Module Specification

Internet Technologies

Version: 2023-24, v2.0, 19 Jul 2023

Contents

Part 1: Information

Module title: Internet Technologies

Module code: UFCFL1-15-0

Level: Level 3

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: The British College Nepal

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 aims to introduce students to a range of current Internet technologies from both a theoretical and practical perspective. This module serves as an introduction to internet technologies. Fundamental principles are to be taught which are common to client-based web technology.

Features: Not applicable

Educational aims: This module introduces an understanding of website design and development. It considers HTML5, CSS, JavaScript and best practice in website development. As a result, students will be able to produce a well-designed website – but one with limited interactivity. This module will introduce you to server side technologies that are capable of processing user requests and dynamically update web pages in response to user requests. In particular the module will examine the use of forms and database connectivity.

Outline syllabus: The syllabus covers:

Internet and WWW basics, including common protocols i.e. HTTP, FTP…

Web hosting,

Web Designing, such as Wireframes and sketches

Web design standards (W3C)

HTML5 and CSS3 tags and properties

Client-side scripting such as Java Script,

Validate HTML and CSS thought an online checker such as, 'validator.w3.org'

Introduction to version control through web repositories such as 'GitHub' .

Part 3: Teaching and learning methods

Teaching and learning methods: The delivery includes a series of lectures covering theoretical concepts and languages used for website development. The practical lab sessions will provide an opportunity for completing a portfolio of lab exercises followed by feedback and support to develop a website.

Students will be using popular development tools within this module such as:

Visual Studio Code

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

MO1 Describe a range of current Internet technologies including common protocols, internet security and how they are implemented.

MO2 Design and evaluate a website using appropriate techniques.

MO3 Demonstrate an ability to create a Web site in HTML5 and CSS3 including some simple client-side scripts. I.e. Java script.

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 102 hours

Face-to-face learning = 48 hours

Total = 150

Reading list: The reading list for this module can be accessed at readinglists.uwe.ac.uk via the following link

Part 4: Assessment

Assessment strategy: The assessment strategy for this module is to assess the students' ability to design and implement a website using a standard set of tools of growing complexity and comprises a presentation and portfolio.
 The assessment is based on the students' work throughout the semester to a specification setting out core requirements of the website including usability and functionality.

During the presentation assessment, the students are required to demonstrate the extent to which the requirements are met and to reflect on their work.

The portfolio collects together the students' design thinking, use of tools and exercises delivered in class together with feedback.

Resit

At resit, student will be required to make another presentation to the same criteria as the first. For the portfolio, students will be required to rework their website to the same criteria as the first sit and to add their work to the contents of the portfolio highlighting all new work for the assessors.

Assessment tasks:

Portfolio (First Sit)

Description: Individual portfolio of exercises based on web design work carried out in tutorial sessions together using a lab log recording their design and implementation work. The requirements of the lab work will be provided by the module tutor who assesses the exercises and provides feedback. This portfolio provides the basis for the presentation of the student's design and implementation of the website.

Weighting: 60 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3

Presentation (First Sit)

Description: The individual student presentation requires the student to present the ways in which they have met the requirement to design and build a website. The website itself has a set of design and functionality requirements. The presentation enables the student to demonstrate the way each requirement has been met and the design rationale and to reflect on the performance of the website. Assessment criteria for the presentation cover both the website criteria such as functionality and presentation criteria such as timing, quality of content and verbal communication and responses to questions.

Weighting: 40 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3

Portfolio (Resit)

Description: Individual portfolio of exercises based on web design work carried out in tutorial sessions together using a lab log recording their design and implementation work. The requirements of the lab work will be provided by the module tutor who assesses the exercises and provides feedback.

Weighting: 60 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3

Presentation (Resit)

Description: The individual student presentation requires the student to present the ways in which they have met the requirement to design and build a website. The website itself has a set of design and functionality requirements. The presentation enables the student to demonstrate the way each requirement has been met and the design rationale and to reflect on the performance of the website. Assessment criteria for the presentation cover both the website criteria such as functionality and presentation criteria such as timing, quality of content and verbal communication and responses to questions.

Weighting: 40 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3

Part 5: Contributes towards

This module contributes towards the following programmes of study: