

Department OF Civil Engineering

Name of the Faculty : Mr. Bharat Verma
 Semester : 4th
 Subject: Surveying-II (Practical)
 Lesson Plan Duration : 15 weeks (from 20.01.2025 to 02.05.2025)

** Work load (Lecture/Practical) per week (in hours): Lectures-02, Practicals-06

Week	Practical Day	Practical Topic	Delivery Date
		Topic	
1st	1	Digital Theodolite: Introduction	
	2	i) Study of a transit vernier theodolite; temporary adjustments of theodolite	
2nd	3	ii) Reading the Vernier and working out the least measurement of horizontal angles by repetition and reiteration methods	
	4	iii) Measurement of vertical angles and use of tachometric tables	
3rd	5	iii) Measurement of vertical angles and use of tachometric tables	
	6	iv) Measurement of magnetic bearing of a line	
4th	7	iv) Measurement of magnetic bearing of a line	
	8	Curves : Introduction	
5th	9	Offsets from the chords produced by Digital Theodolite	
	10	Offsets from the chords produced by Digital Theodolite	
6th	11	b) One theodolite method	
	12	b) One theodolite method	
7th	13	Theodolite.	
	14	Theodolite.	
8th	15	iii) Setting out of a transition curve by tangential offsets using a Digital Theodolite.	
	16	iii) Setting out of a transition curve by tangential offsets using a Digital Theodolite.	
9th	17	Total Station i) Temporary adjustments of a Total station	
	18	Total Station i) Temporary adjustments of a Total station	
10th	19	ii) Measurement of distance, horizontal angle and vertical angle.	
	20	ii) Measurement of distance, horizontal angle and vertical angle.	
11th	21	iii) To plot an area with the help of Total Station	
	22	topographic map also	
12th	23	reservoir capacity with DGPS	
	24	reservoir capacity with DGPS	
13th	25	ii) Layout of drain, canal, road with DGPS.	
	26	ii) Layout of drain, canal, road with DGPS.	
14th	27	DGPS	
	28	DGPS	
15th	29	iv) Periodic field visits to Survey of India and other government agencies.	
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Bharat Verma
 Subject Incharge
 (Bharat Verma)

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