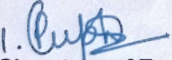
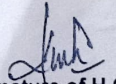


**Department of Civil Engineering**  
**Government Polytechnic Sundernagar Distt Mandi (H.P) -175018**

Lesson Plan for Basic Surveying (Practical G1& G2) (Semester - 3rd ) Session: (August- December, 2025)				
S.No	MONTH	WEEK	CONTENTS	REMARKS
1	August	1	Measure distance between two survey stations using chain, tape and ranging rods when two stations are inter-visible.	
		2	Undertake reciprocal ranging and measure the distance between two stations.	
		4	Determine area of open field using chain and cross staff survey. Measure Fore Bearing and Back Bearing of survey lines of open traverse using Prismatic Compass.	
		5	Measure Fore Bearing and back bearing of a closed traverse of 5 or 6 sides and correct the bearings and included angles for the local attraction.	
2	September	1	Undertake Survey Project with chain and compass for closed traverse for minimum 5 sides around a building.	
		2	Plot the traverse on A1 size imperial drawing sheet for data collected in Survey Project mentioned at practical No.6.	
		3	Undertake simple levelling using dumpy level/ Auto level and levelling staff. Undertake differential levelling and determine Reduced Levels by Height of instrument method and Rise and fall method using dumpy level/Auto Level and levelling staff	
		4	Undertake fly levelling with double check using dumpy level/ Auto level and levelling staff.	
3	October	1	Undertake Survey Project with Levelling instrument for Profile levelling and cross- sectioning for a road with cross-section.	
		2	Plot the L-section with minimum 3 cross-sections on A1 size imperial sheet for data collected in Survey Project mentioned at practical No.11.	
		3	Undertake Survey Project for plotting contour map using block contouring method for a block of 150m x 150m with grid of 10m x 10m.	
		4	Plot the contours on A1 size imperial drawing sheet for data collected in Survey Project mentioned at practical No.13.	
		5	Measure area of irregular figure using Digital planimeter.	
4	November	1	Revision of Practical No. 1,2,3,4 & Viva - Voce	
		2	<b>House Test as per academic calender.</b>	
		3	Revision of Practical No. 5,6,7,8 & Viva - Voce	
		4	Revision of Practical No. 9,10,11,12 & Viva - Voce	

**Note:- The Lesson Plan is tentative, subject to availability of time, students & faculty.**

  
**Signature of Teacher**  
 1. (Er Pratik Gupta)  
 2. (Er Ritesh Bisht)

  
**Signature of H.O.D**  
 (Er Anita Joshi)