

Civil Design Project

Module Code:	CSE5010-A
Academic Year:	2018-19
Credit Rating:	10
School:	Department of Civil and Structural Engineering
Subject Area:	Civil and Structural Engineering
FHEQ Level:	FHEQ Level 5
Module Leader:	Dr Therese Sheehan

Additional Tutors:

Pre-requisites:

Co-requisites:

Contact Hours

Type	Hours
Lectures	16
Tutorials	10
Directed Study	74

Availability Periods

Occurrence	Location/Period
BDA	University of Bradford / Semester 2 (Feb - May)

Module Aims

1. To strengthen problem solving ability, team working skills, time management and communication skills through participation in a realistic civil engineering project.
2. To appreciate the scope of issues that influence a particular project, and the compromises that are necessary for the realization of an economically and viable engineering solution.
3. To learn to exercise good engineering judgement, and to make and defend design

decisions

4. To develop an understanding of the basic aspects of health and safety in civil engineering

Outline Syllabus

The development of solutions to representative practical problems in Civil Engineering. This task is carried out in a group to realistically simulate the nature of the procedure in the construction industry. Factors such as resource availability, sustainability, buildability, durability, life cycle costs, structural form, aesthetics, maintenance and health and safety are taken into consideration. Completing a risk assessment of a construction-based operation.

Module Learning Outcomes

On successful completion of this module, students will be able to...

- 1
 1. Appreciate in a group-based working environment the interrelations among architectural, structural, environmental and economic aspects of civil engineering projects
 2. Understand sustainability issues in civil engineering
 3. Understand health and safety regulations in the construction industry
- 2
 1. Analyse and evaluate information to obtain viable solutions to a particular civil engineering problem
 2. Communicate effectively with other engineers using hand sketches
 3. Write a Risk Assessment for a construction activity
- 3
 1. Manage, present and interpret data
 2. Solve problems systematically and creatively
 3. Work effectively in a team

Learning, Teaching and Assessment Strategy

Concepts will be introduced using formal lectures. Group project work will take place during scheduled tutorials and independent working hours. Tutors will use timetabled tutorials to meet with groups and tackle specific issues. The module will be mainly assessed through two submissions: a group report covering the conceptual design and an individual report containing a risk assessment of a specific task. Marks will also be awarded for lecture/tutorial attendance, consistency and quality of progress throughout the semester and contribution to the team effort in preparing the conceptual design report. Each group will be expected to keep a weekly log book as evidence of their progress and a record of the tasks completed by individual members.

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
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Summative	Other form of assessment DO NOT USE	Participation within the group	10%	No
Summative	Coursework	Individual risk assessment report	20%	Yes
Referral	Coursework	Supplementary - repair deficiencies in own contribution to group report and individual risk assessment report	100%	No
Summative	Coursework	Group conceptual design report	70%	No

Legacy Code (if applicable)

ENG2306M

Reading List

To view Reading List, please go to [rebus:list](#).