

Liverpool John Moores University

Title: INTEGRATED BIM THEORY
Status: Definitive
Code: **7440BEPG** (123544)
Version Start Date: 01-08-2020

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

Team	Leader
Dianne Marsh	Y

Academic Level: FHEQ7 **Credit Value:** 20 **Total Delivered Hours:** 33
Total Learning Hours: 200 **Private Study:** 167

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	11
Workshop	22

Grading Basis: 50 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Presentation	AS1	INDIVIDUAL	50	
Report	AS2	INDUSTRY CASE STUDY SCENARIO	50	

Aims

The aim of this module is to critically evaluate strategic issues in the management of integrated BIM centred projects.

Learning Outcomes

After completing the module the student should be able to:

- 1 Evaluate the key concepts and strategies of Building Information Modelling.
- 2 Analyse collaborative multidisciplinary communication on a BIM project in relation to design integration and change management.
- 3 Analyse the technology and the common data environment that supports BIM.
- 4 Evaluate the contractual and commercial implications of adopting BIM on projects

Learning Outcomes of Assessments

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

INDIVIDUAL	1	2	
PRESENTATION			
REPORT	1	3	4

Outline Syllabus

The concept of BIM, BIM strategies, protocols and standards in a collaborative multidisciplinary format. The stake holder's application of BIM through the lifecycle of a project as related to a project plan of works. The application and issues around technology, interoperability, IFCs, parametric modelling, information exchange, data sharing and integration.

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

Learning Activities

Key skills are developed through lectures, workshops and individual presentations

Notes

This module will provide students with basic theory, concepts, protocols and standards that can be applied to a construction project in a multidisciplinary setting.