

Lesson Plan: Session 2022-23 (Summer)

(5 periods per week, total 75 periods in SEM)

DISCIPLINE: Civil Engineering	SEMESTER: 6 th Semester	NAME OF THE TEACHING FACULTY: P Sankar Rao PTGF (Civil Engg.)
SUBJECT: Land Survey Practice -2	NO. OF DAYS/PER WEEK CLASSES ALLOTTED: 5	SEMESTER FROM DATE: 14.02.2023 TO DATE: _____ NO. OF WEEKS: 15
Week	Class Day	Topics
1st	1. TRIGONOMETRICAL SURVEYING & TACHEOMETRY	
	1 ST	1.1 Determination of height of 3 objects whose bases are accessible
	2 ND	1.1 Determination of height of 3 objects whose bases are accessible
	3 RD	1.1 Determination of height of 3 objects whose bases are accessible
	4 TH	1.2 Determination of stadia constants
	5 th	1.2 Determination of stadia constants
2nd	1 st	1.2 Determination of stadia constants
	2 nd	1.3 Determination of horizontal distance an elevation with Staff vertical , by stadia method
	3 rd	1.3 Determination of horizontal distance an elevation with Staff vertical , by stadia method
	4 th	1.3 Determination of horizontal distance an elevation with Staff vertical , by stadia method
	5 th	1.3 Determination of horizontal distance an elevation with Staff vertical , by stadia method
	2. SETTING OUT CURVES AND SITE SURVEYING	
3rd	1 st	2.1 Setting out a simple circular curve by offsets from long chord
	2 nd	2.2 Setting out a simple circular curve by offsets from the tangent.
	3 rd	2.3 Setting out a simple circular curve by offsets from chords produces
	4 th	2.3 Setting out a simple circular curve by offsets from chords produces

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	5 th	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
4 th	1 st	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 nd	2.5 Setting out the foundation line for a culvert
	3 rd	2.5 Setting out the foundation line for a culvert
	4 th	2.6 Dividing an area into plots of given size
	5 th	2.6 Dividing an area into plots of given size
	3. STUDY OF MAP AND MAP SERIES	
5 th	1 st	3.1 Physical Map 3.2 Topographic Map
	2 nd	3.3 Road Map
	3 rd	3.4 Political Map
	4 th	3.5 Economic & Resources Map
	5 th	3.6 Thematic Map
6 th	1 st	3.6 Thematic Map
	2 nd	3.7 Climate Map
	3 rd	3.7 Climate Map
	4 th	3.8 Open Series map and Defense Series Map
	5 th	3.8 Open Series map and Defense Series Map
4. STUDY ON GPS & DGPS AND ETS		
7 th	1 st	4.1 GPS: - Global Positioning, GPS Signals, Errors of GPS, Positioning Methods

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	2 nd	4.1 GPS: - Global Positioning, GPS Signals, Errors of GPS, Positioning Methods
	3 rd	4.1 GPS: - Global Positioning, GPS Signals, Errors of GPS, Positioning Methods
	4 th	4.2 DGPS: - Differential Global Positioning System
	5 th	4.2 DGPS: - Differential Global Positioning System
8 th	1 st	4.2 DGPS: - Differential Global Positioning System
	2 nd	4.2 DGPS: - Differential Global Positioning System 4.2.1 Base Station Setup 4.2.2 Rover GPS Set up 4.2.3 Download, Post-Process and Export GPS data 4.2.4 Sequence to download GPS data from flashcards 4.2.5 Sequence to Post-Process GPS data 4.2.6 Sequence to export post process GPS data 4.2.7 Sequence to export GPS Time tags to file
	3 rd	4.2 DGPS: - Differential Global Positioning System 4.2.1 Base Station Setup 4.2.2 Rover GPS Set up 4.2.3 Download, Post-Process and Export GPS data 4.2.4 Sequence to download GPS data from flashcards 4.2.5 Sequence to Post-Process GPS data 4.2.6 Sequence to export post process GPS data 4.2.7 Sequence to export GPS Time tags to file
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9 th	1 st	4.2 DGPS: - Differential Global Positioning System 4.2.1 Base Station Setup 4.2.2 Rover GPS Set up 4.2.3 Download, Post-Process and Export GPS data 4.2.4 Sequence to download GPS data from flashcards 4.2.5 Sequence to Post-Process GPS data 4.2.6 Sequence to export post process GPS data 4.2.7 Sequence to export GPS Time tags to file
	2 nd	4.2 DGPS: - Differential Global Positioning System 4.2.1 Base Station Setup 4.2.2 Rover GPS Set up 4.2.3 Download, Post-Process and Export GPS data 4.2.4 Sequence to download GPS data from flashcards 4.2.5

