

Summary Information

| | |
|---------------------|---|
| Module Code | 7505BEGP |
| Formal Module Title | Sustainable Construction and Innovation |
| Owning School | Civil Engineering and Built Environment |
| Career | Postgraduate Taught |
| Credits | 20 |
| Academic level | FHEQ Level 7 |
| Grading Schema | 50 |

Teaching Responsibility

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

Partner Teaching Institution

| |
|------------------|
| Institution Name |
| Unicaf |

Learning Methods

| Learning Method Type | Hours |
|----------------------|-------|
| Online | 33 |

Module Offering(s)

| Display Name | Location | Start Month | Duration Number Duration Unit |
|--------------|----------|-------------|-------------------------------|
| JAN-PAR | PAR | January | 28 Weeks |

Aims and Outcomes

| | |
|------|---|
| Aims | To identify and critically appraise how the principles of sustainable and innovative construction practices can be incorporated into a more contemporary construction industry. |
|------|---|

After completing the module the student should be able to:

Learning Outcomes

| Code | Number | Description |
|------|--------|---|
| MLO1 | 1 | Identify and critically assess the effects of construction on the natural environment. |
| MLO2 | 2 | Examine current research and knowledge to develop a critical understanding of sustainable construction and innovation. |
| MLO3 | 3 | Evaluate the various sustainable and innovative construction technologies in the context of modern industrial practices. |
| MLO4 | 4 | Critically evaluate the application of innovative and pragmatic sustainable solutions within the construction industry context. |
| MLO5 | 5 | Communicate in an academically and professionally appropriate manner using various media. |

Module Content

| | |
|------------------------|---|
| Outline Syllabus | Sustainable development Climate Change and Energy Use Impact of Construction on the Natural Environment Sustainable Technologies Digital Construction and Modelling Innovative Systems and Models (Lean, Buildings as Material Banks, Circular Economy, Reverse logistics and Supply Chains) |
| Module Overview | |
| Additional Information | The module provides a wide ranging study of sustainability and lean principles affecting a modern construction sector. |

Assessments

| Assignment Category | Assessment Name | Weight | Exam/Test Length (hours) | Module Learning Outcome Mapping |
|---------------------|-----------------|--------|--------------------------|---------------------------------|
| Essay | Essay | 40 | 0 | MLO1, MLO2 |
| Report | Report | 60 | 0 | MLO1, MLO2, MLO3, MLO4, MLO5 |

Module Contacts

Module Leader

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

| | | |
|---------------|-----|-----|
| Damian Fearon | Yes | N/A |
|---------------|-----|-----|

Partner Module Team

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