Module Descriptor

Title	Civil Engineering Honours Project		
Session	2025/26	**Status**	Published
Code	ENGG10012	**SCQF Level**	10
Credit Points	40	**ECTS (European Credit Transfer Scheme)**	20
School	**Computing, Engineering and Physical Sciences**		
Module Co-ordinator	W Zhu		

Summary of Module

This module is supported by a number of scheduled introductory lectures and workshops which provide relevant background, project methodology and project support (e.g. project selection, planning and execution, requirements and assessment, information gathering, literature review and referencing, health & safety and risk assessment, ethical issues and approval process, statistical data analysis and introduction to design of experiment, etc). Optional lectures covering various specific aspects of individual project work and dissertation are also provided during the course of the module.

Individual project topics will normally arise from one of three sources.

i. the interests of a member of staff;

ii. a field of practical interest identified by the student him/herself;

iii. an area of industrial relevance to the student's vocational training.

Prior to embarking on the work of the Project, each student will be issued with a 'Project Handbook' detailing the various aspects of project work, requirements and assessment.

The Project will be carried out at the University, with personal guidance being provided by a Project Supervisor and a Project Moderator. The Supervisor will provide day-to-day management, whilst the Moderator will give access to broader specialist assistance. The student will hold regular meetings with the Supervisor and/or the Moderator.

Three components will combine to make up the overall assessment. These are:

i. written project report/dissertation - assessed at 60%

ii. continuous assessment of performance – assessed at 20%

iii. oral presentation/defence – assessed at 20%

This module will work to develop a number of the following key 'I am UWS' graduate attributes: Critical thinker, Analytical, Inquiring, Collaborative, Research-minded, Knowledgeable, Effective communicator, Autonomous, Problem solver, Innovative and Driven.

Module Delivery Method	On-Campus[1] ☒	Hybrid[2] ☐	Online[3] ☐	Work -Based Learning[4] ☐
Campuses for Module Delivery	☐ Ayr ☐ Dumfries	☐ Lanarkshire ☐ London ☒ Paisley	☐ Online / Distance Learning ☐ Other (specify)	

Terms for Module Delivery	Term 1	☒	Term 2	☒	Term 3	☐
Long-thin Delivery over more than one Term	Term 1 – Term 2	☐	Term 2 – Term 3	☐	Term 3 – Term 1	☐

Learning Outcomes	
L1	Plan, organize and carry out an in-depth independent study in an appropriate design/engineering/project management area.
L2	Apply sound engineering knowledge/design principles and prepare research/design solutions/tools to an engineering application.
L3	Analyse critically and communicate clearly and concisely the work and findings of the individual study.
L4	Prepare and give an oral presentation of the project and oral defence of the work.
L5	N/A

Employability Skills and Personal Development Planning (PDP) Skills	
SCQF Headings	**During completion of this module, there will be an opportunity to achieve core skills in:**
Knowledge and Understanding (K and U)	**SCQF 10** SCQF Level 10 • Develop and consolidate knowledge and understanding of some more advanced aspects of civil engineering. • Have an appreciation the wider aspects of civil engineering practice and design, along with critical awareness of the needs and pressures of a modern industrial society (e.g. cost, safety & risk management, sustainability, environment, professionalism and ethics, etc).

[1] Where contact hours are synchronous/ live and take place fully on campus. Campus-based learning is focused on providing an interactive learning experience supported by a range of digitally-enabled asynchronous learning opportunities including learning materials, resources, and opportunities provided via the virtual learning environment. On-campus contact hours will be clearly articulated to students.

[2] The module includes a combination of synchronous/ live on-campus and online learning events. These will be supported by a range of digitally-enabled asynchronous learning opportunities including learning materials, resources, and opportunities provided via the virtual learning environment. On-campus and online contact hours will be clearly articulated to students.

[3] Where all learning is solely delivered by web-based or internet-based technologies and the participants can engage in all learning activities through these means. All required contact hours will be clearly articulated to students.

[4] Learning activities where the main location for the learning experience is in the workplace. All required contact hours, whether online or on campus, will be clearly articulated to students

Practice: Applied Knowledge and Understanding	**SCQF 10** • Define and execute a project of research, development and/or investigation and identify and implement relevant outcomes. • Possess practical engineering skills acquired through individual and group project work, through design work and in the development and use of computer software in design and analysis. • Use creativity and innovation. • Further application of the use of technical literature and other information sources.
Generic Cognitive skills	**SCQF 10** • Critically review and consolidate knowledge, skills, practices and thinking in civil engineering and project management areas. • Be able to apply appropriate quantitative methods to the analysis and solution of engineering problems. • Develop critical thinking skills and professional judgements.
Communication, ICT and Numeracy Skills	**SCQF 10** • Make formal presentations about specialized topics to informed audiences. • Ability to apply computer software in order to solve civil engineering problems.
Autonomy, Accountability and Working with Others	**SCQF 10** • Exercising autonomy and initiative in addressing an engineering problem • Further develop skills in planning self-learning and appreciation the need for continuing professional development.

Prerequisites	**Module Code**	**Module Title**
	Other	
Co-requisites	**Module Code**	**Module Title**

Learning and Teaching	
In line with current learning and teaching principles, a 20-credit module includes 200 learning hours, normally including a minimum of 36 contact hours and maximum of 48 contact hours. This is a 40-credit individual project module, running in Terms 1 and 2. Apart of a number of scheduled general introductory lectures and workshops, the main activity will be project specific (i.e. depending on the individual project chosen) and driven by the individual student, supported by the Academic supervisors and technicians.	
Learning Activities During completion of this module, the learning activities undertaken to achieve the module learning outcomes are stated below:	**Student Learning Hours** (Note: Learning hours include both contact hours and hours spent on other learning activities)
Lecture / Core Content Delivery	10

Tutorial / Synchronous Support Activity	8
Laboratory / Practical Demonstration / Workshop	3
Independent Study	379
n/a	0
n/a	0
TOTAL	400

Indicative Resources

The following materials form essential underpinning for the module content and ultimately for the learning outcomes:

Various handout material, including Civil Engineering Honours Project Handbook Various Module resource materials available in Aula VLE.

