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| Module Code: | AUR535 |
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| Module Title: | Construction Site Management |
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| Level: | 5 | Credit Value: | 40 |
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| Cost Centre(s): | GABE | <u>JACS3</u> code: | K220 (CM) |
| | | <u>HECoS</u> code: | 100149 (CM) |

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| Faculty | FAST | Module Leader: | Louise Duff |
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| Scheduled learning and teaching hours | 60 hrs |
| Guided independent study | 304 hrs |
| Placement | 36 hrs |
| Module duration (total hours) | 400 hrs |

| Programme(s) in which to be offered (not including exit awards) | Core | Option |
|--|------|--------------------------|
| BSc (Hons) Construction Management | ✓ | <input type="checkbox"/> |

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| Pre-requisites |
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Office use only

Initial approval: 29/08/2019

Version no: 1

With effect from: 01/09/2019

Date and details of revision: 06/12/19 Admin correction

Version no:2

Module Aims

The module comprises of two elements. The module will be delivered in part in the dedicated Constructionarium (simulated Construction Site office), The first element will provide students with the necessary underpinning knowledge and-appreciation of the overall planning, coordination, supervision and control, both physical and monetary, of a construction project from inception to possession of site to the completion of the scheme.

Students will be able to describe how the construction process is managed within a multi-disciplinary team and to identify and explain how construction sites and operations affects the environment in terms of technical, contractual and legislative requirements relating to a sustainable construction project.

The second element comprise of a Work-based Learning element/ placement which is expected to engage the student, the employer and the academic provider in the identification, analysis and extension of understanding in a work-related aspect of the student's industrial experience. Students will enhance their engagement with Personal Development Planning as part of this module.

Intended Learning Outcomes

Key skills for employability

- KS1 Written, oral and media communication skills
- KS2 Leadership, team working and networking skills
- KS3 Opportunity, creativity and problem solving skills
- KS4 Information technology skills and digital literacy
- KS5 Information management skills
- KS6 Research skills
- KS7 Intercultural and sustainability skills
- KS8 Career management skills
- KS9 Learning to learn (managing personal and professional development, self-management)
- KS10 Numeracy

At the end of this module, students will be able to

Key Skills

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|---|--|-----|------|
| 1 | Demonstrate an appreciation of the construction site process and demonstrate how human resource/people management methods affect the construction process. | KS1 | KS5 |
| | | KS2 | KS6 |
| | | KS3 | KS9 |
| 2 | Select appropriate methods of resource planning and monitoring within the context of site management requirements | KS1 | KS5 |
| | | KS2 | KS10 |
| | | KS3 | |
| 3 | Demonstrate an understanding of the contractual and the health, safety and welfare obligations required when managing a typical construction project. | KS1 | KS4 |
| | | KS2 | KS5 |
| | | KS3 | KS10 |

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|---|---|-----|-----|
| 4 | Deliver a presentation to the peer group that reflects upon the definition, development and completion of an investigative or creative project in the context of their own placement employment responsibilities. | KS1 | KS9 |
| | | KS3 | KS6 |

Transferable skills and other attributes

- Students will be guided to utilise specific Project Management tools such as MS Project.
- Students will understand the importance of public/community engagement in the delivery of successful schemes;
- Students will use their own concurrent work place experience, placements, and engagement with real clients and real projects.

Derogations

Credits shall be awarded by an Assessment Board for those modules in which a pass mark (40%) has been achieved, with a minimum mark of 40% in each element of assessment.

Assessment:

Indicative Assessment Tasks:

Assessment 1: In class test to consider all aspects of Construction Site Management.

Assessment 2: The placement will consist of a formal 36-hour construction related placement evidenced via a 20-minute presentation. The placement will be assessed via a selection of Core Attributes, Key Attitudes and Practical Skillsets as identified in the Wrexham Glyndŵr Graduate Model. This will account for 30% of the overall mark

Both assessments must achieve the minimum pass mark of 40%

| Assessment number | Learning Outcomes to be met | Type of assessment | Weighting (%) | Duration or Word count (or equivalent if appropriate) |
|-------------------|-----------------------------|--------------------|---------------|---|
| 1 | 1,2 & 3 | In-class test | 70 | 2 hrs |
| 2 | 4 | Presentation | 30 | 20 minutes |

Learning and Teaching Strategies:

There will be a combination of approaches used:

A series of key lectures will provide the students with the necessary underpinning knowledge and appreciation of the overall planning, management, coordination, supervision and control, both physical and monetary, of a construction project from inception to possession of site, through to the completion of the scheme.

Workshop sessions and tutorials will be provided to create health and safety risk assessments and method statements and will provide the basis upon which principles and concepts of general and Health, Safety and Welfare aspects will be explored in group-discussions.

IT workshops will be facilitated to explore and utilise computer software planning programmes such as MS Project / Project Commander, etc.

Site visits to live construction sites will play a very valuable role in the teaching strategy.

Guest Lectures will also provide an insight into the practical application of the theory discussed in class and discussion of Best Practice.

The second element of this module comprises of a Work-based Learning element/placement, which is expected to engage the student, the employer and the academic provider in the identification, analysis and extension of understanding in a work-related aspect of the student's industrial experience.

The learning and teaching strategy has been developed to ensure that students are aware of the management, processes, tools, techniques and legal requirements of construction site management, which should enable them to apply this knowledge to practical construction site situations.

Syllabus outline:

- Planning and possession of the site. Contract requirements, identification of site preparation, access, storage on site, aspects of labour, materials and plant, Statutory Undertakers, Considerate Construction and Environmental Assessments
- People Management, teams and integrated teams, leadership and leadership styles, motivating, coordinating, controlling, and communicating.
- Planning and scheduling – digital planning tools, Critical path analysis, Gantt charts, Resource levelling, Key performance indicators.
- Construction Health, Safety and Welfare consideration of key pieces of construction related regulations
- Work Based Learning/Placement. Preparation of self-development plan to include a Development Action Plan, Continuous Professional Development and evaluation of works undertaken, evidence and reflection
- Negotiation of these elements will be undertaken on a student-by-student basis, for example if students are already working in a relevant position.

Indicative Bibliography:**Essential reading**

CIOB. (2014), Chartered Institute of Building Code of Practice for Project Management for Construction and Development, 5th Edition. Malaysia: Wiley Blackwell.

Harris, F, McCaffer, R. (2013), *Modern Construction Management*. London: Blackwell.

Other indicative reading

Cooke, B, Williams, P. (2009), *Construction Planning, Programming and Control*. Oxford: Wiley

Chartered Institute of Architectural Technologists www.ciat.org.uk

Chartered Institute of Building www.ciob.org.uk

Institute for Civil Engineering www.ice.org.uk

Royal Institute of British Architects www.architecture.com

Designing Buildings Wiki www.designingbuildings.co.uk

Other sources:

IHS Database www.ihsti.com