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| Module Code | CE7M01 |
| Module Name | M1: Civil Engineering Management |
| ECTS Weighting¹ | 10 ECTS |
| Semester taught | Semester 1 |
| Module Coordinator/s | Asst. Prof. Niamh Harty (Niamh.harty@tcd.ie) Lecturer(s): J. O'Connor; P O'Sullivan; I. Barrett; S. McEvoy; F. Cooney; T. Allwright; K. Rudden. |
| <u>Module Learning Outcomes</u> with reference to the <u>Graduate Attributes</u> and how they are developed in discipline | <p>On successful completion of this module, students should be able to:</p> <p>LO1. Understand the key elements of the management of large projects.</p> <p>LO2. Be able to use MS Project to design, update and modify a programme for the completion of a small project.</p> <p>LO3. Understand the roles of the parties to a civil engineering contract, and be aware of the different methods of dispute resolution in use in Ireland today.</p> <p>LO4. Appreciate the importance of HR and strategic management in Business.</p> <p>LO5. Be aware of health and safety legislation, and the importance of safety Management.</p> <p>LO6. Have a good knowledge of what is involved in industrial relations and the content of IR and employment legislation.</p> <p>Graduate Attributes: levels of attainment</p> <p>To act responsibly - Enhanced</p> <p>To think independently - Enhanced</p> <p>To develop continuously - Enhanced</p> <p>To communicate effectively - Enhanced</p> |

Module Content

This module aims to provide civil engineers with some of the management tools they will need in their careers whether it be on a construction site or in a design office. Students who complete this module will have a knowledge of project management concepts and the use of computers in civil engineering project management; construction contracts and dispute resolution methods; industrial relations and employment legislation; Health and Safety legislation and safety management; management and strategic HR.

Teaching and Learning Methods

There will be 30 hours of lectures, and 8 hours of practicals using MS Project. All lectures and practicals will be online.

Assessment Details²
Please include the following:

- **Assessment Component**
- **Assessment description**
- **Learning Outcome(s) addressed**
- **% of total**
- **Assessment due date**

| Assessment Component | Assessment Description | LO Addressed | % of total | Week due |
|----------------------|---|--------------|------------|---------------|
| Examination | 3 hour open book time-limited take-home examination | 1,3,4,5,6 | 80% | |
| Project | This is a planning exercise using MS project. | 1, 2 | 20% | December 2020 |
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Reassessment Requirements

None

Contact Hours and Indicative Student Workload²

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| <p>Total Contact hours: 38 hours</p> <ul style="list-style-type: none"> • Lectures – 30 hours • Practical – 8 hours |
| <p>Independent Study (preparation for course and review of materials): 38 hours</p> |
| <p>Independent Study (preparation for assessment, incl. completion of assessment):</p> <ul style="list-style-type: none"> • Lectures and exam - 120 hours • Project – 30 hours |

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| Recommended Reading List | Extra reading may be recommended by individual lecturers |
| Module Pre-requisite | |
| Module Co-requisite | |
| Module Website | |
| Are other Schools/Departments involved in the delivery of this module? If yes, please provide details. | No |
| Module Approval Date | |
| Approved by | |
| Academic Start Year | 1 st September 2019 |
| Academic Year of Date | 2019/2020 |