

## Lesson Plan

Subject Surveying-I (Code) TH-3 Name of faculty Bandana Behera

Semester 4th Class allotted 5P/Week Branch Civil Engg.

Discipline	Semester	From date:	To date:	Teaching Aid
Subject:	No. of days/ per week	Theory/ Practical - Topics/Lesson		
Week	Date/Period			
1		CH-1		
	10/03/2022	Introduction to surveying,		
	TO	Linear measurements I - Surveying		
	12/03/2022	Definition, Aims and objectives		
2	12/03/2022	Principles of survey - Plane surveying		
	TO	Instrumental Surveying Types of tapes chain.		
	14/03/2022	Errors and mistakes in linear		
	TO	Measurement class. Definition, sources		
3	19/03/2022	of errors and remedies.		
	TO	Corrections to measured lengths		
	19/03/2022	due to incorrect length, temperature.		
	3 Periods	CH-2 Chaining and chain Surveying I -		
4	21/03/2022	Equipment and accessories for chaining		
	TO	Ranging - Purpose, direct and indirect		
	26/03/2022	ranging. Methods of chaining, Purpose		
	5 Periods	of chain surveying, offsets, Errors of Survey.		
5	28/03/2022	CH-3 Angular Measurement and		
	TO	Compass Surveying I - Measurement of		
	02/04/2022	angles with chain, tapes & Compass I -		
	4 Periods	Types, Features, Parts, adjustment of		
6	04/04/2022	Compass. Bearing of whole circle,		
	TO	Quadrantal, Reduced bearing. Use		
	09/04/2022	of compasses - FB/RB Effects of Curvature		
	5 Periods	Magnetism, Errors in angle measurement		
7	11/04/2022	with compass, Principles of traversing,		
	TO	Methods of traversing, Local attraction.		
	16/04/2022	CH-4 Map Reading Cadastral maps &		
	4 Periods	Nomenclature - Study of direction Scale		
8	18/04/2022	Cadastral Map Preparation Methodology.		
	TO	Adjustment boundaries and Features,		
	23/04/2022	Topology Creation and Verification.		
	6 Periods	CH-5 Plane Table Surveying I - Principles		
9	18/04/2022	of plane table surveying. Method		
	TO	of plane table surveying. (1) Radiation		
	23/04/2022	(2) Intersection (3) Traversing (4) Resec-		
	6 Periods	tion, statements of Two point Problems		

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Week	Date/Period	Theory/ Practical - Topics/Lesson	Teaching Aid
8	25/04/2022	Ch-6 Theodolite surveying and Traversing! - Purpose and definition	
	TO	of theodolite surveying, Transit	
	30/04/2022	theodolite - Concept and reading a vernier, Temporary.	
9	05 Periods	Adjustment of theodolite. Measure	
	02/05/2022	ment of magnetic bearings, deflection angle, Errors in	
	TO	Theodolite observations, Methods	
10	07/05/2022	of theodolite traversing. Plotting.	
	05 Periods	Traverse plotting, By coordinate	
	09/05/2022	method, Traverse computation -	
	TO	Latitude and departure, Gale's	
11	14/05/2022	traverse table, closing error adjust	
	05 periods	ment of angular errors bearings.	
	17/05/2022	Balancing of traverse - Bowditch's method.	
12	TO	Ch-7 Levelling and Contouring! -	
	21/05/2022	definition and purpose and types	
	05 Periods	of levelling, Instruments used for	
13	23/05/2022	levelling, Concepts of line of collimation.	
	TO	Axes of bubble tube, axes of telescope,	
	28/05/2022	Levelling staff! - Temporary adjustment	
14	06 Periods	of level, reading concept of bench	
	30/05/2022	mark, BS, IS, FS, CP, HI. Field	
	TO	data entry! - Effects of curvature,	
15	04/06/2022	Reciprocal levelling, Errors in	
	05 Periods	levelling, Permanent adjustment.	
	06/06/2022	Definitions of contours, method	
16	10/06/2022	of contouring, Use of contour	
	TO	maps on civil Engg. Projects drawing.	
	14/06/2022	Contour Maps, Location of roads,	
17	TO	roadway, Map Interpretation.	
	18/06/2022	Ch-8 Computation of Area & Volume	
	06 Periods	Determination of area by using	
18	TO	ordinate rule, Trapezoidal	
	21/06/2022	rule, Simpson's rule, Calculation	
	TO	of Volumes by Prismatical formula	
19	TO	and trapezoidal formula, Prismatical	
	TO	connections, Curvature correction	
	TO	for volumes.	

  
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