

## Liverpool John Moores University

Title: PATHOLOGY AND INSPECTION  
Status: Definitive  
Code: **5530BEKL** (123411)  
Version Start Date: 01-08-2021

Owning School/Faculty: Civil Engineering and Built Environment  
Teaching School/Faculty: Imperia College

Team	Leader
Tom Hogarth	Y

**Academic Level:** FHEQ5  
**Credit Value:** 20  
**Total Delivered Hours:** 70  
**Total Learning Hours:** 200  
**Private Study:** 130

### Delivery Options

Course typically offered: Runs Twice - S1 & S2

Component	Contact Hours
Lecture	28
Workshop	42

**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, Workshops

## **Notes**

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