

Dicipline:	Mining	Semester: 3rd	Name of the Teaching Faculty: Mukesh Beneria,	
Subject:	mine surveying-D	No of Days/Week Class Allotted: _____	Semester From date: 13/09/22 To date 18/01/22	No. of Weeks:
WEEK	Class Day	Theory Topics		
From 13/09/22 to 18/09/22	1st	Chain survey, conventional signs, abbreviations standards of writing, drawings & symbols.		
	2nd	Selection of scale to be used for surveying.		
	3rd			
	4th			
	5th			
From 19/09/22 to 24/09/22	1st	Ranging & chaining of a line & errors for chaining.		
	2nd	Study the obstructions while chaining along a sloping ground.		
	3rd	Use of optical square and line range & checking the accuracy of optical.		
	4th	Description of offsets and their measurements.		
	5th			
From 28/09/22 to 01/10/22	1st	Reference sketches of stations, principle of chain surveying.		
	2nd	Procedure of chain surveying, surveying equipment.		
	3rd	Field booking & plotting of chain survey.		
	4th	Compass survey, Prismatic compass, its adjustments and use.		
	5th			

WEEK	Class Day	Theory Topics
from 10/10/22 to 13/10/22	1st	True meridian, magnetic meridian, grid line meridian and arbitrary meridian
	2nd	N.C.B & Q.B & conversion from one to other.
	3rd	Fore & Back bearings & their conversion, angles from bearing and bearing angles
	4th	Local attraction and necessary correction to the bearing.
	5th	
from 14/10/22 to 22/10/22	1st	Closed and open compass surveying and its plotting.
	2nd	procedure of field bearing in compass & chain traverse.
	3rd	Adjustment of closing error in compass traverse.
	4th	Surveyor compass: construction of dial, its adjustment and use.
	5th	
from 24/10/22 to 29/10/22	1st	Comparison of Prismatic compass with the surveyor compass
	2nd	Introduction to plane table surveying & its application.
	3rd	Explanation of two point problem.
	4th	procedure of plane table surveying.
	5th	


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WEEK	Class Day	Theory Topics		
From 01/11/22 to 05/11/22	1st	EXplanation of three point problems		
	2nd	It's solution by tracing paper method		
	3rd	Advantages of Plane table		
	4th	Disadvantages of Plane table.		
	5th			
From 07/11/22 to 12/11/22	1st	computation of areas (Introduction).		
	2nd	Methods of determining areas.		
	3rd	Find out areas from offset to a base line using.		
	4th			
	5th			
From 14/11/22 to 19/11/22	1st	Mid ordinate rule		
	2nd	Average ordinate rule		
	3rd	Trapezoidal rule		
	4th	Simpson's rule.		
	5th			



WEEK	Class Day	Theory Topics
From 24/11/22 to 26/11/22	1st	compute area by planimeter and from graph paper.
	2nd	Leveling (Introduction)
	3rd	Benchmark M.S.L. dummy level.
	4th	Adjust dummy level.
	5th	
From 28/11/22 to 03/12/22	1st	Modern level (Auto level)
	2nd	Precise staff
	3rd	Methods of leveling
	4th	Rise & fall method
	5th	
From 05/12/22 to 01/12/22	1st	Height of instrument
	2nd	Error in ordinary leveling.
	3rd	Reciprocal leveling, subsidence leveling.
	4th	Setting out gradient, trigonometrical leveling.
	5th	

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WEEK	Class Day	Theory Topics		
From 12/12/22 to 17/12/22	1st	Geometrical leveling & physical leveling.		
	2nd	one reserved, classification of reserves		
	3rd	evaluate reserves by exsperatory		
	4th	Primary one reserve by material balance method.		
	5th			
From 19/12/22 to 22/12/22	1st	Selling curve method		
	2nd	Temporary & permanent adjustment of theodolite.		
	3rd	Principles of operation & describe diff? parts.		
	4th	Horizontal & vertical angles.		
	5th			
From 02/01/23 to 07/01/23	1st	setting of the instrument		
	2nd	traversing with theodolite.		
	3rd	Selling curve method		
	4th	Principles of theodolite.		
	5th			

WEEK	Class Day	Theory Topics
From 09/11/23 to 14/01/23	1st	operation & describe different parts of theodolite.
	2nd	measuring horizontal angle of theodolite.
	3rd	measuring vertical angles of theodolite.
	4th	
	5th	
From 16/01/23 to 20/01/23	1st	setting of theodolite.
	2nd	Traversing with theodolite.
	3rd	Review class
	4th	Doubt clear class
	5th	
	1st	
	2nd	
	3rd	
	4th	
	5th	