Module Specification

Industrial Placement

Version: 2023-24, v2.0, 15 Mar 2023

Contents

Part 1: Information

Module title: Industrial Placement

Module code: UFMF89-15-3

Level: Level 6

For implementation from: 2023-24

UWE credit rating: 15

ECTS credit rating: 7.5

Faculty: Faculty of Environment & Technology

Department: FET Dept of Engineering Design & Mathematics

Partner institutions: None

Field: Engineering, Design and Mathematics

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 requires the student to take on a substantial period of supervised work experience, relevant to their academic programme of study, in a professional environment (referred to below as a “placement”). The precise details of the job requirements involved are negotiated and agreed between employer and student, with assistance and advice from the University as needed.

Students are expected to demonstrate professional success in working to the

employer's brief, and to reflect critically on the work experience in relation to their academic programme and their personal and career development.

Students will be able to identify personal, professional development goals, review evidence to demonstrate their professionalism and develop an initial career plan. Students will reflect upon their strengths and areas for improvement and understand relevant professional requirements. The output from this activity will be an initial portfolio that can then be updated throughout their career.

Students are encouraged to seek their own work experience, and/or access the opportunities promoted via the University in association with employers.

A range of further support services is generally made available to prospective candidates, including briefing materials including advice from the Module Leader, UWE Careers Service and Placements Team about placement expectations, employability, job-seeking, interview skills, etc.

Advice and information on the criteria for suitability of prospective placements is made available, and all placements are subject to prior approval by the Module Leader in accordance with an advertised procedure.

Features: Module Entry Requirements: 210 credits of which 90 must be at level 2 or above

Educational aims: The aim of this module is to use a substantive work-based experience to develop a sound basis for understanding the role of the engineer or mathematical scientist in an appropriate professional environment.

Outline syllabus: Outline syllabus:
The professional environment
Professional behaviours and working with others
Personal skills analysis and reflective practice
Career planning tools
Performance diagnostic tools
Equality and diversity, the inclusive workplace
Ethics

Continuing Professional Development
Professional literature
Emerging issues in their discipline/technology domain.

Part 3: Teaching and learning methods

Teaching and learning methods: Scheduled learning includes seminars, and workshops at level 1 and 2 to encourage students to find placements. Pre-departure briefings are held for those who achieve placements.

Independent Placement learning includes hours engaged with essential reading, understanding of the placement environment and its business position, assignment preparation and completion etc.

The contact time is made up of online, real-time or email-based tutor advice and support, plus online student group discussion board and virtual learning environment support and workplace learning and research activities, supplemented where possible by a tutor visit and/or synchronous student-student or student-staff sessions.

The placement will involve a workplace supervisor to support and encourage personal and career development as well as monitor the student's professional performance in accordance with company norms. The employer is encouraged to support or accommodate the student's broader development, for example through relevant training opportunities and some time out for study, self-directed and reflective work. The opportunity for the student to experience a variety of job roles within the workplace is also encouraged where practicable.

The academic work employs a distance learning approach to self-managed project-based learning in parallel with the work experience.

An individual tutor provides academic supervision and support, which may include a

site visit as well as distance learning support. Tutors generally act as facilitators of independent self-managed learning and resource discovery.

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

MO1 Create, implement and evaluate a plan for professional development

MO2 Critically examine industry requirements via UK-SPEC for Engineers, in relation to your own professional development

MO3 Discuss and critically appraise relevant literature about the impact of engineering in society

MO4 Reflect on the importance of people and behaviours in the engineering process, based on your learning and development in the workplace.

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 114 hours

Face-to-face learning = 36 hours

Total = 150

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/ufmf89-15-3.html

Part 4: Assessment

Assessment strategy: The Strategy:
An individual e-portfolio is maintained over the whole module as a ‘container’ for academic outputs at regular intervals, as evidence of professional work in progress, and to track and reflect on professional and personal development. Students will maintain access to this and so it can be used as a basis for ongoing professional development throughout their career.
The student takes responsibility for defining their own study plan and project

management methodology at the start of the module, and is given flexibility in planning his/her academic work to synchronize effectively with professional and personal commitments.
Portfolio submissions are scheduled in advance, then submitted and assessed preliminarily as the module progresses. This provides for embedded formative feedback as well as summative assessment through the module, taking into account the quality of the student's reflective thinking and employer feedback on professional standards and achievements.

The Assessment:

Pass/Fail Reflective pieces: students are required to show engagement with the module by submitting Log Books, at two stages throughout the year, to review progress and reflection on learning to date. No mark is given but they must engage in order to pass the module.

