

## Liverpool John Moores University

Title: CONSTRUCTION TECHNOLOGY 3  
Status: Definitive  
Code: **6613BECC** (128157)  
Version Start Date: 01-08-2020

Owning School/Faculty: Civil Engineering and Built Environment  
Teaching School/Faculty: Coleg Cambria

Team	Leader
Michael Farragher	Y

**Academic Level:** FHEQ6  
**Credit Value:** 20  
**Total Delivered Hours:** 56  
**Total Learning Hours:** 200  
**Private Study:** 144

### Delivery Options

Course typically offered: Non Standard Year Long

Component	Contact Hours
Lecture	27
Tutorial	10
Workshop	19

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	2000 word illustrated report	40	
Presentation	AS2	20 min presentation with supporting evidence	60	

### Aims

*To develop an understanding of the principles of sustainability and environmental practices that underpin and influence the operation of the built environment and construction sectors of the UK. To develop an awareness of alternative methods of construction domestic dwellings.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Analyse the environmental impact of the construction industry.
- 2 Critically evaluate various methods used for the identification and assessment of sustainability in construction
- 3 Demonstrate knowledge, understanding and application of the use of MMC within the construction industry.
- 4 Evaluate innovative construction techniques with recommendations for the future of the construction industry.
- 5 Compare, contrast and justify alternative solutions for mechanical and electrical services and utility services for a domestic development.

## Learning Outcomes of Assessments

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

Report	1	2		
Presentation	3	4	5	

## Outline Syllabus

- Environmental protection*
- Global warming;*
- Government and national targets*
- Urbanisation*
- Environmental impact of materials*
- Alternative materials and systems*
- Environmental impact and architectural considerations*
- Off-site manufacture*
- Renewable energy*
- Greywater*
- Ventilation system*
- Building Regulations*
- Historical development*
- waste disposal*
- BREEAM*
- Code for Sustainable Homes.*

## Learning Activities

This module will utilise blended learning which will combine e-learning with more traditional teaching. In addition, students will be encouraged to monitor their own learning on this module. Workshops and online learning materials will be used to provide an overview of each topic. The lectures will be delivered by the module team and on occasion, guest speakers

from different relevant professional backgrounds with particular expertise in aspects of the curriculum. Workshops will be used as space for students to explore and discuss issues in small groups and for tutors to identify individual learning needs of students.

## **Notes**

This module develops an understanding of the principles of sustainability and environmental practices that underpin and influence the operation of the built environment and construction sectors of the UK.