Module	Client Side Web Development
Credits	10 ECTS / 5 U.S. semester credits
Important notes	Available for academic year students only
Allocation of marks	20% Continuous assessment 50% Project 30% Final examination

Intended Module Learning Outcomes

On successful completion of this module learners will be able to:

1. Demonstrate an advanced understanding of how the web works.
2. Demonstrate an advanced knowledge of client-side web standards technologies (HTML, CSS, JavaScript)
3. Understand and demonstrate the importance of research and pre-planning in designing and building web applications
4. Design and build standards-compliant web sites with HTML, CSS and JavaScript.
5. Understand and demonstrate the importance of usability and user-centered design in developing web applications.

Module Objectives

This module introduces the learner to the fundamentals behind client-side web development, both for desktop and mobile. They are introduced to the core concepts behind how the web works (The Internet, HTTP, Markup Languages etc.) before exploring the various Standards of client-side web development (HTML, CSS, JavaScript). In addtion to this, learners learn about web design principles and the importance of user research and planning.

Learners are given practical experience of developing web sites using these technologies, as well the processes behind researching and planning user-centered web applications.

Module Curriculum

Web Architecture

- The Internet
- TCP-IP
- HTTP
- Mark-up Languages
- Server-Client Relationship
- Security

Web Application Development

- Web Standards
- HTML5
- CSS
- Client-Side Scripting
- JavaScript
- Mobile Applications
- Responsive Web Design

UI Design

- Usability
- Interface Design
- User Experience
- User-Centred Design
- Research
- User Analysis
- Wire-framing
- Story-boarding
- Design Principles