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>
</tr>
</thead>
<tbody>
<tr>
<td>ENV</td>
<td>2901</td>
<td>14559</td>
<td>2, 2002</td>
<td>ONC</td>
<td>0.00</td>
<td>TWMBA</td>
</tr>
</tbody>
</table>

Academic Group: FOENS
Academic Org: FOES03
HECS Band: 2
ASCED Code: 030900

STAFFING
Examiner: Ken Moore
Moderator: Mark Porter

PRE-REQUISITES
Co-requisite: ENV 2103 and CIV 2402 or ENV 1101 and CIV 2401

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>
</tr>
</thead>
<tbody>
<tr>
<td>1. Laboratory Work and Data Analysis - Soil Mechanics</td>
<td>50.00</td>
</tr>
<tr>
<td>2. Laboratory Work and Data Analysis - Hydraulics</td>
<td>50.00</td>
</tr>
</tbody>
</table>

STUDENT WORKLOAD REQUIREMENTS

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory or Practical Classes</td>
<td>32</td>
</tr>
<tr>
<td>Report Writing</td>
<td>18</td>
</tr>
</tbody>
</table>

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>SOIL MECHANICS LAB WORKSHEETS</td>
<td>500.00</td>
<td>50.00</td>
<td>Y</td>
<td>01 Nov 2002</td>
</tr>
<tr>
<td>HYDRAULICS LAB WORKSHEETS</td>
<td>500.00</td>
<td>50.00</td>
<td>Y</td>
<td>01 Nov 2002</td>
</tr>
</tbody>
</table>

OTHER REQUIREMENTS

1. To be awarded a passing grade in this course students must complete at least 80% of the practical and other activities in the course.
2. The only final grades awarded in this course are Pass (P) or Fail (F) grades.
3. To receive a pass in this course students must satisfactorily complete each assessment.
4. Analysis sheets for both the Soil Mechanics and Hydraulics parts will normally be submitted at the completion of the practical work, no later than one (1) calendar month after completion of the work.
5. A minimum standard of communication skills must be demonstrated in order for a passing grade to be achieved.
6. The due date for an assignment is the date by which a student must dispatch the assignment to the USQ. The onus is on the student to provide proof of the dispatch date, if requested by the Examiner.
7. Students must retain a copy of each item submitted for assessment. This must be produced within five days if required by the Examiner.
8. 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.
9. If students submit assignments after the due date without prior approval then a penalty of up to 20% of the total marks for the assignment will apply for each working day late.
10 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.

11 The Faculty of Engineering and Surveying will NOT accept submission of handwritten or typed assignments by facsimile, e-mail or computer diskette. Students in remote locations who do not have regular access to postal services may be given special consideration.

12 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.

13 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; IDSM (Incomplete Deferred Examination and Make-up).