

Collaborative BIM Project

Module Information

2022.01, Approved

Summary Information

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| Module Code | 7402BEPG |
| Formal Module Title | Collaborative BIM Project |
| Owning School | Civil Engineering and Built Environment |
| Career | Postgraduate Taught |
| Credits | 20 |
| Academic level | FHEQ Level 7 |
| Grading Schema | 50 |

Teaching Responsibility

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| LJMU Schools involved in Delivery |
| Civil Engineering and Built Environment |

Learning Methods

| Learning Method Type | Hours |
|----------------------|-------|
| Lecture | 6 |
| Workshop | 27 |

Module Offering(s)

| Display Name | Location | Start Month | Duration Number Duration Unit |
|--------------|----------|-------------|-------------------------------|
| JAN-CTY | CTY | January | 12 Weeks |

Aims and Outcomes

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| Aims | To allow students to follow BIM protocols and practice in a collaborative multidisciplinary project team to achieve project success. |
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After completing the module the student should be able to:

Learning Outcomes

| Code | Number | Description |
|------|--------|--|
| MLO1 | 1 | Critically apply, interpret and manipulate the processes and standards applicable to the management of information about an asset throughout its lifespan. |
| MLO2 | 2 | Critically evaluate and relate the engagement of the stakeholders at each stage of the project lifecycle. |
| MLO3 | 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. |
| MLO4 | 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. |
| MLO5 | 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. |

Module Content

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

Assessments

| Assignment Category | Assessment Name | Weight | Exam/Test Length (hours) | Module Learning Outcome Mapping |
|---------------------|---------------------------|--------|--------------------------|---------------------------------|
| Report | Industry case study based | 100 | 0 | MLO1, MLO2, MLO3, MLO4, MLO5 |

Module Contacts

Module Leader

| Contact Name | Applies to all offerings | Offerings |
|--------------|--------------------------|-----------|
| Ali Rostami | Yes | N/A |

Partner Module Team

| Contact Name | Applies to all offerings | Offerings |
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