

## Liverpool John Moores University

Title: COLLABORATIVE BIM PROJECT  
Status: Definitive  
Code: **7312BEPG** (120982)  
Version Start Date: 01-08-2015

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

Team	Leader
Tom Dowd	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 2

Component	Contact Hours
Lecture	6.000
Workshop	27.000

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Portfolio	AS1	Industry BIM case study	100.0	

### Aims

*To allow students to follow BIM protocols and practice in a collaborative multidisciplinary project team to achieve project success.*

### Learning Outcomes

After completing the module the student should be able to:

- 1 Critically apply, interpret and manipulate the processes and standards applicable to the management of information about an asset throughout its lifespan.
- 2 Critically evaluate and relate the engagement of the stakeholders at each stage of the project lifecycle.
- 3 Critically analyse the interaction of process, people and technology in relation to integrated design, design collaboration, lean design and construction, production, project management, integrated project delivery, Lifecycle management, facilities management and assets in a BIM environment.
- 4 Critically apply, interpret and manipulate the application of BIM technologies in one or more of the following: geo-spatial, design, cost, time and facilities management environments.
- 5 Exercise initiative and personal responsibility as a team member or leader, demonstrating an understanding of the different roles within a team of Built Environment professionals.

### **Learning Outcomes of Assessments**

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

Industry case study based	1	2	3	4	5
---------------------------	---	---	---	---	---

### **Outline Syllabus**

*Collaborative multidisciplinary working practices.*

*Skills development.*

*Negotiation.*

*BIM strategies; Employers Information Requirements (EIR), Building Information Modelling Information Plan (BEP), Digital Plan of Works (DPOWs), Data sharing, Technological issues relating to interoperability.*

*Application of BIM technologies specific to construction disciplines.*

*Implementation of change management process within the BIM environment.*

### **Learning Activities**

The central theme of the module is the production of a suitable work derived project and it is supported by the other modules within the programme.

Group work is a key theme of the module; the intention being to simulate the experience of the work place and work place activity, endorsed and approved by the involvement of the various stakeholders as relevant to the workplace generally.

Key skills are developed through lectures, workshops, individual and group Presentations.

### **Notes**

The module develops students' practical and team skills within the context of collaborative working on an industry project.