Name of the Faculty	:	Manju Bala
Discipline	:	Civil Eneneering
Semester	:	4th
Subject	:	Surveying-2
Lecture/Practical per v	3/6	

WEEK THEORY PRACTICAL Pract LECT URE ical TOPIC TOPIC DAY dav concept and purpose of contours, Preparing a contour plan by radial line 1 contour interval and horizontal method by use a tangent Clinometer 1 equivalent. 1st 2 factor affecting coutours, direct & indirect method of Preparing a contour plan by radial line 3 2 contouring, use of stadia method by use a tangent Clinometer measurement Preparing a contour plan by method of 1 Interpolation of contours, use of marking alignment of a road or 1 squares. 2 2nd railway marking alignment of a canal on Preparing a contour plan by method of 2 3 acontour map. squares. computation of earth work and 1 Preparing a contour plan of a road/railway 1 2 working and axes of theodolite with 3rd temporary adjustment & concept of Preparing a contour plan of a road/railway 2 3 transiting theodolite, track/canal by taking cross section. swinging, left, right and changing study of a transit vernier theodolite; face, measurement of horizontal & 1 temporary adjustment of theodolite. 1 vertical angles prolonging of a line, measurement of 4th 2 a bearing of a line traversing by included and deflection study of a transit vernier theodolite; angle method, travesing by stadia 3 2 temporary adjustment of theodolite. measurement. Sessional test-1 and Revision and discussion upto first sessional syllabus 1 2 5th 3 theodolite triangulation, plotting a reading the vernier and working out the least 1 traverse, concept of coordinate. count, measurement of horizontal angle by 1 repetition and reiteration method 2 Omitted measurement, assignment 6th error in theodolite survey & reading the vernier and working out the least precaution taken to minimize them, 2 count, measurement of horizontal angle by 3 repetition and reiteration method

	1	limits of precision in theodolite		measurement of vertical angle and use of		
		traversing.	1	tachnometer		
7th	γ	Height of object: accessible and nin	1			
	2	accessible bases				
	3	Test	2	measurement of vertical angle and use of		
	1	Tachometry, instrument used and		measurement of magnetic bearing of a line.		
8th		method of techometry	1			
		stadia system in techometry and its	1			
	² principle					
	3 examples of numerical pr	examples of stadia tachometry and		measurement of magnetic bearing of a line.		
		numerical problems	2			
9th	1	Need, definition and element of a		running a closed traverse with a theodolite		
	0	degree,radius,tangent length,apex	1	and its plotting.		
	2	piont,tangent point,length of curve				
	-	long chord, apexdistance, mid ordinate.	•	running a closed traverse with a theodolite		
	3		2	and its plotting.		
	1	Sessional test-2 and Revision and discussion upto second sessional syllabus				
10th	2					
	3	-				
11th	1	setting out of simple circular curve		Height of objects with and without		
	1		1	accessible bases.		
	2	a)-by linear measurement only				
	3	b)-by tangential angle using a	2	Height of objects with and without		
	5	theodolite		accessible bases.		
		Need, definition and requirement of		Setting out of a simple circular curve with		
	1 transition curve		given data by following method:- a) Offsets			
		1	from the chords produced b) by theodolite			
	Length of transition curve for roads-			method.		
12th	2	bycubic parabola				
		calculation of offsets for a transition		Setting out of a simple circuiar curve with		
		curve	2	given data by following method:- a) Offsets		
	3			from the chords produced b) by theodolite		
				method.		
13th		setting out of a transition curve by		Demonstration and use of minor instrument		
	1	¹ tangential offsets only.	1	which are in syllabus.		
	~	Setting out vertical curve.		, ř		
	2	Introduction of EDM				
	Planimeter, Total	Planimeter, Total station, remote	2	Demonstration and use of minor instrument		
	3	sensing and GPS	2	which are in syllabus.		
14th	Introduction and uses of Ceylon ghat tracer		demonstration of digital instruments and			
		1	total station.use of planimeter for computing			
			I	areas.		
	2	clinometer, pantagraph, abney level				
	use of planimeter for compu	use of planimeter for computing areas	~	demonstration of digital instruments and		
	3		2	total station.use of planimeter for computing		
	1	areas.				
15th	2	Sessional test-3 and Revision and discussion upto third sessional syllabus.				
1501	3	4				
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