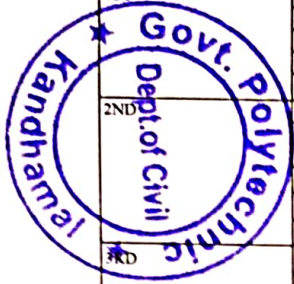


LESSON PLAN : PR-2. LAND SURVEY PRACTICE – II, SESSION -2023-2024(SUMMER 2023)BATCH-2020-2023(6th Semester)

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: 21-05-2024
Week	Class Day	No. of Weeks: 15
		Theory/ Practical Topics
1ST	1	1.0 TRIGONOMETRICAL SURVEYING & TACHEOMETRY:
	2	1.1 Determination of height of 3 objects whose bases are accessible
	3	1.1 Determination of height of 3 objects whose bases are accessible
	4	1.1 Determination of height of 3 objects whose bases are accessible
	5	1.2 Determination of stadia constants
2ND	1	1.2 Determination of stadia constants
	2	1.3 Determination of horizontal distance an elevation with Staff vertical , by stadia method
	3	1.3 Determination of horizontal distance an elevation with Staff vertical , by stadia method
	4	1.3 Determination of horizontal distance an elevation with Staff vertical , by stadia method
	5	1.3 Determination of horizontal distance an elevation with Staff vertical , by stadia method
3RD	1	2.0 SETTING OUT CURVES AND SITE SURVEYING:
	2	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
	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
	4	2.3 Setting out a simple circular curve by offsets from chords produces
	5	2.3 Setting out a simple circular curve by offsets from chords produces
4TH	1	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	2.4 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
	3	2.5 Setting out the foundation line for a culvert
	4	2.5 Setting out the foundation line for a culvert
	5	2.6 Dividing an area into plots of given size
5TH	1	3. STUDY OF MAP AND MAP SERIES:
	2	3.1 Physical Map
	3	3.2 Topographic Map
	4	3.3 Road Map
	5	3.4 Political Map
6TH	1	3.5 Economic & Resources Map
	2	3.5 Economic & Resources Map
	3	3.6 Thematic Map
	4	3.7 Climate Map
	5	3.8 Open Series map and Defense Series Map
7TH	1	4. STUDY ON GPS & DGPS AND ETS:
	2	4.1 GPS: - Global Positioning, GPS Signals, Errors of GPS, Positioning Methods
	3	4.1 GPS: - Global Positioning, GPS Signals, Errors of GPS, Positioning Methods
	4	4.1 GPS: - Global Positioning, GPS Signals, Errors of GPS, Positioning Methods
	5	4.2 DGPS: - Differential Global Positioning System
8TH	1	4.2.1 Base Station Setup 4.2.2 Rover GPS Set up
	2	4.2.1 Base Station Setup 4.2.2 Rover GPS Set up
	3	4.2.3 Download, Post-Process and Export GPS data
	4	4.2.3 Download, Post-Process and Export GPS data
	5	4.2.4 Sequence to download GPS data from flashcards
9TH	1	4.2.4 Sequence to download GPS data from flashcards
	2	4.2.5 Sequence to Post-Process GPS data
	3	4.2.5 Sequence to Post-Process GPS data
	4	4.2.6 Sequence to export post process GPS data
	5	4.2.6 Sequence to export post process GPS data
10TH	1	4.2.7 Sequence to export GPS Time tags to file
	2	4.2.7 Sequence to export GPS Time tags to file
	3	4.2.7 Sequence to export GPS Time tags to file
	4	4.3 ETS: - Electronic Total Station
	5	4.3.1 Distance Measurement
11TH	1	4.3.1 Distance Measurement
	2	4.3.2 Angle Measurement
	3	4.3.2 Angle Measurement
	4	4.3.3 Leveling
	5	4.3.3 Leveling
12TH	1	4.3.4 Determining position
	2	4.3.5 Reference networks
	3	4.3.5 Reference networks
	4	4.3.6 Errors and Accuracy
	5	4.3.6 Errors and Accuracy
13TH	1	5. STUDY OF GIS AND MAP PREPARATION USING GIS
	2	5.1 Components of GIS, Integration of Spatial and Attribute Information
	3	5.1 Components of GIS, Integration of Spatial and Attribute Information
	4	5.2 Three Views of Information System 5.2.1 Database or Table View, Map View and Model View
	5	5.2 Three Views of Information System 5.2.1 Database or Table View, Map View and Model View
14TH	1	5.3 Spatial Data Model
	2	5.4 Attribute Data Management and Metadata Concep
	3	5.4 Attribute Data Management and Metadata Concep
	4	5.5 Prepare data and adding to Arc Map
	5	5.5 Prepare data and adding to Arc Map
15TH	1	5.6 Organizing data as layers
	2	5.7 Editing the layers
	3	5.8 Switching to Layout View.
	4	5.8 Switching to Layout View.
	5	5.9 Change page orientation
	6	5.9 Change page orientation
	7	5.10 Removing Borders
	8	5.11 Adding and editing map information
	9	5.11 Adding and editing map information
	10	5.12 Finalize the map
	11	5.12 Finalize the map



N. O. D.
 Dept. of Civil Engg
 Govt. Polytechnic
 Kandhukur

14/2/2023 PTGF In Civil Engg.