

Module Information

2022.01, Approved

Summary Information

Module Code	7412BEPGDL
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

Teaching Responsibility

LJMU Schools involved in Delivery
Civil Engineering and Built Environment

Learning Methods

Learning Method Type	Hours
Online	11

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

Aims	To identify and critically appraise how environmental sustainability and lean principles can be incorporated into a more modern and innovative construction organisation and industry.
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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	Critically evaluate the application of innovative and practical solutions within the construction industry context.
MLO3	3	Define and use various environmental performance measurement tools.
MLO4	4	Examine the developments and characteristics of lean-based approaches to managing construction projects.
MLO5	5	Critically appraise the benefits and barriers to implementing lean in construction project environments.
MLO6	6	Apply a lean based approach to a specific project management situation.

Module Content

Outline Syllabus	Sustainable development - historical context Climate change and energy use Construction waste and industrial ecology Performance measurement/business process innovation Lean principles - historical context Lean based approaches, barriers and benefits Lean and Project management Lean 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)	Module Learning Outcome Mapping
Report	Case Study Based Portfolio	100	0	MLO1, MLO2, MLO3, MLO4, MLO5, MLO6

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
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