

Dicipline:	mining	Semester: 4th	Name of the Teaching Faculty: Dharmasree Behera.	
Subject:	mine surveying	No of Days/Week Class Allotted: _____	Semester From date: 13/02/23 To date: 03/03/23	No. of Weeks:
WEEK	Class Day	Theory Topics		
1st	1st	Tacheometry Introduction,		
	2nd	define station & its principle.		
	3rd	Explanation of diagram		
	4th	theodolites, tachometer, Instruments constants,		
	5th			
2nd	1st	Find out height and distance from stadia intercepts.		
	2nd	tangential systems, movable hair method.		
	3rd	" "		
	4th	Triangulation & trilateration.		
	5th			
3rd	1st	state purpose of triangulation & trilateration.		
	2nd	principle involved in triangulation and trilateration method.		
	3rd	" "		
	4th	classify various methods of triangulation survey primary secondary.		
	5th			

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WEEK	Class Day	Theory Topics
4 <sup>th</sup>	1st	Tertiary collinear triangulation.
	2nd	Develop concept about resection and survey.
	3rd	Describe method of measuring angles.
	4th	Types of theodolite used for triangulation in survey.
	5th	
3 <sup>th</sup>	1st	Describe the method of base line measurement using E.O.M.
	2nd	Define tape correction.
	3rd	State construction of triangulation stations of permanent nature.
	4th	" "
	5th	
6 <sup>th</sup>	1st	Correlation of surface and underground survey in the section.
	2nd	State direct correlation by traversing.
	3rd	Optical method by traversing.
	4th	Describe orientation by wires for two shaft.
	5th	

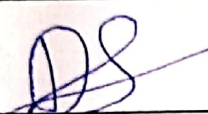
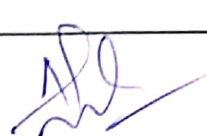
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WEEK	Class Day	Theory Topics		
7 <sup>th</sup>	1st	EXPLAIN correlation.		
	2nd	Correlation by minor vertical shafts.		
	3rd	state co-planning / alignment, Weisbach triangle, well-illustrated method.		
	4th	Precise magnetic correlation.		
	5th			
8 <sup>th</sup>	1st	Setting out curves Introduction.		
	2nd	State elements of curves.		
	3rd	define designation of curves.		
	4th	Simple, compound and reversed curves.		
	5th			
9 <sup>th</sup>	1st	EXPLAIN setting out of surface and underground curves by chords and offsets,		
	2nd	chord and angle, tangent and offset, plate layer method.		
	3rd	Describe various setting out by chain, and one theodolite two theodolites,		
	4th	" "		
	5th			

# Theory Topics

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WEEK	Class Day	Topic
10th	1st	define super elevation,
	2nd	transition and vertical curves,
	3rd	Stope surveying Introduction,
	4th	explain tape triangulation,
	5th	
11th	1st	Instrumental survey.
	2nd	determine stope face,
	3rd	state preparation of stope plan,
	4th	Plotting the stope station, plotting of stope face to the mine plan,
	5th	
12th	1st	find out area of excavator by planimeter
	2nd	calculation of triangle thereof.
	3rd	C.P.S and total station. Introduction,
	4th	explain the basic principles of global positioning system and total station,
	5th	

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WEEK	Class Day	Theory Topics		
13 <sup>th</sup>	1st	”		
	2nd	Introduction to DAPS.		
	3rd			
	4th	 		
	5th			
	1st			
	2nd			
	3rd			
	4th			
	5th			
	1st			
	2nd			
	3rd			
	4th			
	5th			