

Title: WORLD WIDE WEB TECHNOLOGY 1

Code: ITECH2107

Formerly: CP687

Faculty / Portfolio: Faculty of Science and Technology

Level: Advanced

Pre-requisites: (1 programming course)

Co-requisites: Nil

Exclusions: (CP687 and ITECH6107)

Credit Points: 15

ASCED Code: 029999

Objectives:

After successfully completing this course, students should be able to:

Knowledge:

- K1.** appreciate the distinction between the World Wide Web and the Internet;
- K2.** be aware of recent developments in Web technology standards (P3P, PICS SMIL etc.);
- K3.** appreciate the use of Standard Generalized Markup Language (SGML) in describing document structure;
- K4.** understand Cascading Style Sheets (CSS);
- K5.** understand Extensible Markup Language (XML);
- K6.** understand browser independence issues;
- K7.** understand the relationship between SGML, HTML, XHTML and XML;
- K8.** understand the principles of interactive Web applications;
- K9.** understand the purpose of AJAX and its underlying application model.

Skills:

- S1.** design and construct Hypertext Markup Language (HTML) documents;
- S2.** demonstrate a good understanding of a client side scripting language using JavaScript (ECMAScript);
- S3.** develop active web sites using JavaScript and CSS;
- S4.** use Cascading Style Sheets (CSS) within web documents;
- S5.** use Extensible Markup Language (XML);
- S6.** use AJAX technology.

Values:

- V1.** be aware of Web technology issues, including: privacy, accessibility and intellectual property;

Course Outline

ITECH2107 WORLD WIDE WEB TECHNOLOGY 1

- V2. be aware of technologies used to describe and block offensive or explicit web content;
- V3. be aware of dynamic and interactive web based application.

Content:

Topics may include:

- Development of the Web
- HTML Standards and XHTML
- CSS and XML
- JavaScript
- DHTML
- AJAX
- Web 2.0

Assessment:

Assessment Task	Assessment Type	Weighting
Practical experience of Web scripting languages from lectures and Laboratory classes	Practical Projects, Reports and presentations	20 - 50%
Attend lectures, read and summarise theoretical aspects of the unit	Supervised Test(s) and Examination(s)	50 - 80%

Adopted Reference Style:

APA

Presentation of Academic Work: