Module Details

Module Title	Advanced Final Year Project
Module Code	CSE7011-D
Academic Year	2024/5
Credits	40
School	School of Built Environment, Architecture & Creative Industries
FHEQ Level	FHEQ Level 7

Contact Hours

Type	Hours
Lectures	4
Project Supervision	24
Supervised time in studio/workshop	18
Directed Study	354

Availability

Occurrence	Location / Period
BDA	University of Bradford / Academic Year

Module Aims

To enable the students to further develop their research and problem solving skills to a high level by advanced work on a research project of their own choice; to allow the students to further consolidate and enhance skills in oral and writing communication to an advanced level, to help students to have a deeper understanding to the UN sustainable development goals and current sustainability challenges in relevant areas.

Outline Syllabus

The project is a continuation of the Stage 3 individual research project or another project at an advanced level. It might comprise the implementation of the plan of further work identified as a consequence of the individual Project at stage 3. In this way, the current work is student centered rather than staff centered. Students develop and appropriately apply knowledge of design, sustainability and health and safety in the chosen field of project investigation, in particular develop solutions for current sustainability challenges, such as climate crisis and the UN sustainable goals in relevant areas.

Students will have to liaise with Technical Support Staff to ensure that all facilities are available for an immediate start on the research work. The work requires students to show a very high degree of initiative and independence.

Learning Outcomes

Outcome Number	Description
O1	Make a contribution to knowledge of a specific field of civil engineering (the exact nature of which depends on the project).
O2	Employ current scientific understanding of a subject to solve a substantial research and/or design problem. Write a lengthy piece of research-based analysis and discussion, structured around a coherent intellectual thesis, and presented in line with scholarly expectations about standards of accuracy, style, and documentation.
O3	Enhance your skills in interpretation and presentation of data, solve problems systematically and creatively. Demonstrate skills in communication, life-long learning and personal management
O4	Consider any health and safety, ethical or sustainability issues which relate to the particular field of research. Demonstrate deeper understanding of sustainability challenges in relevant research field.

Learning, Teaching and Assessment Strategy

Students will be expected to take ownership of their project, employing independent and directed study hours to achieve their project goals. Academic support will be in the form of one to one tutorials with a designated member of academic staff. Research/experiment/theory and/or analysis/simulation with verification and/or validation explored in the formal tutorial sessions with the project supervisor. Learning methods will depend on the nature of the project being undertaken. Students may engage with advanced Computer Aided Engineering applications, research focused laboratory equipment. Learning support is provided by either their academic supervisor, research or technical staff.
Learning and teaching methods include a combination of lectures and face to face tutorial/supervision.
Students will prepare a written dissertation outlining their project and associated findings. The structure of the report will depend on the research project undertaken and will be defined in conjunction with academic tutors. Any supporting evidence including computer models, test data, etc. will be submitted as an asset folder with associated table of contents.
Students will also present their work in the form of an oral presentation.
The formal assessment will examine the wider learning outcomes expressed in the descriptor.
Supplementary assessment is to repair deficiency in original submission.
Oral feedback will be given throughout the project during timetabled tutorial sessions with the project supervisor.

Mode of Assessment

Type	Method	Description	Weighting
Summative	Presentation	Oral presentation at the end of Sem 2 (30 Mins)	20%
Summative	Dissertation or Project Report	Dissertation (written report) submitted as a project asset (8000 words)	80%
Formative	Dissertation or Project Report	Progress report (sem 1) for formative feedback	N/A

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.