

Course No.	Course Name	L-T-P - Credits	Year of Introduction																		
CE233	SURVEYING LAB	0-0-3-1	2016																		
<b>Prerequisite :</b> Nil																					
<b>Course Objectives:</b> <ol style="list-style-type: none"> <li>1. To equip the students to undertake survey using tacheometer</li> <li>2. To equip the students to undertake survey using total station</li> <li>3. To impart awareness on distomat and handheld GPS</li> </ol>																					
<b>List of Exercises/Experiments :</b> ( 10 to12 exercises are mandatory) <table border="0" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 80%;">1. Introduction to conventional surveying</td> <td style="width: 20%; text-align: right;">-1 class</td> </tr> <tr> <td>2. Levelling ( dumpy level)</td> <td style="text-align: right;">-2 class</td> </tr> <tr> <td>3. Theodolite surveying ( Theodolite)</td> <td style="text-align: right;">-3class</td> </tr> <tr> <td>4. Total Station survey ( Total Station)</td> <td style="text-align: right;">-5 class</td> </tr> <tr> <td style="padding-left: 20px;">a. Heights and Distance</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">b. Area computation</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">c. Downloading</td> <td></td> </tr> <tr> <td>5. Study of instruments –Automatic level, digital level, Handheld GPS</td> <td style="text-align: right;">-2 class</td> </tr> <tr> <td>6. Test</td> <td style="text-align: right;">-2 class</td> </tr> </tbody> </table>				1. Introduction to conventional surveying	-1 class	2. Levelling ( dumpy level)	-2 class	3. Theodolite surveying ( Theodolite)	-3class	4. Total Station survey ( Total Station)	-5 class	a. Heights and Distance		b. Area computation		c. Downloading		5. Study of instruments –Automatic level, digital level, Handheld GPS	-2 class	6. Test	-2 class
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<b>Expected outcome .</b> Ability to undertake survey using level and theodolite and total station																					

**Internal Continuous Evaluation - 100 marks**

Record/output (Average) - 60 marks

Viva-voce (Average) - 10 marks

Final practical examination – 30 marks

