

Discipline	Semester	Name of the Teachers Faculty
		Lilina Priyadarshini Swain
Subject	No. of Days	Semester, From Date - 15/02/2023
Mine Surveying	per week	To Date - 23/05/2023
	Class allotted	Name of Weeks :- 15
Week	Class/Day	Theory - II
1st	1st	Define stadia and its principle.
	2nd	Define stadia and its principle.
	3rd	Explain diaphragm.
	4th	Explain reticles.
2nd	1st	Explain attached meter.
	2nd	Explain Instruments constants.
	3rd	Find out height and distance from stadia intercepts method.
	4th	Find out height and distance from tangential systems.
3rd	1st	Find out height and distance from movable hair method.
	2nd	State purpose and principle involved in triangulation method.
	3rd	State purpose and principle involved in trilateration method.
4th	4th	Classify various methods of triangulation.
4th	1st	Explain primary triangulation.
	2nd	Explain triangulation.
	3rd	Explain triangulation.
	4th	Explain tertiary collinear triangulation.
5th	1st	Develop methods of measuring angle.
	2nd	Develop concept about reconnaissance survey.
	3rd	Types of theodolite used in triangulation survey.
	4th	Describe the methods of baseline measurement using E.D.M.
6th	1st	Describe the methods of baseline measurement using E.D.M.



	2nd	Define tape Correction.
	3rd	State Construction of triangulation Station of permanent nature.
	4th	State Construction of triangulation Station of permanent nature.
7th	1st	State direct Correlation by traversing methods.
	2nd	State direct Correlation by optical methods.
	3rd	Describe orientation by wires on two shafts.
	4th	Explain Correlation by mines in vertical shafts.
8th	1st	Explain Correlation by mines on vertical shafts.
	2nd	Explain Correlation by mines on vertical shafts.
	3rd	INTRODUCTION to DGPS.
	4th	Describe Weissbach triangle Weis-quadriateral methods.
9th	1st	Explain precise magnetic Correlation.
	2nd	State Elements of Curves.
	3rd	Define & Designation of Curves, Simple Curves.
	4th	Define designation of Curves, Compound and reverse Curves.
10th	1st	Explain Setting out of Surface and underground Curves by chords and offsets.
	2nd	Explain Setting out of Surface and underground Curves by tangent and offsets.
	3rd	Explain Setting out of Surface and underground Curves by plate layers method.
	4th	Explain Describe various Setting out by chain and one theodolite, two theodolites.
11th	1st	Describe various setting out by chain
	2nd	Describe various Setting out by one theodolite.
	3rd	Describe various Setting out by one theodolite.
	4th	Describe various Setting out by chain two theodolite.

1215	1st.	Describe various settings out by chain one theodolite.
	2nd.	Describe various settings out by chain two theodolite.
	3rd.	Superelevation, transition and vertical curves.
	4th	Define Superelevation, transition and vertical curves.
1315	1st	Explain tape triangulation, instrumental survey.
	2nd	Explain instrumental survey.
	3rd.	Determine slope face.
	4th	Determine slope face.
1415	1st	State preparation of slope planes.
	2nd	State plotting the slope station.
	3rd.	INTERNAL
	4th	state plotting of slope face to the mine plan.
1515	1st.	Find out area of extraction by Planimeter and calculation of triangle thereof.
	2nd	Explain the basic principles of global positioning system.
	3rd	Explain the basic principles of global positioning system.
	4th	Explain the basic principles of total station.
1615	1st	Explain the basic principles of total station.
	2nd	Introduction to DGPS.
	3rd	Previous year question dissection.
	4th	Previous year questions.