Description: Surveying Practice 4

Subject Cat-nbr Class Term Mode Units Campus
SVY 3904 30556 1, 2004 ONC 0.00 TWMBA

Academic group: FOENS
Academic org: FOES05
Student contribution band: 2
ASCED code: 031101

STAFFING
Examiner: Peter Gibbings
Moderator: Frank Young

REQUISITES
Pre-requisite: SVY3304

OTHER-REQUISITES
Recommended prior or concurrent study: SVY2903 and SVY3107 and GIS1402 and SVY3202

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 completion of this course, students should 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 interpretation and 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. GIS and data presentation</td>
<td>30.00</td>
</tr>
<tr>
<td>2. Photogrammetric and remote sensing analysis</td>
<td>25.00</td>
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<tr>
<td>3. Cadastral surveying</td>
<td>25.00</td>
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<tr>
<td>4. GPS Survey</td>
<td>20.00</td>
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TEXT and MATERIALS required to be PURCHASED or ACCESSED:
ALL textbooks and materials are available for purchase from USQ BOOKSHOP (unless otherwise stated). Orders may be placed via secure internet, free fax 1800642453, phone 07 46312742 (within Australia), or mail. Overseas students should fax +61 7 46311743, or phone +61 7 46312742. For costs, further details, and internet ordering, use the 'Textbook Search' facility at http://bookshop.usq.edu.au click 'Semester', then enter your 'Course Code' (no spaces).

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 Package, USQ Publication, Toowoomba.
SVY3107 Geodetic Surveying B External Study Package, USQ Publication, Toowoomba.

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>41.00</td>
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<tr>
<td>Lectures</td>
<td>1.00</td>
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<tr>
<td>Report Writing</td>
<td>4.00</td>
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<td>Seminars</td>
<td>4.00</td>
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ASSESSMENT DETAILS

<table>
<thead>
<tr>
<th>Description</th>
<th>Marks out of</th>
<th>Wtg(%)</th>
<th>Due date</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPORTS</td>
<td>1.00</td>
<td>100.00</td>
<td>11 Jun 2004</td>
</tr>
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</table>

IMPORTANT ASSESSMENT INFORMATION

1 Attendance requirements:
   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 each of the assignments satisfactorily, students must obtain at least
   50% of the marks available (or at least a grade of C-) for each assignment.

3 Penalties for late submission of required work:
   If students submit assignments after the due date without prior approval then a
   penalty of 20% of the total marks available for the assignment will apply for each
   working day late.

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.
   Student will be graded with IM (Incomplete Make up) at the end of Semester 1 as
   the project work will extend into Semester 2. The final grade will be awarded after
   the successful completion of all the activities.

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/corporateservices/calendar/part5.htm or in 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 produced within five days 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).

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