

Lesson Plan

Name of the Faculty	: Mrs. Sunita	Discipline	: Civil Engineering	L	T	P
Subject	: SURVEYING – I (PRACTICALS)	Semester	: 3rd	-	-	05
Lesson Plan Duration	: 15 Weeks (from Aug. 25 to Nov. 2025)					

Week	Practical	Delivery Date of Practical	Whether the Lesson Plan Followed? Yes/No
1 st	Introduction of chain surveying.		
	I Demonstration of chain surveying.		
2 nd	II Compass Surveying I) a) Study of prismatic compass b) Setting the compass and taking observations		
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3 rd	Compass Surveying: c) Measuring angles between the lines meeting at a point		
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4 th	III Levelling i) a) Study of Auto level and levelling staff b) Temporary adjustments of Auto levels		
	III Levelling c) Taking staff readings on different stations from the single setting and finding differences of level between them		

5 th	III Levelling c) Taking staff readings on different stations from the single setting and finding differences of level between them.		
	Internal Viva Voce – I		
6 th	Internal Viva Voce – I		
	III Levelling ii) To find out difference of level between two distant points by shifting the instrument		
7 th	III Levelling iii) Longitudinal and cross sectioning of a road/railway/canal iv) Setting a gradient by auto-level.		
	IV Plane Table Surveying i) a) Study of the plane table survey equipment b) Setting the plane table c) Marking the North direction d) Plotting a few points by radiation method		
8 th	IV Plane Table Surveying ii) a) Orientation by - Trough compass - Back sighting		
	IV Plane Table Surveying b) Plotting few points by intersection, radiation and resection method		
9 th	IV Plane Table Surveying iii) Traversing an area with a plane table (at least five lines)		
	V Layout of Buildings (from given drawing of two room residential building) by use of surveying instruments.		
10 th	V Layout of Buildings (from given drawing of two room residential building) by use of surveying instruments.		

	Internal Viva Voce – II		
11 th	Internal Viva Voce –II		
	VI Contouring: i) Preparing a contour plan by radial line method by the use of a Auto level.		
12 th	VI Contouring: i) Preparing a contour plan by radial line method by the use of a Auto level.		
	VI Contouring: ii) Preparing a contour plan by method of squares		
13 th	VI Contouring: iii) Preparing a contour plan of a Road/Railway track/Canal by taking cross sections.		
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14 th	VI Contouring: iv) Computation of earth work and reservoir capacity from a contour map		
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15 th	Internal Viva Voce – III		
	Internal Viva Voce – III		