UNIVERSITY of BRADFORD

Module Descriptor

Module Details	
Module Title	Feasibility Study
Module Code	CSE6003-B
Academic Year	2020/1
Credits	20
School	Department of Civil and Structural Engineering
Subject Area	Civil and Structural Engineering
FHEQ Level	FHEQ Level 6
Pre-requisites	N/A
Co-requisites	N/A

Contact Hours	
Type	Hours
Fieldwork	16
Lectures	4
Tutorials	28
Directed Study	152

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Semester 1

Module Aims

(1) To develop solutions to civil engineering problems by a process of critical appraisal and review using information obtained from a reconnaissance survey (via recorded description video) and other sources.
(2) To provide an opportunity to be creative and innovative.
(3) To further develop presentation, team working and personal management skills.

Outline Syllabus

The feasibility study is set against the backdrop of the social and economic problems facing the town of Whitby in North Yorkshire. The study includes reconnaissance surveys (via recorded description video) of selected parts of the town; development of a detailed brief from the Client's outline brief and coursework briefing; evaluation and analysis of evidence and data gained via the video and from other sources; development of detailed proposed solutions to the series of civil engineering problems by a process of critical appraisal and review. The nature of the data and evidence collected and the solutions developed will vary depending on the Client's outline brief and the area selected. Factors to be considered by the design teams will vary but are likely to include most of: geology, weathering processes and properties of surface and near-surface deposits; ground conditions; flood and tidal risk; construction methods including temporary works, plant access and materials availability; historical perspective; architectural vernacular; alternative structural forms; aesthetics; noise pollution; health and safety considerations including risk assessment; durability and materials performance; financial risk; project planning; sustainability (economic, ecological, environmental and socio-economic factors); designing for ease of inspection, low maintenance, demolition and re-cycling; buildability and planning constraints. Presentation of results of feasibility study by written team report.

Learning Outcomes

Outcome Number	Description
01	Apply the knowledge to solve open-ended civil engineering problems.
02	Define a problem and the constraints to the solutions.
03	Apply the principles of sustainability to solve open-ended civil engineering problems.
04	Critically evaluate information obtained from sources to establish design objectives.
05	Apply creative and innovative methods to critically assess alternative proposals against the design objectives.
06	Use design data and IT skills to present technical solutions to a problem; demonstrate written and oral communication skills.

Learning, Teaching and Assessment Strategy

Relevant knowledge on various aspects of the module is delivered at lectures and through watching the video. Student teams are encouraged to propose and develop their designs on concerned aspects required in the module coursework briefing. Tutorial sessions with module lecturers are arranged to discuss, consult and improve students' group work. Directed study will provide students' groups to undertake and complete their coursework.
Much of the formative feedback for this module will be informal, through class and mostly tutorial sessions and questioning. During tutorials, lecturers will ask questions of the class and the answers to these questions will help to assess students' level of understanding of the subject. We may ask students specific questions to ascertain their understanding of concepts. When asking questions, we will either confirm the correct answer or will provide further learning for the group to aid in the understanding of that particular subject. Oral feedback will be given to students' teams during tutorial session. Written feedback of the group coursework report will be provided in VLE.

Detailed assessment criteria are developed to fully assess every aspect of the team work (e.g. the team written report) in terms of the quality and quantity of the work they have undertaken as a team and their individual contribution to the team effort. Peer assessment form is developed to allow students to assess their peer?s contribution which is considered for individual student assessment. Students will receive all summative feedback within four working weeks after the handing date of the group coursework report. Once the feedback is available on VLE we will announce this in VLE.

Mode of Assessment				
Type	Method	Description	Length	Weighting
Summative	Coursework	Group Report 4000 words per student	N/A	100%

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.

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