

Discipline :- Civil Engg.	Semester - 6 th	Name of the teaching faculty - Bhagaban Sethi
Subject :- Land Survey - II	No. of days per week class allotted :-	semester from - 5.04, 2021 - 30.06, 2021
Weeks	Class days	No. of weeks :-
		Theory / practical Topics
05/04/2021 to 10/04/2021	1 st 2 nd 3 rd 4 th 5 th 6 th	Principles of Tacheometry stadia constants determination stadia tacheometry Numerical problems Elevation and distance of staff station Numerical problem
12/04/2021 to 17/04/2021	1 st 2 nd 3 rd 4 th 5 th 6 th	Compound, Reverse & transition curve purpose & use of curve Maha Visubha Sankranti Elements of circular curve Numerical problems preparation of curve table
19/04/2021 to 24/04/2021	1 st 2 nd 3 rd 4 th 5 th 6 th	setting out of circular curve By chain on tape & instrument angle Ram Navami Different methods (no observation) obstacles in curve ranging fractional on ratio scale
26/04/2021 to 01/05/2021	1 st 2 nd 3 rd 4 th 5 th 6 th	Map, map scale & map projection How map convey location & extent How map convey characteristic How map convey spatial relationship Physical map & topographic map Road & political map

Weeks	class days	Theory / Practical Topics
	1st	Economic & Resource map
03/05/2021 to	2nd 3rd	Thematic map & climate map, Open series map
08/05/2021	4th	Defence series map
	5th	Map Nomenclature (Quadrangle)
	6th	Latitude, Longitude - UTM's
	1st	Contour Lines
10/05/2021 to	2nd 3rd	Magnetic Declination Public Land survey system
15/05/2021	4th	Field Notes
	5th	<u>- Id-ul-Zuha -</u>
	6th	Aerial Photography
	1st	Film, Focal length, scale
17/05/2021 to	2nd 3rd	Type (oblique, straight) Photogrammetry (classification)
22/05/2021	4th	Photogrammetry (Aerial)
	5th	Photogrammetry (Terrestrial)
	6th	Process of photogrammetry
	1st	Acquisition of imagery
24/05/2021 to	2nd 3rd	Control Survey Geometric Distortion in imagery
29/05/2021	4th	Modern Surveying method (principle)
	5th	Feature & Use, micro optic (7th)
	6th	Digital theodolite

Weeks	class days	Theory / practical	Topics
31/05/2021 to 05/06/2021	1st 2nd 3rd 4th 5th 6th	Working principle of total station Setup and use of total station to measure angles, Total station position (Trigonometry) Total station position (Trilateration) Global Positioning	
07/06/2021 to 12/06/2021	1st 2nd 3rd 4th 5th 6th	Working principle of GPS Errors of GPS, Positioning method Global Positioning System <u>Sabitru Amabayya</u> Base station setup Rover GPS setup	
14/06/2021 to 19/06/2021	1st 2nd 3rd 4th 5th 6th	Electronic total station <u>Raja Sankranti</u> Distance & angle measurement Levelling Determination of position Errors and accuracy	
20/06/2021 to 26/06/2021	1st 2nd 3rd 4th 5th 6th	Components of GIS Three views of information Spatial Data model Attribute Data management organising data, editing Switching of to layout view	

Weeks	class days	Theory / Practical Topics
28/06/2021	1st	change page orientation. Removing bands
29/06/2021	2nd	Adding & editing map information
30/06/2021	3rd	Finalize the Umap.

Done

Verified
Sumit
05/07/2021