

Summary Information

Module Code	5502ICPDQS
Formal Module Title	Civil Construction Technology
Owning School	Civil Engineering and Built Environment
Career	Undergraduate
Credits	15
Academic level	FHEQ Level 5
Grading Schema	40

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	15
Tutorial	30

Module Offering(s)

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

Aims and Outcomes

Aims	Aim(s) of the module is to introduce modern building construction technology, forms of buildings structures, building structural element design, internal special planning, finishing & related services and to demonstrate an understanding of environmental friendly building design principles to meet regulatory standards. This module focuses on the technology of low-rise & multi-storey residential, commercial & institutional buildings designed for both private and public use.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Identify & explain the technology of various types & forms of civil engineering structures & principles of structural planning, designing & integration.
MLO2	2	Demonstrate the knowledge on the use of specifications and standards for civil engineering works of various types of civil engineering structures.
MLO3	3	Appraise the principles of various structural designs & elements to achieve functional requirements of various types of civil engineering structures.
MLO4	4	Examine various problems & complexities of civil engineering design & integration and alternative design solutions to overcome such complexities.

Module Content

Outline Syllabus	Note: Tutor must address below indicative content applies to various type of buildings such as low-rise & multi-storey residential/commercial & institutional buildings designed for both private and public use; Site evaluation and investigation for foundation design Steel form of structures: Introduction to concrete structural elements Concrete form of structures: Introduction to concrete structural elements Effects of seismic forces and seismic resistance design of foundations Foundation types: Shallow and Deep Components of services: HVAC, Electrical systems and distribution, Mechanical transportation, Fire safety, Disposal systems (Sanitary & Solid waste) Building service integration Introduction to Standard material specifications (BS Codes/ Euro Code) Building external works: Installation of exterior glazing & claddings, access road, landscape work (Hard & Soft) Landscape design: Basic principles of Softscape and Hardscape Eco-friendly & low energy building designs, environmental systems and controls LEED green rating system: Introduction to green rating criteria
Module Overview	
Additional Information	

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Coursework	100	0	MLO1, MLO2, MLO3, MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
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Alison Cotgrave	Yes	N/A
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Partner Module Team

Contact Name	Applies to all offerings	Offerings
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