

Liverpool John Moores University

Title: CONVERSION AND ADAPTATION OF BUILDINGS
Status: Definitive
Code: **5504ICBTQS** (126951)
Version Start Date: 01-08-2021

Owning School/Faculty: Civil Engineering and Built Environment
Teaching School/Faculty: ICBT, Colombo

Team	Leader
Alison Cotgrave	Y

Academic Level: FHEQ5
Credit Value: 15
Total Delivered Hours: 70
Total Learning Hours: 150
Private Study: 80

Delivery Options

Course typically offered: Semester 1 and Summer

Component	Contact Hours
Lecture	45
Off Site	10
Tutorial	15

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Assignment (2500 Words)	50	
Report	AS2	Assignment (2500 Words)	50	

Aims

Aim(s) of the module is to demonstrate and understanding of various concepts, theories and techniques use to survey existing buildings, principles of building conversion & adaptation to meet intended functional requirements of the building.

Learning Outcomes

After completing the module the student should be able to:

- 1 Demonstrate an understanding about the role of a building surveyor & various techniques use to survey existing building structures and its elements.
- 2 Analyse requirements of change in function & principles of building conversion to meet new functional requirements of the building and distinguish principles of building adaptation to adjust and alter effectively to meet new functional requirements of the building.
- 3 Assess the requirement of effective maintenance management to assure uninterrupted working settings of various type of buildings.
- 4 Apply fundamentals of Facilities Management to integration of processes of a building to continue and develop the agreed services which support and improve the effectiveness of functional requirements of the building.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Coursework 1	2	3
Coursework 2	1	4

Outline Syllabus

Role of a Building surveyor

Types of building defects

Building defect survey

Building surveying techniques, testing methods and survey report

Feasibility studies for building conversion

Building conversion & impacts on building life cycle

Difficulties in building conversion: Practical issues

Principles of building adaptation: Feasibility, Adaptive Re-Use, Lateral extensions, Vertical extensions, Structural alterations, Principles of refurbishment, Further aspects of refurbishment & Sustainable adaptation

Building Maintenance (Soft, Hard)

Building Maintenance strategies: Corrective, Preventive, Predictive

Building Automation & Intelligent Building Management Systems

Introduction to Soft and FM: communication, continuity operation planning, energy management, building operations management, building space management and coordination of people and physical environment of building

Learning Activities

Students will be supported in their learning, to achieve the above learning outcomes, in the following ways:

By a series of lectures and practical approach to apply various techniques to survey an existing building & survey defects of existing buildings due to improper

maintenance management.

Self-managed studies to understand & assess various methods of building surveying & methods of maintenance management to assure an uninterrupted function of a building.

Filed visits will be arranged to various type of existing buildings under different conditions & functions to observe & survey current condition of buildings and check the suitability of such buildings for conversion,

A recommended resource list - indicating key reading, virtual and physical learning assistance, is provided to help enable students to undertake self-directed study.

Notes

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