

Liverpool John Moores University

Title: CAD & CONSTRUCTION INFORMATION
Status: Definitive
Code: **4614BECC** (128148)
Version Start Date: 01-08-2021

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

Team	Leader
Spencer Kelly	Y

Academic Level: FHEQ4 **Credit Value:** 20 **Total Delivered Hours:** 56
Total Learning Hours: 200 **Private Study:** 144

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	19
Tutorial	10
Workshop	27

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Portfolio	AS1	Construction drawing and schedules	70	
Presentation	AS2	Presentation on justification of construction information (15 minutes)	30	

Aims

This module will provide learners with the opportunity to develop the skills needed to produce construction information using industry-standard software. The module focuses on developing students awareness of the different forms of pre-construction information.

Learning Outcomes

After completing the module the student should be able to:

- 1 Produce 2D drawings using industry-standard CAD software applications.
- 2 Develop a 3D CAD model using industry-standard CAD software and present in a variety of media.
- 3 Produce supporting construction information in support of a given construction project.
- 4 Justify different types of construction information in the context of diverse project types.

Learning Outcomes of Assessments

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

Portfolio	1	2	3
Presentation	4		

Outline Syllabus

- Pre-construction Information
- RIBA plan of work
- Impact assessments
- Construction drawings
Floor plans, roof plans
- Site plans
- Title blocks
- Legends
- Material take-off
- Schedules
- Specifications
- Computer-Aided Design (CAD)
- Building Information Modelling (BIM)
- virtual reality
- Rendering
- walkthroughs
- Project Planning software
- Schedules of works
- Class detection
- Reading construction drawings.

Learning Activities

This module will utilise blended learning which will combine e-learning with more traditional teaching strategies. 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 will provide students with the opportunity to develop the skills in the preparation of construction information via Computer-aided design and project planning software.