Course Specification

Description: Surveying Practice 4

<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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<tbody>
<tr>
<td>SVY</td>
<td>3904</td>
<td>10636</td>
<td>1, 2002</td>
<td>EXT</td>
<td>0.00</td>
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Academic Group: FOENS
Academic Org: FOES05
HECS Band: 2
ASCED Code: 031101

STAFFING
Examiner: Frank Young

PRE-REQUISITES
Pre-requisite: SVY 3304 Co-requisite: SVY 2903 and SVY 3107 and GIS 1402 and SVY 3202

SYNOPSIS
This course is project based, integrating GIS, photogrammetry and remote sensing, cadastral surveying and GPS tasks with student's theoretical knowledge to provide practical and application skills relevant to workplace environments.

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

- Describe and operate an industry standard GIS software package.
- Understand the various stages and processes involved in establishing a small GIS.
- Undertake a small GIS project including the design, capture, analysis and output of final results.
- Present the results of GIS projects in a professional manner.
- Undertake remote sensing data analysis.
- Undertake basic photogrammetric data analysis using analogue analytical and digital photogrammetric techniques.
- Apply practical cadastral methods to solving cadastral surveying problems.
- Apply practical GPS methods and analysis to solving coordinate control problems.
- Report on identified activities undertaken during the residential school.
TOPICS

<table>
<thead>
<tr>
<th>Description</th>
<th>Weighting (%)</th>
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<tbody>
<tr>
<td>1. Operation of GIS and data presentation and reporting</td>
<td>30.00</td>
</tr>
<tr>
<td>2. Photogrammetric and remote sensing report</td>
<td>25.00</td>
</tr>
<tr>
<td>3. Cadastral surveying</td>
<td>25.00</td>
</tr>
<tr>
<td>4. GPS Survey</td>
<td>20.00</td>
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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.

SVY3304 Cadastral Surveying, External Study Materials, USQ Publication.
SVY3107 Geodetic Surveying B, External Study Package, USQ Publication.
GIS1402 Geographic Information Systems, External Study Materials, USQ Publication.

STUDENT WORKLOAD REQUIREMENTS

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>HOURS</th>
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<tbody>
<tr>
<td>Laboratory or Practical Classes</td>
<td>41</td>
</tr>
<tr>
<td>Lectures</td>
<td>1</td>
</tr>
<tr>
<td>Report Writing</td>
<td>4</td>
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<td>Seminars</td>
<td>4</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>REPORT</td>
<td>999.00</td>
<td>100.00</td>
<td>Y</td>
<td>04 Mar 2002</td>
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</table>

Notes:
1. Further details about the due dates are detailed in the assessment section of the Course Specifications.

OTHER REQUIREMENTS

1. Attendance at a minimum of 80% of practical and/or residential school sessions is compulsory for a passing grade to be awarded in this course. All set assessment reports must be submitted for grading.
The only final grades awarded in this course are Pass (P) or Fail (F) grades.

To receive a passing grade in this course a student must normally achieve at least 45% in each of the assessments and at least 50% of the available marks for the course.

A minimum standard of communication skills must be demonstrated in order for a passing grade to be achieved.

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

Students must retain a copy of each item submitted for assessment. This must be produced within five days if required by the Examiner.

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.

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.

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.

The Faculty of Engineering and Surveying will NOT accept submission of hand written 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.

The final grades for students will be assigned on the basis of the aggregate of the marks obtained for each of the assessments in the course.

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