

Lesson Plan

Subject Land Surveying - II (Code) Th.1 Name of faculty Tina George
 Semester 6th Class allotted 75 periods Branch Civil Engg.

Discipline	Semester	From date: <u>14.02.23</u> To date: <u>23.05.2023</u>	Teaching Aid
Subject:	No. of days/ per week <u>05 P/W</u>	Theory/ Practical - Topics/Lesson	
Sl. No.	Date/Period		
1	14.02.2023	CH-1:- <u>Tacheometry</u> :- 1.1 Principle, <u>Stadia Constant</u> determination.	White board & Marker
	to	1.2. <u>Stadia Tacheometry</u> with staff held vertical & with line of collimation horizontal/inclined.	
	17.02.2023 (03 Period/W)		
2	20.02.23	1.2. <u>Stadia Tacheometry</u> numerical problems.	White board &
	to	1.3. <u>Elevation & distance of Staff station</u> with numerical.	Marker
	25.02.23 (05 P/W)		
3	27.02.23	CH:2:- <u>Curves</u> :- 2.1. <u>Use of different type of Curve</u> , purpose of Curve, <u>Reverse, Compound</u> & <u>transition Curve</u> .	White board & Marker
	to	2.2. <u>Elements of circular Curve</u> & <u>Problem</u>	
	04.03.23 (05 P/W)	2.3. <u>Preparation of Curve Table</u> . 2.4. <u>Setting out of circular curve</u> by chain & tape & by instrument	White board & Marker
4	11.03.2023 (04 P/W)	2.5. <u>Obstacles in curve ranging</u> .	
	13.03.23	CH:3:- <u>Basics on Scale & MAP</u> :-	White board &
	to	3.1. <u>Types of Scale</u> . 3.2. <u>What is map, map scale & projection</u> 3.3.1 <u>Classification of MAP</u> .	Marker
5	18.03.23 (05 P/W)	3.3. <u>How map convey Location & Extent</u> .	White board &
	20.03.23	3.4. <u>How map convey characteristics of features</u> .	Marker
	to	CH:4:- <u>Survey of India MAP Series</u> .	
6	25.03.23 (05 P/W)	CH:4:- 4.1. <u>Open & closed Series Map</u> .	White board &
	27.03.23	4.3. <u>MAP Nomenclature</u> .	Marker
	to		
7	31.03.23 (03 P/W)		


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Week	Date/Period	Theory/ Practical - Topics/Lesson	Teaching Aid
8	03.04.23 to 08.04.23 (05 P/W)	CH.5:- <u>Basic of Aerial</u> Photography, photogrammetry, DEM & Ortho Image Generation: 5.1.1 Film, Focal Length, Scale 5.1.2. Types of Aerial photography.	White board & Marker
	10.04.23 to 15.04.23 (05 P/W)	→ Photogrammetry → process of photogrammetry → DTM / DEM Generation. → Ortho image Generation.	White board & Marker
10	17.04.23 to 21.04.23 (04 P/W)	CH.6:- <u>Modern Surveying Method</u> 6.1. Principle; Feature & use of (i) Micro-optic theodolite & Digital -	White board & Marker
	24.04.23 to 29.04.23 (05 P/W)	6.2. Working principle of Total Station. CH.7:- <u>Basic on GPS & DGPS &</u> <u>ETS:-</u> 7.1. GPS:-	White board & Marker
12	01.05.23 to 06.05.23 (05 P/W)	7.1. Working principle of GPS: GPS Signals. 7.2. Error of GPS, Positioning Method	White board & Marker
	08.05.23 to 13.05.23 (05 P/W)	7.3. ETS (Electronic Total Station):- Distance & Angle measurement, → Levelling, → Reference N/W. → Error & Accuracy.	White board & Marker
14	15.05.23 to 20.05.23 (05 P/W)	CH.8:- <u>Basics of GIS & MAP</u> <u>preparation using GIS:-</u> → Components of GIS → Editing the layers.	White board & Marker
	22.05.23 to 23.05.23 (02 P/W)	→ Change page orientation → Removing Expend → Finalize the map.	White board & Marker


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