The University of Southern Queensland

Course Specification

Description: Electrical and Electronic Practice E

<table>
<thead>
<tr>
<th>Subject</th>
<th>Cat-Nbr</th>
<th>Class</th>
<th>Term</th>
<th>Mode</th>
<th>Units</th>
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<td>3915</td>
<td>24651</td>
<td>2</td>
<td>2003</td>
<td>EXT</td>
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Academic Group: FOENS
Academic Org: FOES04
HECS Band: 2
ASCED Code: 031300

STAFFING
Examiner: John Leis
Moderator: Jim Ball

OTHER-REQUISITES
Co-requisite: recommended ELE3305

SYNOPSIS
This is the final practice course for Bachelor of Engineering students majoring in Electrical and Electronic or Computer Systems Engineering. Day students will complete this laboratory work in conjunction with the courses listed above as Day co-requisites. In the case of external students this laboratory work will be performed during a one week residential school, during either year 6 or 7 of their program. If the latter, the course may be undertaken immediately adjacent to ENG3902 Professional Practice 1, so that both may be completed over a two week period. This course provides experimental work and project work in the areas of digital signal processor (DSP) programming and computer networking. The principle objectives are to allow the student to develop knowledge of techniques, apply theory and interact with phenomena in real situations, and further develop problem identification and solution skills together with a capacity for self learning. A significant proportion of the course is devoted to group based project work.

OBJECTIVES
On completion of this course, students should be able to:

- apply signal processing and control theory and knowledge of computer networking in real situations;
- demonstrate problem identification and solution skills;
- demonstrate a high level of skill in observation, interpretation, analysis and communication;
- demonstrate an ability to work as part of a team.
TOPICS

<table>
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<th>Description</th>
<th>Weighting (%)</th>
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<tr>
<td>1. Digital Signal Processing</td>
<td>10.00</td>
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<tr>
<td>2. Computer System Topics</td>
<td>20.00</td>
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<tr>
<td>3. Computer Networking</td>
<td>70.00</td>
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TEXT and MATERIALS required to be PURCHASED or ACCESSED:
Books can be ordered by fax or telephone. For costs and further details use the 'Book Search' facility at http://bookshop.usq.edu.au by entering the author or title of the text.
Course notes and information available via http://www.usq.edu.au/users/leis/

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.

ELE3105 Computer Controlled Systems External Study Package, USQ Publication,
ELE3107 Signal Processing External Study Package, USQ Publication,
ELE3305 Computer Systems and Communications Protocols External Study Package, USQ Publication,

STUDENT WORKLOAD REQUIREMENTS

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>HOURS</th>
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<tr>
<td>Laboratory or Practical Classes</td>
<td>36</td>
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<tr>
<td>Private Study</td>
<td>14</td>
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ASSESSMENT DETAILS

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<tr>
<th>Description</th>
<th>Marks Out of</th>
<th>Wtg(%)</th>
<th>Required</th>
<th>Due Date</th>
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<tr>
<td>REPORT</td>
<td>1.00</td>
<td>50.00</td>
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<td>31 Oct 2003</td>
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<td>PRACTICAL ACTIVITIES</td>
<td>1.00</td>
<td>50.00</td>
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<td>31 Oct 2003</td>
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IMPORTANT ASSESSMENT INFORMATION

1. Attendance requirements:
This course requires attendance at a residential school. It is the students' responsibility to attend and participate appropriately in all activities (such as lectures, tutorials, laboratories and practical work) scheduled for them, and 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. Students must attend and complete the requirements of the Workplace Health and Safety training program for this course before they are able to undertake any practical work in the electrical laboratories.

2 Requirements for students to complete each assessment item satisfactorily:
   To complete the practical component satisfactorily, students must submit, by the due date, a practical report which meets the requirements of the assessment scheme.

3 Penalties for late submission of required work:
   Practical reports submitted after the due date will not be assessed.

4 Requirements for student to be awarded a passing grade in the course:
   To be assured of receiving a passing grade students must complete at least 80% of the practical and other activities at a satisfactory standard, as stated in 2 above.

5 Method used to combine assessment results to attain final grade:
   As P is the only passing grade available for this course, all students who are qualified for a passing grade, under the requirements in 4 above, will be given a grade of P. Other students will be given either a Failing grade or an Incomplete grade.

6 Examination information:
   There is no examination in this course.

7 Examination period when Deferred/Supplementary examinations will be held:
   Not applicable.

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 http://www.usq.edu.au/SECARIAT/calendar/Part5/ or in the printed version of the current USQ Handbook.

ASSESSMENT NOTES

1 The due date for an assignment is the date by which a student must despatch the assignment to the USQ. The onus is on the student to provide proof of the despatch date, if requested by the Examiner.

2 Students must retain a copy of each item submitted for assessment. This must be despatched to USQ within 24 hours if required by the Examiner.

3 In accordance with University's Assignment Extension Policy (Regulation 5.6.1), the examiner of a course may grant an extension of the due date of an assignment in extenuating circumstances.

4 The Faculty will normally only accept assessments that have been written, typed or printed on paper-based media.

5 The Faculty will NOT accept submission of assignments by facsimile.

6 Students who do not have regular access to postal services or who are otherwise disadvantaged by these regulations may be given special consideration. They should contact the examiner of the course to negotiate such special arrangements.
In the event that a due date for an assignment falls on a local public holiday in their area, such as a Show holiday, the due date for the assignment will be the next day. Students are to note on the assignment cover the date of the public holiday for the Examiner’s convenience.

Students who have undertaken all of the required assessments in a course but who have failed to meet some of the specified objectives of a course within the normally prescribed time may be awarded the temporary grade: IM (Incomplete - Make up). An IM grade will only be awarded when, in the opinion of the examiner, a student will be able to achieve the remaining objectives of the course after a period of non-directed personal study.

Students who, for medical, family/personal, or employment-related reasons, are unable to complete an assignment or to sit for an examination at the scheduled time may apply to defer an assessment in a course. Such a request must be accompanied by appropriate supporting documentation. One of the following temporary grades may be awarded IDS (Incomplete - Deferred Examination; IDM (Incomplete Deferred Make-up); IDB (Incomplete - Both Deferred Examination and Deferred Make-up).

The Faculty of Engineering and Surveying does not offer supplementary examinations.

OTHER REQUIREMENTS

Students will require access to e-mail and internet access to USQConnect for this course.