

Lesson Plan

Subject LAND SURVEY PRACTICE (Code) PR-1 Name of faculty SANANISHGH DEHERA  
 Semester 4TH Class allotted 105 Branch CIVIL ENGINE

Discipline	Semester	From date:	To date:	Teaching Aid
Subject:	No. of days/ per week	Theory/ Practical - Topics/Lesson		
Week	Date/Period			
1	14.02.23	Ch-1 - Linear measurements, chaining by chain & tape		white board
	to	1.1 - Testing and adjusting of a metric chain		& marker
	12.02.23	1.2 - measurement of dist <sup>n</sup> bet <sup>n</sup> two points		Apparatus
	(07 P/W)	1.3 - Setting out different types triangles		
		1.4 - measurement of dist <sup>n</sup> bet <sup>n</sup> two points by chaining		
		across a sloped ground.		
		1.5 measurement of dist <sup>n</sup> by chaining across a		
2	20.02.23	Ch-2 Angular measurement and compass surveying		
	to	2.1 - Testing and adjustment of prismatic compass and surveyor compass		
	25.02.23	2.2 - measurement of bearings of lines		white board
	(07 P/W)	and determination of included angle		marker
		using prismatic compass & surveyor compass		APPARATUS
		2.3 - Setting out triangle		
		2.4 - setting out a closed traverse		
03	27.02.23	2.5 - conducting chain and compass traverses		(white board
	to	surveying in a given plot of Area		& marker)
	04.03.23	Ch-3 map Reading cadastral maps &		APPARATUS
	(07 P/W)	Nomenclature		
		3.1 - Study of direction, scale, grid reference		
		and grid square		
		3.2 - Study of sign & symbols		
04	06.03.23	3.4 - Unique identification number		white board
	to	of parcel		& marker
	11.03.23	3.5 - position of existing control points		Apparatus
	(07 P/W)	and it types		
		3.6 - Adjacent boundaries and features		

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Sananishgh Dehera  
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Week	Date/Period	Theory/ Practical - Topics/Lesson	Teaching Aid
		ch-4 - plane Table Surveying	
		4.1 - setting up of plane table and plotting five point by radiation method and fix inaccessible point by intersection method	
05	13.03.23 to 18.03.23 (07 Plw)	4.2 - <del>80</del> conducting plane table surveying on a given plot of area by traversing 4.3 - plane table surveying by resection method	white board & marker Apparatus
06	20.03.23 to 25.03.23 (07 Plw)	4.3 - plane table surveying by resection method ch-5 - Theodolite Traversing 5.1 - measurement of horizontal angles by repetition and iteration method	white board & marker Apparatus
07	27.03.23 to 31.03.23 (07 Plw)	and compare two methods 5.2 - Prolonging a given straight line with the help of a theodolite 5.2 - Determination of magnetic bearing of 2 given straight lines	white board & marker Apparatus
08	02.04.23 to 08.04.23 (07 Plw)	5.3 - Determination of magnetic bearing of 3 given straight lines 5.4 - plotting the traverse from exercise 4.3 and checking the error of closure 5.5 - setting out an open traverse with 5 sides and entering the field data 5.6 - plotting the traverse from exercise 4.3 and checking the error of closure	white board & marker Apparatus
		ch-6 - Leveling and contouring	
		6.1 - making temporary adjustments on levels. 6.2 - Determining reduced level five given points taking stabs with level.	
		6.3 - Determine the difference of level bet <sup>n</sup> two points	
		6.4 - Conduct fly leveling bet <sup>n</sup> two distant points with respect to R.L of a given b.m	
		6.5 - conduct profile leveling along	



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Semester VI Class allotted 105 Branch CIVIL ENGINE

Discipline	Semester	From date:	To date:	Teaching Aid
Subject	No. of days/ per week	Theory/ Practical - Topics/Lesson		
Week	Date/Period			
		6.5 - <u>Given alignment from a Road</u>		
09	10.04.23	6.6 - locating contour points on the given area by direct method / indirect method		white board
	To			& marker
	15.04.23	6.7 - conducting block level survey on the		Apparatus
	(07 P/w)	6.8 - plotting and drawing contour map of a given area by radial method.		
		6.9 - map interpretation		
		Ch-7 - Basics of Aerial photography		
		7.1 - Focal length		
		7.2 - focal length		
10	17.04.23	7.2 - Focal length		white board
	To	7.3 - Scale		& marker
	21.04.23	7.4 - Types of Aerial photographs		Apparatus
	(07 P/w)			
11	24.04.23	Ch-8 Basics of photogrammetry, Denominatio		white board
	To	image generation		& marker
	29.04.23	8.1 - classification of photogrammetry		Apparatus
	(07 P/w)	8.2 - Aerial photogrammetry		
		8.3 - Terrestrial photogrammetry		
12	01.05.23	8.4 - Acquisition of imagery using		white board
	To	Aerial and satellite platform		& marker
	06.05.23	8.5 - Control survey		Apparatus
	(07 P/w)			
13	08.05.23	8.6 - Geometric Distortion in		white board
	To	imagery		& marker
	13.05.23	8.7 - Application of imagery and its		Apparatus
	(07 P/w)	support data		

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