KIIT POLYTECHNIC, BHUBANESWAR

LESSON PLAN

Session (2023-2024)

Discipline : CIVIL	Semester:4 th	Name of the Teaching Faculty: Chiranjeeb
ENGINEERING	sem,Summer/2024	Mishra(Lecturer)
		Email ID: chiranjeeb.mishrafce@kp.kiit.ac.in
Subject: Land Survey	No. Of Days/Week	Start Date :16/01/24
Practice-l(Pr.1)	Class Allotted :07	End Date:26/04/24
Week	Class Day	Practical Topics
1 st	1 st	To study about conventional signs used in survey.
	2 nd	To study about conventional signs used in survey.
2nd	1 st	Record checking
	2 nd	To study about different types of equipments and accessories used in survey.
3 rd	1 st	Record checking/viva
	2 nd	Testing and adjusting of a metric chain. Measurement of distance between two points.
4 th	1 st	Testing and adjusting of a metric chain. Measurement of distance between two points.
/	2 nd	Measurement of distance between two points (more than 2 chain lengths apart) with chain including direct ranging. Setting out different types of triangles, given the lengths sides with chain and tape.
5th	1 st	Measurement of distance between two points (more than 2 chain lengths apart) with chain including direct ranging. Setting out different types of triangles, given the lengths sides with chain and tape.
	2 nd	Repeat /record checking /viva
6th	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
		Setting perpendicular offsets to various objects (at least 3) from a chain line using-(1) tape, (2) cross-staff, (3) optical square and comparing the accuracy of the 3 methods .
	2 nd	Testing and adjustment of Prismatic compass and Surveyor's compass . Record checking/viva

7th		Management of bookings of lines (at least 2 lines) and
/th	1 st	Measurement of bearings of lines (at least 3 lines) and
		determination of included angle using Prismatic compass and
		Surveyor's compas.
		Setting out a closed traverse of 5 sides, using prismatic compass,
		given bearing of one line and included angles and lengths of
		sides.
	2^{nd}	Measurement of bearings of lines (at least 3 lines) and
		determination of included angle using Prismatic compass and
		Surveyor's compas.
		Setting out a closed traverse of 5 sides, using prismatic compass,
		given bearing of one line and included angles and lengths of
		sides.
8th	1 st	Record checking/viva
	2 nd	Setting up of Plane Table and Plotting five points by radiation
	-	method and five inaccessible points by intersection method
		Conducting Plane Table surveying in a given plot of area by
		traversing (Atleast a 5-sided traverse and locating the objects.
9th	1 st	Setting up of Plane Table and Plotting five points by radiation
	1	method and five inaccessible points by intersection method
		Conducting Plane Table surveying in a given plot of area by
		traversing (Atleast a 5-sided traverse and locating the objects.
	2 nd	Record checking/viva
10th	1.04	Plane table surveying by Persection method (two point 8 three
1001	1 st	Plane table surveying by Resection method (two point & three point proble method.
		Measurement of horizontal angles (3nos.) by repetition and
		reiteration method and compare two method
	Ord	Plane table surveying by Resection method (two point & three
	2 nd	point proble method.
		Measurement of horizontal angles (3nos.) by repetition and
		reiteration method and compare two method
11th	1 st	Record checking/viva
	2nd	Prolonging a given straight line with the help of a theodolite
	Zind	Determination of magnetic bearing of 3 given straight line
12th	1 st	Prolonging a given straight line with the help of a theodolite
	1	Determination of magnetic bearing of 3 given straight line
	2 nd	Record checking/viva
	-	Making temporary adjustments of Levels
13th	1 st	Determining Reduced Levels of five given points taking staff
		readings with Levels using level book.
		Locating contour points in the given area by direct method /
		indirect method.
	2 nd	Determining Reduced Levels of five given points taking staff
	_	readings with Levels using level book.
		Locating contour points in the given area by direct method /
		indirect method.
14th	1 st	Repeat /Record checking/viva
	2 nd	Conduct Fly Leveling (Compound) between two distant points
		with respect to R.L. of a given B.M. and reduction of levels by

		both height of collimation method and applying Arithmetic check. (At least 3 change points must be covered) by rise and fall method.
15th	1 st	Repeat/Record checking/viva
	2 nd	Repeat/Record checking/viva