Module Code	CE7M01
Module Name	M1: Civil Engineering Management
ECTS credit weighting	10 ECTS
Semester taught	Semester 1
Module Coordinator/s	Prof. John Gallagher (J.Gallagher@tcd.ie)
Module Learning Outcomes with embedded Graduate Attributes	On successful completion of this module, students should be able to: LO1. Understand the key elements of the management of large projects over their life cycle. LO2. Apply MS Project to design, update and modify a programme for the completion of a small engineering project. LO3. Understand how to implement an engineering project successfully, and align with governing legal, ethical, and health and safety considerations. LO4. Describe the responsibilities of a project manager in relation to managing technical aspects of a project, including financial/accounting, infrastructure delivery, and project assets. LO5. Describe appropriate structures to effectively lead project meetings and strategically manage subordinate staff and operatives. LO6. Distinguish the roles of the parties to a civil engineering contract and the different methods of dispute resolution in use in Ireland today. LO7. Explain what is involved in industrial relations and the content of IR and employment legislation. LO8. Implement a management approach to support a creative and entrepreneurial ecosystem within an engineering organisation.
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 tools in civil engineering project management; the law of contract and dispute resolution methods; industrial relations and employment legislation; health and safety legislation; safety management; environmental and sustainability issues; infrastructure delivery and asset management; people management; accounting; supporting creativity and entrepreneurship in engineering.

Teaching and Learning Methods[1]	There will be 28 hours of in-person lectures, and 8 hours of either in-person or online practicals using MS Project.

Assessment Details[2]

Assessment Component	Assessment Description	LO Addressed	% of total	Week due
Group Project	This is a planning MS project exercise, with a supporting report.	1-4	30%	End Wk 12
Examination	3-hour written examination	1,3-8	70%	

Reassessment Requirements	Examination (3 hours) – 100%, must achieve 50% to pass

Contact Hours and Indicative Student Workload[3]

Contact hours: 36 hours (28 hours of lectures and 8 hours of practicals)
Independent Study (preparation for course and review of materials): 54 hours
Independent Study (preparation for assessment, incl. completion of assessment): 100 hours of revision of lecture content for exam, and 60 hours for the project.

Indicative Reading List (approx. 4-5 titles)	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

[1] Trinity-INC provides tips and resources on how to make your curriculum more inclusive.
[2] https://www.tcd.ie/academicpractice/resources/assessment/
[3] https://www.tcd.ie/academicpractice/resources/assessment_workload/