Portfolio 1: Interim portfolio including a summary report and a skills matrix: to see how students are developing within the placement and their initial reflection on career progression.

Portfolio 2: Final portfolio including a final report, and an updated skills matrix: to see the student's evaluation and reflection about the placement. This will also contain research around competency development and culminate in an initial career plan.

Resit Pass/fail Reflective pieces: any pass/fail activities not passed within the assessment window will need to be re-assessed.

Resit Portfolio 1: if the student submitted at the first attempt, but failed to get a passing mark, then they need to submit a reflective summary of improvements and any new parts of the portfolio they would add. If the student did not submit at the first attempt, then they need to submit the full portfolio to the same brief as the first attempt.
Resit Portfolio 2: if the student submitted at the first attempt, but failed to get a passing mark, then they need to submit a reflective summary of improvements and

any new parts of the portfolio they would add. If the student did not submit at the first attempt, then they need to submit the full portfolio to the same brief as the first attempt.

Assessment tasks:

Reflective Piece (First Sit)
Description: Log book 1 engagement (pass/fail)
Weighting:
Final assessment: No
Group work: No
Learning outcomes tested: MO1

Reflective Piece (First Sit)
Description: Log book 2 engagement (pass/fail)
Weighting:
Final assessment: No
Group work: No
Learning outcomes tested: MO1

Portfolio (First Sit)
Description: Interim report and skills matrix (1000 words)
Weighting: 30 %
Final assessment: No
Group work: No
Learning outcomes tested: MO2, MO3, MO4

Portfolio (First Sit)
Description: Final report, updated skills matrix and initial career plan (2500 words)
Weighting: 70 %
Final assessment: Yes
Group work: No
Learning outcomes tested: MO2, MO3, MO4

Reflective Piece (Resit)
Description: Log book 1 engagement (pass/fail)
Weighting:
Final assessment: No
Group work: No
Learning outcomes tested: MO1

Reflective Piece (Resit)
Description: Log book 2 engagement (pass/fail)
Weighting:
Final assessment: No
Group work: No
Learning outcomes tested: MO1

Portfolio (Resit)
Description: Interim portfolio and skills matrix (1000 words)
Weighting: 30 %
Final assessment: No
Group work: No
Learning outcomes tested: MO2, MO3, MO4

Portfolio (Resit)
Description: Final portfolio (2500 words)
Weighting: 70 %
Final assessment: Yes
Group work: No
Learning outcomes tested: MO2, MO3, MO4

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Mechanical Engineering [Sep][SW][Frenchay][4yrs] BEng (Hons) 2021-22

Aerospace Engineering [Sep][SW][Frenchay][4yrs] BEng (Hons) 2021-22

Aerospace Engineering [Sep][SW][Frenchay][5yrs] MEng 2021-22

Aerospace Engineering with Pilot Studies [Sep][SW][Frenchay][5yrs] MEng 2021-22

Aerospace Engineering with Pilot Studies [Sep][SW][Frenchay][4yrs] BEng (Hons) 2021-22

Automotive Engineering [Sep][SW][Frenchay][4yrs] BEng (Hons) 2021-22

Automotive Engineering [Sep][SW][Frenchay][5yrs] MEng 2021-22

Electronic Engineering [Sep][SW][Frenchay][4yrs] BEng (Hons) 2021-22

Electronic Engineering [Sep][SW][Frenchay][5yrs] - Withdrawn MEng 2021-22

Electronic and Computer Engineering [Sep][SW][Frenchay][4yrs] BEng (Hons) 2021-22

Mechanical Engineering [Sep][SW][Frenchay][5yrs] MEng 2021-22

Robotics [Sep][SW][Frenchay][4yrs] BEng (Hons) 2021-22

Engineering [Sep][SW][Frenchay][4yrs] BSc (Hons) 2021-22

Mathematics [Sep][SW][Frenchay][5yrs] - Not Running MMath 2021-22

Aerospace Engineering {Foundation} [Sep][SW][Frenchay][5yrs] BEng (Hons) 2020-21

Aerospace Engineering with Pilot Studies {Foundation} [Sep][SW][Frenchay][5yrs] BEng (Hons) 2020-21

Aerospace Engineering (Design) {Apprenticeship-UCW} [Sep][FT][UCW] - Not Running[4yrs] BEng (Hons) 2020-21

Electronic Engineering {Foundation} [Sep][SW][Frenchay][5yrs] BEng (Hons) 2020-21

