

## **ARYAN** ARYAN SCHOOL OF ENGINEERING & TECHNOLOGY

Dicipline:	MINING	Semester: 4th	Name of the Teaching Faculty: Debashish	preadhan.
Subject: MINE SURVEY – II		No of Days/Week Class Allotted:	Samuetar From date: 10/09/22 To	No.of Weeks:
WEEK	Class Day		Theory Topics	
	1st	Introduction to Tacheometry.		
	2nd	Defining of stadia & its principle.		
1 parami	3rd	Explaining of diaphragm, reticules of tacheometer.		
	4th	Explaining of tacheom	eter, instruments constants.	
	5th	TOUR TO PERSON THE		
2	1st	Finding of height & distance from stadia intercepts.		
	2nd	Finding of height & distance from stadia intercepts.		
	3rd	Finding of height & distance from tangential system method.		
	4th	Finding of height & dis	tance from tangential system method.	
	5th	TO VALLEY		
3	1st	Finding of height & distance from movable hair method.		
	2nd	Introduction to Triangulation and Trilateration.		
	3rd	Purpose & principle involved in triangulation & trilateration method.		
	4th	Purpose & principle involved in triangulation & trilateration method.		
	5th			

WEEK	Class Day	Theory Topics	
1000	1st (12.0)	Classification various methods of triangulation survey primary, secondary & tertiary colliery triangulation.	
4	2nd	Classification various methods of triangulation survey primary, secondary & tertiary colliery triangulation.	
	3rd	Explanation to Development concept about reconnaissance survey.	
	4th	Description methods of measuring angle, types of theodolite used in triangulation survey.	
	5th		
5	1st	Description methods of measuring angle, types of theodolite used in triangulation survey.	
	2nd	Discussion of methods of base line measurement using E.D.M.	
	3rd	Discussion of methods of base line measurement using E.D.M.	
	4th	Defining tape correction.	
	5th		
G	1st	construction of triangulation station of permanent nature.	
	2nd	construction of triangulation station of permanent nature.	
	3rd	Description to single unit and double unit face.	
	4th	Description to single unit and double unit face.	
	5th		

WEEK	Class Day	Theory Topics	
7	1st	Introduction to Correlation of surface and underground survey.	
	2nd	Description to direct correlation by traversing.	
	3rd	Description to direct correlation by Optical method	
	4th	Description of orientation by wires in two shafts.	
	5th		
	1st	Description of orientation by wires in two shafts.	
8	2nd	Explaination of correlation by mines in vertical shafts.	
	3rd	Explaination of correlation by mines in vertical shafts.	
	4th	Discussion to co-planning/ alignment method.	
	5th		
9	1st	Discussion to weissbach triangle weis-quadrilateral methods.	
	2nd	Discussion to precise magnetic correlation.	
	3rd	Introduction to Setting out curves & elements of curves.	
	4th	Defining designation of curves, simple, compound & reverse curves.	
	5th	Contract State on the State of the Contract	

Theory Topics

Defining designation of curves, simple, compound & reverse curves.

Explain setting out of surface & underground curves by chords & offsets, chords and angle.

Explain setting out of surface & underground curves tangent and offset, plate layers method.

Description of various setting out by chain & one theodolite, two theodolites.

Defining of super elevation, transition and vertical curves.

Defining of super elevation, transition and vertical curves.

Introduction to Stope Surveying.

WEEK

10

11

12

**Class Day** 

1st

2nd

3rd

4th

5th

1st

3rd

4th

5th

1st

2nd

3rd

4th

5th

Explaination to tape instrumental survey.

Explaination to tape triangulation survey.

Preparation of stope planes, plotting the stope station, plotting of stope

Determining of stope face.

WEEK	Class Day	Theory Topics	
13	1st	Preparation of stope planes, plotting the stope station, plotting of stope face to the mine plan.	
	2nd	Finding area of extraction by Planimeter and calculation of triangle thereof	
	3rd	Finding area of extraction by Planimeter and calculation of triangle thereof	
	4th	Explaining the basic principles of global positioning system & total station.	
	5th		
WATER	1st 23	Explaining the basic principles of global positioning system & total station.	
	2nd	Introduction to DGPS.	
14	3rd	Introduction to DGPS.	
	4th	Aptro Alfreda, a comparamento a la paramento de la paramento d	
	5th	Zenstrativ (19) that je Scriptoples (Aralla Araba) karaba, kar	
Albania Wilder	1st		
	2nd	To ale man il repaise primitale en picante communication de la com	
15	3rd	And the state of t	
	4th	THE DESIGNATION OF THE PARTY OF	
	5th		