LESSON PLAN FOR SUMMER SESSION (2022-23)

cipline: Civil Engineering			Semester-4th Name of Teaching Faculty: Subrat Kumar Panigrahi		hing Faculty: Subrat Kumar Panigram	
iect: Land Surveying Practice-I			No. of days per week class alloted: 7P/W		Semester From date: 14.02.2023 To date: 23.05.2023 No. of weeks: 14 Total Perios-98 P	
			+			
VEEK	PERIODS	UNITS	TOPICS			
Feb 3rd	4	1	Testing and adjusting of a metric chain Measurement of distance between two points (more than 2 chain lengths apart) with chain including direct ranging			
Week	3	1	Satting out differen	s given the lengths of sides with chain and tape.		
	4	1	Setting out different types of triangles, given the lengths of sides with chain and tape. Setting out different types of triangles, given the lengths of sides with chain and tape.			
eb 4th Week		<u>'</u>	Measurement of distance by chaining across a obstacles of the chain the chaining around the same the event of non-availability of stream / river, a pond or lake may be taken, considering that chaining around the same			
Mar 1st Week	4	1	is not possible. Setting perpendicular offsets to various objects (at least 3) from a chain line using-(1) tape, (2) cross-staff, (3) optical square and comparing the accuracy of the 3 methods			
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	3	2	Setting oblique offsets to objects (at least 3) from a chain using tape			
Mar. 2nd Week Mar. 3rd	4	2	Testing and adjustment of Prismatic compass and Surveyor's compass. Measurement of bearings of lines (at least 3 lines) and determination of included angles using Prismatic compass and			
	3	2				
	-	-	the and heaving of one side and included arigids.			
	3	2	Setting out a closed traverse of 5 sides, using prismatic compass, given as a			
Week			Conducting chain	and compass trav	verse surveying in a given plot of area (2plots) and recording data in the field book.	
Mar	4	2	(5 to 6 students/groups) Setting up of Plane Table and Plotting five points by radiation method and five inaccessible points by intersection			
4th Week	3	3	Setting up of Plane Table and Plotting five points by ratifaction method. Conducting Plane Table surveying in a given plot of area by traversing (Atleast a 5-sided traverse and locating the			
Apr. ls	st 4	4	objects			
Week	3	4	Plane table surveying by Resection method (two point &three point problem method)			
Apr.	-	5	Measurement of horizontal angles (3nos.) by repetition and reiteration method and compare two methods Measurement of horizontal angles (3nos.) by repetition and reiteration method and compare two methods			
2nd	3	5	Measurement of horizontal angles (3nos.) by repetition and reverse			
Apr		5	Determination of magnetic bearing of 3 given straight lines			
3rd	-	5	Plotting the trav	erse from exercise	4.3 and checking the error of closure	
Agr		6	Making tempora	ry adjustments of	Levels	
Apr 4th	-	6	Making temporary adjustments of five given points taking staff readings with Levels. Determining Reduced Levels of five given points taking staff readings with Levels. Determining the difference of levels between two points (3 pairs of points / group) by taking staff readings form single set up of level, recording the readings in level book and application of Arithmetic check. (At least 3 change points in level book and application of Arithmetic check.)			
Ap 5tl	4 6		set up of level, r	ecording the read	lings in level block and approximately account to R.L. of a given R.M. and reduction of	
	n	6	be covered) Conduct Fly Leveling (Compound) between two distant points with respect to R.L. of a given B.M. and reduction of levels by both height of collimation and rise & fall method and applying Arithmetic check. (At least 3 change points must be covered) Conduct profile leveling along the given alignment for a road / canal for 150m length, taking L.S. at every 15m and C. Conduct profile leveling health sides at every 30m interval and recording the data in level book and applying arithmetic.			
	May 6 S. at 1m & 3m apart on both sides at CVC 1				h direct method / indirect method	
We		6	check. Locating contour points in the given area by direct method / indirect method Basics of Aerial Photography: Film, Focal Length, Scale, Types of arial photograph Basics of Aerial Photography Film, Focal Length, Scale, Types of arial photograph			
-	-	7	Basics of Aerial	Photography rin	III, 1000 ce 3	
Ma	Annual States	7	Map reading Ca	adastral Maps & N	Iomenciature f Photogrammetry,Aerial Photogrammetry,Terrestrial Photogrammetry	
May	10	8	Photogrammet	ry,Classification o	I Thought	
d w	,	8	Photogrammet	ry Process:		

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