
SISAT

School of Information Systems & Technology
Faculty of Informatics

ISIT906 Information Design and Content Management Subject Outline Spring Session 2009

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

GENERAL INFORMATION

Subject Coordinator

Telephone Number:

Email:

Location:

Professor Peter Eklund

4221 3874

peklund@uow.edu.au

39.213

Prof Eklund's consultation times during session:

Day

Tuesday

Friday

Time

10.30-12.30

9.30-11.30

Lecturer

Telephone Number:

Email:

Location:

Meng Fai (Joe) Cheow

4221 3698

jcheow@uow.edu.au

39.212

Lecturer's consultation times during session:

Day

Monday

Tuesday

Time

TBA

TBA

Subject Organisation

Session:

Credit Points

Contact hours per week:

Lecture Times & Location:

Tutorial Day, Time and Location can be found at:

Spring Session, Wollongong Campus

6 credit points

2hr lectures, 2hr lab

Monday 17:30 – 19:30 PM 67-303

<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/>. Any information posted to the web site is deemed to have been notified to all students.

Subject Description

This subject explores issues in Information Design and Content Management via a contemporary Web and modern information modelling approach. The appropriate application environments, acquisition tools and representation schemes for Information Design and Content Management are examined along with their relationship to contemporary issues in Web technology.

Subject Objectives

On successful completion of this subject students will be able to:

1. Understand and explain the main Information Design and Content Management concepts
2. Describe the organisational and technical issues associated with Information Design and Content Management and propose solutions to those issues for specific contexts
3. Identify and select Information Design and Content Management technologies appropriate to particular business problems
4. Use Information Design and Content Management technologies to manage, design or develop web-based solutions.

Graduate Qualities

This subject will continue to the following graduate qualities:

- Informed
- Independent learners
- Teamwork
- Innovation and Design

Further information can be found at:

<http://www.uow.edu.au/informatics/sisat/current/SubjectInformation/UOW051055.html>

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 by the University, to be attendance at approximately 80% of the allocated contact hours.

Attendance rolls will be kept for lectures and laboratories. If you are present for less than 80% of either and would have otherwise passed you need to apply for student academic consideration, otherwise a TF (technical fail) grade will be recorded.

Students MUST attend their **allocated** tutorial unless they have the written permission of the subject coordinator.

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:

| Week | Topic | Reading |
|------|---|--|
| 1 | Subject Outline, Course Overview and Orientation | |
| 2 | XML technologies 101: XML, DTD, XSL, XSLT | http://www.w3schools.com/ |
| 3 | XML technologies 201: XPath, XLink, XPointer, | http://www.w3schools.com/ |
| 4 | XML technologies 201: SOAP, WSDL and RDF | http://www.w3schools.com/ |
| 5 | Text and Information Retrieval Summary and Overview | Moffat et al. Chapt. 1-4. |
| 6 | Classification and control vocabularies, LOC | Daconta Chaps 2-4. |
| 7 | Midterm in-class Quiz (90 mins) | |
| 8 | Thesauri and nym-word, WordNet | Daconta Chaps 7-8 |
| 9 | Ontologies and the Semantic Web | J. Hjelm, Chaps 5-8 |
| 10 | Description Logic and OWL | Antoniou, G. and Harmelen, F. v., 2004, "A Semantic Web Primer", MIT Press |
| 11 | Social Network Analysis and Visualizing Information | TBA |
| 12 | Search and Applications of the Semantic Web | V. Geroimenko, C. Chen, Chaps 2, 3, 7, 9 |
| 13 | Final Quiz (90 min) | |

Changes to the above schedule will be posted via e-Learning space <http://www.uow.edu.au/student/>. 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

Textbook(s):

None

Other Resources:

Colomb, R. 2002, "Information Spaces: The Architecture of Cyberspace", Springer Verlag.

Ian H. Witten, Alistair Moffat, and Timothy C. Bell, *Managing Gigabytes: Compressing and Indexing Documents and Images*, published by Morgan Kaufmann Publishing, San Francisco, ISBN 1-55860-570-3, 1999.

Fensel, D. 2004, "Ontologies: A silver bullet for knowledge management and electronic commerce", Springer-Verlag, 2004

Davies, J., Fensel, D. and Harmelen, F. v., 2003, "Towards the semantic web: ontology-driven knowledge management", Wiley

M. Daconta, L. J. Obrst, K. Smith, 2003, *The Semantic Web*, Wiley

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

C. Calero, F. Ruiz, M. Piattini, 2006, *Ontologies for Software Engineering and Software Technology*, Springer

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.

