

Lesson plan

Discipline: Civil Engg.	Semester: fourth (4 th)	Name of the Lab I/C: Er Malaya Ranjan Sahu / Er Jagat Jyoti Puntia
Subject: Survey Practice-1	No. of days/week class allotted: Six (6)	Semester from Date: 14.02.23 to Date: 23.05.23 No. of Weeks: 15
WEEK	CLASS DAY	PRACTICAL EXPERIMENTS
1 st	1 st	Testing and adjusting of a metric chain.
	2 nd	
	3 rd	
	4th	
	5th	
	6th	Review class
2 nd	1 st	Measurement of distance between two points (more than 2 chain lengths apart) with chain including direct ranging
	2 nd	
	3 rd	
	4th	
	5th	
	6th	Review class
3 rd	1 st	Measurement of distance by chaining across a obstacles on the chain line i) a pond ii)a building iii) a stream/ river (in the event of non-availability of stream / river, a pond or lake may be taken, considering that chaining around the same is not possible.
	2 nd	
	3 rd	
	4th	
	5th	
	6th	Review class
4 th	1 st	Setting perpendicular offsets to various objects (at least 3) from a chain line using-(1) tape, (2) cross-staff Setting oblique offsets to objects (at least 3) from a chain using tape,
	2 nd	
	3 rd	
	4th	
	5th	
	6th	Review class

5 th	1 st	Testing and adjustment of Prismatic compass and Surveyor's compass
	2 nd	
	3 rd	
	4th	
	5th	
	6th	Review class
6 th	1 st	Measurement of bearings of lines (at least 3 lines) and determination of included angles using Prismatic compass
	2 nd	
	3 rd	
	4th	
	5th	
	6th	Review class
7 th	1 st	Study of direction, Scale, Grid Reference and Grid Square Study of Signs and Symbols.
	2 nd	
	3 rd	
	4th	
	5th	
	6th	Review class
8 th	1 st	Setting up of Plane Table and Plotting five points by radiation method
	2 nd	
	3 rd	
	4th	
	5th	
	6th	Review class

9 th	1 st	Conducting Plane Table Surveying In a given plot of Area By Traversing(at least a 5 sides traverse and locating the objects)
	2 nd	
	3 rd	
	4 th	
	5 th	
	6 th	Review class
10 th	1 st	Study of essential features and parts of transits theodolite to describe the theodolite with sketches
	2 nd	
	3 rd	
	4 th	
	5 th	
	6 th	Review class
11 th	1 st	Making temporary adjustments of Levels
	2 nd	
	3 rd	
	4 th	
	5 th	
	6 th	Review class.
12 th	1 st	Determining Reduced Levels of five given points taking staff readings with Levels
	2 nd	
	3 rd	
	4 th	
	5 th	
	6 th	Review class
13 th	1 st	Determining the difference of levels between two points (3 pairs of points / group) by taking staff readings form single set up of level, recording the readings in level book and Application of Arithmetic check. (At least 3 change points must be covered)
	2 nd	
	3 rd	
	4 th	

	5th	
	6th	Review class.
14 th	1 st	Conduct profile leveling along the given alignment for a road / canal for 150m length, taking L. S. at every 15m and C. S. at 1m & 3m apart on both sides at every 30m interval and recording the data in level book and applying arithmetical check
	2 nd	
	3 rd	
	4th	
	5th	
	6th	Review class.
15 th	1 st	Review class.
	2 nd	
	3 rd	
	4th	
	5th	
	6th	Review class.