

**LESSON PLAN-SUMMER 2023**  
**SWAMI VIVEKANANDA SCHOOL OF ENGG & TECH, BBSR**

Discipline- CIVIL DEPARTMENT	Semester-6TH	Name of teaching faculty- <i>Rohit kumar</i>
Subject- LAND SURVEY-II	No class allotted/ per week -6	SEM From date- 14/02/2023 to 25/05/2023 No of weeks- 17
Week	Class day	Theory Topics
3RD	14-02-2023	Introduction of Tacheometry
	15-02-2023	Principles of tachemetry
	16-02-2023	Principles of tachemetry
	17-02-2023	Stadia constnts determination , Example Stadia constnts determination
4TH	20-02-2023	Example Stadia constnts determination
	21-02-2023	Example Stadia constnts determination
	22-02-2023	Stadia tacheometry with staff held vertical and with line of collimation horizontal or inclined
	23-02-2023	Stadia tacheometry with staff held vertical and with line of collimation horizontal or inclined
	24-02-2023	Elevations and distances of staff stations
	25-02-2023	Elevations and distances of staff stations
5TH	27-02-2023	Problems
	28-02-2023	Definition of Compound Curves , Reverse and transition curve
1ST	01-03-2023	Use of Different types of curves in field, Elements of circular curves,
	02-03-2023	Preparation of curve table for setting out Setting out of circular curve by chain and tape and by instrument angular methods
	03-03-2023	Preparation of curve table for setting out Setting out of circular curve by chain and tape and by instrument angular methods
	04-03-2023	offsets from long chord, successive bisection of arc
2ND	06-03-2023	offsets from tangents, offsets from chord produced
	07-03-2023	Rankine's method of tangent angles (No derivation)
	09-03-2023	Rankine's method of tangent angles (No derivation)
	10-03-2023	Obstacles in curve ranging – point of intersection inaccessible
	11-03-2023	Obstacles in curve ranging – point of intersection inaccessible
3RD	13-03-2023	Obstacles in curve ranging – point of intersection inaccessible
	14-03-2023	Fractional or Ratio Scale, Linear Scale, Graphical Scale
	15-03-2023	What is Map, Map Scale and Map Projections
	16-03-2023	How Maps Convey Location and Extent, How Maps Convey Spatial Relationship
	17-03-2023	Classification of Maps
	18-03-2023	Physical Map & Topographic Map, Road Map & Political Map
4TH	20-03-2023	Physical Map & Topographic Map, Road Map & Political Map
	21-03-2023	Economic & Resources Map, Thematic Map & Climate Map
	22-03-2023	Economic & Resources Map, Thematic Map & Climate Map
	23-03-2023	SURVEY OF INDIA MAP SERIES
	24-03-2023	Open Series map, Defense Series Map
	25-03-2023	Map Nomenclature, Quadrangle Name

5TH	27-03-2023	Latitude, Longitude, UTM's, Contour Lines, Magnetic Declination
	28-03-2023	Latitude, Longitude, UTM's, Contour Lines, Magnetic Declination
	29-03-2023	Public Land Survey System
	30-03-2023	Field Notes
	31-03-2023	Aerial Photography, Film, Focal Length, Scale
1ST	01-04-2023	Aerial Photography, Film, Focal Length, Scale
2ND	03-04-2023	Aerial Photography, Film, Focal Length, Scale
	04-04-2023	Types of Aerial Photographs (Oblique, Straight)
	05-04-2023	Photogrammetry & Classification of Photogrammetry
	06-04-2023	Aerial Photogrammetry, Terrestrial Photogrammetry & Photogrammetry Process
	07-04-2023	Acquisition of Imagery using aerial and satellite platform
	08-04-2023	Control Survey & Geometric Distortion in Imagery
3RD	10-04-2023	Application of Imagery and its support data Orientation and Triangulation
	11-04-2023	Stereoscopic Measurement, X-parallax & Y-parallax
	12-04-2023	DTM/DEM Generation, Ortho Image Generation
	13-04-2023	Principles, features and use of (i) Micro-optic theodolite, digital theodolite
	14-04-2023	Principles, features and use of (i) Micro-optic theodolite, digital theodolite
	15-04-2023	Principles, features and use of (i) Micro-optic theodolite, digital theodolite
4TH	17-04-2023	INTERNAL ASSESSMENT
	18-04-2023	INTERNAL ASSESSMENT
	19-04-2023	Working principles of a Total Station (Set up and use of total station to measure angles, distances of points under survey from total station and the co-ordinates (X,Y & Z or northing, easting, and elevation) of surveyed points relative to Total Station position using trigonometry and triangulation
	20-04-2023	Working principles of a Total Station (Set up and use of total station to measure angles, distances of points under survey from total station and the co-ordinates (X,Y & Z or northing, easting, and elevation) of surveyed points relative to Total Station position using trigonometry and triangulation
	21-04-2023	Working principles of a Total Station (Set up and use of total station to measure angles, distances of points under survey from total station and the co-ordinates (X,Y & Z or northing, easting, and elevation) of surveyed points relative to Total Station position using trigonometry and triangulation
	22-04-2023	GPS: - Global Positioning
	24-04-2023	GPS: - Global Positioning
5TH	25-04-2023	
	26-04-2023	Working Principle of GPS, GPS Signals, Errors of GPS, Positioning Methods
	27-04-2023	DGPS: - Differential Global Positioning System
	28-04-2023	Base Station Setup, Rover GPS Set up
	29-04-2023	Download, Post-Process and Export GPS data
	01-05-2023	Sequence to download GPS data from flashcards
	02-05-2023	Sequence to Post-Process GPS data

Declination  
Declination  
ST

	03-05-2023	ETS: - Electronic Total Station, Distance Measurement, & Angle Measurement
	04-05-2023	ETS: - Electronic Total Station, Distance Measurement, & Angle Measurement
	05-05-2023	Components of GIS, Integration of Spatial and Attribute Information
	06-05-2023	Components of GIS, Integration of Spatial and Attribute Information
2ND	08-05-2023	Three Views of Information System
	09-05-2023	Database or Table View, Map View and Model View
	10-05-2023	Spatial Data Model
	11-05-2023	Attribute Data Management and Metadata Concept
	12-05-2023	Prepare data and adding to Arc Map.
	13-05-2023	Organizing data as layers, Editing the layers.
3RD	15-05-2023	Spatial Data Model
	16-05-2023	Attribute Data Management and Metadata Concept
	17-05-2023	Prepare data and adding to Arc Map.
	18-05-2023	Organizing data as layers, Editing the layers.
	19-05-2023	Switching to Layout View, Change page orientation.
	20-05-2023	Removing Borders, Adding and editing map information.
4TH	22-05-2023	Finalize the map

HOD

DEAN ACADEMIC

PRINCIPAL

H.O.D  
Civil Engineering  
S.V S.E.T., Madanpur

PRINCIPAL  
Swami Vivekananda School of Engg. & T  
Madanpur, BBSR