

Course- Land Survey Practice-I

Course Code-C213

7P/Week

Semester-4th Semester

Session:	Periods	D24 (5) Unit/Chapter	Topics to be covered 1.0 Linear Measurements, Chaining and Chain Surveying:
Week		1	1.0 Linear Measurements, Channing and
14	3	1	
			1.1 Testing and adjusting of a metric chain.
	1		
			1.2 Measurement of distance between the lengths of sides with lengths apart) with chain including direct ranging. lengths apart) with chain including direct ranging.
			chain and tape.
			chain and tape. 1.4 Measurement of distance between two points by chaining across a 1.4 Measurement of distance between and a clinometer.
			1.4 Measurement of distance between two polinometer. sloped ground using stepping method and a clinometer.
		4-51	to toolog on the chain
			1.5 Measurement of distance by chaining across a obstacles of the line i) a pond ii) a building iii) a stream/ river (in the event of non-availability line i) a pond ii) a pond or lake may be taken, considering that chaining
	4	1&2	1.5 Measurement of distance of the event of horizontal line i) a pond ii) a building iii) a stream/ river (in the event of horizontal line i) a pond ii) a building iii) a stream/ river (on sidering that chaining of stream / river, a pond or lake may be taken, considering that chaining of stream / river, a pond or lake may be taken, considering that chaining of stream / river, a pond or lake may be taken, considering that chaining of stream / river, a pond or lake may be taken, considering that chaining of stream / river, a pond or lake may be taken, considering that chaining of stream / river, a pond or lake may be taken, considering that chaining of stream / river, a pond or lake may be taken, considering that chaining of stream / river, a pond or lake may be taken, considering that chaining of stream / river, a pond or lake may be taken, considering that chaining of stream / river, a pond or lake may be taken.
			line i) a pond il/a building il/y
			around the same is not possible. 1.6 Setting perpendicular offsets to various objects (at least 3) from a chair 1.6 Setting perpendicular offsets to various objects (at least 3) from a chair 1.6 Setting perpendicular offsets to various objects (at least 3) from a chair least 3 from a chair using tape.
			line light-(1) tabe. (2) cross starry
			accuracy of the 3 methods
			accuracy of the 3 methods 1.7 Setting oblique offsets to objects (at least 3) from a chain using tape.
			o wing'
			2.0 Angular Measurement and Compass Surveying. 2.1 Testing and adjustment of Prismatic compass and Surveyor's compass
			2.1 Testing and adjustment of the same adjustment of t
	7		2.2 Measurement of bearings of lines (at least 3 lines) and determination of the vising Prismatic compass and Surveyor's compass.
2 nd	3	2	2.2 Measurement of bearings of lines (at least 3 lines) compass. included angles using Prismatic compass and Surveyor's compass.
			morado angi-
			2.3 Setting out triangles (at least 2) with compass, given the length and
		2	2.3 Setting out triangles (at least 2) with compass, great
	4	2	bearing out triangles (attended angles. bearing of one side and included angles. 2.4 Setting out a closed traverse of 5 sides, using prismatic compass, given 2.4 Setting out a closed traverse of 5 sides, using prismatic compass, given
			2.4 Setting out a closed traverse of 5 stades, terms placed bearing of one line and included angles and lengths of sides.
		ny 1014 dia	bearing of one line and included angles and longuis of one
			2.5 Conducting chain and compass traverse surveying in a given plot of
grd	3	2	2.5 Conducting chain and compass traverse surveying in a given piece area (2plots) and recording data in the field book. (5 to 6 students/groups)
	١		
			3.0 Map Reading Cadastral Maps & Nomenclature:
	4	3	2 1 Study of direction, Scale, Glid Reference and Site Square
			a county of Signs and Symbols
	1		3.2 Study of Signs and Cymbers 3.3 Cadastral Map Preparation Methodology
			3.4 Unique identification number of parcel
	3	3	3.4 Unique identification name of the state
-			3.6 Adjacent Boundaries and Features, Topology Steam
			4.0 Plane Table Surveying:
	4	4	I de Cating up of Plane Table and Flotting it of Points
	- 1		and five inaccessible points by intersection method.

