

## Liverpool John Moores University

Title: INTEGRATED BIM THEORY  
Status: Definitive  
Code: **7316BEPG** (120991)  
Version Start Date: 01-08-2015

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

Team	Leader
Dianne Marsh	Y

**Academic Level:** FHEQ7      **Credit Value:** 20.00      **Total Delivered Hours:** 33.00  
**Total Learning Hours:** 200      **Private Study:** 167

### 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
Presentation	AS1	INDIVIDUAL	50.0	
Report	AS2	INDUSTRY CASE STUDY SCENARIO	50.0	

### 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.