

Liverpool John Moores University

Title: CONSTRUCTION SITE MANAGEMENT 2
Status: Definitive
Code: **5014BEUG** (102760)
Version Start Date: 01-08-2011

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

| Team | Leader |
|-------------|--------|
| Amr Sourani | Y |

Academic Level: FHEQ5
Credit Value: 12.00
Total Delivered Hours: 38.00
Total Learning Hours: 120
Private Study: 82

Delivery Options

Course typically offered: Semester 2

| Component | Contact Hours |
|-----------|---------------|
| Lecture | 24.000 |
| Workshop | 12.000 |

Grading Basis: 40 %

Assessment Details

| Category | Short Description | Description | Weighting (%) | Exam Duration |
|----------|-------------------|-------------|---------------|---------------|
| Exam | AS1 | | 70.0 | 2.00 |
| Report | AS2 | Project | 30.0 | |

Aims

The aim of the module is to introduce students to the procedures required for the successful management of construction projects from pre-tender stage until completion.

Learning Outcomes

After completing the module the student should be able to:

- 1 Produce a site layout plan for a medium sized construction project.
- 2 Determine the duration of construction activities using alternative methods and put these activities into a logical sequence.
- 3 Prepare Risk Assessments and Health and Safety Method Statements for construction projects.
- 4 Develop and analyse precedence diagrams.
- 5 Use PowerProject 8 software to produce construction programmes.
- 6 Critically review the different systems used for short term programming and monitoring of construction work progress.
- 7 Produce cashflow diagrams for construction programmes using the barchart and other alternative methods.

Learning Outcomes of Assessments

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

| | | | | |
|---------|---|---|---|---|
| EXAM | 4 | 6 | 7 | |
| PROJECT | 1 | 2 | 3 | 5 |

Outline Syllabus

Pre-tender planning from a production perspective.
Pre-contract planning from a production perspective including site layout planning.
Method statements and sequencing studies.
Health and Safety method statements and risk assessments.
Production and analysis of precedence diagrams.
Production of barcharts using Power Project 8 software.
Short term programming and monitoring of work progress.
Use of the construction programme as a control mechanism for labour, materials, plant and subcontractors.
Cashflow forecasting for construction projects.
Manpower planning issues in construction.

Learning Activities

Lectures and IT workshops.

References

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| Course Material | Book |
| Author | Cooke B., Williams P. |
| Publishing Year | 2004 |
| Title | Construction Planning, Programming and Control |
| Subtitle | |
| Edition | 2nd |

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|------------------|----------------------|
| Publisher | Blackwell Publishing |
| ISBN | 1405121483 |

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|------------------------|---|
| Course Material | Book |
| Author | Fellows R., Langford D., Newcombe R., Urry S. |
| Publishing Year | 2002 |
| Title | Construction Management in Practice |
| Subtitle | |
| Edition | 2nd |
| Publisher | Blackwell Science |
| ISBN | 0632064021 |

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|------------------------|-------------------------|
| Course Material | Book |
| Author | McGeorge D., Palmer A. |
| Publishing Year | 2002 |
| Title | Construction Management |
| Subtitle | New Directions |
| Edition | 2nd |
| Publisher | Blackwell Publishing |
| ISBN | 0632060425 |

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|------------------------|------------------------------------|
| Course Material | Book |
| Author | Riley M., Cotgrave A. |
| Publishing Year | 2004 |
| Title | Construction Technology 2 |
| Subtitle | Industrial and Commercial Building |
| Edition | |
| Publisher | Palgrave Macmillan |
| ISBN | 0333804821 |

Notes

The module provides students with the knowledge and skills related to the management of construction projects.