

## Subject Description Form

<b>Subject Code</b>	LSGI2963																		
<b>Subject Title</b>	Civil Engineering Survey Camp																		
<b>Credit Value</b>	1																		
<b>Level</b>	2																		
<b>Pre-requisite/ <del>Co-requisite/ Exclusion</del></b>	LSGI2961 Engineering Surveying																		
<b>Objectives</b>	The objectives of the engineering survey camp are to let the students to familiar with the techniques and procedures of establishing vertical and horizontal control networks by levelling and traversing, detail surveying/setting out, and presentation of survey records in a “construction-site” environment inside the camp.																		
<b>Intended Learning Outcomes</b> <i>(Note 1)</i>	Upon completion of the subject, students will be able to implement the knowledge learnt in LSGI 2961, to manage and carry out an engineering survey project according to the client’s specifications. The project work will involve control survey, detail survey/setting out, and report writing.																		
<b>Subject Synopsis/ Indicative Syllabus</b> <i>(Note 2)</i>	N/A																		
<b>Teaching/Learning Methodology</b> <i>(Note 3)</i>	<p>During the survey camp, students are divided into survey teams. Each survey team is required to complete the following schedule:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;"><i>Day No.</i></th> <th style="text-align: center;"><i>Survey Practice</i></th> <th style="text-align: center;"><i>Continuous Assessment</i></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Establishment of horizontal controls by traversing.</td> <td style="text-align: center;">20%</td> </tr> <tr> <td rowspan="2" style="text-align: center;">2</td> <td>Establishment of vertical control points by ordinary leveling.</td> <td style="text-align: center;">20%</td> </tr> <tr> <td>Detail survey</td> <td style="text-align: center;">15%</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Compilation and presentation of survey results</td> <td style="text-align: center;">15%</td> </tr> <tr> <td style="text-align: center;">4*</td> <td>Oral Examination (*on campus)</td> <td style="text-align: center;">30%</td> </tr> </tbody> </table> <p style="text-align: right; margin-right: 50px;">Total Assessment:                      100%</p> <p>Students are required to bring their own stationery, calculators, survey forms/ field booking sheets, drafting papers, reference materials, protective clothing and other necessities for the survey camp. Survey instruments and micro-computer systems will be provided by the University.</p>		<i>Day No.</i>	<i>Survey Practice</i>	<i>Continuous Assessment</i>	1	Establishment of horizontal controls by traversing.	20%	2	Establishment of vertical control points by ordinary leveling.	20%	Detail survey	15%	3	Compilation and presentation of survey results	15%	4*	Oral Examination (*on campus)	30%
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	All survey teams have to submit their reports to the Lecturer/ Instructor before leaving the camp. During continuous assessment, grade will be awarded to each student base upon his/ her understanding of the concept of engineering surveying, presentation of survey data, and performance in the field.													
<b>Assessment Methods in Alignment with Intended Learning Outcomes</b>  <i>(Note 4)</i>	<table border="1"> <thead> <tr> <th>Specific assessment methods/tasks</th> <th>% weighting</th> <th>Intended subject learning outcomes to be assessed (Please tick as appropriate)</th> </tr> </thead> <tbody> <tr> <td>1. Continuous assessments in field camp</td> <td>70%</td> <td style="text-align: center;">✓</td> </tr> <tr> <td>2. Oral examination on campus</td> <td>30%</td> <td style="text-align: center;">✓</td> </tr> <tr> <td>Total</td> <td>100 %</td> <td></td> </tr> </tbody> </table>	Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)	1. Continuous assessments in field camp	70%	✓	2. Oral examination on campus	30%	✓	Total	100 %		
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<p>Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:</p> <p>The methods assess both teamwork and individual contributions and understanding of the fundamental civil engineering survey tasks.</p>														
<p>Class contact:</p>														
<ul style="list-style-type: none"> <li>▪ Preparation of survey camp and on-site discussions</li> </ul>		10 Hrs.												
<p>Other student study effort:</p>														
<ul style="list-style-type: none"> <li>▪ Field work and office computation</li> </ul>		25 Hrs.												
<p>Total student study effort</p>		35 Hrs.												
<b>Reading List and References</b>	<p>Surveying for engineers by Uren, J.; W. F Price (William Frank), Basingstoke England; New York : Palgrave Macmillan ; 2010 ; 5th ed</p> <p>Engineering surveying by Schofield, W. (Wilfred), (author); M Breach (Mark), (author), Abingdon, Oxon : Spon Press ; 2011; Sixth edition.</p>													

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