



Course Code MULT-451	Course Title Advanced Web Development	Credits/ECTS 6
Department Design & Applied Multimedia	Semester Fall, Spring	Prerequisites MULT-251
Type of Course Elective	Field Design/Multimedia	Language of Instruction English
Level of Course 1 st Cycle	Year of Study 4 th	Lecturer Dr C G Christou
Mode of Delivery Face-to-face	Work Placement N/A	Co-requisites None

Objectives of the Course:

The main objectives of the course are to:

- Extend students knowledge of internet concepts including communication protocols for different media.
- Teach students advanced uses of HTML5 and CSS3 for structuring and styling hypertext documents.
- Introduce students to creating, manipulating and embedding audio content
- Introduce students to creating, manipulating and embedding video content
- Familiarise students with basic use of Javascript and CSS3 for user interaction and for animation.

Learning Outcomes:

After completion of the course students are expected to be able to:

1. Understand the history, development and use of different internet communications protocols.
2. Create multiple-page web-sites with consideration for design and usability.
3. Create appropriately encoded audio and embed it in web documents.
4. Create appropriately encoded video and embed it in web documents.
5. Dynamically change web-page content using Javascript.
6. Implement user interactivity using Javascript.
7. Create simple multimedia browser-based animations using CSS3 and Javascript.

Course Contents:

1. Internet Architecture and communications protocols.
2. Review of HTML5 and CSS3 for document creation.
3. Audio for the web.
4. Video for the web.
5. Embedding Flash and other animation in web documents.
6. Introduction to Javascript and its use in web content.
7. Javascript procedures for dynamic client-side changes to document styling
8. Animation and interactivity using Javascript and CSS3

Learning Activities and Teaching Methods:

Lectures, Lab Presentations, Lab Tutorials, Practical Exercises and Assignments.

Assessment Methods:

Final Project (1)	30%
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Mid-Term (1)	20%
Assignments/Homework	50%

Required Textbooks:

Authors	Title	Publisher	Year	ISBN
Jon Duckett	HTML & CSS	John Wiley & Sons	2011	978-1-118-00818-8

Recommended Textbooks/Reading:

Authors	Title	Publisher	Year	ISBN
Chapmen & Jenny Chapman	Digital Multimedia	John Wiley & Sons	2009	978-0470512166