



Module Specification

Digital Transformation [TSI]

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Part 1: Information

Module title: Digital Transformation [TSI]

Module code: UFCEQ5-12-M

Level: Level 7

For implementation from: 2025-26

UWE credit rating: 12

ECTS credit rating: 6

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: Digital transformation is the process of using digital technologies to create new — or modify existing — business processes, culture, and customer experiences to meet changing business and market requirements. Digital Innovation refers to the carrying out of new combinations of digital technologies and physical components to produce novel products, processes, and services. The concept of digital innovation entails not only ‘Digitisation’ of physical products or traditional

services but also requires companies to revise their use of corporate digital resources, such as IT (Information Technology) assets and capabilities.

Features: Not applicable

Educational aims: The module aims to provide students with knowledge and skills to initiate and execute digital innovation and transformation projects in existing organisations or new start-ups.

Outline syllabus: The syllabus will typically include:

Introduction to Digital Transformation:

Overview of digital transformation concepts, including the differences between digitisation, digitalisation, and transformation. Exploration of the strategic importance of digital change in modern organisations.

Technology and Business Model Innovation:

Examination of how digital technologies reshape traditional business models, operations, and customer engagement. Real-life case studies highlight successful transformation initiatives.

Frameworks and Principles:

Introduction to established frameworks and models for planning and executing digital transformation. Emphasis on guiding principles for implementing digital strategies.

Digital Ecosystems and Collaboration:

Study of the role of digital ecosystems, platforms, and collaborative networks in enabling transformation. Analysis of inter-organisational partnerships and digital value creation.

Delivering and Sustaining Transformation:

Focus on change management, leadership, and organisational readiness. Strategies for overcoming resistance and building digital capabilities.

Core Technologies of Digital Transformation:

Overview of enabling technologies such as cloud computing, artificial intelligence,

big data, the Internet of Things, and blockchain. Discussion on technological maturity and integration challenges.

Future Trends and Strategic Foresight:

Insight into emerging trends and their implications for business strategy. Students will explore methods for anticipating change and sustaining innovation.

Part 3: Teaching and learning methods

Teaching and learning methods: This module uses a blended learning approach combining lectures, seminars, and practical group work to foster both conceptual understanding and applied skills. Interactive lectures introduce key theories, frameworks, and case studies related to digital transformation. Seminars and group discussions encourage critical thinking and peer learning. Students engage in a hands-on project that simulates a real-world transformation scenario, enhancing collaboration and problem-solving abilities. Independent study is supported through curated readings, online resources (including Coursera content), and self-assessment quizzes with feedback. Guest lectures from industry professionals provide practical insights into current transformation practices and technological developments.

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

MO1 Demonstrate understanding of the key digital technologies and their relationship with digital transformation and strategic importance.

MO2 Design and implement organisational initiatives that drive digital transformation, taking organisational prerequisites into consideration

MO3 Critically evaluate the advantages, drawbacks, and paradoxical demands associated with strategically implementing digital technologies.

Hours to be allocated: 120

Contact hours:

Face-to-face learning = 48 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/DE29D44C-1DFA-E392-9729-6DE1112641AB.html>

Part 4: Assessment

Assessment strategy: The assessment strategy is designed to evaluate both theoretical understanding and practical application of digital transformation concepts.

Students will complete a written examination to demonstrate their grasp of key frameworks, technologies, and strategic principles.

In parallel, a group project requires students to design and propose a digital transformation solution for a real or hypothetical organisation. This project assesses their ability to apply theory in practice, consider organisational context, and present actionable recommendations. Each group submits a report. Individual contributions to the project are also considered.

To support learning, students engage with curated readings, self-testing tasks, and feedback loops to deepen understanding and readiness for assessment.

Assessment tasks:

Examination (First Sit)

Description: 2h written examination

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1

Project (First Sit)

Description: Group project and reflective report.

Weighting: 50 %

Final assessment: No

Group work: Yes

Learning outcomes tested: MO2, MO3

Examination (Resit)

Description: 2h written examination

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1

Project (Resit)

Description: Group project and reflective report. In the resit, the report shall be reworked.

Weighting: 50 %

Final assessment: No

Group work: Yes

Learning outcomes tested: MO2, MO3

Part 5: Contributes towards

This module contributes towards the following programmes of study:

IT Project Management {Double Degree} [TSI] MSc 2025-26