

LESSON PLAN : PR-2. LAND SURVEY PRACTICE – II, SESSION -2023-2024(SUMMER 2023)BATCH-2020

2023(6th Semester)

Discipline: Civil Engineering	Semester: 6TH	Name of the Teaching Faculty: B. SIBA KUMAR DORA(PTGF)
Subject: PR-2-LAND SURVEY PRACTICE – II	No. of days/ per week class allotted: 5	Semester From Date : 14-02-2023 To Date: 21-05-2023
Week	Class Day	Theory/ Practical Topics
1ST	1 2 3 4 5	1.0 TRIGONOMETRICAL SURVEYING & TACHIMETRY: 1.1 Determination of height of 3 objects whose bases are accessible 1.1 Determination of height of 3 objects whose bases are accessible 1.1 Determination of height of 3 objects whose bases are accessible 1.2 Determination of stadia constants 1.2 Determination of stadia constants
2ND	1 2 3 4 5	1.2 Determination of stadia constants 1.3 Determination of horizontal distance an elevation with Staff vertical , by stadia method 1.3 Determination of horizontal distance an elevation with Staff vertical , by stadia method 1.3 Determination of horizontal distance an elevation with Staff vertical , by stadia method 1.3 Determination of horizontal distance an elevation with Staff vertical , by stadia method
3RD	1 2 3 4 5	2.0 SETTING OUT CURVES AND SITE SURVEYING: 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 2.1 Setting out a simple circular curve by offsets from long chord 2.2 Setting out a simple circular curve by offsets from the tangent 2.1 Setting out a simple circular curve by offsets from long chord 2.2 Setting out a simple circular curve by offsets from the tangent 2.3 Setting out a simple circular curve by offsets from chords produces 2.3 Setting out a simple circular curve by offsets from chords produces
4TH	1 2 3 4 5	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 2.4 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 2.5 Setting out the foundation line for a culvert 2.5 Setting out the foundation line for a culvert 2.6 Dividing an area into plots of given size
5TH	1 2 3 4 5	3. STUDY OF MAP AND MAP SERIES: 3.1 Physical Map 3.2 Topographic Map 3.3 Road Map 3.4 Political Map 3.5 Economic & Resources Map
6TH	1 2 3 4 5	3.5 Economic & Resources Map 3.6 Thematic Map 3.7 Climate Map 3.8 Open Series map and Defense Series Map 3.8 Open Series map and Defense Series Map
7TH	1 2 3 4 5	4. STUDY ON GPS & DGPS AND ETS: 4.1 GPS - Global Positioning, GPS Signals, Errors of GPS, Positioning Methods 4.1 GPS - Global Positioning, GPS Signals, Errors of GPS, Positioning Methods 4.1 GPS - Global Positioning, GPS Signals, Errors of GPS, Positioning Methods 4.2 DGPS: - Differential Global Positioning System 4.2 1 Base Station Setup 4.2 2 Rover GPS Set up
8TH	1 2 3 4 5	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 3 Download, Post-Process and Export GPS data 4.2 4 Sequence to download GPS data from flashcards 4.2 4 Sequence to download GPS data from flashcards 4.2 5 Sequence to Post-Process GPS data
9TH	1 2 3 4 5	4.2 5 Sequence to Post-Process GPS data 4.2 6 Sequence to export 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 4.2 7 Sequence to export GPS Time tags to file
10TH	1 2 3 4 5	4.3 ETS: - Electronic Total Station 4.3 1 Distance Measurement 4.3 1 Distance Measurement 4.3 2 Angle Measurement 4.3 2 Angle Measurement 4.3 3 Leveling
11TH	1 2 3 4 5	4.3 4 Determining position 4.3 5 Reference networks 4.3 5 Reference networks 4.3 6 Errors and Accuracy 4.3 6 Errors and Accuracy
12TH	1 2 3 4 5	5. STUDY OF GIS AND MAP PREPARATION USING GIS 5.1 Components of GIS, Integration of Spatial and Attribute Information 5.1 Components of GIS, Integration of Spatial and Attribute Information 5.2 Three Views of Information System 5.2 1 Database or Table View, Map View and Model View 5.2 Three Views of Information System 5.2 1 Database or Table View, Map View and Model View 5.3 Spatial Data Model
13TH	1 2 3 4 5	5.4 Attribute Data Management and Metadata Concep 5.4 Attribute Data Management and Metadata Concep 5.5 Prepare data and adding to Arc Map 5.5 Prepare data and adding to Arc Map 5.6 Organizing data as layers
14TH	1 2 3 4 5	5.7 Editing the layers 5.8 Switching to Layout View. 5.8 Switching to Layout View. 5.9 Change page orientation 5.9 Change page orientation
15TH	1 2 3 4 5	5.10 Removing Borders 5.11 Adding and editing map information 5.11 Adding and editing map information 5.12 Finalize the map 5.12 Finalize the map



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