

# LESSON PLAN FOR SUMMER SESSION (2023-24)

PROGRAMME : CIVIL ENGINEERING			NAME OF THE FACULTY: MR. SUBRAT KUMAR PANIGRAHI	
COURSE NAME : LAND SURVEY PRACTICE -II			SESSION : 2023-24	
COURSE CODE : PR.2			DATE : 16.01.2024 To 26.04.2024	
SEMESTER : 6TH				
PERIODS/WEEK: 5				
TOTAL PERIODS:75				
WEEK	PERIODS	UNITS	TOPICS	
1st	1	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	6	1	1.2 Determination of stadia constants	
	7		1.3 Determination of horizontal distance and elevation with Staff vertical, by stadia method	
	8		1.3 Determination of horizontal distance and elevation with Staff vertical, by stadia method	
	9		1.3 Determination of horizontal distance and elevation with Staff vertical, by stadia method	
	10		1.3 Determination of horizontal distance and elevation with Staff vertical, by stadia method	
3rd	11	2	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	2.4 Setting out a simple circular curve by Rankine's method of tangent angle (Deflection angles)	
	17			
	18			
	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	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	3.6 Thematic Map	
	27		3.7 Climate Map	
	28		3.8 Open Series map and Defense Series Map	
	29		3.8 Open Series map and Defense Series Map	
	30		3.8 Open Series map and Defense Series Map	
7th	31	4	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 DGPS: - Differential Global Positioning System	
	35		4.2.1 Base Station Setup	
8th	36	4	4.2.1 Base Station Setup	
	37		4.2.2 Rover GPS Set up	
	38		4.2.2 Rover GPS Set up	
	39		4.2.3 Download, Post-Process and Export GPS data	
	40		4.2.3 Download, Post-Process and Export GPS data	
9th	41	4	4.2.4 Sequence to download GPS data from flashcards	
	42		4.2.4 Sequence to download GPS data from flashcards	
	43		4.2.5 Sequence to Post-Process GPS data	
	44		4.2.5 Sequence to Post-Process GPS data	
	45		4.2.6 Sequence to export post process GPS data	
10th	46	4	4.2.6 Sequence to export post process GPS data	
	47		4.2.7 Sequence to export GPS Time tags to file	
	48		4.2.7 Sequence to export GPS Time tags to file	
	49		4.3 ETS: - Electronic Total Station	
	50		4.3.1 Distance Measurement	
11th	51	4	4.3.2 Angle Measurement	
	52		4.3.3 Leveling	
	53		4.3.4 Determining position	
	54		4.3.5 Reference networks	
	55		4.3.6 Errors and Accuracy	
	56	5	5.1 Components of GIS, Integration of Spatial and Attribute Information	
	57		5.1 Components of GIS, Integration of Spatial and Attribute Information	

12th	58	5	5.2 Three Views of Information System
	59		5.2 Three Views of Information System
	60		5.3 Spatial Data Model
13th	61		5.3 Spatial Data Model
	62		5.4 Attribute Data Management and Metadata Concept
	63		5.4 Attribute Data Management and Metadata Concept
	64		5.5 Prepare data and adding to Arc Map.
	65		5.5 Prepare data and adding to Arc Map.
14th	66		5.6 Organizing data as layers.
	67		5.6 Organizing data as layers.
	68		5.7 Editing the layers.
	69		5.8 Switching to Layout View.
	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

Seetha 13/1/24  
Concern faculty

Seetha 13/1/24  
HOD  
Civil engineering

Seetha 13/1/24  
Academic Coordinator  
GP Nabarangpur

Seetha 13-1-24  
Principal  
GP Nabarangpur