Lesson plan for 6th semester civil engg.

Discipline/Deptt: Civil Engineering   2024 (5)

Semester: 6th

No. of periods per week: 5

Subject (Practical): LAND SURVEY PRACTICE II

Total Periods: 75

Week	Periods	Unit/Chapter	Topics to be covered
1st	3	1.1	Determination of height of 3 objects whose bases are accessible
	2	1.2	Determination of stadia constants
2nd	3	1.3	Determination of horizontal distance an elevation with Staff vertical , by stadia method
	2	1.3	Determination of horizontal distance an elevation with Staff vertical , by stadia method
3rd	3	2.1	Setting out a simple circular curve by offsets from long chord
		2.2	Setting out a simple circular curve by offsets from the tangent
	2	2.3	Setting out a simple circular curve by offsets from chords produces
4th	3	2.4	Setting out a simple circular curve by Rankine's method of tangent angle (Deflection angles) Setting out a site the center line and foundation width of a building from the given plan
	2	2.5	Setting out the foundation line for a culvert
		2.6	Dividing an area into plots of given size
5th	3	3.1	STUDY OF MAP AND MAP SERIES: Physical Map
		3.2	Topographic Map
	2	3.3	Road Map
		3.4	Political Map
6th	3	3.5	Economic & Resources Map
		3.6	Thematic Map
	2	3.7	Climate Map
		3.8	Open Series map and Defense Series Map
7th	3	4.1	STUDY ON GPS & DGPS AND ETS: 4.1 GPS: - Global Positioning, GPS Signals, Errors of GPS,Positioning Methods
	2	4.2	4.2 DGPS: - Differential Global Positioning System 4.2.1 Base Station Setup 4.2.2 Rover GPS Set up

8th	3	4.2.3	Download, Post-Process and Export GPS data
	2	4.2.4	Sequence to download GPS data from flashcards
		4.2.5	Sequence to Post-Process GPS data
9th	3	4.2.6	Sequence to export post process GPS data
		4.2.7	Sequence to export GPS Time tags to file
	2	4.3	ETS: - Electronic Total Station
		4.3.1	Distance Measurement
10th	3	4.3.2	Angle Measurement
	2	4.3.3	Leveling
11th	3	4.3.4	Determining position
	2	4.3.5	Reference networks
		4.3.6	Errors and Accuracy
12th	3		STUDY OF GIS AND MAP PREPARATION USING GIS 5.1 Components of GIS, Integration of Spatial and Attribute Information
	2		5.2 Three Views of Information System 5.2.1 Database or Table View, Map View and Model View
13th	3		5.3 Spatial Data Model 5.4 Attribute Data Management and Metadata Concept
	2		5.5 Prepare data and adding to Arc Map.
14th	3		5.6 Organizing data as layers. 5.7 Editing the layers.
	2		5.8 Switching to Layout View. 5.9 Change page orientation.
15th	3		5.10 Removing Borders. 5.11 Adding and editing map information.
	2		5.12 Finalize the map

Deep Pan
13/1/2024