Description: Software Development Tools

Subject                Cat-nbr    Class    Term    Mode    Units    Campus
CSC                    2408       48178    3, 2005  EXT      1.00      Toowoomba

Academic group:        FOSCI
Academic org:          FOS003
Student contribution band: 2
ASCED code:            020305

STAFFING
Examiner: Peter Cattell
Moderator: Richard Watson

REQUISITES
Pre-requisite: CSC1401 or USQIT16

RATIONALE
Students often need to use a selection of software tools when undertaking programming assignments, especially in second and third year courses. This course introduces students to a basic set of tools used in developing software, thus reducing duplication of presentation in other courses, and ensuring that all students are familiar with available tools before undertaking advanced level courses.

SYNOPSIS
In this course, students will be introduced to a range of software development tools. Particular attention will be given to configuration management tools (used to build programs from component parts, and to manage the development of the components), common scripting languages and debuggers. The emphasis will be upon tools available under the Unix family of operating systems, though most of the tools are available under other operating environments. A range of the more commonly used general Unix tools will also be covered.

OBJECTIVES
On successful completion of this course students will be able to:

1. demonstrate the ability to use a range of software development tools;
2. be familiar with the Unix/Linux operating systems and facilities.
TOPICS

<table>
<thead>
<tr>
<th>Description</th>
<th>Weighting (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installing Linux</td>
<td>5.00</td>
</tr>
<tr>
<td>Standard Unix tools</td>
<td>35.00</td>
</tr>
<tr>
<td>Configuration Management</td>
<td>12.00</td>
</tr>
<tr>
<td>Scripting Languages</td>
<td>35.00</td>
</tr>
<tr>
<td>Debuggers</td>
<td>5.00</td>
</tr>
<tr>
<td>Document Preparation</td>
<td>8.00</td>
</tr>
</tbody>
</table>

TEXT and MATERIALS required to be PURCHASED or ACCESSED

ALL textbooks and materials are available for purchase from USQ BOOKSHOP (unless otherwise stated). Orders may be placed via secure internet, free fax 1800642453, phone 07 46312742 (within Australia), or mail. Overseas students should fax +61 7 46311743, or phone +61 7 46312742. For costs, further details, and internet ordering, use the 'Textbook Search' facility at http://bookshop.usq.edu.au click 'Semester', then enter your 'Course Code' (no spaces).

Department of Mathematics & Computing CDROM SET 1, 2005 (available from the USQ Bookshop). This CD set contains course material, Windows and Linux Software relevant to this course offering. Department of Mathematics and Computing CDROM SET 2, 2005 (available from the USQ Bookshop). This set contains a Linux distribution which is required for this course. For more information about the CD sets and their use, please refer to http://www.sci.usq.edu.au/cdrom and the course web site.

Ensure that you receive the 2005 Introductory Book, Study Book and Selected Readings in your study package.


REFERENCE MATERIALS

Reference materials are materials that, if accessed by students, may improve their knowledge and understanding of the material in the course and enrich their learning experience.

STUDENT WORKLOAD REQUIREMENTS

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Examinations</td>
<td>2.00</td>
</tr>
<tr>
<td>Private Study</td>
<td>168.00</td>
</tr>
</tbody>
</table>
ASSESSMENT DETAILS

<table>
<thead>
<tr>
<th>Description</th>
<th>Marks out of</th>
<th>Wtg(%)</th>
<th>Due date</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASSIGNMENT 1</td>
<td>36.00</td>
<td>18.00</td>
<td>05 Dec 2005</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(see note 1)</td>
</tr>
<tr>
<td>ASSIGNMENT 2</td>
<td>16.00</td>
<td>8.00</td>
<td>19 Dec 2005</td>
</tr>
<tr>
<td>ASSIGNMENT 3</td>
<td>36.00</td>
<td>18.00</td>
<td>09 Jan 2006</td>
</tr>
<tr>
<td>ASSIGNMENT 4</td>
<td>24.00</td>
<td>6.00</td>
<td>23 Jan 2006</td>
</tr>
<tr>
<td>EXAMINATION 2 HRS OPEN</td>
<td>100.00</td>
<td>50.00</td>
<td>END S3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(see note 2)</td>
</tr>
</tbody>
</table>

NOTES
1. The Examiner advises that the Assignment deadline is 9.00 a.m. AEST on this date.
2. Examination dates will be available during the semester. Please refer to the examination timetable when published.

IMPORTANT ASSESSMENT INFORMATION

1. Attendance requirements:
   There are no attendance requirements for this course. However, it is the students' responsibility to study all material provided to them or required to be accessed by them to maximise their chance of meeting the objectives of the course and to be informed of course-related activities and administration.

2. Requirements for students to complete each assessment item satisfactorily:
   To complete each of the assignments satisfactorily, students must obtain at least 50% of the marks available for each assignment.

3. Penalties for late submission of required work:
   If students submit assignments after the due date without prior approval then a penalty of 10% of the total marks gained by the student for the assignment will apply for each day late.

4. Requirements for student to be awarded a passing grade in the course:
   To be assured of receiving a passing grade a student must submit all of the summative assessment items, achieve at least 50% in the examination and at least 50% of the available marks for the summative assessment items.

5. Method used to combine assessment results to attain final grade:
   The final grades for students will be assigned on the basis of the aggregate of the weighted marks obtained for each of the summative assessment items in the course.

6. Examination information:
   In an Open Examination, candidates may have access to any materials during the examination except the following: electronic communication devices, bulky materials, devices requiring mains power and material likely to disturb other students.

7. Examination period when Deferred/Supplementary examinations will be held:
   Any Deferred or Supplementary examinations for this course will be held during the examination period at the end of the semester of the next offering of this course.

8. University Regulations:
   Students should read USQ Regulations 5.1 Definitions, 5.6. Assessment, and 5.10 Academic Misconduct for further information and to avoid actions which might contravene University Regulations. These regulations can be found at the URL