Description: Research Project Part 2

<table>
<thead>
<tr>
<th>Subject</th>
<th>Cat-Nbr</th>
<th>Class</th>
<th>Term</th>
<th>Mode</th>
<th>Units</th>
<th>Campus</th>
</tr>
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<tbody>
<tr>
<td>ENG</td>
<td>4112</td>
<td>24616</td>
<td>2, 2003</td>
<td>OCN</td>
<td>1.00</td>
<td>TW MBA</td>
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</table>

Academic Group: FOENS
Academic Org: FOENSV
HECS Band: 2
ASCED Code: 039999

STAFFING
Examiner: Nigel Hancock
Moderator: David Dowling

PRE-REQUISITES
Pre-requisite: ENG4111

OTHER-REQUISITES
It is recommended that students in BEng, BSurv and BTech(GIS) should be enrolled in the course ENG4903 while undertaking this course.

RATIONALE
Project work undertaken by individuals is a central part of engineering and surveying practice. At the professional engineer/surveyor level project work routinely involves research in the sense that there are non-standard requirements to be met and non-standard problems to be overcome. This course requires the student to complete the project commenced in ENG4111 Research Project Part 1, and to report the complete work (ENG4111 Research Project Part 1 and ENG4112 Research Project Part 2 together) in the form of an academic research dissertation.

SYNOPSIS
Following satisfactory progress in ENG4111 Research Project Part 1 in the preceding semester of offer, and with the continuing guidance of supervisor/s, the student will further develop skills spanning both the technical and non-technical dimensions of engineering and surveying (including GIS) at the professional level. The student will study the rationale, style and format of the academic dissertation (and appreciate the differences with respect to other forms of technical reporting); and present the total project work (comprising ENG4111 Research Project Part 1 and ENG4112 Research Project Part 2) as a dissertation.
OBJECTIVES
On completion of this course, students should be able to:

- take responsibility for a major individual technical task and execute it to an appropriate point of completion;
- interact appropriately with a designated senior colleague (the supervisor) during all phases of a major technical task;
- interact appropriately with other colleagues, eg. technical and administrative staff, as necessary in support of the project;
- cope with resource and time constraints, both foreseeable and unexpected;
- prepare and submit an academic dissertation within a designated timeframe.

TOPICS

<table>
<thead>
<tr>
<th>Description</th>
<th>Weighting (%)</th>
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<tbody>
<tr>
<td>1. Project work in which students will continue and complete the individual project commenced in ENG4111 Research Project Part 1. These will include some (and often many) of the following: further literature research and evaluation; further analysis of consequences; further planning and management; feasibility assessment; experimental work and trialing; fieldwork; data analysis; design; prototype construction and testing; simulation and modelling; financial analysis.</td>
<td>60.00</td>
</tr>
<tr>
<td>2. The work will be undertaken with the guidance of a supervisor or supervisors (as appointed for ENG4111 Research Project Part 1), at least one of whom will be appointed from the academic staff of the Faculty. Sponsors and associate supervisors external to the Faculty may also be involved.</td>
<td>10.00</td>
</tr>
<tr>
<td>3. Dissertation guidance and preparation.</td>
<td>30.00</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.

ENG4111/4112 Project Reference Book, USQ Publication,

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.

The project will require full use of the resources of the Library and via the Internet, including literature searches, research papers, journals and trade literature files.
STUDENT WORKLOAD REQUIREMENTS

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>HOURS</th>
</tr>
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<tbody>
<tr>
<td>Private Study</td>
<td>10</td>
</tr>
<tr>
<td>Project Work</td>
<td>80</td>
</tr>
<tr>
<td>Report Writing</td>
<td>50</td>
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<tr>
<td>Supervisor Consultation</td>
<td>15</td>
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ASSESSMENT DETAILS

<table>
<thead>
<tr>
<th>Description</th>
<th>Marks Out of</th>
<th>Wtg(%)</th>
<th>Required</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>PARTIAL DRAFT DISSERTATION</td>
<td>1.00</td>
<td>0.00</td>
<td>Y</td>
<td>19 Sep 2003 (see note )</td>
</tr>
<tr>
<td>PROJECT PERFORMANCE</td>
<td>100.00</td>
<td>100.00</td>
<td>Y</td>
<td>30 Oct 2003 (see note )</td>
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</tbody>
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NOTES:
- Refer to Assessment Note 3 in the Assessment Notes of the Course Specification.
- Refer to Assessment Notes 4, 5 and 6 in the Assessment Notes of the Course Specification.

IMPORTANT ASSESSMENT INFORMATION

1 Attendance requirements:
   Students must attend the start of semester introductory session/s and must attend
   project supervision meetings (normally weekly) as negotiated with or directed by
   their nominated supervisor/s.

2 Requirements for students to complete each assessment item satisfactorily:
   To complete each of the assessment items satisfactorily students must meet the
   requirements of the item as set out in the ENG4111/2 Project Reference Book.

