Module Specification

Foundation Group Project

Version: 2025-26, v3.0, Approved

Contents

Part 1: Information

Module title: Foundation Group Project

Module code: UFMFHG-15-0

Level: Level 3

For implementation from: 2025-26

UWE credit rating: 15

ECTS credit rating: 7.5

College: College of Arts, Technology and Environment

School: CATE School of Computing and Creative Technologies

Partner institutions: None

Field: Computer Science and Creative Technologies

Module type: Module

Pre-requisites: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: This module would be a good opportunity for students to develop their investigation skills of engineering problems, to engage with applications to real-world problems, and to contemplate a further study in some area of simulation/optimisation modelling. Various investigation methods learnt in this module, including data analysis, defining goals and strategy selection, might be applied to a wide variety of real-world situations.

Features: Not applicable

Educational aims: The aim of the module is to introduce the theory, application and simulation/optimisation of engineering problems. Students will work in groups to develop research, modelling, problem solving and investigation skills. Communication and teamwork skills will also be achieved as necessary.

Outline syllabus: By a combination of taught and project-based learning students will become conversant with:

Group Work: basic principles of group dynamics. Understanding of roles within groups and management of themselves and their peers.

Use of information research skills, library skills, report writing, oral presentation and poster displays including professional standards of referencing.

Use of software tools to model and analyse data as part of project based problems.

Project management: develop an understanding of professional project management to set the foundation of good professional practise.

As the aims of this module are to assist students to develop skills, the specific content of each project may vary and fluctuate to meet the needs of the students.

Part 3: Teaching and learning methods

Teaching and learning methods: Scheduled teaching and learning will be based around group projects supported by lectures, project supervision and workshops.

Independent learning includes hours engaged in research, investigation, software practise, analysis and preparation of group reports and presentations.

Hours:
Lectures and tutorials: 36
Assimilation and skill development: 27

Coursework: 72

Presentation preparation: 15

Total: 150

Module Learning outcomes: On successful completion of this module students will achieve the following learning outcomes.

MO1 Identify the main issues to be examined and the problems to be solved in the execution of a technical project.

MO2 Demonstrate communication and research skills, use of information sources, technical report writing and presentations.

MO3 Generate data as part of a technical investigation using appropriate computational or experimental techniques.

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 114 hours

Face-to-face learning = 36 hours

Reading list: The reading list for this module can be accessed at readinglists.uwe.ac.uk via the following link https://uwe.rl.talis.com/modules/ufmfhg-15-0.html

Part 4: Assessment

Assessment strategy: The assessment strategy is designed to engage and support students through the process of researching, completing and reporting on a group project.

Groups select one project from a series of mini group projects completed during the course. Students prepare a group poster presentation (30min) on the problem covered in their group report. Group posters will be submitted ahead of the presentation slot and there will be time for academics to ask students questions on it during the allocated presentation time. The Q&A along with Peer Review will be

used to provide an individualised mark for each student. To ensure an inclusive curriculum, students may opt to undertake the alternative individual assessment (15 min presentation) in-place of the group poster presentation.

The resit assessment strategy is the same as the first sit.

Assessment tasks:

Presentation (First Sit)
Description: Group presentation (30 mins)
Weighting: 100 %
Final assessment: Yes
Group work: Yes
Learning outcomes tested: MO1, MO2, MO3

Presentation (Resit)
Description: Group presentation (30 mins)
Weighting: 100 %
Final assessment: Yes
Group work: Yes
Learning outcomes tested: MO1, MO2, MO3

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Electrical and Electronic Engineering {Foundation} [Frenchay] BEng (Hons) 2025-26

Automotive Engineering {Foundation} [Frenchay] BEng (Hons) 2025-26

Aerospace Engineering with Pilot Studies {Foundation} [Frenchay] BEng (Hons) 2025-26

Civil Engineering {Foundation} [Frenchay] BEng (Hons) 2025-26

Mechanical Engineering {Foundation} [Frenchay] BEng (Hons) 2025-26

Engineering {Foundation} [Frenchay] BSc (Hons) 2025-26

Aerospace Engineering {Foundation} [Frenchay] BEng (Hons) 2025-26

Mechatronics Engineering {Foundation} [Frenchay] MEng 2025-26

Mechatronics Engineering {Foundation}[Frenchay] BEng (Hons) 2025-26

Robotics {Foundation} [Frenchay] BEng (Hons) 2025-26

Electrical and Electronic Engineering {Foundation} [Frenchay] BEng (Hons) 2025-26

Robotics {Foundation} [Frenchay] BEng (Hons) 2025-26

Civil Engineering {Foundation} [Frenchay] BEng (Hons) 2025-26

Automotive Engineering {Foundation} [Frenchay] BEng (Hons) 2025-26

Aerospace Engineering with Pilot Studies {Foundation} [Frenchay] BEng (Hons) 2025-26

Mechanical Engineering {Foundation} [Frenchay] BEng (Hons) 2025-26

Mechatronics Engineering {Foundation} [Frenchay] MEng 2025-26

Aerospace Engineering {Foundation} [Frenchay] BEng (Hons) 2025-26

Mechatronics Engineering {Foundation}[Frenchay] BEng (Hons) 2025-26