

Module Proforma

Approved, 2022.02

Summary Information

Module Code	7500PGSL		
Formal Module Title	Sustainable and Lean Principles Within Construction		
Owning School	Civil Engineering and Built Environment		
Career	Postgraduate Taught		
Credits	20		
Academic level	FHEQ Level 7		
Grading Schema	50		

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Damian Fearon	Yes	N/A

Module Team Member

Contact Name Applies to all offerings Offerings	
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Partner Module Team

Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name

International College of Business and Technology

Learning Methods

Learning Method Type	Hours
Lecture	24
Workshop	12

Module Offering(s)

Offering Code	Location	Start Month	Duration
SEP-PAR	PAR	September	12 Weeks

Aims and Outcomes

Aims To identify and critically appraise how environmental sustainability and lean principles of incorporated into a more modern and innovative construction organisation and industry.
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Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Identify and critically assess the effects of construction on the natural environment.
MLO2	Critically evaluate the application of innovative and practical solutions within the construction industry context.
MLO3	Define and use various environmental performance measurement tools.
MLO4	Examine the developments and characteristics of lean-based approaches to managing construction projects.
MLO5	Critically appraise the benefits and barriers to implementing lean in construction project environments.
MLO6	Apply a lean based approach to a specific project management situation.

Module Content

Outline Syllabus

Sustainable development - historical contextClimate change and energy useConstruction waste and industrial ecologyPerformance measurement/business process innovationLean principles - historical contextLean based approaches, barriers and benefitsLean and project managementLean and green - synthesis

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)	Learning Outcome Mapping
Essay	Case study	100	0	MLO2, MLO3, MLO5, MLO1, MLO6, MLO4