			the covering in a given plot of all the
			4.2 Conducting Plane Table surveying in a given plot of area by traversing (Atle a 5-sided traverse and locating the objects) a 5-sided traverse and locating the objects) The stable surveying by Resection method (two point)
th	3	4	4.2 Conducting Plane Table surveying a 5-sided traverse and locating the objects) 4.3 Plane table surveying by Resection method (two point)
	3		a 5-sided travelses surveying by Resection
	-	4	4.3 Plane lable surviv
	4	1	4.3 (three point problem method)
	-	4	4.3 (three point problem may
th	3	4	
	1		ingle and reiteration and reiteration
			5.0 Theodolite Traversing: 5.1 Measurement of horizontal angles (3nos.) by repetition and reiteration 5.1 Measurement of horizontal angles (3nos.) by repetition and reiteration 5.1 Measurement of horizontal angles (3nos.) by repetition and reiteration 5.1 Measurement of horizontal angles (3nos.) by repetition and reiteration 5.1 Measurement of horizontal angles (3nos.) by repetition and reiteration 5.1 Measurement of horizontal angles (3nos.) by repetition and reiteration 5.1 Measurement of horizontal angles (3nos.) by repetition and reiteration 5.1 Measurement of horizontal angles (3nos.) by repetition and reiteration 5.1 Measurement of horizontal angles (3nos.) by repetition and reiteration 5.1 Measurement of horizontal angles (3nos.) by repetition and reiteration 5.1 Measurement of horizontal angles (3nos.) by repetition and reiteration 5.1 Measurement of horizontal angles (3nos.) by repetition and reiteration 5.1 Measurement of horizontal angles (3nos.) by repetition and reiteration 6.1 Measurement of horizontal angles (3nos.) by repetition and reiteration 6.1 Measurement of horizontal angles (3nos.) by repetition and reiteration 6.1 Measurement of horizontal angles (3nos.) by repetition and reiteration 6.1 Measurement of horizontal angles (3nos.) by repetition and reiteration 6.1 Measurement of horizontal angles (3nos.) by repetition and reiteration 6.1 Measurement of horizontal angles (3nos.) by repetition and reiteration 6.1 Measurement of horizontal angles (3nos.) by repetition and reiteration 6.1 Measurement of horizontal angles (3nos.) by repetition and reiteration 6.1 Measurement of horizontal angles (3nos.) by repetition and reiteration 6.1 Measurement of horizontal angles (3nos.) by repetition and reiteration 6.1 Measurement of horizontal angles (3nos.) by repetition and reiteration 6.1 Measurement of horizontal angles (3nos.) by repetition and reiteration 6.1 Measurement of horizontal angles (3nos.) by repetition and reiteration and reiteration and reiteration and reiteration and reiteration and r
	4	5	5.1 Measurement of horizontal angles
			method and compare two methods with the help of a theodolite
	1		5.1 Measurement of Horizontal States and States and States and Compare two methods method and compare two methods states are straight line with the help of a theodolite straight lines
	1		5.2 Prolonging a given straight lines 5.3 Determination of magnetic bearing of 3 given straight lines 5.4 Determination of magnetic bearing of 3 given straight lines 5.4 Determination of magnetic bearing of 3 given straight lines
			5 3 Determination of magnetic bearing of 3 greatering the field data
7 th	3	5	5.3 Determination of magnetic bearing of 3 given straight into Setting out a closed traverse with 6 sides and entering the field data 5.4 Plotting the traverse from exercise 4.1 and checking the error of closures 5.5 Setting out an open traverse with 5 sides and entering the field data
12	1		5 4 Plotting the traverse from exercise 4.1 and chesting the field data
			Setting out a closed traverse with 5.4 Plotting the traverse from exercise 4.1 and checking the error of closure. 5.5 Setting out an open traverse with 5 sides and entering the field data 5.5 Setting out an open traverse with 5 sides and checking the error of closure.
	4	5&6	5.4 Plotting the traverse from exercise with 5 sides and entering the field of 5.5 Setting out an open traverse with 5 sides and checking the error of closuring the traverse from exercise 4.3 and checking the error of closuring;
			6.0 Leveling and Contouring:
	1		6.0 Leveling and Contouring 6.1 Making temporary adjustments of Levels
			6.1 Making temporary days
			6.2 Determining Reduced Levels of five given points taking staff readings
8 th	3	6	0.2 Determining reduces a
	1		with Levels. 6.3 Determining the difference of levels between two points (3 pairs of feedings form single set up of level, recordings).
