



Module Specification

Business Applications

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Part 1: Information

Module title: Business Applications

Module code: UFCFP3-30-1

Level: Level 4

For implementation from: 2024-25

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: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: This module teaches business analysis methodologies to optimize processes and database technologies to organize, understand, and leverage data for strategic decisions. Students complete projects applying their new skills in requirements gathering, data modeling, database building, and dashboard creation to systematically improve organizational systems and performance. The program develops core competencies in analytical approaches alongside hands-on database skills to drive data-based business strategy.

Features: Not applicable

Educational aims: In addition to the Learning Outcomes the educational experience may explore, develop, and practise but not formally discretely assess the following:

Progression to independent learning

Awareness of appropriate professional literature

Working with others

Outline syllabus: Information systems play a critical role in supporting and enhancing business operations and decisions. This module explores the application of analytical approaches and database technologies for optimizing organizational processes and data usage.

The first semester focuses on business analysis skills and methodologies to evaluate current systems, identify improvement opportunities, analyze stakeholder needs, document requirements, and design higher-performance workflows. Students learn process modeling and specification techniques to capture essential business capabilities and recommend solutions for maximum effectiveness.

In the second semester, students apply analysis insights to develop databases and reporting tools that organize, store, and visualize data for business users. By gaining hands-on skills in relational databases, querying, dashboard creation, and data interpretation, students can convert raw data into actionable intelligence.

Through these integrated topics of business analysis and data solutions, students will be equipped to take a systematic approach to understanding organizations, evaluating information systems, and leveraging data to drive business strategy. The module emphasizes practical application through semester-long projects developing artifacts such as process documentation, requirements specifications, database implementations, and data visualizations/recommendations.

Upon completion, students will demonstrate fundamental proficiencies in core

technologies alongside analytical and critical thinking abilities to improve organizations' operations and information systems.

Part 3: Teaching and learning methods

Teaching and learning methods: Learning opportunities will be conducted through a structured, tutor-led programme. The module lays great emphasis on the need to combine formal, academic material with the application of ideas and concepts. To this end extensive use will be made of case study-based exercises, group work exercises, webcast and video material. Collaboration, team working and sharing of knowledge and experience will be promoted through a group project.

Practical and professional skills and competences in IS development will be integrated into the syllabus. This is based on the notion that true understanding comes from participation in action and that learning through reflective IS practice is valuable. Promotion of investigative skills through conversation, interviewing, use of library and internet sources will form one of the practical elements. Associated with this will be the need to document, diagram and present the findings.

A central plank of IS development practice, working in teams, will form another major element in students' practical engagement with the module, in order to promote skills in communication, assertion, negotiation and evaluation.

No variations for part-time study. Distance learning not available for this module, due to the emphasis on teamwork.

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

MO1 Demonstrate the ability to analyse business requirements and specify process improvements.

MO2 Design and build databases by applying data modelling principles.

MO3 Evaluate business data and performance to support decision making through data analysis, visualisation, reporting, and interpretation skills.

MO4 Communicate business analysis insights to stakeholders according to industry standards and practices.

Hours to be allocated: 300

Contact hours:

Independent study/self-guided study = 228 hours

Face-to-face learning = 72 hours

Total = 0

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/ufcfp3-30-1.html) via the following link <https://uwe.rl.talis.com/modules/ufcfp3-30-1.html>

Part 4: Assessment

Assessment strategy: Group Work - The proposal, design and development of a prototype of a business application with appropriate documentation.

Group work has the benefit of creating peer groups, providing a support network for learning, allowing for the consolidation and sharing and dissemination of prior learning and the practice, improvement and assessment of key transferrable skills.

Staff will provide on-going guidance to students on working in a group and the work of groups will be continuously monitored in workshop sessions so that issues can be resolved in a fair and equitable manner at the earliest possible opportunity.

Group work sub-tasks are based on scenarios which provide formative and summative feedback on the investigation and analysis before working on the design and build phase.

The resit strategy is the same as the first sit.

Assessment tasks:

Case Study (First Sit)

Description: Proposal, design and development of prototype of a business application.

Weighting: 100 %

Final assessment: Yes

Group work: Yes

Learning outcomes tested: MO1, MO2, MO3, MO4

Case Study (Resit)

Description: Proposal, design and development of prototype of a business application.

Weighting: 100 %

Final assessment: No

Group work: Yes

Learning outcomes tested: MO1, MO2, MO3, MO4

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Business Computing {Foundation} [Frenchay] BSc (Hons) 2023-24

Business Computing [Frenchay] BSc (Hons) 2024-25

Business Computing {Foundation} [Frenchay] BSc (Hons) 2023-24