

SYNERGY POLYTECHNIC, BBSR

The Lesson Plan

Discipline: MNE	Semester: 4th	Name of the Teaching Faculty: Srikant Mallick
Subject: Mine Survey - II	No of Days/per week class allotted:	Semester from Date: 16-01-24 to Date: 26-04-24 No of Weeks:
Week	Class Day	Theory/Practical Topics
1st	1st	
	2nd	Tachymetry :-
	3rd	Define stadia, its principle
	4th	Explain diaphragm, reticule, tachometer
	5th	instrument constant
2nd	1st	Find out height & distance from stadia
	2nd	intercepts, tangential system etc
	3rd	-do-
	4th	-do-
	5th	-do-
3rd	1st	
	2nd	-do-
	3rd	-do-
	4th	State purpose & principle involved in
	5th	triangulation, trilateration method
4th	1st	
	2nd	Various method of prime, secondary,
	3rd	tertiary collery triangulation
	4th	Describe concept about reconnaissance
	5th	-do-
5th	1st	
	2nd	Method of measuring angle, type of
	3rd	theodolite used in triangulation survey.
	4th	Tape correction
	5th	Base line measurement E.D.M

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Srikant Mallick
Principal 16/1/24

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8th 1st	1st	
	2nd	Correlation of surface and ulg surface
	3rd	Traversing and optical method
	4th	-do-
	5th	-do-
7th 2nd	1st	
	2nd	Orientation by wire in two shaft
	3rd	-do-
	4th	Explain correction by minen in vertical shaft.
	5th	
8th 3rd	1st	
	2nd	Precise magnetic correlation, co-planning,
	3rd	weissbach triangle
	4th	Setting Out Curves :-
	5th	Element of curves
9th 4th	1st	
	2nd	Define designation of curve, simple,
	3rd	compound, reserve,
	4th	Explain setting out of surface & ulg curve
	5th	by chords, angle, tangent, offset etc
10th 5th	1st	
	2nd	Describe various setting out by chain
	3rd	one theodolite two theodolite
	4th	-do-
	5th	-do-

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11th 1st	1st	
	2nd	Stope Surveying:-
	3rd	Explain type triangulation, Instrumental
	4th	survey
	5th	-do-
12th 2nd	1st	
	2nd	Determine Stope face, Separation of
	3rd	stope planes, plotting the stope station etc
	4th	-do-
	5th	-do-
13th 3rd	1st	
	2nd	find out area of extraction by planimeter
	3rd	and calculation.
	4th	G.P.S & Total Station
	5th	-do-
14th 4th	1st	
	2nd	-do-
	3rd	-do-
	4th	-do-
	5th	-do-
5th	1st	
	2nd	
	3rd	
	4th	
	5th	

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[Signature]
Principal