

DISCIPLINE: -
 Civil Engg.
 Sub: Land Survey-1
 (Weeks)

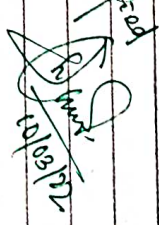
Semester = 4th
 No. of days/Week
 class allotted = 06
 class day

Name of Teaching Faculty: Er. Praveen Chandra
 Sem. Starts from: 07/03/22
 No. of weeks: 12
 Theory / Practical topic

Date	Class Day	Topic	
07/03/22	1st	Introduction	
to	2nd	Principle of Surveying, Precision & Accuracy of Surveying	
12/03/22	3rd	Errors and measurements (linear) mistakes	
	4th		
	5th		
	6th	correction to measured lengths of surveying.	
14/03/22	1st	correction due to incorrect lengths.	
to	2nd	Temperature correction, pull, sag.	
19/03/22	3rd	Numerical problems.	
	4th	← DOLA PURNIMA →	
	5th	← HOLI →	
	6th	 	
24/03/22	1st	Chain Surveying: Equipments used with accessories, Ranging, Perpendiculars	
to	2nd	Setting of a line with chain & tape. Purpose of chain surveying, Principles. Concept of field book. Selection of survey stations.	
26/03/22	3rd		
	4th		
	5th		
	6th	of survey stations.	
28/03/22	1st	Back Sine, Tie Sine, Check Sine	
to	2nd	Offsets. Necessity, Parallel & Oblique	
02/04/22	3rd	← LITRAL DIVAS →	
	4th	 	
	5th	Offsets. Errors in chain surveying.	
	6th	compensation & accumulated errors	
04/04/22	1st	<u>COMPASS SURVEYING: Measurements</u>	
to	2nd	of angles with chain, tape & compass	
10/04/22	3rd	compass: Types and features & parts	
	4th	determination of angles by compass	
	5th	rules of compass, F.B & B.B.	
	6th	calculation of the area by compass	

Weeks	Class day	Theory / Practical topics
11/04/22 to 16/04/22	1st, 2nd, 3rd, 4th, 5th	Theory of earth's magnetism. Magnetic declination Measurement of magnetic bearings. Explanation of incl. & declination. Traverse computation. "Concurrence" of angles theory, Gauss traverse. Neometrical problems on N. Bearing. Traverse computation. "Ladder" of departure methods. Closing errors: Adjustment of angular errors. Bessel's method.
23/04/22 to 29/04/22	1st, 2nd, 3rd, 4th, 5th, 6th	Leveling & Contouring: Def'n & Principles. Instruments used for leveling. Levelling Staffs: Temporary adjustment of level. Readings with level. Effects of curvature & refraction. Idyllic Numerical Problems. Errors in Levelling & Precipitation. Def'n characteristics of contour.
06/05/22 to 12/05/22	1st, 2nd, 3rd, 4th, 5th, 6th	Concept of contour. Methods of plotting contour maps. Use of contour maps in civil Engg.
19/05/22 to 25/05/22	1st, 2nd, 3rd, 4th, 5th	Computation of Area and Volume; Area determination by plan.
01/06/22 to 07/06/22	1st, 2nd, 3rd, 4th, 5th	Calculation of Area

Weeks	Class day	Theory / Practical topics
16/05/22 to 21/05/22	1st, 2nd, 3rd, 4th, 5th, 6th	Theory / practical topics
28/05/22 to 03/06/22	1st, 2nd, 3rd, 4th, 5th, 6th	Discussion of the many questions & Ans on the ducten chapter. Discussion of the reports questions and Ans on chain surveying & compass surveying. Discussion of long questions & Ans on Introduction, Chain and compass surveying. Plain-table surveying & leveling.
10/06/22 to 16/06/22	1st, 2nd, 3rd, 4th, 5th	

Verified by

 Dr. J. K. Jaiswal