## 20CE3352- SURVEYING LAB

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Co	ourse Ca	tegory:	Professional core								Credits:			1.5	
(	Course	Laboratory							Le	Lecture-Tutorial- Practical:		0-0-3			
											Continuous Evaluation:			15	
1	Prerequi	sites	Nil								Semester End				
J	rierequi	sites.									Evaluation:			35	
											Total Marks:		50		
Cours	e Outco	mag										11 KS.		0	
	successf		nletion	of the	course	the s	tudent	will b	e able i	to:					
CO1											ea usino	chain s	irvev	K4	
CO2 CO3				urate measurements, field booking, plotting of area using chain survey. ledge in the field- measuring distances, directions, angles, heights using											
	compass and theodolite.								s using	K4					
	Plotting the accessible and inaccessible points in filed itself by using plane table.											K4			
													ata and		
CO4	<b>Execute</b> the levelling works of various profiles and <b>Interpret</b> the survey data and prepare contour maps.													K5	
					e Outc	omes	toward	ds ach	ieveme	ent of P	rogram	Outcor	nes		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
CO1	3	3	3	3	3	3		3	3	3		3	3		
CO2	3	3	3	3	3	3		3	3	3		3	3		
CO3	3	3	3	3	3	3		3	3	3		3	3		
CO4	3	3	3	3	3	3		3	3	3		3	3		
Avg.	3	3	3	3	3	3		3	3	3		3	3		
0		1- Lov	w	1	1		2-Med	ium			3	-High			
					(	Cour	·se C	lont	ent						
Fyner	iment N	Jo 1	Surv	evofa						averse)	& Plotti	nσ			
Experiment No.1 Experiment No.2			Survey of an area by chain survey (closed traverse) & Plotting Chaining across obstacles by chain and cross-staff survey												
Experiment No.3			Determination of distance between two inaccessible points with												
			compass.												
					nt of	bearing	gs of s	sides o	of a cl	osed tra	averse w	vith pris	matic		
Experiment No.4				Measurement of bearings of sides of a closed traverse with prismatic compass and computation of correct included angle using Bowditch's											
			rule												
<b>Experiment No.5</b>			Radiation method by plane Table survey											C01	
Experiment No.6														CO2	
			intersection method												
Experiment No.7													CO4		
		technique and booking with arithmetical check using H.I. method													
Experiment No.8		No.8	Finding elevation difference of given points using differential levelling												
		technique using Rise and Fall method.													
Experiment No.9			To conduct longitudinal and cross section levelling for road profile.Contouring of a given field and preparing map												
	riment										1 1 4				
Expe	riment	NO.11								ing theo		4. 1			
Experiment No.12			Determination of heights and distances between two objects by using theodolite												
					Lea	arni	ng R	lesou	irces	5					
Text H	Books		1. B.	C. Pu							ing I a	ind II,	16/e,	Laxm	
				blicati											
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			2. R	. Sub	raman	ian, S	Survey	ving a	and L	evelling	g, 2/e,	Oxfore	d Univ	versity	

Reference	<ol> <li>S.K. Roy, Fundamentals of Surveying, 2/e, Prentice Hall of India, 2011.</li> <li>T.P. Kanetkar, Surveying and Levelling, Part I and II, 4/e, New Central Book</li></ol>
Books	Agency2012.
e-Resources& other digital material	<ul> <li>3. <u>https://nptel.ac.in/courses/105/101/105101201/</u></li> <li>4. <u>http://jntuk-coeerd.in/</u></li> </ul>