

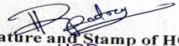


GANDHI SCHOOL OF ENGINEERING
BHABANDHA, BERHAMPUR

BRANCH- CIVIL ENGINEERING								
SEMESTER- 6th								
SUBJECT- Th 1. LAND SURVEY- II								
NAME OF THE FACULTY- ER.ROJALI PATRA & ER.ROJALIN MISHRA								
		Topic to be taken				Actual topic taken		
Sl. No	Topic/Module	No. of period	Details of the topics	Date	Topic No.	Topic Name	Date	Remarks
1	TACHEOMETRY	9	1.1 Principles, stadia constants determination 1.2 Stadia tacheometry with staff held vertical and with line of collimation horizontal or inclined, numerical problems 1.3 Elevations and distances of staff stations – numerical problems	16.01.2024-31.01.2024	1.1 1.2 1.3	Principles, stadia constants determination Stadia tacheometry with staff held vertical and with line of collimation horizontal or inclined, numerical problems Elevations and distances of staff stations – numerical problems	18.01.2024 19.01.2024 22.01.2024 24.01.2024 25.01.2024 31.01.2024	
2	CURVES	8	2.1 compound, reverse and transition curve, Purpose & use of different types of curves in field 2.2 Elements of circular curves, numerical problems 2.3 Preparation of curve table for setting out 2.4 Setting out of circular curve by chain and tape and by instrument angular methods. 2.5 Obstacles in curve ranging – point of intersection inaccessible	01.02.2024-09.02.2024	2.1 2.2 2.3 2.4 2.5	Compound, reverse and transition curve, Purpose & use of different types of curves in field Elements of circular curves, numerical problems Preparation of curve table for setting out Setting out of circular curve by chain and tape and by instrument angular methods. Obstacles in curve ranging – point of intersection inaccessible	01.02.2024 02.02.2024 07.02.2024 08.02.2024 09.02.2024	

3	BASICS ON SCALE AND BASICS OF MAP	8	3.1 Fractional or Ratio Scale, Linear Scale, Graphical Scale 3.2 What is Map, Map Scale and Map Projections 3.3 How Maps Convey Location and Extent 3.4 How Maps Convey characteristics of features 3.5 How Maps Convey Spatial Relationship 3.5.1 Classification of Maps 3.5.1 Physical Map 3.5.2 Topographic Map 3.5.3 Road Map 3.5.4 Political Map 3.5.5 Economic & Resources Map 3.5.6 Thematic Map 3.5.7 Climate Map	10.02.2024- 20.02.2024	3.1 Fractional or Ratio Scale, Linear Scale, Graphical Scale 3.2 What is Map, Map Scale and Map Projections 3.3 How Maps Convey Location and Extent 3.4 How Maps Convey characteristics of features 3.5 How Maps Convey Spatial Relationship 3.5.1 Classification of Maps 3.5.1 Physical Map 3.5.2 Topographic Map 3.5.3 Road Map 3.5.4 Political Map 3.5.5 Economic & Resources Map 3.5.6 Thematic Map 3.5.7 Climate Map	12.02.2024 13.02.2024 15.02.2024 16.02.2024 19.02.2024 20.02.2024	
4	SURVEY OF INDIA MAP SERIES	10	4.1 Open Series map 4.2 Defense Series Map 4.3 Map Nomenclature 4.3.1 Quadrangle Name 4.3.2 Latitude, Longitude, UTM's 4.3.4 Contour Lines 4.3.5 Magnetic Declination 4.3.6 Public Land Survey System 4.3.7 Field Notes	21.02.2024- 02.03.2024	4.1 Open Series map 4.2 Defense Series Map 4.3 Map Nomenclature 4.3.1 Quadrangle Name 4.3.2 Latitude, Longitude, UTM's 4.3.4 Contour Lines 4.3.5 Magnetic Declination 4.3.6 Public Land Survey System 4.3.7 Field Notes	21.02.2024 22.02.2024 23.02.2024 26.02.2024 01.03.2024 04.03.2024 06.03.2024 07.03.2024	
5	BASICS OF AERIAL PHOTOGRAPHY PHOTOGRAMMETRY, DEM AND ORTHO IMAGE GENERATION	10	5.1 Aerial Photography 5.2 Photogrammetry 5.3 Photogrammetry Process 5.4 DTM/DEM Generation 5.5 Ortho Image Generation	04.03.2024- 16.03.2024	5.1 Aerial Photography 5.2 Photogrammetry 5.3 Photogrammetry Process 5.4 DTM/DEM Generation 5.5 Ortho Image Generation	12.03.2024 13.03.2024 14.03.2024 15.03.2024 18.03.2024 19.03.2024 20.03.2024 21.03.2024	

6	MODERN SURVEYING METHODS	10	6.1 Principles, features and use of (i) Micro-optic theodolite, digital theodolite 6.2 Working principles of a Total Station.	18.03.2024-02.04.2024	6.1 Principles, features and use of (i) Micro-optic theodolite, digital theodolite 6.2 Working principles of a Total Station.	22.03.2024 27.03.2024 28.03.2024 02.04.2024 03.04.2024 04.04.2024 05.04.2024 10.04.2024	
7	BASICS ON GPS & DGPS AND ETS	10	7.1 GPS: - Global Positioning 7.1 DGPS: - Differential Global Positioning System 7.3 ETS: - Electronic Total Station	03.04.2024-15.04.2024	7.1 GPS: - Global Positioning 7.2 DGPS: - Differential Global Positioning System 7.3 ETS: - Electronic Total Station	12.04.2024 15.04.2024 16.04.2024 18.04.2024 19.04.2024	
8	BASICS OF GIS AND MAP PREPARATION USING GIS	10	8.1 Components of GIS, Integration of Spatial and Attribute Information 8.2 Three Views of Information System 8.3 Spatial Data Model 8.4 Attribute Data Management and Metadata Concept 8.5 Prepare data and adding to Arc Map. 8.6 Organizing data as layers. 8.7 Editing the layers. 8.8 Switching to Layout View. 8.9 Change page orientation. 8.10 Removing Borders. 8.11 Adding and editing map information. 8.12 Finalize the map	16.04.2024-26.04.2024	8.1 Components of GIS, Integration of Spatial and Attribute Information 8.2 Three Views of Information System 8.3 Spatial Data Model 8.4 Attribute Data Management and Metadata Concept 8.5 Prepare data and adding to Arc Map. 8.6 Organizing data as layers. 8.7 Editing the layers. 8.8 Switching to Layout View. 8.9 Change page orientation. 8.10 Removing Borders. 8.11 Adding and editing map information. 8.12 Finalize the map	22.04.2024 23.04.2024 24.04.2024 25.04.2024 26.04.2024	


 Signature and Stamp of HOD:
 HOD
 Civil Engg.
 Gandhi School of Engg.
 Berhampur (Gm.)

Signature & Stamp of HOD