Module Specification

Advanced Practice Team Project

Version: 2026-27, v1.0, Approved

Contents

Part 1: Information

Module title: Advanced Practice Team Project

Module code: UFCEK3-30-2

Level: Level 5

For implementation from: 2026-27

UWE credit rating: 30

ECTS credit rating: 15

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: Foundational Practice Team Project 2025-26

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: In this module, we will work in teams and be supported to deliver a live data science project with stakeholders. We will focus on further developing team skills such as communication and project management as well as developing and applying our data skills.

Features: Not applicable

Educational aims: This module takes an holistic, integrative approach to develop students' understanding of the role of the data scientist through experiential exposure to a practical application in a realistic setting. Students are expected to gain an understanding of software, systems and the data science pipeline as well as standard project management methodologies. Students will select and practise data science techniques of relevance to their project.

Outline syllabus: Students will be exposed to topics from amongst the following:

Further understanding of the socio-technical hybrid nature of data science - modelling and differentiating business, information and technical objectives and benefits

Understanding and interpreting data science activities in workplaces from a user perspective – motivation, participation, user resistance

Understanding systems (and software) development lifecycle

Contemporary patterns of data usage from a management perspective

Familiarisation with structured project management environments, application of the underpinning philosophy and principles of agile in a project situation even in a non-agile environment, and communicating technical and agile concepts to non-technical people

Team-working, team roles, delegation, time management, reporting and accountability

Working and communicating with peers, users and business or technical specialists orally, electronically and in writing

Understanding and questioning assumptions, expectations and opportunities surrounding data in the workplace from multi-stakeholder perspectives

Introduction to sustainability and data management practice

Development of the data scientist - using, extending and evaluating methods, techniques, tools and technologies; reflective practice for personal and methodological development

Part 3: Teaching and learning methods

Teaching and learning methods: A weekly two hour multi-purpose workshop focused on student collaborative learning in teams, with tutor support as project supervisors and facilitators of conceptual development.
Weekly one hour lectures and/or project or case study briefing sessions and/or large group activities facilitated by tutors or guest speaker including UWE or external personnel, to complement the workshop programme.

A student-centred workshop-based approach is used. Students work in small semi-autonomous teams with tutor supervision and support. A staged programme typically involves:

Preparation and planning:
Key concepts in data science practice are introduced, and students are prepared for stages 2 to 5, and briefed on the ensuing project requirements.

Situational investigation:
A data investigation in a real workplace is prepared, conducted, reviewed and documented, embracing technical and social elements from user and management perspectives.

Project definition:
Opportunities for improvement identified in stage 2 are reviewed by students in conjunction with host and supervisor, and a practical data science project is negotiated and documented.

Project execution:
The project defined in stage 3 is carried out, monitored, controlled and delivered to the host.

Review and write-up:
The project is reviewed, and documented for an academic audience in practical and conceptual terms.

Practical project opportunities are provided where possible through collaboration with hosts, who are treated as clients. Hosts may be administrative or academic units within the University, or external organisations. Projects are generally diverse in their nature: some involve data analysis and dashboard development; others involve model development, evaluation, user training or support work.

Methodological development is supported through re-use of methods learnt previously, and enhanced with tutor and peer support.

Conceptual development is promoted in parallel with the project work by relating students' and others' practice to the theoretical content, and vice-versa. This is supported by case studies of data science in domains that complement the project context.

The tutor's main role is to facilitate experiential learning through reflective practice. This is complemented by practitioner input. Formative advice and support is provided throughout, as well as summative feedback.

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

MO1 Analyse and communicate a range of social and technical phenomena affecting data science practice

MO2 Implement the data science pipeline from discovery, analysis and requirements (the needs) to data wrangling, modelling, assessment, maintainability and sustainability

MO3 Identify, select, justify, use and evaluate methods, tools, techniques and technologies from across a range based on their suitability demonstrating reflective practice

MO4 Define, plan, execute, monitor, control and review a live project following systematic methodologies in compliance with business and industry standards, demonstrating self and team management as well as effective human communications

Hours to be allocated: 300

Contact hours:

Independent study/self-guided study = 228 hours

Face-to-face learning = 72 hours

Reading list: The reading list for this module can be accessed at readinglists.uwe.ac.uk via the following link https://rl.talis.com/3/uwe/lists/DF4F9562-044C-B807-7AE2-A95E71BD6247.html?lang=en-GB&login=1

Part 4: Assessment

Assessment strategy: There will be two assessments, each giving attention to the quality and quantity of individual contributions to the project and case study work, and incorporating formative aspects.

The main assessment is via a team portfolio with individually monitored contributions assessed at stages during the year incorporating formative advice. This assessment focuses primarily on the practical aspects of the module learning outcomes.

A team-based presentation, which also takes into account individual performance, requires students to review, reflect on and conceptualise their work in relation to the more theoretical aspects of the module learning outcomes. “Rehearsals” in the form of interim review workshops during the year will offer formative support for this assessment.

The resit assessment strategy will be the same as for the main sit.

Assessment tasks:

Portfolio (First Sit)
Description: Portfolio (Wiki : 10-30 pages)
Weighting: 75 %
Final assessment: No
Group work: Yes
Learning outcomes tested: MO1, MO2, MO3

Presentation (First Sit)
Description: Presentation (30 Mins)
Weighting: 25 %
Final assessment: Yes
Group work: Yes
Learning outcomes tested: MO1, MO3, MO4

Portfolio (Resit)
Description: Portfolio (Wiki : 10-20 Pages)
Weighting: 75 %
Final assessment: No
Group work: Yes
Learning outcomes tested: MO1, MO2, MO3

Presentation (Resit)
Description: Presentation (30 Mins)
Weighting: 25 %
Final assessment: Yes
Group work: Yes
Learning outcomes tested: MO1, MO3, MO4

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Data Science [Frenchay] BSc (Hons) 2025-26