ISIT406 Information Design and Content Management
Subject Outline
Spring Session 2008

Head of School –Associate Professor Peter Hyland, Student Resource Centre, Tel: (02) 4221 3606

GENERAL INFORMATION

Subject Coordinator
Professor Peter Eklund
Telephone Number: 4221 3874
Email: peklund@uow.edu.au
Location: 39.213

Professor Eklund’s consultation times during session:
Day          Time
Monday       10am-12noon
Friday       10am-12noon

Lecturer
Dr Ghassan Beydoun
Telephone Number: 4221 4037
Email: 39.113
Location:

Dr Beydoun’s consultation times during session:
Day          Time
Monday       13:30-15:30
Thursday     13:00-15:00

Subject Organisation
Session: Spring Session, Wollongong Campus
Credit Points: 6 credit points
Contact hours per week: 2 hours lectures, 2 hours tutorial
Lecture Times & Location: Mon 11.30 AM – 13.30 PM 19-G026
Tutorial Day, Time and Location can be found at: http://www.uow.edu.au/student/timetables/index.html

Students should check the subject's web site regularly as important information, including details of unavoidable changes in assessment requirements will be posted from time to time via e-Learning space http://www.uow.edu.au/student/lol. Any information posted to the web site is deemed to have been notified to all students.

Content
This subject explores issues in Information Design and Content Management via a contemporary Web and modern information engineering approach. The appropriate application environments, acquisition and representation schemes for developing information and content management systems are examined along with their relationship to contemporary issues in Web technology.
Objectives
On successful completion of this subject students should have an understanding of specific aspects of Information Design and Content Management and exposure to contemporary issues and technologies concerning content management and the design of information systems for the Web.

Graduate Qualities
All Schools in the Faculty of Informatics have adopted the UOW Graduate Qualities. On completion of their course graduates will be informed, independent learners, problem solvers, effective communicators and responsible. Further information can be found at http://www.uow.edu.au/about/teaching/qualities/

Attendance Requirements:
It is the responsibility of students to attend all lectures/tutorials/labs/seminars/ practical work for subjects for which you are enrolled. It should be noted that the amount of time spent on each 6 credit point subject should be at least 12 hours per week, which includes lectures/tutorials/labs etc.

Satisfactory attendance is deemed to be attendance at approximately 80%* of the allocated contact hours. Attendance rolls will be kept for lectures. If you are present for less than 80%* you need to apply for special consideration, otherwise a fail grade will be recorded.

Method of Presentation:
In order to maximize learning outcomes, it is strongly recommended that students attend all lectures.

Lecture Schedule:
A proposed Lecture schedule for the subject is as follows:

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Subject Outline, Course Overview and Orientation</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>XML technologies 101: XML, DTD, XSL, XSLT</td>
<td><a href="http://www.w3schools.com/">http://www.w3schools.com/</a></td>
</tr>
<tr>
<td>3</td>
<td>XML technologies 201: XPath, XLink, XPointer, WSDL and RDF</td>
<td><a href="http://www.w3schools.com/">http://www.w3schools.com/</a></td>
</tr>
<tr>
<td>5</td>
<td>Learning from Content: Supervised and Unsupervised Learning</td>
<td>Ganter and Will Chapt 1-3</td>
</tr>
<tr>
<td>6</td>
<td>Logic, Inference and Descriptions</td>
<td>Daconta Chapt 2-4.</td>
</tr>
<tr>
<td>7</td>
<td>Midterm in-class Quiz (90 mins)</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Ontologies and the semantic web</td>
<td>Daconta Chapt 7-8</td>
</tr>
<tr>
<td>9</td>
<td>RDR Schemas, OWL</td>
<td>J. Hjelm, Chapt 5-8</td>
</tr>
<tr>
<td>10</td>
<td>Case studies in OWL ontologies and content management</td>
<td>TBA</td>
</tr>
<tr>
<td>11</td>
<td>Creating ontologies with editing tools</td>
<td>TBA</td>
</tr>
<tr>
<td>12</td>
<td>Visualising content</td>
<td>V. Geroimenko, C. Chen, Chapt 2, 3, 7, 9</td>
</tr>
<tr>
<td>13</td>
<td>Final Quiz (90min)</td>
<td></td>
</tr>
</tbody>
</table>

Changes to the above schedule will be posted via e-Learning space http://www.uow.edu.au/student/lol. Any information posted to the web site is deemed to have been notified to all students.
Subject Materials:
Any readings/references are recommended only and are not intended to be an exhaustive list. Students are encouraged to use the library catalogue and databases to locate additional readings.

References:


J. Hjelm, 2001, Creating the Semantic Web with RDF, Wiley


J. Euzenat, P. Shvaiko, 2007, Ontology Matching, Springer

V. Geroimenko, C. Chen, 2003, Visualising the Semantic Web, Springer

Assessment:
This subject has the following assessment components.

