

Construction Technology 2

Module Information

2022.01, Approved

Summary Information

Module Code	5612BECC
Formal Module Title	Construction Technology 2
Owning School	Civil Engineering and Built Environment
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 5
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name
Coleg Cambria

Learning Methods

Learning Method Type	Hours
Lecture	27
Tutorial	10
Workshop	19

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-PAR	PAR	September	12 Weeks

Aims and Outcomes

Aims	To assess and apply knowledge of the various methods, processes, and techniques associated with moderately complex civil and structural engineering structures and associated service requirements for a residential development of medium-rise structures.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Assess the different types of civil engineering/infrastructure methods, processes and techniques used in support of residential development
MLO2	2	Compare and contrast different design solutions and methods, processes and techniques for the construction of medium-rise buildings.
MLO3	3	Analyse the systems used to distribute services to residential estates and describe their characteristics.
MLO4	4	Analyse the systems used to provide disposal systems for a residential estate and describe their characteristics

Module Content

Outline Syllabus	<ul style="list-style-type: none"> • Soil remediation • Groundwater control methods • Steel sheet piling • Temporary techniques • Concrete diaphragm walls • Culverts • Frame Construction • Erection sequence • Detailing • Foundations – replacement and displacement. • Cladding • Service connections • Heating systems • Electrical Installations • Hot and Cold Water supply • Gas insulation. • Fire Detection and Fire Suppression Systems • Surface and foul water drainage systems
Module Overview	
Additional Information	This module has a key focus on civil and structural engineering projects for residential medium-rise developments. As part of this module services provided for civil and structural engineering projects will also be explored.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Structural Design Report	50	0	MLO1, MLO2
Report	Services Report	50	0	MLO3, MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Spencer Kelly	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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