[A-3]COURSE SYLLABUS

1. Course Description (Approximately 100 words)

The module provides theoretical introduction with Internet infrastructure, history and services as well as practical introduction to concepts and terminology used in design and implementation of web based information systems, i.e. study of fundamental languages of the web - including HTML5, CSS3, Javascript and JQuery libraries.

2. Course Goals and Objectives (Approximately 100 words)

1. Discuss the elements of good website design
2. Select and apply markup languages for processing, identifying, and presenting of information in web pages
3. Demonstrate technical skills required of Web Designers through use of W3C standards: HTML, Style Sheets and JavaScript
4. Incorporate best practices in navigation and usability to design
5. Use scripting languages and web services to add interactive components to web pages
6. Construct, test and publish a functioning website using both hand coding and appropriate software tools.
7. Evaluate the design of commercial websites.
8. Discuss the use of e-Commerce, SEO, Semantics, Security and associated issues.

3. Textbook (Title, Author, Publisher, Year of Publication, etc.)

9. Don’t Make Me Think! a common sense approach to web usability, Second Edition, Steve Krug. New Riders Publishing, 2006
10. Homepage Usability:50 Websites Deconstructed, Second Edition. Jakob Nielsen, Marie Tahir. New Riders, 2001
11. Learning Web Design, 4th Edition. A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics. Jennifer Niederst Robbins. O'Reilly Media, 2012

4. Reference

http://www.htmlgoodies.com
http://www.webmonkey.com
http://www.w3.org/Style/CSS/
http://www.w3schools.com
http://www.javascript.com
http://www.jquery.com
http://www.codecademy.com

5. Course Requirements and Grades

No prerequisites.
The module will be assessed by means of one coursework and PC lab test.
The coursework will enable students to use their understanding of Website planning, designing, usability and accessibility to create a rigorous and carefully developed piece of work. Coursework 1 covers LO1, LO2, LO4, LO6, LO7, LO8

The tests will be time constrained and will require students to apply knowledge and skills
acquired on the module to solve given problems. In class test covers LO2, LO3 and LO5.

6. Course Calendar

Week	Main Content
1	Introduction to Web Publishing. Basic HTML elements.
2	Website Planning and design. Semantic tags. HTML5.
3	Types of websites. Introduction to CSS.
4	Usability basics. Accessibility. Layout.
5	Navigation. Transitions.
6	Introduction to JavaScript. Responsive, adaptive.
7	JavaScript DOM. Functions. Objects
8	JavaScript. Forms. Client-side validation
9	Computer networks. Hosting. Web statistics.
10	Computer and Network security and threats. jQuery and widgets.
11	E-Commerce. E-business. Bootstrap library.
12	Web 2.0. Semantic Web. Content Management Systems.
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