Extension Resources:

Softwares, e.g. Oasys GSA (General structural analysis), by Arup

Various journals/books and databases, e.g. ICE proceedings, Construction information services, British Standard online, etc

Other materials may be provided by the project supervisor dependent on individual project title.

(N.B. Although reading lists should include current publications, students are advised (particularly for material marked with an asterisk*) to wait until the start of session for confirmation of the most up-to-date material)

Attendance and Engagement Requirements

In line with the Student Attendance and Engagement Procedure, Students are academically engaged if they are regularly attending and participating in timetabled on-campus and online teaching sessions, asynchronous online learning activities, course-related learning resources, and complete assessments and submit these on time.

For the purposes of this module, academic engagement equates to the following:

The School of Computing, Engineering and Physical Sciences considers attendance and engagement to mean a commitment to attending, and engaging in timetabled sessions. Students will scan their attendance via the attendance scanners each time they are on-campus. Students will have attendance recorded in class and they will be expected to login to the VLE several times per week. Students who are unable to attend a timetabled learning session, due to illness or other circumstance, should notify their Programme Leader. Across the School an 80% attendance threshold is set. Students who fall below this, will be referred to the Student Success Team to see how they can be best supported in their studies.

There are several key dates when students will be required to submit/participate: Project specification, Interim report, Progress presentation, Dissertation, Final presentation/viva.

Equality and Diversity

The University's Equality, Diversity and Human Rights Procedure can be accessed at the following link: UWS Equality, Diversity and Human Rights Code.

Aligned with the University's commitment to equality and diversity, this module supports equality of opportunity for students from all backgrounds and learning needs. Using the VLE, material will be presented electronically in formats that allow flexible access and manipulation of content. This module complies with University regulations and guidance on

inclusive learning and teaching practice. This module may have lab-based acitivities and as such students are advised to speak to the project supervisor to ensure that specialist assistive equipment, support provision and adjustment to assessment practice can be put in place, in accordance with the University's policies and regulations.
(N.B. Every effort will be made by the University to accommodate any equality and diversity issues brought to the attention of the School)

Supplemental Information

Divisional Programme Board	**Engineering Physical Sciences**
Overall Assessment Results	☐ **Pass / Fail** ☒ **Graded**
Module Eligible for Compensation	☐ **Yes** ☒ **No** **If this module is eligible for compensation, there may be cases where compensation is not permitted due to programme accreditation requirements. Please check the associated programme specification for details.**
School Assessment Board	Civil Engineering and Quality Management
Moderator	J Hughes
External Examiner	A Robinson
Accreditation Details	This module is accredited by the Joint Board of Moderators as part of BEng (Hons) Civil Engineering.
Module Appears in CPD catalogue	☐ **Yes** ☒ **No**
Changes / Version Number	Updates: VERS1.2 - XX details updated. VERS1.3 - Accreditation details added. VERS1.4 - KIS changes made in Sections 9 and 10 VERS1.5 - "A minimum of 40% for individual project is required to achieve a 'Pass' in this module" is inserted in Section 5. VERS1.6 - Pre-requisite & Co-requisite removed VerS1.7 - 'UWS Graduate Attributes' statement added V1.8 Minor additions made to the indicative resources; Module Moderator is changed from Callum Tooth to Andrzej Wrzesien V1.9. Added Blended delivery to reflect likely impacts by COVID-19. V1.10. Module title changed to reflect the fact that Interact has now moved to the 3rd year of study. Minor changes have been applied to the learning outcome and some of the skills developments, and the assessments to reflect the above changes and also to meet the JBM requirements for CEng Partial accreditation. V1.11. Detailed EDI statement added V1.12. Module Moderator is changed from Andrzej Wrzesien to John Hughes, and External Examiner updated. V1.13. Minor updates for Attendance & Engagement requirements, and for Equality & Diversity.- March 2025

Assessment (also refer to Assessment Outcomes Grids below)
Assessment 1
Written Dissertation - 60%
Assessment 2
Project Activity (continuous assessment) - 20%
Assessment 3
Oral Presentation and Defence - 20%
(N.B. (i) Assessment Outcomes Grids for the module (one for each component) can be found below which clearly demonstrate how the learning outcomes of the module will be assessed. (ii) An indicative schedule listing approximate times within the academic calendar when assessment is likely to feature will be provided within the Student Module Handbook.)

Component 1							
Assessment Type	**LO1**	**LO2**	**LO3**	**LO4**	**LO5**	**Weighting of Assessment Element (%)**	**Timetabled Contact Hours**
Dissertation/ Project report/ Thesis	☒	☒	☒	☐	☐	60%	0

Component 2							
Assessment Type	**LO1**	**LO2**	**LO3**	**LO4**	**LO5**	**Weighting of Assessment Element (%)**	**Timetabled Contact Hours**
Project activity/Continuous assessment	☐	☒	☒	☐	☐	20%	0

Component 3							
Assessment Type	**LO1**	**LO2**	**LO3**	**LO4**	**LO5**	**Weighting of Assessment Element (%)**	**Timetabled Contact Hours**
Oral Presentation/Defence	☐	☐	☐	☒	☐	20%	0.5
Combined total for all components						100%	0.5 hours

Change Control

What	**When**	**Who**
V1.13. Minor updates for Attendance & Engagement requirements, and for Equality & Diversity.- March 2025	March 2025	W Zhu
