


UGMIT, RAYAGADA
DEPARTMENT CIVIL ENGINEERING

Week	Class Day	Theory / Practical Topics
Discipline: CIVIL ENGG.	Semester: 6th	Name of the Teaching Faculty: CHINMAYA MAHARANA , GF
Subject: LAND SURVEY PRACTICE II	No. of days/per week class allotted: 05	Semester From date: 22.12.2025 To Date: 18.04.2026 No. of Weeks: 15
1 ST	1 ST	TRIGONOMETRICAL SURVEYING & TACHEOMETRY
	2 ND	Do
	3 RD	Determination of height of 3 objects whose bases are accessible
	4 TH	Do
	5 TH	Determination of stadia constants
2 ND	1 ST	Do
	2 ND	Determination of horizontal distance an elevation with Staff vertical , by stadia method
	3 RD	Do
	4 TH	SETTING OUT CURVES AND SITE SURVEYING
	5 TH	Do
3 RD	1 ST	Setting out a simple circular curve by offsets from long chord
	2 ND	Do
	3 RD	Setting out a simple circular curve by offsets from the tangent
	4 TH	Do
	5 TH	Setting out a simple circular curve by offsets from chords produces
4 TH	1 ST	Do
	2 ND	Setting out a simple circular curve by Rankine's method of tangent angle (Deflection angles)
	3 RD	Do
	4 TH	Setting out a site the centre line and foundation width of a building from the given plan
	5 TH	Do
5 TH	1 ST	Setting out the foundation line for a culvert
	2 ND	Do
	3 RD	Dividing an area into plots of given size
	4 TH	Do
	5 TH	STUDY OF MAP AND MAP SERIES : Physical Map
6 TH	1 ST	Do
	2 ND	Topographic Map
	3 RD	Do
	4 TH	Road
	5 TH	Do
7 TH	1 ST	Political Map

	2 ND	Do
	3 RD	Economic & Resources Map
	4 TH	Do
	5 TH	Thematic Map
	1 ST	Do
8 TH	2 ND	Climate Map
	3 RD	Do
	4 TH	Open Series map and Defense Series Map
	5 TH	Do
	1 ST	STUDY ON GPS & DGPS AND ETS
9 TH	2 ND	Do
	3 RD	Theory of Global Positioning of System
	4 TH	GPS: - Global Positioning, GPS Signals, Errors of GPS, Positioning Methods
	5 TH	Do
	1 ST	DGPS: - Differential Global Positioning System
10 TH	2 ND	Do
	3 RD	Rover GPS Set up
	4 TH	Do
	5 TH	Download, Post-Process and Export GPS data
	1 ST	Do
11 TH	2 ND	Sequence to download GPS data from flashcards
	3 RD	Do
	4 TH	Sequence to export post process GPS data
	5 TH	Do
	1 ST	Sequence to export GPS Time tags to file
12 TH	2 ND	Do
	3 RD	ETS: - Theory of total station
	4 TH	Electronic Total Station
	5 TH	Do
	1 ST	Distance measurement
13 TH	2 ND	Angle measurement
	3 RD	DO
	4 TH	Levelling
	5 TH	DO
	14 TH	1 ST
2 ND		Errors and Accuracy
3 RD		STUDY OF GIS AND MAP PREPARATION USING GIS
4 TH		Do
5 TH		Components of GIS, Integration of Spatial and Attribute Information
15 TH	1 ST	Do
	2 ND	Attribute Data Management and Metadata Concept
	3 RD	Do
	4 TH	Editing the layers
	5 TH	Do

Chinnmaya Maharana
D-22/12/25
Sign.of Faculty


Sign. of HOD