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		Sequence to Post-Process GPS data 4.2.6 Sequence to export post process GPS data 4.2.7 Sequence to export GPS Time tags to file
	3 rd	4.3 ETS: - Electronic Total Station 4.3.1 Distance Measurement
	4 th	4.3 ETS: - Electronic Total Station 4.3.1 Distance Measurement
	5 th	4.3 ETS: - Electronic Total Station 4.3.1 Distance Measurement
10 th	1 st	4.3 ETS: - Electronic Total Station 4.3.2 Angle Measurement
	2 nd	4.3 ETS: - Electronic Total Station 4.3.2 Angle Measurement
	3 rd	4.3 ETS: - Electronic Total Station 4.3.3 Leveling
	4 th	4.3 ETS: - Electronic Total Station 4.3.3 Leveling
	5 th	4.3 ETS: - Electronic Total Station 4.3.3 Leveling
11 th	1 st	4.3 ETS: - Electronic Total Station 4.3.4 Determining position
	2 nd	4.3 ETS: - Electronic Total Station 4.3.4 Determining position
	3 rd	4.3 ETS: - Electronic Total Station 4.3.5 Reference networks
	4 th	4.3 ETS: - Electronic Total Station 4.3.6 Errors and Accuracy
	5 th	4.3 ETS: - Electronic Total Station 4.3.6 Errors and Accuracy
	5. STUDY OF GIS AND MAP PREPARATION USING GIS	
12 th	1 st	5.1 Components of GIS, Integration of Spatial and Attribute Information
	2 nd	5.1 Components of GIS, Integration of Spatial and Attribute Information
	3 rd	5.1 Components of GIS, Integration of Spatial and Attribute Information

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	4 th	5.2 Three Views of Information System 5.2.1 Database or Table View, Map View and Model View
	5 th	5.2 Three Views of Information System 5.2.1 Database or Table View, Map View and Model View
13 th	1 st	5.2 Three Views of Information System 5.2.1 Database or Table View, Map View and Model View
	2 nd	5.3 Spatial Data Model 5.4 Attribute Data Management and Metadata Concept
	3 rd	5.3 Spatial Data Model 5.4 Attribute Data Management and Metadata Concept
	4 th	5.3 Spatial Data Model 5.4 Attribute Data Management and Metadata Concept
	5 th	5.5 Prepare data and adding to Arc Map. 5.6 Organizing data as layers. 5.7 Editing the layers.
14 th	1 st	5.5 Prepare data and adding to Arc Map. 5.6 Organizing data as layers. 5.7 Editing the layers.
	2 nd	5.5 Prepare data and adding to Arc Map. 5.6 Organizing data as layers. 5.7 Editing the layers.
	3 rd	5.8 Switching to Layout View. 5.9 Change page orientation.
	4 th	5.8 Switching to Layout View. 5.9 Change page orientation.
	5 th	5.10 Removing Borders. 5.11 Adding and editing map information.
15 th	1 st	5.10 Removing Borders. 5.11 Adding and editing map information.
	2 nd	5.10 Removing Borders. 5.11 Adding and editing map information.
	3 rd	5.12 Finalize the map
	4 th	5.12 Finalize the map
	5 th	5.12 Finalize the map

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