

Liverpool John Moores University

Title: PATHOLOGY AND INSPECTION

Status: Definitive

Code: **5206BEUG** (122328)

Version Start Date: 01-08-2021

Owning School/Faculty: Civil Engineering and Built Environment

Teaching School/Faculty: Civil Engineering and Built Environment

Team	Leader
Tom Hogarth	Y

Academic Level:	FHEQ5	Credit Value:	20	Total Delivered Hours:	50
Total Learning Hours:	200	Private Study:	150		

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	20
Workshop	30

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Portfolio	AS1	Pathology and inspection portfolio	100	

Aims

To undertake advanced building inspections through the systematic appraisal of building defects causing decay and deterioration, in order to propose remediation solutions for commercial buildings and organisations.

Learning Outcomes

After completing the module the student should be able to:

- 1 Investigate, appraise and report on the causes of typical defects to commercial buildings.
- 2 Select and evaluate appropriate remedial works, including costs, to a range of typical defects and scenarios
- 3 Make informed judgements relating to building defects and overall condition in the context of building use, adaptation, ownership and associated legal frameworks
- 4 Produce a design scheme for an existing building, considering its existing/future use

Learning Outcomes of Assessments

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

PORTFOLIO	1	2	3	4
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Outline Syllabus

Common building defects relating to commercial buildings, including defects related to foundations, masonry, timber, metal, dampness.

Building Inspections: Survey Procedures, Recording a Survey, Survey Reports.

Building Services: Defects and inspections of drainage, water supply, heating and ventilation services, sick building syndrome.

Selection criteria for remediation options including building refurbishment

Building refurbishment and adaptation

Building design in the context of proposed remediation options

Method statements and risk assessments for building surveys and remedial works.

Learning Activities

Lectures are used in order to identify and explain key concepts and theories and provide detailed information on particular subject areas within the module. They help to stimulate the student's interest in the subject area. Lectures may also include guest industry speakers to add industry context to the material.

A site visit will be organised for students' to undertake a building survey and inspection.

Workshops are used to engage students in more intensive discussion and activity on particular subject areas within the module. This helps shape the student's own understanding and place the lecture material in context.

Notes

This module introduces students to the study of building defects, their causes and remedial measures, and the application to different building uses and ownership's.