

| Module Details         |                                                |
|------------------------|------------------------------------------------|
| <b>Module Title:</b>   | Construction Management                        |
| <b>Module Code:</b>    | CSE7008-B                                      |
| <b>Academic Year:</b>  | 2019-20                                        |
| <b>Credit Rating:</b>  | 20                                             |
| <b>School:</b>         | Department of Civil and Structural Engineering |
| <b>Subject Area:</b>   | Civil and Structural Engineering               |
| <b>FHEQ Level:</b>     | FHEQ Level 7 (Masters)                         |
| <b>Pre-requisites:</b> |                                                |
| <b>Co-requisites:</b>  |                                                |

| Contact Hours  |       |
|----------------|-------|
| Type           | Hours |
| Lectures       | 36    |
| Tutorials      | 12    |
| Directed Study | 152   |

| Availability |                                                 |
|--------------|-------------------------------------------------|
| Occurrence   | Location / Period                               |
| BDA          | University of Bradford / Semester 1 (Sep - Jan) |

| Module Aims                                                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| To provide students with an understanding of the concepts and techniques of construction and project management with particular reference to their use in an engineering, design and technological organisational environment. |

| Outline Syllabus                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The difference between Construction and Project Management, , Construction Activity Documentation, Corporate strategy and organisation management, The role of a Contractor, Construction techniques, Procurement strategies, Preparing contract documents and tendering, Contract management, Project investment decision -making process, Principles of project planning; The project life cycle, The role of the project Manager, Scheduling and sequencing, |

Gantt Chart, Critical Path Analysis, PERT, Line of Balance. Project organisation and responsibilities. Case studies of successful and unsuccessful projects and the analysis of the management lessons.

### Learning Outcomes

|   |                                                                              |
|---|------------------------------------------------------------------------------|
| 1 | Critically review the key principles of construction and project management. |
| 2 | Apply construction and project management techniques appropriately.          |
| 3 | Interpret data and solve problems.                                           |

### Learning, Teaching and Assessment Strategy

The module is delivered as a continue dialog with students on their understanding of the most important principles of Construction Management, using a series of Power Point lectures supported by tutorials including video presentation and case studies. At least one guest speaker will provide further accounts of industrial experience on specific topics. The exposure of students to industry knowledge in the field is very important, being a final year MEng and MSc. The discussions with students in the tutorial sessions will be followed by the worked solutions being presented and discussed later for students to be able to assess their own level of knowledge.

Other assessment strategies used are case studies discussions in the class, revision questions for each presentation and homework exercises. The revision of the whole syllabus is done in the last week of the teaching semester and again before the examination takes place. The summative coursework will examine more calculation based knowledge like estimation made on behalf of the client or contractor that addresses the learning outcome 3 of the module, whilst the examination is assessing the learning outcomes 1 and 2.

### Mode of Assessment

| Type      | Method                    | Description | Length     | Weighting |
|-----------|---------------------------|-------------|------------|-----------|
| Summative | Examination - closed book |             | 2 hours    | 70%       |
| Summative | Coursework                | Essay       | 1500 words | 30%       |

### Reading List

To access the reading list for this module, please visit <https://bradford.rl.talis.com/index.html>.

*Please note:*

*This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.*