Liverpool John Moores University

Title: CONSTRUCTION DESIGN FOR COMPLEX BUILDINGS

Status: Definitive

Code: **5547NCCG** (129486)

Version Start Date: 01-08-2021

Owning School/Faculty: Civil Engineering and Built Environment

Teaching School/Faculty: Accrington Campus

Team	Leader
Fiona Borthwick	Υ

Academic Credit Total

Level: FHEQ5 Value: 20 Delivered 48

Hours:

Total Private

Learning 200 Study: 152

Hours:

Delivery Options

Course typically offered: S1, S2 and NS2 (S2 for Jan)

Component	Contact Hours
Lecture	48

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	Case Study	Case Study Analysis	50	
Report	Assignment	Assignment	50	

Competency	NCC Group Pass/Fail

Aims

This module considers building with complex requirements including consideration of Health and Safety, efficiency, sustainability and quality. Students will identify techniques used for the safe and sustainable demolition of buildings. By considering modern construction methods and technology, students will identify the most appropriate materials and construction methods.

On successful completion of the module students will be able to select appropriate

materials and construction methods as well as facilitate alternative uses of buildings.

Learning Outcomes

After completing the module the student should be able to:

- 1 Analyse strategies, processes and construction technology of complex buildings
- 2 Evaluate materials, technology and processes for complex buildings, factoring in time, cost and quality
- 3 Discuss the flexibility of conditioned spaces
- 4 Propose solutions that meet the requirements of safe demolition and disposal of materials

Learning Outcomes of Assessments

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

Case Study Analysis 1 2

Assignment 3 4

NCC Group Pass/Fail 2

Outline Syllabus

Types of construction

Preliminary works in construction

Materials, technology and processes for construction of complex buildings Substructures, superstructures, building services systems for complex buildings Safe demolition

Disposal of materials

Health and safety in construction of complex buildings

Construction information such as schedules, drawing and specifications

Regulatory requirements

Learning Activities

These will not normally be traditional didactic lectures in which the student plays little active part, but will be delivered in small groups of up to 20 students in which their interaction with their tutor is a key ingredient of their learning experience. Students will receive approximately 30 hours of taught material, supported by inclass exercises and discussions designed to help student assimilate learning and to provide early informal feedback on their progress.

Independent Study

Students are expected to undertake personal reading and research into topic areas that have been stimulated from the lectures and seminars. This reading will enhance their academic work and enable valid contribution to lectures and seminars.

VLE support

This will provide links to academic web-sites and on-line journals, facilitate group discussion outside of the classroom, access to outline lecture notes, and provide students with assessment details.

Notes

_