| ASSESSMENT ITEMS & FORMAT | % OF FINAL MARK | GROUP/ INDIVIDUAL | DUE DATE |
|----------------------------------|-----------------|-------------------|--|
| Lab/Tutorial Exercises (Part I) | 25% | Individual | Week 5 Hardcopy in tutorial, softcopy by Monday 15:30. |
| Lab/Tutorial Exercises (Part II) | 25% | Individual | Week 11 Hardcopy in tutorial, softcopy by Monday 15:30 |
| Mid Term in-class Quiz | 25% | Individual | Week 7 |
| Week 13 in-class Quiz | 25% | Individual | Week 13 |

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 laboratory assignments is essential to learning in this subject and these must be completed in order to be eligible to pass the subject. The laboratory times will be used to organize the allocation of assignment items and provide a venue and opportunity for individual 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 an essay or report) to practical programming based assignments (which involve the production or integration of software or a practical demonstration). Students must select 1 of the number to be completed and should indicate their preference by Week 3 and 8 respectively. The marking scale will be A, B, C, D, E reflecting recognition of effort and accuracy and corresponding marks of 25, 20, 15, 10, 5.

Electronic Submission of Assessment Items:

Unless otherwise notified by the subject coordinator, all written assignments must be submitted electronically.

Submission of assessment items via email will not be accepted.

Other Procedures for the submission of assessment items:

In addition to electronic submission students are required to submit assignments in hard copy to their tutor.

All assignments will be returned within 2 weeks of their submission.

To be eligible for a Pass in this subject a student must achieve a mark of at least 50% in the final in-class quiz. Students who fail to achieve this minimum mark & would have otherwise passed will be given a TF (Technical Fail) for this subject.

Penalties for late submission of assessment items:

Penalties apply to all late work, except if student academic consideration has been granted. Late submissions will attract a penalty of 20% of the assessment mark. This amount is per day including weekends.

Work more than (5) days late will be awarded a mark of zero.

Tutorial/Lab Closure Policy

If for any reason, the number of students in a tutorial or lab falls below a sustainable enrolment level,

as determined by the Head of School, tutorials/labs offered for that subject may be collapsed or deleted.

You will have to attend the new tutorials/lab if this closure affects the one you are attending.

We will endeavour to make this decision no later than Week 4 of session.

Supplementary Exams

Supplementary Exams will be dealt with in accordance with student academic consideration policy (<http://www.uow.edu.au/about/policy/studentacademicconsiderationpolicy.pdf>) 9.2 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.

Student Academic 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 academic consideration in order to complete all assessable work.

The University applies strict criteria to the granting of student academic consideration. Before applying for student academic consideration, students should carefully read the University's policy which can be found at: <http://www.uow.edu.au/about/policy/studentacademicconsiderationpolicy.pdf>.

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:

| | |
|--|---|
| Code of Practice - Teaching and Assessment http://www.uow.edu.au/handbook/codesofprac/teaching_code.pdf | Code of Practice - Students http://www.uow.edu.au/handbook/codesofprac/cop_students.html |
| Code of Practice-Honours http://www.uow.edu.au/handbook/CodeofPractice-Honours.pdf | Acknowledgement Practice Plagiarism will not be tolerated: http://www.uow.edu.au/handbook/courserules/plagiarism.html |
| Key Dates http://www.uow.edu.au/student/dates.html | Student Academic Consideration Policy: http://www.uow.edu.au/about/policy/studentacademicconsiderationpolicy.pdf |
| Course Progress Requirements: http://www.uow.edu.au/student/mrp/index.html | Graduate Qualities Policy: http://www.uow.edu.au/about/teaching/qualities/index.html#_The_new_UOW |
| Academic Grievance Policy (Coursework and Honours students) http://www.uow.edu.au/handbook/courserules/studacgrievpol.html | Non-Discriminatory Language Practice and Presentation http://staff.uow.edu.au/eed/nondiscrimlanguage.html |
| Occupational Health and Safety http://www.uow.edu.au/about/policy/ohs.html | Ownership of Work & Intellectual Property Policy: http://www.uow.edu.au/handbook/generalcourserules/UOW028651.html |
| Human Research Ethics Committee: http://www.uow.edu.au/research/rso/ethics/human/ | Rules for student conduct: http://www.uow.edu.au/handbook/generalrules/StudentConductRules.pdf |
| Independent Learners' Introductory Program http://www.uow.edu.au/student/attributes/ilip/ | Informatics Faculty Librarian, Ms Annette Meldrum, phone: 4221 4637, email: ameldrum@uow.edu.au |
| Student Support Services: http://www.uow.edu.au/student/services/ Informatics Faculty SEDLO (Student Equity and Diversity Liaison Officers) Virginie Schmelitschek, phone 4221 3833, virginie@uow.edu.au | SISAT Internet Access & Student Resource Centre http://www.uow.edu.au/informatics/sisat/current/uow024466.html |
| SISAT Computer Usage Rules http://www.uow.edu.au/informatics/sisat/current/uow024457.html | SISAT Subject Outlines http://www.uow.edu.au/informatics/sisat/current/UOW |