

Discipline:		Semester: 6th	Name of the Teaching Faculty: Rajalaxmi Pati	
Subject: LAND- SURVEY - II		No of Days/Week Class Allotted: 5P	Semester From date: 13.0.23 To date 23.5.23	No. of Weeks:
WEEK	Class Day	Theory Topics		
01	1st	Tacheometry - principle,stadia constants.		
	2nd	Stadia tacheometry with staff held vertical with numerical problem.		
	3rd	Stadia with staff held inclined with numerical problem.		
	4th	Elevation & distance of staff stations.		
	5th	Numerical problems on elevations & distance.		
02	1st	Numerical problems on elevations & distance.		
	2nd	Curve - compound, reverse, transition, simple curve.		
	3rd	purpose & use of different type of curves in field.		
	4th	Circular curves with numerical problems.		
	5th	Preparation of curve table for setting out.		
03	1st	1- offsets from chord produced 2- successive bisection. 3- offsets from tangents		
	2nd	4- offsets from chord produced 5- Rankine's method of tangent angles.		
	3rd	Obstacles in curve ranging		
	4th	Bazis on scale & basis of map - Ratio scale, linear scale, graphical scale.		
	5th	Map projection, flow maps convey locations & extent.		

WEEK	Class Day	Theory Topics
04	1st	How map convey location & extent.
	2nd	How map convey characteristic features.
	3rd	How map convey spatial relationship.
	4th	Classification of maps
	5th	Economic & resource map.
05	1st	Survey of India map series.
	2nd	Map Nomenclature
	3rd	Latitude, longitude, UTM's
	4th	Contour lines
	5th	Magnetic Declination.
06	1st	Public Road survey system.
	2nd	Field notes of map nomenclature
	3rd	Different types of maps.
	4th	Aerial photograph
	5th	Oblique & straight photography.

Discipline:		Semester:	Name of the Teaching Faculty:	
Subject:	No of Days/Week Class Allotted: _____	Semester From date: _____ To date _____	No. of Weeks:	
WEEK	Class Day	Theory Topics		
08	1st	Photogrammetry - classification of photogrammetry.		
	2nd	Aerial & Terrestrial photogrammetry.		
	3rd	Photogrammetry process		
	4th	Control surveys.		
	5th	Application of imagery & its support data.		
08	1st	Orientation & Triangulation.		
	2nd	Stereooscopic measurement: $\frac{x}{y}$ parallax		
	3rd	DTM/ DEM generation.		
	4th	Modern Surveying		
	5th	Uses - Micro optic theodolite Digital theodolite		
09	1st	Working principles of T.S. - set up & Uses		
	2nd	Distances of points under surveys from total station & co-ordinates (xyz)		
	3rd	Total station: (co-ordinates xyz Plane)		
	4th	Total station position using trigonometry		
	5th	Total station position using triangulation.		

WEEK	Class Day	Theory Topics
10	1st	GPS - Defn, GPS signals, working principle of GPS.
	2nd	Errors of GPS, positioning methods.
	3rd	DGPS - Base Station set up.
	4th	Post-process of export GPS data
	5th	Sequence to download GPS data from flashcards
11	1st	Sequence to post-process GPS data.
	2nd	Sequence to export - post process GPS data & GPS. Time tags to file
	3rd	Electronics total station - Distance measurement & angle measurement
	4th	ETC - levelling, determining, post.
	5th	Components of GIS, integration of spatial.
12	1st	Three views of IS
	2nd	spatial data model.
	3rd	prepare data & Adding to Arc Map.
	4th	Organizing data as a layers.
	5th	Switching to layout view.

Discipline:		Semester:	Name of the Teaching Faculty:	
Subject:		No of Days/Week Class Allotted: _____	Semester From date: _____ To date _____	No. of Weeks:
WEEK	Class Day	Theory Topics		
13	1st	Removing borders, Adding & editing map information		
	2nd	Finalize the Map		
	3rd	Information System of GIS		
	4th	Components of GIS		
	5th	spatial data model, types of vector data		
14	1st	Data button on the Arc Map toolbar		
	2nd	Removing borders		
	3rd	Adding & Editing map information		
	4th	5-layers of GIS system		
	5th	Edit & Features layers in map viewer classic		
15	1st	Revision Unit - 1, 2		
	2nd	Revision Unit - 3, 4		
	3rd	Revision Unit - 5, 6		
	4th	Revision Unit - 7, 8		
	5th	Revision Unit - 9, 10		

9/12/23

10/2/23