

Lesson Plan

Subject Land Survey - II (Code) Th.1 Name of faculty Tina Guru
 Semester 6th Class allotted 5P/Week Branch Civil Engg.

Discipline	Semester	From date: 10.03.22 To date: 10.06.22	Teaching Aid
Subject:	No. of days/ per week <u>05 days</u>	Theory/ Practical - Topics/Lesson	
Week	Date/Period		
1	10.03.2022 to 12.03.2022 (03 Period)	Ch-1: Tacheometry: principles, stadia constant determination, 1.2. Stadia tacheometry with staff held vertical and with line of collimation horizontal or inclined	
	14.03.2022 to 19.03.2022 (05 period)	1.2. Stadia tacheometry numerical problem. 1.3. Elevations and distances of staff stations - numerical problems.	
3	21.03.2022 to 26.03.2022 (04 period)	Ch:2: Curves: - Compound, Reverse and transition curve Purpose & use of different type of curves in field, Elements of circular curves.	
	28.03.2022 to 02.04.2022 (05 period)	→ Numerical problems. 2.3. Preparation of curve table for setting out. 2.4. Setting out of circular curve by chain and tape and by ^{method} intersection	
5	04.04.2022 to 09.04.2022 (04 period)	(i) Offsets from long chord. (ii) Successive bisection of arc, (iii) Offsets from tangents. (iv) Offsets from long produced (v) Rankine's method of tangent angles.	
	11.04.2022 to 16.04.2022 (03 period)	2.5: Obstacles in curve ranging - point of intersection inaccessible Ch:3: - Basic on scale & Basic of Map:- → Fractional or Ratio Scale.	
7	19.04.2022 to 23.04.2022 (04 period)	→ Linear Scale, Graphical scale. → What's Map, Scale & Map Projection. → How maps convey location & Extent.	

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8	25.04.2022 to 30.04.2022 (05 period)	→ How maps convey characteristics of features. → How maps convey spatial Relationship, classification of Map. i) physical Map	
	02.05.2022 to 07.05.2022 (04 period)	ii) Topographic map, Road map, Political Map, Economic & Resources Map, Thematic Map, Climate Map. Ch-4:- Survey of INDIA MAP Series:- Open Series Map.	
10	09.05.2022 to 14.05.2022 (05 period)	→ Reference Series Map → Map Nomenclature, Quadrangle Name, Latitude, Longitude, UTM's, Contour Lines, Magnetic declination, Public Land Survey system, Field notes.	
	17.05.2022 to 21.05.2022 (04 period)	Ch-5:- Basic of Aerial photography:- Aerial photography: Film, Focal length, scale. Types of Aerial photographs. (oblique, straight). * photogrammetry:- Classification	
12	23.05.2022 to 28.05.2022 (04 period)	→ Aerial photogrammetry, Terrestrial photogrammetry, photogrammetry process - Control Survey, Acquisition of imagery using Aerial & satellite platform, Geometric Distortion in Images	
	31.05.2022 to 06.06.2022 (03 period)	Ch-6:- Modern Surveying Method:- Principles, features, uses, working principles of total station. Ch-7:- Basic on GPS & DGPS & ETS:- GPS:- Global positioning; working principle DGPS:- Differential Global Positioning System:- Base station Setup.	
14	06.06.2022 to 10.06.2022 (04 period)	→ Rover GPS setup, Download Post-process & Export GPS data. → ETS:- Electronic Total station.	
	31.05.2022 to 09.06.2022 (03 period)	Ch-8:- Basic of GIS & Map Preparation using GIS:- Component of GIS, Integration of spatial & Attribute Information Prepare data and adding to Arc Map.	


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