



## **Module Specification**

### **Digital Devices Implementation and Usability**

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## Part 1: Information

**Module title:** Digital Devices Implementation and Usability

**Module code:** UFCFJE-15-2

**Level:** Level 5

**For implementation from:** 2023-24

**UWE credit rating:** 15

**ECTS credit rating:** 7.5

**Faculty:** Faculty of Environment & Technology

**Department:** FET Dept of Computer Sci & Creative Tech

**Partner institutions:** None

**Delivery locations:** Not in use for Modules

**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:** Not applicable

**Features:** Not applicable

**Educational aims:** See Learning Outcomes

**Outline syllabus:** Understand the concept of assessing digital technologies in commercial applications.

Consider primary business sectors office, mobile and in field application and associated devices and solutions, e.g. tablet computers, mobile phones, RFI, GPS, assistive technology devices, medical diagnosis, telemedicine, Google Goggles etc.

Critically assess current production digital devices and their application within the commercial environment. Recognising the need to establish a viable business case and the associated overheads in terms of capital cost and training of staff.

Develop technical documentation to support the proposed technical solutions and develop user manuals that reflect the usability of the proposed devices and the accessibility for all potential users.

Investigate the new products specific to market sectors, primary and secondary research and various public launch media from internet to exhibitions.

Demonstrate an understanding of the implementation process and show an appreciation of change management with various business environments.

Summarise finding into a comprehensive report and communicate these findings to a non-technical audience in a suitable format.

### **Part 3: Teaching and learning methods**

**Teaching and learning methods:** 54 hours scheduled learning.

96 hours research, independent study and preparation for assessment work.

Introductory lectures are supported by seminars, case studies, visits and practical workshops. In addition this module will be supported by interactive forums and learning tools.

Independent learning includes hours engaged with essential reading, assignment preparation and completion. Student study time will be organised each week with a

series of both essential and further readings and preparation.

This module will be taught across semester 1 on one day per week.

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

**MO1** Research and discuss current applications of appropriate digital devices within a variety of industries and sectors

**MO2** Critically evaluate a range of digital devices

**MO3** Appraise their value, usability and accessibility to an industry situation

**MO4** Develop technical support documentation/user guides

**MO5** Demonstrate a commercial appreciation of their recommendations

**Hours to be allocated:** 150

**Contact hours:**

Independent study/self-guided study = 96 hours

Face-to-face learning = 54 hours

Total = 150

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

## **Part 4: Assessment**

**Assessment strategy:** A range of assessment techniques will be employed to ensure that learners can meet the breadth of learning outcomes presented in this module alongside the ability to demonstrate transferable skills e.g. communication skills.

Exam: Utilising both formal and experiential learning provided during lectures, guest speakers and visits, students will be expected to discuss and critically evaluate applications of appropriate digital devices within a variety of industries and sectors. It

is expected that that students will be able to comment on at least one specific application to illustrate the points they wish to make in discussion.

Critical Essay: Apply knowledge of technical writing to produce a user guide/technical manual and then critically appraise the digital devices with regard to their value, usability and accessibility to an industry situation. Finally demonstrate a commercial appreciation of the devices.

Opportunities for formative assessment exist for the assessment strategy used. Verbal feedback is given and all students will engage with personalised tutorials setting SMART targets as part of the programme design.

**Assessment components:****Examination (Online) (First Sit)**

Description: Online open book-pre-seen examination

Weighting: 25 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2

**Written Assignment (First Sit)**

Description: Critical essay (2000 words)

Weighting: 71 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO3, MO4, MO5

**Written Assignment (First Sit)**

Description: Supporting technical documents/user guide

Weighting: 4 %

Final assessment: No

Group work: No

Learning outcomes tested: MO3, MO4, MO5

**Examination (Online) (Resit)**

Description: Online open book-pre-seen examination

Weighting: 25 %

Final assessment: No

Group work: No

Learning outcomes tested:

**Written Assignment (Resit)**

Description: Critical essay (2000 words)

Weighting: 71 %

Final assessment: Yes

Group work: No

Learning outcomes tested:

**Written Assignment (Resit)**

Description: Supporting technical documents/user guide

Weighting: 4 %

Final assessment: No

Group work: No

Learning outcomes tested:

**Part 5: Contributes towards**

This module contributes towards the following programmes of study: