

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