

Course Number and Name												
BCE4L1 - SURVEYING PRACTICAL - II												
Credits and Contact Hours												
2 & 45												
Course Coordinator's Name												
Ms. L.Mariasubashini												
Course Description												
<ul style="list-style-type: none"> To understand field problems like tachometry, setting out for foundation marking etc. 												
Prerequisites						Co-requisites						
Survey practical-I						Survey II						
required, elective, or selected elective (as per Table 5-1)												
Course Outcomes (COs)												
CO1	Take angular and linear measurements using total station											
CO2	Prepare contour maps for the given area											
CO3	Field observation for the calculation of azimuth.											
CO4	Determination of personal stereoscopic acuity in laboratory.											
Student Outcomes (SOs) from Criterion 3 covered by this Course												
COs/SOs	a	b	c	d	e	f	g	h	i	j	k	
CO1						H	H					
CO2						H	H					
CO3							M					
CO4						L	M	L				
List of Topics Covered												
UNIT I TACHEOMETRY											12	
Tangential system (using theodolite, leveling staff)												
Stadia system (using theodolite, leveling staff)												
Subtense system (using theodolite, tape, cross staff, leveling staff)												
UNIT II SETTING OUT WORKS											12	
Foundation marking (using theodolite, tape, ranging rods)												
Simple curve - right / left handed (using theodolite, tape, ranging rods)												
Transition curve (using theodolite, tape, ranging rods)												
UNIT III FIELD ASTRONOMY											9	

Field observation for the calculation of azimuth (using theodolite, tape)

UNIT IV ELECTRONIC SURVEYING (using photogrammetry accessories /instruments) 12

Practicing fusion of stereo pairs of charts and photographs to get 3D

Use of pocket stereoscope and parallax bars

Determination of personal stereoscopic acuity in laboratory

Work on stereo test charts to access stereoscopic ability