Robotics {Foundation}[Sep][SW][Frenchay][5yrs] BEng (Hons) 2020-21

Mechanical Engineering {Foundation}[Sep][SW][Frenchay][5yrs] BEng (Hons) 2020-21

Automotive Engineering {Foundation}[Sep][SW][Frenchay][5yrs] BEng (Hons) 2020-21

Interior Architecture {Foundation} [Sep][SW][Frenchay][5yrs] BA (Hons) 2020-21

Mathematics and Statistics {Foundation} [Sep][SW][Frenchay][5yrs] - Not Running BSc (Hons) 2020-21

Aerospace Engineering (Manufacturing) {Foundation} [Sep][SW][Frenchay][5yrs] - Not Running BEng (Hons) 2020-21

Aerospace Engineering (Design) {Foundation} [Sep][SW][Frenchay][5yrs] - Not Running BEng (Hons) 2020-21

Aerospace Engineering (Systems) {Foundation} [Sep][SW][Frenchay][5yrs] - Not Running BEng (Hons) 2020-21

Aerospace Engineering {Foundation} [Sep][SW][Frenchay][5yrs] - Not Running BEng (Hons) 2020-21

Aerospace Engineering with Pilot Studies (Systems) {Foundation} [Sep][SW][Frenchay][5yrs] - Not Running BEng (Hons) 2020-21

Aerospace Engineering with Pilot Studies (Manufacturing) {Foundation} [Sep][SW][Frenchay][5yrs] - Not Running BEng (Hons) 2020-21

Aerospace Engineering with Pilot Studies (Design) {Foundation} [Sep][SW][Frenchay][5yrs] - Not Running BEng (Hons) 2020-21

Aerospace Engineering with Pilot Studies {Foundation} [Sep][SW][Frenchay][5yrs] - Not Running BEng (Hons) 2020-21

Robotics {Foundation} [Sep][SW][Frenchay][5yrs] - Not Running BEng (Hons) 2020-21

Engineering {Foundation}[Sep][SW][Frenchay][5yrs] BSc (Hons) 2020-21

Electronic Engineering {Foundation} [Sep][SW][Frenchay][5yrs] - Not Running BEng (Hons) 2020-21

Mathematics {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2020-21

Interior Architecture (International) {Foundation} [Sep][SW][Frenchay][6yrs] BA (Hons) 2019-20

Mechanical Engineering {Apprenticeship-UCS} {Top-Up} [Frenchay] BEng (Hons) 2023-24

Mechanical Engineering {Apprenticeship-UCW} {Top-Up} [Frenchay] BEng (Hons) 2023-24

Mechanical Engineering {Apprenticeship-GlosColl} {Top-Up} [Frenchay] BEng (Hons) 2023-24

Electronic Engineering (Nuclear) {Apprenticeship-UCW} {Top-Up} [MOD] - Withdrawn BEng (Hons) 2023-24

Electronic Engineering {Apprenticeship-UCW} {Top-Up} [Frenchay] BEng (Hons) 2022-23

Building Services Engineering [Frenchay] BEng (Hons) 2022-23

Electronic Engineering [Sep][FT][Frenchay][4yrs] - Withdrawn MEng 2021-22

Aerospace Engineering (Manufacturing) {Apprenticeship-UCW} [Sep][FT][UCW][4yrs] - Not Running BEng (Hons) 2020-21

Automotive Engineering {Foundation} [Sep][SW][Frenchay][6yrs] - Not Running MEng 2020-21

Automotive Engineering {Foundation} [Sep][SW][Frenchay][5yrs] - Not Running BEng (Hons) 2020-21

Electronic Engineering {Foundation} [Sep][FT][Frenchay][4yrs] - Not Running BEng (Hons) 2020-21

Aerospace Engineering [Sep][PT][Frenchay][8yrs] MEng 2019-20

Aerospace Engineering (Systems) [Sep][PT][Frenchay][8yrs] MEng 2019-20

Aerospace Engineering (Design) [Sep][PT][Frenchay][8yrs] MEng 2019-20

Aerospace Engineering (Manufacturing) [Sep][PT][Frenchay][8yrs] MEng 2019-20

Aerospace Engineering with Pilot Studies (Systems) [Sep][PT][Frenchay][6yrs] BEng (Hons) 2019-20

Aerospace Engineering with Pilot Studies (Manufacturing) [Sep][PT][Frenchay][6yrs] BEng (Hons) 2019-20

Aerospace Engineering with Pilot Studies (Design) [Sep][PT][Frenchay][6yrs] BEng (Hons) 2019-20

Electronic Engineering {Apprenticeship-GLOSCOLL} [Sep][FT][GlosColl][5yrs] BEng (Hons) 2019-20

Electronic Engineering [Sep][PT][Frenchay][6yrs] BEng (Hons) 2018-19