

Summary Information

Module Code	4500ICBTBS
Formal Module Title	Construction 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
Tutorial	15

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 the student to construction techniques associated with different types of buildings including building regulations and building services. To develop an understanding of the performance of buildings and the influence of materials and workmanship specification on performance.
------	---

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Identify the technology of various types of buildings, form of substructures & superstructures, principles of building structural element planning & designing.
MLO2	2	Describe principles of spatial planning to achieve basic functional requirements of various type of buildings.
MLO3	3	Describe on methods and techniques of external works of all types of buildings & landscaping work in building sites.
MLO4	4	Recognise specifications and standards for building works, structural designing and building services of various type of building, and apply various legislative requirements for internal spatial planning and design development requirements of local authorities & regulatory bodies.

Module Content

Outline Syllabus	Substructure – foundations of the forms of strip, raft and pile foundations for all types of buildings. Mechanical plant used in substructure work. Excavations. Health and Safety in excavation work. Site investigations for building sites. (Dealing with trees on site, high water tables, contaminated land etc.)Superstructure – Ground floor construction – suspended and solid floors. External Cavity Wall Construction. Concrete and Steel Frame Construction. Pitched roofs – trussed rafters and purlin roofs. Flat Roofs. Mid rise and high rise building construction. Secondary Elements and Finishes – stair construction. Door and Window construction and fixing. Internal partitions. Dry lining of walls. Plaster boarding of ceilings. Sand and cement and asphalt screeds. Timber floor finishes. Floor and wall tiling. Painting timberwork. External cladding and rendering.Internal Space planning, anthropometrics and ergonomics. Ventilation, building partitioning, suspended ceilings & raised floors. Service core designing.Statutory legislative requirements for building planning, design, internal spatial planning, site development and disability access (Local & international)
Module Overview	
Additional Information	

Assessments

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

Module Contacts

Module Leader

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

Partner Module Team

Contact Name	Applies to all offerings	Offerings
--------------	--------------------------	-----------