School of Computer Science and Software Engineering

Unit Outline CITS1231

Web Technologies (CITS1231)

6 points / Semester 1
Location: Crawley Campus

Handbook Description

Students completing this unit will have a broad understanding of how a modern web site is constructed and used, and will be able to build a small-scale interactive website themselves. They will have an awareness of the range of available technologies, their respective benefits and limitations and how to choose and implement (or manage the implementation of) the right mixture of technologies for both business and personal web sites.

Prerequisites: TEE Discrete Mathematics or TEE Applicable Mathematics or TEE Calculus

Unit Aims

The Web is booming, with new technologies enabling interactive web sites that connect millions of people and create billion-dollar industries seemingly overnight. These web sites use a rich mixture of rapidly evolving technologies to provide the secure, interactive and personalised online experience that today’s users enjoy. Web Technologies provides students with a broadly based understanding of these technologies and how they are most effectively combined, along with hands-on experience in their use. Fundamental topics covered in this unit include the client/server paradigm, the internet protocols used to transmit web pages, the markup languages (HTML, XHTML and XML) used to describe document structure and the styling language (CSS) used to control a document’s appearance. Building on these topics, the unit describes how web sites achieve interactivity and personalisation through server-side scripting languages such as PHP or Perl, client-side scripting languages such as Java Script and the combined approach known as AJAX, which is one of the core enabling technologies for Web 2.0.

Teaching Staff
**Unit Co-ordinator**: Contact the School of Computer Science and Software Engineering

**Textbook**

Books and other material wherever listed may be subject to change. Book lists relating to 'Preliminary Reading', 'Recommended Reading' and 'Textbooks' are, in most cases, available at the University Co-operative Bookshop (from early January) and appropriate administrative offices for students to consult. For first-year units the Bookshop will endeavour to make available photocopies of book lists for individual units. Books marked with an asterisk (*) are available in paperback.

**Contact Hours**

62 (*lectures*: 26 hrs; *labs*: 36 hrs)

**Assessment**

This unit is assessed through a midterm test, ongoing practical work throughout semester and a final examination.

**Unsatisfactory Progress**

Any student who does not demonstrate satisfactory progress in this unit, as defined in the FECM Policy on Assessment Practices and Procedures, may be refused admission to the final examinations. The final deadline for notification of unsatisfactory progress is the last day of Week 10.

**Penalties**

The School of Computer Science and Software Engineering has adopted a policy on minimum penalties for late items of assessment. This is the default policy of all units unless indicated otherwise, in writing, by the specific unit coordinator.

This policy shall apply to all items of continuous assessment, whether submitted either physically or electronically. Immediately after the submission deadline for an item of continuous assessment, a penalty of 20 percent will be applied PER DAY or PART THEREOF. The minimum mark possible for late submission is zero. The percentage is based on the item’s total contribution to the unit’s assessment. For example, a project contributing 40% to the unit’s assessment will incur a penalty of 8 marks for each day late until it is submitted or a mark of zero results.
A more detailed description is given in this School’s Policy on Late Submission. The Faculty does have an appeals procedure, the details of which can be found at the Policy for Appeals.

**Plagiarism**

Plagiarism is broadly defined to be when any portion of the work presented for assessment, can be attributed to another party. The student making the submission should acknowledge what aspects of the presented work is not directly derived by them. For the purposes of plagiarism it is irrelevant that you have been given permission by someone to copy their work and present it as your own.

You are directed to the School of Computer Science and Software Engineering Policy on Plagiarism and the Faculty of Engineering, Computing and Mathematics Policy on Plagiarism.

**Academic Conduct Essentials (ACE)**

All students who have not previously been enrolled at UWA are required to complete a short compulsory online module called Academic Conduct Essentials (ACE) within the first 10 weeks of semester. ACE introduces students to essential knowledge regarding ethical scholarship, helps prepare them for the expectations of their university career and informs them of correct academic conduct.

The unit can be accessed via WebCT. The final unit quiz must be completed with a mark of 80% or greater. Students may attempt the quiz as many times as they wish to gain the required pass mark. Completion of the unit will be recorded as an Ungraded Pass (UP) on students’ academic records. Non-completion (NC) within the required timeframe will also be documented on formal academic records. More information on ACE is available at ace.uwa.edu.au

**Special Consideration**

Applications for consideration, deferral of tests or exams or extensions of time for assignments on medical, personal or other grounds must be lodged with the faculty office no later than three working days after the due date for the assessment in question. This rule will apply to all students, except in exceptional circumstances.

**Faculty Marks Adjustment Policy**

Final assessment is subject to the Faculty Scaling Policy.

**Supplementary Examinations**

Supplementary examinations will be awarded in accordance with Faculty Policy on supplementary assessment.
Student Rights

The University’s charter of student rights is available at http://www.secretariat.uwa.edu.au/home/policies/charter

Academic misconduct

The University of Western Australia strongly supports teaching and learning that promotes academic literacy and ethical scholarship for all students. As part of this commitment, UWA has recently developed new guidelines relating to Academic Misconduct (including plagiarism). It is also developing a range of resources for students and staff to further strengthen academic literacy and ethical scholarship at UWA. Further details are available on the Teaching and Learning website.