## 23CE21P1 SURVEYING LABORATORY

<b>Course Category</b>	Professional Core	Credits	1.5
Course Type	Practical	Lecture - Tutorial -Practical	0-0-3
Prerequisite	-	Sessional Evaluation	30
		Semester End Exam. Evaluation	70
		Total Marks	100

Course	1. Know about various linear and angular measuring instruments											
Objectives	2. Take Measurements in the linear and angular view											
, and the second	Determine the area and volume by interpreting the data obtained from surveying activities											
	4. Know modern equipment such as total station											
	5. Draft field notes from survey data											
Course Outcomes	CO1 Handle various linear and angular measuring instruments											
	CO2 Measure the linear and angular measurements											
	CO3 Calculate the area and volume by interpreting the data obtained from surveying activities											
	CO4 Handle modern equipment such as total station											
	CO5 Prepare field notes from survey data											
	List of Field Works:											
	1. Chain survey of road profile with offsets in case of road widening.											
Course	2. Determination of distance between two inaccessible points by using											
Content	compass.											
	3. Plane table survey ;finding the area of a given boundary by the method of Radiation											
	4. Height of the instrument method (differential leveling)											
	5. Rise and fall method (Fly levelling)											
	6. Determining the levels of contours											
	7. Theodolite survey: finding the distance between two in accessible points.											
	8. Theodolite survey: finding the height of far object.											
	9. Theodolite survey: determining the horizontal and vertical											
	angles by the method ofrepetition method											
	10. Setting out a curve											
	11. Determination of area of perimeter using total station.											
	12. Determination of distance between two inaccessible point by using total station.											
E-resources	https://sl-iitr.vlabs.ac.in/List%20of%20experiments.html											

CO-PO Mapping: 3-High Mapping, 2-Moderate Mapping, 1-Low Mapping, --Not Mapping

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	<b>PO</b> 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS 03
CO 1	1	1	1	-	1	1	1	1	1	1	1	1	1	1	ı
CO 2	3	2	1	1	1	1	1	1	1	1	1	2	ı	1	2
CO 3	3	2	-	1	-	-	-	-	1	-	-	1	1	1	2
CO 4	3	2	-	1	-	-	-	-	-	-	-	1	2	1	2
CO 5	2	1	-	2	3	2	1	ı	1	ı	3	2	1	-	1