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**FIT5152 User interface design and usability - Semester 2, 2013**

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FIT5152 User interface design and usability - Semester 2, 2013

This unit provides detailed understanding of user interface design principles and practices and usability for computer-based systems. The principles, guidelines and standards for incorporating human factors in computer interface design are explored. The unit examines issues in interface design and usability from various perspectives and how to manage this during systems development. It explores contemporary issues including: background and underpinning theories, guidelines and standards, design processes and implementation in practice, user interface evaluation methods, interface styles and componential design. The application of HCI design in other environments such as virtual reality and mobile devices will be covered.

Mode of Delivery

- Caulfield (Evening)
- South Africa (Day)

Contact Hours

2 hrs lectures/wk, 1.5 hr laboratory/wk

Workload requirements

The unit is an on-campus unit and as such is structured, taught and assessed on the assumption that ALL students who choose to enrol can, and will, attend ALL classes and in particular tutorials where participation will be assessed.

This is a 6 point unit which, according to University guidelines, requires you to spend 12 hours of work per lecture/tutorial on it (a total of at least 144 hours per semester).

The anticipated workload is:

- 2 hours per week lecture (commencing July 31st, 2013), and
- 1.5 hours per week tutorial/laboratory (commencing August 7th, 2013)

Plus approximately:

- 5.5 hours per lecture/tutorial on preparation, online contributions and assignments, and
- 3 hours per lecture/tutorial minimum on additional reading.

Unit Relationships

Prohibitions

FIT4063, IMS5302, CSE5930
Chief Examiner

Professor Julie Fisher

Campus Lecturer

Caulfield

Julie Fisher

Consultation hours: 4-6 Wednesday

South Africa

Stella Ouma

Tutors

Caulfield

To be advised
Academic Overview

Learning Outcomes

At the completion of this unit students should be able to:

• understand from a management as well as technology perspective how the theories, guidelines and standards can be incorporated into the design of user interfaces;
• understand and apply the principles of interface design relating to HCI, this includes recognising good and bad examples;
• apply the standards, principles and theories in practice.
• develop and conduct usability evaluations and be able to interpret the results, identify changes that are needed to a user interface
• understand the different design considerations for designing for the Web and other devices
• understand the different user centred development methodologies that look at design from a user perspective. In particular have knowledge of the basic principles of good interface design and HCI principles;
• appreciate the difficulties users face when working with systems and be able to comprehend the concepts and principles underlying effective interface design and recognise good design from poor design and what the difference is from a user perspective;
• develop attitudes which enable them to interact effectively with users in order to apply this knowledge to the design of interfaces for a range of technologies;
• analyse the component parts of an interface so to be able to identify what is good design;
• synthesise the knowledge, guidelines and theory to understand how each contributes to practice;
• effectively conduct an evaluation of an information system especially in terms of usability of information systems;
• understand the development of systems from a user perspective;
• appreciate the difficulties users face when working with systems;
• apply the principles, standards and theories relating to interface design and HCI to information systems development;
• gather user requirements effectively;
• design an effective user interface;
• conduct a usability test and interpret the outcome;
• recognise poor design and solutions.
## Unit Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Activities</th>
<th>Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td>No formal assessment or activities are undertaken in week 0</td>
</tr>
<tr>
<td>1</td>
<td>July 31: Introduction and overview</td>
<td>No Tutorial this week, all students should ensure they have registered for a tutorial before August 7.</td>
</tr>
<tr>
<td>2</td>
<td>August 7: Theories, principles standards and</td>
<td>Tutorial 1. Assessment task 3: Active participation in tutorials and contributions to the discussion forum, this assessment is ongoing throughout the semester.</td>
</tr>
<tr>
<td></td>
<td>guidelines</td>
<td></td>
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<tr>
<td>3</td>
<td>August 14: Interface design background</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>August 21: Menus, forms and icons</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>August 28: User Interaction</td>
<td>Assessment task 1: to be completed in the tutorial this week</td>
</tr>
<tr>
<td>6</td>
<td>September 4: Evaluation and usability testing</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>September 11: Heuristic and other evaluation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>techniques</td>
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<tr>
<td>8</td>
<td>September 18: Designing for the web (what is</td>
<td></td>
</tr>
<tr>
<td></td>
<td>different?)</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>September 25: Designing user information</td>
<td></td>
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<tr>
<td>10</td>
<td>October 9: Data gathering, task analysis and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>prototyping</td>
<td></td>
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<tr>
<td>11</td>
<td>October 16: Designing for mobile and small</td>
<td>Assessment task 2: Presentations in class if required</td>
</tr>
<tr>
<td></td>
<td>screen devices</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>October 23: Guest speaker if available</td>
<td>Assessment task 2: Presentations in class if required. Assessment task 2: Written components (assignment and report) due Friday 25th October 2013 by 4pm</td>
</tr>
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<td></td>
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<tr>
<td></td>
<td>SWOT VAC</td>
<td>No formal assessment is undertaken in SWOT VAC</td>
</tr>
</tbody>
</table>

*Unit Schedule details will be maintained and communicated to you via your learning system.