1		1	6.3 Determining the difference of levels between two points (o paints) 6.3 Determining the difference of levels between two points (o paints) 6.3 Determining the difference of levels between two points (o paints) 6.3 Determining the difference of levels between two points (o paints) 6.3 Determining the difference of levels between two points (o paints) 6.3 Determining the difference of levels between two points (o paints) 6.3 Determining the difference of levels between two points (o paints) 6.3 Determining the difference of levels between two points (o paints) 6.3 Determining the difference of levels between two points (o paints) 6.3 Determining the difference of levels between two points (o paints) 6.3 Determining the difference of levels between two points (o paints) 6.3 Determining the difference of levels between two points (o paints) 6.3 Determining the difference of levels between two points (o paints) 6.3 Determining the difference of levels between two points (o paints) 6.3 Determining the difference of levels between two points (o paints) 6.3 Determining the difference of levels between two points (o paints) 6.3 Determining the difference of levels between two points (o paints) 6.3 Determining the difference of levels between two points (o paints) 6.3 Determining the difference of levels between two points (o paints) 6.3 Determining the difference of levels between two points (o paints) 6.3 Determining the difference of levels between two points (o paints) 6.3 Determining the difference of levels between two points (o paints) 6.3 Determining the difference of levels between two points (o paints) 6.3 Determining the difference of levels between two points (o paints) 6.3 Determining the difference of levels between two points (o paints) 6.3 Determining the difference of levels (o paints) 6.3 Determi
			points / group) by taking staff readings form single set up of the points / group) by taking staff readings form single set up of the points / group) by taking staff readings form single set up of the points / group by taking staff readings form single set up of the points / group by taking staff readings form single set up of the points / group by taking staff readings form single set up of the points / group by taking staff readings form single set up of the points / group by taking staff readings form single set up of the points / group by taking staff readings form single set up of the points / group by taking staff readings form single set up of the points / group is t
1	1		change points must be covered)
1			Change points mast 25
1		1	ii de de inde voith
1	-		6.4 Conduct Fly Leveling (Compound) between two distant points with
	4	6	6.4 Conduct Fly Leveling (Compound) between two distance by both height of respect to R.L. of a given B.M. and reduction of levels by both height of
			collimation and rise & fall method and applying Antimotic streets
	1		
1			6.5 Conduct profile leveling along the great alignment as 3m apart on both 150m length, taking L. S. at every 15m and C. S. at 1m & 3m apart on both
1			sides at every 30m interval and recording the data in level book and
1			applying arithmetical check. 6.6 Locating contour points in the given area by direct method / indirect
1			
			method
1			and the block lovel survey in the given area
9 th	3	6	6.7 Conducting block level survey in the given area 6.8 Plotting and drawing contour map of a given area by radial method
	1		6.8 Plotting and drawing contour map of a given area by radial metros 6.9 Map Interpretation: Interpret Human and Economic Activities (i.e.:
	4	6&7	1 O lond lice etc.) Interpret Physical Idilulyin
1	7		(i.e.: Relief, Drainage Pattern etc.), Problem Solving and Decision Making
1			
	1		(4) — the of April Photography:
			7.0 Basics of Aerial Photography:
			7.1 Film
			7.0 Feed Length
10 th	3	7	7.2. Focal Length
			7.3. Scale 7.4. Types of Aerial Photographs (Oblique, Straight) (6)
	4	7&8	7.4. Types of Aerial Photographs (Oblique, Ottalgray) (9) 8.0 Basics of Photogrammetry, DEM and Ortho Image generation:
			Photogrammetry:
			8.1 Classification of Photogrammetry
			8.1 Classification of Protegrammetry
11th	3	8	O.A Morial Transport

4	7&8	7.4. Types of Aerial Photographs (Oblique, Straight) (6) 8.0 Basics of Photogrammetry, DEM and Ortho Image generation:
1 1		Photogrammetry: 8.1 Classification of Photogrammetry
3	8	8.2 Aerial Photogrammetry
4	8	8.3 Terrestrial Photogrammetry
3	8	Photogrammetry Process: 8.4 Acquisition of Imagery using aerial and satellite platform
4	8	8.5 Control Survey
3	8	8.6 Geometric Distortion in Imagery
4	8	8.7 Application of Imagery and its support data
3	8	8.8 Orientation and Triangulation
4	8	8.9 Stereoscopic Measurement: X-parallax and Y-parallax
3	8	8.10 DTM/DEM Generation
4	8	8.11 Ortho Image Generation

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