PROGRAMME : COURSE NAME : COURSE CODE : SEMESTER : PERIODS/WEEK : TOTAL PERIODS :		CIVIL ENGINEERING LAND SURVEY PRACTICE-I PR-1 4 TH 7 105	NAME OF THE FACULTY: MANASI PRADHAN SESSION : 2020-2021 DATE : 05-04-2021 to 30.06.2021	
WEEK	CLASS	TOPICS		
1	1	Testing and adjusting of a metric chain.		
	2	Measurement of distance between two points with chain by direct ranging		
2	1	Setting out different types of triangles, given the lengths of sides with chain and tape		
	2	Measurement of distance ground using stepping meth	between two points by chaining across a sloped nod and a clinometer	
3	1	Measurement of distance by chaining across a obstacles on the chain line		
	2	Setting perpendicular offset		
4	1	Setting oblique offsets to objects		
	2		Prismatic compass and Surveyor's compass	
5	1	Measurement of bearings of lines (at least 3 lines) and determination of included angles using Prismatic compass and Surveyor's compass		
	2	Setting out triangles (at least 2) with compass, given the length and bearing of one side and included angles		
6	1	Setting out a closed traverse of 5 sides, using prismatic compass, given bearing of one line and included angles and lengths of sides		
	2	Conducting chain and compass traverse surveying in a given plot of area and recording data in the field book		
7	1	Study of direction, Scale, Grid Reference and Grid Square		
	2	Study of Signs and Symbols		
8	1	Cadastral Map Preparation Methodology		
	2	Unique identification number of parce		
9	1	Positions of existing Control Points and its types		
	2	Adjacent Boundaries and Fe	eatures, Topology Creation and verification	
10	1	Setting up of Plane Table ar inaccessible points by inters	nd Plotting five points by radiation method and five section method.	
	2	Conducting Plane Table sur	veying in a given plot of area by traversing	
11	1	Plane table surveying by Re	section method	
	2	Measurement of horizont method and compare two r	al angles (3nos.) by repetition and reiteration nethod	
12	1	Prolonging a given straigh traverse from exercise 4.1	t line with the help of a theodolite, Plotting the and checking the error of closure. Setting out an and entering the field data 5.6 Plotting the traverse	
	2	Determining Reduced Leve	Making temporary adjustments of Levels 6.2 els of five given points taking staff readings with erence of levels between two points by taking staff	

		readings form single set up of level, recording the readings in level book and application of Arithmetic check.		
13	1	Locating contour points in the given area by direct method / indirect method Conducting block level survey in the given area ,Plotting and drawing contour map of a given area by radial method , Map Interpretation: Interpret Human and Economic Activities.		
	2	Basics of Aerial Photography: Film , Focal Length ,Scale ,Types of Aerial Photographs (Oblique, Straight)		
14	1	Basics of Photogrammetry, DEM and Ortho Image generation: Photogrammetry, Classification of Photogrammetry , Aerial Photogrammetry , Terrestrial Photogrammetr		
	2	Photogrammetry Process: Acquisition of Imagery using aerial and satellite platform ,Control Survey ,Geometric Distortion in Imagery		
15	1	Application of Imagery and its support data , Orientation and Triangulation Stereoscopic Measurement: X-parallax and Y-parallax ,DTM/DEM Generation , Ortho Image Generatio		
	2	Theodolite ;Measurement of horizontal angle-revision		