<table>
<thead>
<tr>
<th>ASSESSMENT ITEMS &amp; FORMAT</th>
<th>% OF FINAL MARK</th>
<th>GROUP/INDIVIDUAL</th>
<th>DUE DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab/Tutorial Exercises (Part 1)</td>
<td>25%</td>
<td>Individual</td>
<td>Week 5</td>
</tr>
<tr>
<td>Lab/Tutorial Exercises (Part II)</td>
<td>25%</td>
<td>Individual</td>
<td>Week 11</td>
</tr>
<tr>
<td>Mid Term in-class Quiz</td>
<td>25%</td>
<td>Individual</td>
<td>Week 7</td>
</tr>
<tr>
<td>Week 13 in-class Quiz</td>
<td>25%</td>
<td>Individual</td>
<td>Week 13</td>
</tr>
</tbody>
</table>

Notes on Assessment:
All assignments are expected to be completed independently. Plagiarism may result in a FAIL grade being recorded for that assignment.
Lab/Tutorial Exercises

Participation in the two tutorial assignments is essential to learning in this subject and these must be completed in order to be eligible to pass the subject. The tutorial times will be used to organize the allocation of assignment items and provide a venue and opportunity for group-based work to be discussed and coordinated. In Weeks 2 and 7 students will be given a list of projects/assignments ranging from desk research tasks (that involve the production of a essay or report) to practical programming based assignments (which involve the production or integration of software with a demonstration). Students must select 1 of the number to be completed and should indicate their preference by Week 3 and 8. Students are permitted to form groups to complete assignments or they may complete their assignments individually. The marking scale will be A, B, C, D, E reflecting recognition of effort and accuracy and a corresponding mark 25, 20, 15, 10, 5. Group based work will also consider self-assessment.

Electronic Submission of Assessment Items:
Unless otherwise notified by the subject coordinator, all written assignments must be submitted electronically.

Other Procedures for the submission of assessment items:
In addition to electronic submission students are required to submit assignments in hard copy to their lecturer.
All assignments will be returned within 2 weeks of their submission.

Procedures for the return of assessment items:

Penalties for late submission of assessment items:
Penalties apply to all late work, except if special consideration has been granted. Late submissions will attract a penalty of 25% of the assessment mark per day including weekends. Work more than four (4) days late will be awarded a mark of zero.

Supplementary Exams
Supplementary Exams will be dealt with in accordance with student academic consideration policy (http://www.uow.edu.au/handbook/courserules/specialconsideration.html) 6.2 Timing of Supplementary Exams.

While the School normally grants supplementary exams when the student does not sit the standard exam for an acceptable reason, each case will be assessed on its own merit and there is no guarantee a supplementary exam will be granted. If a supplementary exam is granted, you will normally be notified via SOLs Mail the time and date of this supplementary exam. You must follow the instructions given in the email message.

Please note that if this is your last session and you are granted a supplementary exam, be aware that your results will not be processed in time to meet the graduation deadline.

Special Consideration Policy
The School recognises that it has a responsibility to ensure equity and consistency across its subjects for all students. Sometimes, in exceptional circumstances, students need to apply for student special consideration in order to complete all assessable work.

The University applies strict criteria to the granting of special consideration. Before applying for student special consideration, students should carefully read the University’s policy which can be found at: http://www.uow.edu.au/handbook/courserules/specialconsideration.html

As an example: If a student requires an extension of time for the completion of an assignment this may be granted in certain circumstances. A request for an extension must be made to the Subject Coordinator via SOLs before the due date.

Plagiarism
When you submit an assessment task, you are declaring the following

1. It is your own work and you did not collaborate with or copy from others.
2. You have read and understand your responsibilities under the University of Wollongong's policy on plagiarism.
3. You have not plagiarised from published work (including the internet). Where you have used the work from others, you have referenced it in the text and provided a reference list at the end of the assignment.

Students must remember that:

Plagiarism will not be tolerated.

Students are responsible for submitting original work for assessment, without plagiarising or cheating, abiding by the University’s policies on Plagiarism as set out in the University Handbook under University Policy Directory and in Faculty handbooks and subject guides. Plagiarism has led to the expulsion from the University.

Student Academic Grievance Policy
The School aims to provide a fair, equitable and productive learning environment for all its students. The Student Academic Grievance Policy seeks to support the achievement of this goal by providing a transparent and consistent process for resolving student academic grievances.

Any student who has a grievance over a result should obtain a Faculty of Informatics Appeal Against Decision or Action Affecting Academic Experience form from the Informatics Student Enquiry Centre. (http://www.uow.edu.au/content/groups/public/@web/@inf/@faculty/documents/doc/uow017433.pdf) The student should firstly take the form to the marker/lecturer to discuss the matter and, if the student is still not satisfied, s/he should take the next step as outlined on the form.

Once the grievance has been considered by the Faculty, if the student still feels the situation has not been fully resolved s/he may consult the Dean of Students. However, the Dean of Students can have no input into the academic judgment of the lecturer and can only review the grievance to ensure proper procedure has been followed.

Relevant University Policies, procedures and students services:
For more information students must refer to the Faculty handbook, online references or consult the UOW policy in full at http://www.uow.edu.au/handbook/courserules/studacgrievpol.html which contains a range of policies on educational issues and student matters.

This outline should be read in conjunction with the following documents:
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