## Assessment Summary

Examination (3 hours): 50%; In-semester assessment: 50%

<table>
<thead>
<tr>
<th>Assessment Task</th>
<th>Value</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>10%</td>
<td></td>
<td></td>
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<tr>
<td>Assignment 1: Design of an online form</td>
<td>Tutorial in week beginning August 26 (Week 5)</td>
<td></td>
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<tr>
<td>----------------------------------------</td>
<td>-----------------------------------------------</td>
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</tr>
<tr>
<td>Assignment 2: Evaluating usability 25% (17% written component, 8% report and presentation)</td>
<td>Written components (assignment and report) due Friday 25th October 2013 by 4pm. Presentations in Weeks 11 and 12.</td>
<td></td>
</tr>
</tbody>
</table>

| Active participation in tutorials and contributions to the discussion forum | Ongoing throughout semester. |
| Examination 1 | 50% |

**Teaching Approach**

- **Lecture and tutorials or problem classes**
  This teaching and learning approach provides facilitated learning, practical exploration and peer learning. Lectures will include small group discussion. Tutorials will also include discussion and practical exercises.

- **Other**
  Moodle discussion and readings: Students are encouraged to take responsibility for organising and directing their learning.
Assessment Requirements

Assessment Policy

Faculty Policy - Unit Assessment Hurdles

Academic Integrity - Please see the Demystifying Citing and Referencing tutorial at http://lib.monash.edu/tutorials/citing/

Assessment Tasks

Participation

During the semester you will be assessed on work in, and preparation for, tutorials, in particular the specifically assigned reading for each week, responding to questions posed by the lecturer via Moodle and comments posted to the discussion forum. The assessment of this component will be dependent on the quality of your answers based on the readings. A number of exercises may be set and students will be expected to complete those exercises either during the tutorial, or in preparation for the tutorial, and to actively participate in tutorial classes. Assessment will occur in ALL tutorials thoughout the semester. The quality and number of postings on the discussion forum in Moodle will be assessed including the response to questions from the lecturer.

This assessment will constitute 15% of your marks. No marks are awarded for simply attending tutorials.

• Assessment task 1

  Title: Assignment 1: Design of an online form
  Description:
  Students will demonstrate, in class, their knowledge and understanding of design and the relevant theories covered in the unit up to this point of the semester as applied to online form design. Students will be required to hand draw on paper a form for a case study provided and to justify their design decisions. Further details will be provided and posted on Moodle early in semester.
  Weighting: 10%
  Criteria for assessment:
  Quality of the form design, including how well the form incorporated the requirements of the case study and the justification provided for the design decisions. More weighting and marks are given for the justification than the design
  Due date:
  Tutorial in week beginning August 26 (Week 5)

• Assessment task 2

  Title: Assignment 2: Evaluating usability
  Description:
  Assignment 2 is a group assignment (3-4 students per group). No student will be permitted to do this assignment individually. The forming of groups across tutorials is
permitted. Groups should be finalised prior to the tutorial in Week 7, September 11th.

There are three components to the assignment, a written component, a report and a presentation based on the report. The assignment is designed to provide you with the practical experience of designing and conducting an usability evaluation.

The written component will include background literature on interface evaluation design, descriptions of the usability and heuristic evaluation conducted of the website in line with what has been studied during the semester and recommendations. The report will be a short report to the organisation whose website you evaluated, the presentation will be based on this report. Further details will be provided in the assignment specification.

Group presentations will take place in class in the last two weeks of the semester

Weighting:
25% (17% written component, 8% report and presentation)

Criteria for assessment:
All students in the group will be given the same mark unless an adjustment is made by the lecturer based on feedback from the group.

The written component will be assessed on the design and conduct of an evaluation of a selected website and background information, the analysis of that evaluation and written report on the outcome of the evaluation. Students are also required to demonstrate an understanding of the concepts and background literature on evaluation techniques.

The report will be assessed on the content, presentation and relevance to the organisation. The presentation will be assessed on the quality of the presentation and the delivery, the content selected for the presentation and its relevance.

Due date:
Written components (assignment and report) due Friday 25th October 2013 by 4pm.
Presentations in Weeks 11 and 12.

• Assessment task 3

Title:
Active participation in tutorials and contributions to the discussion forum

Description:
Throughout the semester you are expected to actively participate in tutorial classes. You will be asked questions relating to the reading material and the tutorial tasks. As part of your assessment you will be required to also either led the discussion on a set paper or summarise the discussion and post to Moodle once during the semester. Throughout the semester you are expected to contribute to the online forum discussions, including answering questions posted by the lecturer, posting new topics that are relevant to the unit and meaningful responses to the postings of other students.

Weighting:
15%

Criteria for assessment:
Quality of answers / responses.

Demonstrated understanding of the reading material provided.

No marks are awarded for simply attending tutorials.

