LESSON PLAN FOR LAND SURVEYING-I PRACTICE-II

Discipline: Civil Engineering	Semester :6th	Name of the Teaching Faculty: SUBRAT KUMAR PANIGRAHI
Subject - LAND SURVEY PRACTICE-II	Numbers of classes per week:5	Semester from date: 04.02.2025 to date:17.05.2025 No. of weeks: 15 Session: 2024-25 (SUMMER)
week	Class day	TOPICS
1st		TRIGONOMETRICAL SURVEYING & TACHEOMETRY:
	1	1.1 Determination of height of 3 objects whose bases are accessible
	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	1.2 Determination of stadia constants
	5	1.2 Determination of stadia constants
2nd	6	1.2 Determination of stadia constants
	7	1.3 Determination of horizontal distance an elevation with Staff vertical , by stadia method
	8	1.3 Determination of horizontal distance an elevation with Staff vertical , by stadia method
	9	1.3 Determination of horizontal distance an elevation with Staff vertical , by stadia method
	10	1.3 Determination of horizontal distance an elevation with Staff vertical , by stadia method
3rd	11	2.1 Setting out a simple circular curve by offsets from long chord
	12	2.1 Setting out a simple circular curve by offsets from long chord
	13	2.2 Setting out a simple circular curve by offsets from the tangent
	14	2.2 Setting out a simple circular curve by offsets from the tangent
	15	2.3 Setting out a simple circular curve by offsets from chords produces
4th	16	2.3 Setting out a simple circular curve by offsets from chords produces
	17	2.4 Setting out a simple circular curve by Rankine's method of tangent angle (Deflection angles)
	18	Setting out a site the center line and foundation width of a building from the given plan
	19	2.5 Setting out the foundation line for a culvert
	20	2.6 Dividing an area into plots of given size
5th	21	3.1 Physical Map

	22	3.2 Topographic Map
	23	3.3 Road Map
	24	3.4 Political Map
	25	3.5 Economic & Resources Map
6th	26	3.6 Thematic Map
	27	3.7 Climate Map
	28	3.7 Climate Map
	29	3.8 Open Series map and Defense Series Map
	30	3.8 Open Series map and Defense Series Map
7th	31	4.1 GPS: - Global Positioning, GPS Signals, Errors of GPS,Positioning Methods
	32	4.1 GPS: - Global Positioning, GPS Signals, Errors of GPS,Positioning Methods
	33	4.2 DGPS: - Differential Global Positioning System
	34	4.2.1 Base Station Setup
	35	4.2.2 Rover GPS Set up
8th	36	4.2.3 Download, Post-Process and Export GPS data
	37	4.2.4 Sequence to download GPS data from flashcards
	38	4.2.5 Sequence to Post-Process GPS data
	39	4.2.6 Sequence to export post process GPS data
	40	4.2.7 Sequence to export GPS Time tags to file
9th	41	4.3 ETS: - Electronic Total Station
	42	4.3 ETS: - Electronic Total Station
	43	4.3.1 Distance Measurement
	44	4.3.2 Angle Measurement
	45	4.3.2 Angle Measurement
10th	46	4.3.3 Leveling
	47	4.3.3 Leveling
	48	4.3.3 Leveling
	49	4.3.4 Determining position
	50	4.3.4 Determining position
11th	51	4.3.5 Reference networks
	52	4.3.5 Reference networks
	53	4.3.6 Errors and Accuracy
	54	4.3.6 Errors and Accuracy
	55	4.3.6 Errors and Accuracy
12th	56	5.1 Components of GIS, Integration of Spatial and Attribute Information
	57	5.2 Three Views of Information System
	58	5.2.1 Database or Table View, Map View and Model View
	59	5.3 Spatial Data Model
	60	5.4 Attribute Data Management and Metadata Concept
13th	61	5.4 Attribute Data Management and Metadata Concept
	62	5.5 Prepare data and adding to Arc Map.
	63	5.5 Prepare data and adding to Arc Map.
	64	5.6 Organizing data as layers.
	65	5.6 Organizing data as layers.

14th	66	5.7 Editing the layers.
	67	5.7 Editing the layers.
	68	5.8 Switching to Layout View
	69	5.9 Change page orientation.
	70	5.9 Change page orientation.
15th	71	5.10 Removing Borders.
	72	5.10 Removing Borders.
	73	5.11 Adding and editing map information.
	74	5.11 Adding and editing map information.
	75	5.12 Finalize the map

Lecturer

HOD (Civil)

Academic Co-ordinator

Principal
Govt. polytechnic Nabarangpur