

Summary Information

Module Code	4506ICBTQS
Formal Module Title	Civil Engineering Technology
Owning School	Civil Engineering and Built Environment
Career	Undergraduate
Credits	15
Academic level	FHEQ Level 4
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	45
Practical	15
Tutorial	15

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
APR-PAR	PAR	April	12 Weeks

JAN-PAR	PAR	January	12 Weeks
SEP_NS-PAR	PAR	September (Non-standard start date)	12 Weeks

Aims and Outcomes

Aims	Aim(s) of the module is to introduce modern civil engineering, construction technology, forms of civil engineering structures, structural element design and related services and to demonstrate understanding of advance structural design principles and integrity of elements. This module focuses on a wide range of civil engineering structures such as roads, tunnels, bridges, maritime designs, waterways, transportation & service engineering.
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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 types of civil engineering structures such as roads, tunnels, bridges, maritime designs, waterways, transportation & service engineering;Concrete & Steel form of civil engineering structures: roads, tunnels, bridges, maritime designs, waterways, transportation Site surveying & levelling procedures for civil engineering works Usage of modern surveying equipment's Collecting and reporting survey data Construction techniques of various civil engineering structures & its elements: earthworks, sub structural element design & related super structural elements of roads, tunnels, bridges, maritime designs, waterways, transportation Total Quality Management (TQM) of civil engineering construction Introduction to Euro codes, British Standards & code of practice for civil engineering works Effects of seismic forces and seismic resistance design of civil engineering structures Practical approach to problem solving in civil engineering
Module Overview	
Additional Information	

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Exam	Examination	70	2	MLO1, MLO2
Report	Assignment	30	0	MLO3, MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Karl Jones	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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