The University of Southern Queensland

Course Specification

Description: Soil and Water Engineering Practice 1

<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>
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<td>ENV</td>
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<td>24559</td>
<td>2, 2003</td>
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<td>0.00</td>
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Academic Group: FOENS
Academic Org: FOES03
HECS Band: 2
ASCED Code: 030900

STAFFING
Examiner: Ken Moore
Moderator: Mark Porter

PRE-REQUISITES
Co-requisite: ENV2103 and CIV2402 or ENV1101 and CIV2401

OTHER-REQUISITES
Co-requisite: 70360+70455/71013+E1014

RATIONALE
Practice courses seek to develop basic competencies and attributes commensurate with the intuitive and professional skills sought in engineering graduates. This course provides a broad introduction to the practical aspects of soil and water engineering and focuses on the development of analytical, manual, diagnostic, communication and group interaction skills.

SYNOPSIS
The course is subdivided into practice modules covering aspects of Soil Mechanics and Hydraulics. Practice requirements for each module include testing and experimental work in a team environment, and subsequent data analyses and presentation of results on an individual basis. Students will be required to carry out soil tests to Australian standards to gauge various engineering properties of soils. Laboratory sessions in hydraulics provide for better understanding of relevant theory and calibration techniques for flow measuring devices through hands on experience.

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

- measure basic engineering properties of soils using standard testing procedures;
• conduct experiments to verify common fundamental principles relating to fluid statics and fluid flow in pipelines and channels;
• analyse and present experimental data to a suitable engineering standard.

**TOPICS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Weighting (%)</th>
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<tbody>
<tr>
<td>1. Laboratory Work and Data Analysis - Soil Mechanics</td>
<td>50.00</td>
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<tr>
<td>2. Laboratory Work and Data Analysis - Hydraulics</td>
<td>50.00</td>
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**STUDENT WORKLOAD REQUIREMENTS**

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>HOURS</th>
</tr>
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<tbody>
<tr>
<td>Laboratory or Practical Classes</td>
<td>28</td>
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<tr>
<td>Report Writing</td>
<td>22</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>
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<tr>
<td>SOIL MECHANICS LAB WORKSHEETS</td>
<td>1.00</td>
<td>50.00</td>
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<td>31 Oct 2003</td>
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<td>HYDRAULICS LAB WORKSHEETS</td>
<td>1.00</td>
<td>50.00</td>
<td>Y</td>
<td>31 Oct 2003</td>
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</table>

**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.

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 90% 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.

ASSSESSMENT 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.

7 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.

8 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.

9 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).