

Building Services III

Module Information

2022.01, Approved

Summary Information

Module Code	5504ICBTBS
Formal Module Title	Building Services III
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	45
Tutorial	15
Workshop	10

Module Offering(s)

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

Aims and Outcomes

Aims	Aim(s) of the module is to develop the students' knowledge and skills on building ancillary services and building commissioning.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Identify the basic elements of a building fire protection system and to describe their basic operation.
MLO2	2	Identify the basic elements of a building related data transmission, communication and Lifts & Escalator system and to describe their basic operation.
MLO3	3	Describe basic principles of acoustics, use terms & definitions effectively.
MLO4	4	Identify the integration of building services and commissioning to ensure functionality of building.

Module Content

Outline Syllabus	Introduction to ancillary services in buildings Describe the ancillary services in buildings covering all the modern developments and technology Building Fire Protection Origin of fire in buildings; Types of fire detection systems - Smoke detectors, Heat detectors; Control panels; Codes & Standards employed, Fire rating of equipment and auxiliaries, special installations, Automatic suppression systems, Applications – linkage to building HVAC system Data, Security, Master Antenna Television (MATV), Basics of Data Transmission, Cabling Options (Fibre Optic, Multi-pair, etc.); Patch Panels and Switchgear, Types of Systems, Structured Cabling Systems; CCTV & Security Systems, Building Access Control; Types of applications Communication System Types of Communication/ Telephone Systems & Applications, PABXs, Phones, other Equipment & Switchgear, Broad Band Access, Satellite Communications, MATV Systems, Lifts & Escalators Lifts & Escalators, Working & Sequencing, Related Control Systems, Basic of equipment selection Building service integration and commissioning Overview on building service integration and commissioning, integration methods, commissioning requirements
Module Overview	
Additional Information	

Assessments

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