

Discipline	Semester 6th	Name of the Teaching Faculty :- Simarani Nayak
Subject: Land survey practice II	No. of Days per Week Class Alloted	Semester From Date: 16/01/2024 To Date: 26/04/2024 No of Weeks 15.
Week	Class Day	Theory Topics
		1.0 TRIGONOMETRICAL SURVEYING & TACHEOMETRY: :
Jan 3rd, 4th week	1st day, 2nd day & 1st day, 2nd day	1.1 Determination of height of 3 objects whose bases are accessible 1.2 Determination of stadia constants 1.3 Determination of horizontal distance and elevation with Staff vertical, by stadia method
Jan 5th week, Feb 1st week & Feb 2nd week	1st day & 1st day, 2nd day	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 2.3 Setting out a simple circular curve by offsets from chords produces 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 2.6 Dividing an area into plots of given size
Feb 3rd week, 4th week	1st day, 2nd day & 1st day, 2nd day	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 3.6 Thematic Map 3.7 Climate Map 3.8 Open Series map and Defense Series Map 4. STUDY ON GPS & DGPS AND ETS
Feb 5th week, March 2nd, 3rd, 4th, week & 5th week	1st day, 2nd day & 1st day, 2nd day & 1st day, 2nd day	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 4.2.3 Download, Post-Process and Export GPS data 4.2.4 Sequence to download GPS data from flashcards 4.2.5 Sequence to 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 4.3 ETS: - Electronic Total Station 4.3.1 Distance Measurement 4.3.2 Angle Measurement 4.3.3 Leveling 4.3.4 Determining position 4.3.5 Reference networks 4.3.6 Errors and Accuracy
April 1st, 2nd, 3rd, 4th week	1st day, 2nd day & 1st day, 2nd day & 1st day, 2nd day & 1st day, 2nd day	5. STUDY OF GIS AND MAP PREPARATION USING GIS 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 5.3 Spatial Data Model 5.4 Attribute Data Management and Metadata Concept 5.5 Prepare data and adding to Arc Map. 5.6 Organizing data as layers. 5.7 Editing the layers. 5.8 Switching to Layout View. 5.9 Change page orientation. 5.10 Removing Borders. 5.11 Adding and editing map information. 5.12 Finalize the map

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