

Liverpool John Moores University

Title: BUILDING TECHNOLOGY
Status: Definitive
Code: **7320BEPG** (120974)
Version Start Date: 01-08-2015

Owning School/Faculty: Built Environment
Teaching School/Faculty: Built Environment

Team	Leader
John Gammon	Y

Academic Level: FHEQ7 **Credit Value:** 20.00 **Total Delivered Hours:** 36.00
Total Learning Hours: 200 **Private Study:** 164

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	11.000
Workshop	22.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Report on building technology	50.0	
Exam	AS2	Closed book examination	50.0	3.00

Aims

This module aims to enable students to understand and evaluate the principles and techniques used in the construction of buildings.

Students will also gain a critical understanding and appreciation of the properties and performance of building materials required.

Learning Outcomes

After completing the module the student should be able to:

- 1 Critically explain and evaluate the construction of the primary and secondary elements of both domestic and commercial buildings
- 2 Critically analyse the integration of building services within constructed building.
- 3 Appraise and select a range of appropriate building materials and services and critically evaluate their impact on building performance

Learning Outcomes of Assessments

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

REPORT	1	2	3
EXAM	1	2	3

Outline Syllabus

- *The construction of foundations, external walls, internal walls, single storey frames, multi-storey frames, ground floors, upper floors, flat roofs, pitched roofs, cladding, suspended ceilings, access floors, stairs, internal finishes, windows, doors.*
- *The principles and operation of building services, for example, drainage, sanitation, electricity supply and distribution, heating ventilating and air conditioning, water supply, lifts, PV panels, solar panels, and ground source heat pumps.*
- *Application of the Building Regulations Approved Documents.*
- *Sustainable construction principles & techniques.*
- *Modern methods of construction.*
- *Health and safety implications during construction. Site investigations. Specifications.*
- *Properties and performance of integral building materials, for example, bricks (clay, concrete and calcium silicate), concrete blocks, gypsum plasters, lime plasters, lime mortars, cement mortars, concrete, timber (hardwoods, softwoods and manufactured timbers), plastics, steel, lead, copper, and aluminium, alloys.*

Learning Activities

Lectures and workshops

Notes

This module develops student's ability to appreciate the importance and complexity of building construction and technology, and the decision making process on specifying the correct materials and integrating appropriate building services, in accordance with approved building regulations.