Due date:
Ongoing throughout semester.
Examinations

- Examination 1

  Weighting: 50%
  Length: 3 hours
  Type (open/closed book): Closed book
  Electronic devices allowed in the exam: None

Learning resources

Monash Library Unit Reading List
http://readinglists.lib.monash.edu/index.html

Feedback to you

Types of feedback you can expect to receive in this unit are:

- Informal feedback on progress in labs/tutes
- Graded assignments with comments

Extensions and penalties

Submission must be made by the due date otherwise penalties will be enforced.

You must negotiate any extensions formally with your campus unit leader via the in-semester special consideration process: http://www.monash.edu.au/exams/special-consideration.html

Returning assignments

Students can expect assignments to be returned within two weeks of the submission date or after receipt, whichever is later.

Referencing requirements

Students should be aware of and adhere to the guidelines for referencing assignment work, Harvard style is the required format for referencing. This will be discussed in class early in the semester. Please also refer to the guidelines provided by the library.

Assignment submission

It is a University requirement (http://www.policy.monash.edu/policy-bank/academic/education/conduct/plagiarism-procedures.html) for students to submit an assignment coversheet for each assessment item. Faculty Assignment coversheets can be found at http://www.infotech.monash.edu.au/resources/student/forms/. Please check
with your Lecturer on the submission method for your assignment coversheet (e.g. attach a file to the online assignment submission, hand-in a hard copy, or use an online quiz). Please note that it is your responsibility to retain copies of your assessments.

Online submission

If Electronic Submission has been approved for your unit, please submit your work via the learning system for this unit, which you can access via links in the my.monash portal.

Required Resources

Please check with your lecturer before purchasing any Required Resources. Limited copies of prescribed texts are available for you to borrow in the library, and prescribed software is available in student labs.

A reading list and other resources, for each tutorial will be available as required on Moodle. All reading and other material will be provided online.

Prescribed text(s)

Limited copies of prescribed texts are available for you to borrow in the library.

Other Information

Policies

Monash has educational policies, procedures and guidelines, which are designed to ensure that staff and students are aware of the University’s academic standards, and to provide advice on how they might uphold them. You can find Monash’s Education Policies at: www.policy.monash.edu.au/policy-bank/academic/education/index.html

Key educational policies include:

- Academic integrity; http://www.policy.monash.edu/policy-bank/academic/education/conduct/student-academic-integrity-policy.html
- Special Consideration; http://www.policy.monash.edu/policy-bank/academic/education/assessment/special-consideration-policy.html
- Grading Scale; http://www.policy.monash.edu/policy-bank/academic/education/assessment/grading-scale-policy.html
- Discipline: Student Policy; http://www.policy.monash.edu/policy-bank/academic/education/conduct/student-discipline-policy.html
- Academic Calendar and Semesters; http://www.monash.edu.au/students/dates/
- Orientation and Transition; http://intranet.monash.edu.au/infotech/resources/students/orientation/
- Graduate Attributes Policy
  http://www.policy.monash.edu/policy-bank/academic/education/management/monash-graduate-attributes-policy.html

Student services

The University provides many different kinds of support services for you. Contact your tutor if you need advice and see the range of services available at http://www.monash.edu.au/students. For Sunway see http://www.monash.edu.my/Student-services, and for South Africa see http://www.monash.ac.za/current/.

Monash University Library

The Monash University Library provides a range of services, resources and programs that enable you to save time and be more effective in your learning and research. Go to www.lib.monash.edu.au or the library tab in my.monash portal for more information. At Sunway, visit the Library and Learning Commons at http://www.lib.monash.edu.my/. At South Africa visit http://www.lib.monash.ac.za/.
**Disability Liaison Unit**

Students who have a disability or medical condition are welcome to contact the Disability Liaison Unit to discuss academic support services. Disability Liaison Officers (DLOs) visit all Victorian campuses on a regular basis.

Website: http://www.monash.edu/equity-diversity/disability/index.html
Telephone: 03 9905 5704 to book an appointment with a DLO; or contact the Student Advisor, Student Community Services at 03 55146018 at Sunway
Email: dlu@monash.edu
Drop In: Equity and Diversity Centre, Level 1, Building 55, Clayton Campus, or Student Community Services Department, Level 2, Building 2, Monash University, Sunway Campus

**Your feedback to Us**

Monash is committed to excellence in education and regularly seeks feedback from students, employers and staff. One of the key formal ways students have to provide feedback is through the Student Evaluation of Teaching and Units (SETU) survey. The University’s student evaluation policy requires that every unit is evaluated each year. Students are strongly encouraged to complete the surveys. The feedback is anonymous and provides the Faculty with evidence of aspects that students are satisfied and areas for improvement.

For more information on Monash’s educational strategy, see:

www.monash.edu.au/about/monash-directions and on student evaluations, see:
www.policy.monash.edu/policy-bank/academic/education/quality/student-evaluation-policy.html

**Previous Student Evaluations of this Unit**

This unit is continuously reviewed, lecture and tutorial, material and assignments change as does the exam each semester.

As a result of previous student comments the design of tutorial participation and Moodle forums has been changed with the inclusion of questions from the lecturer to assist with learning.

If you wish to view how previous students rated this unit, please go to