3 Penalties for late submission of required work:
   (i) Students who do not submit the assessment "Partial Draft Dissertation" by the
       Due Date will receive limited or zero supervisor feedback. (ii) Students who do
       not submit EITHER a completed project dissertation OR a brief statement of
       progress by the "Project Performance" Due Date will normally be graded F (Fail)
       in both of the courses ENG4112 and ENG4111.

4 Requirements for student to be awarded a passing grade in the course:
   To be awarded a passing grade in this course, together with course ENG4111
   Research Project Part 1, a student must demonstrate satisfactory performance as
   set out in the ENG4111/2 Project Reference Book. The grade awarded will then
   be the same for both ENG4111 and ENG4112.

5 Method used to combine assessment results to attain final grade:
   The final grade for students will be assigned on the basis of the aggregate project
   work undertaken in this course and the course ENG4111 Research Project Part 1.
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 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. The following temporary grade will then be awarded IDM (Incomplete Deferred Make-up).

2 (i) This is a communication benchmark course and a major component of the assessment of this course will be associated with the demonstration of communication skills. (ii) The required standard of communication skills must be demonstrated in order for a passing grade to be achieved. Substandard communication (in the dissertation) will result in an automatic IM (Incomplete - Make Up) grade irrespective of the quality of the technical work of the project.

3 PARTIAL DRAFT DISSERTATION. (i) Students are advised to submit a substantial portion of their draft dissertations direct to their supervisors for feedback by the date indicated (Assessment No. 1). This is a formative assessment and no result is recorded. (ii) Students submitting a substantial portion of his/her draft dissertation to his/her supervisor/s AFTER the date indicated may receive only limited or zero feedback at the discretion of the supervisor/s.

4 DEADLINES. (i) The deadline for receipt of the dissertation ("Project Performance") is 4.00pm on the THURSDAY as indicated in the assessment details above. (ii) The Examiner may grant an extension of this deadline in exceptional circumstances, such as prolonged illness. To ensure equity between students only the Examiner may grant an extension. Application for such an extension must be made in writing to the Examiner and fully justified. The decision will be made with the advice of the supervisor/s. (iii) Students unable to submit by this deadline ("Project Performance") must state briefly in a letter to the Examiner why they should not be graded F (Fail) at this time. If the reasons given are considered satisfactory, and with the advice of the supervisor, then a grade of IM (Incomplete-Make Up) will be awarded. (iv) Projects graded IM for any reason will normally be eligible for a C grade only. (v) The FINAL DEADLINE for project submission is 31 January 2004. Projects not submitted by this final deadline will be automatically graded F (Fail).

5 DISSERTATION SUBMISSION. (i) At least three identical copies of the project dissertation shall be submitted in the format set out in the ENG4111/4112 Project Reference Book. A dissertation which does not meet the obligatory requirements
of this format will not be accepted. (ii) Submission at the due date ("Project Performance") may take the form of: EITHER the three identical bound copies; OR a complete copy for assessment purposes PLUS an official binder's receipt for at least two copies. (iii) At least two bound copies must be received by the Faculty before a passing grade is awarded.

6 PROJECT ASSESSMENT. (i) Assessment of the complete project, ENG4111 together with ENG4112, and project dissertation shall be with respect to the final version of the individual Project Specification (course ENG4111 Research Project Part 1) and will take into account the degree of difficulty of the work. (ii) Students will not be penalised for unforeseeable events, constraints and other limitations which occur during the execution of the project. (iii) Project assessment may also involve demonstration of hardware constructed, software written and/or inspection of fieldwork as appropriate. (iv) At least two (2) members of academic staff shall perform a detailed assessment in accordance with the protocol set out in the ENG4111/4112 Project Reference Book, one of whom will normally be the principal supervisor. (v) The grade recommended by the assessors will remain confidential until various moderation procedures have been conducted by the Examiner. (vi) When a passing grade is awarded that grade will also be recorded for ENG4111 Research Project Part 1. (vii) If an F (Fail) grade is awarded then the student must re-enrol in ENG4112. If such a student does not re-enrol and achieve a passing grade within a period of (normally) twelve (12) months from the first F grade then an F grade will be awarded for BOTH courses ENG4111 Research Project Part 1 and ENG4112 Research Project Part 2 (second enrolment).

OTHER REQUIREMENTS

1 ENROLMENT. (i) A student will not be permitted to undertake ENG4112 Research Project Part 2 unless he/she has a current grade of IIP (Incomplete in Progress) in ENG4111 Research Project Part 1. (ii) Students will normally undertake ENG4112 Research Project Part 2 in the semester immediately following their completion of ENG4111 Research Project Part 1. (iii) Simultaneous enrolment in ENG4903 Professional Practice 2 (which encompasses project presentation, including seminars) is expected UNLESS course ENG4112 is being undertaken as part of a postgraduate program.

2 REGULATIONS. The notes and requirements set out in this course specification, together with those of ENG4111 Research Project Part 1 Course Specification, constitute the regulations for undergraduate project work within the Faculty of Engineering and Surveying.