

LESSON PLAN(WINTER-2023), MINE SURVEY LAB(3rd Sem)

Branch: DRILLING ENGINEERING				Faculty:- R.K. Ray			
Subject: Mine Survey (Fr-03)			Total Period: 64 week: 19		Total	End Sem exam:50	Internal assesment:25
Session: 01.08.2023 TO 30.11.23 Available Classes:69 (Practical)							
Month	Week	Date	Period	Topics to be covered		Allredy coveed	Remark
August	1st			Measurement of Distance			
		01.08.23	2P	1.1. Enumirate and explain the different measuring instrument used for measurement of distance and taking offsets.			
		03.08.23	2P	1.2. Derive the formula for finding out the correct chain lenth in case the measurement with instrument in correct chain/Tape.			
	2nd	08.08.23	2P	1.3. Explain chaining & ranging of a line.			
		10.08.23	2P	1.4. Explain the process of chaning & ranging at a lin due to various obstacles.			
	3rd	17.08.23	2P	1.4 Explain the process of chaning & ranging at a lin due to various obstacles.V			
	4th	22.08.23	2P	1.5. State the offsets and explain taking of offsets.			
				Compass Survey			
		24.08.23	2P	1.1. Explain the prismatic compass			
		29.08.23	2P	1.1. Explain the prismatic compass and it's adjustments and use.			
	31.08.23	2P	1.2. State the reference direction employed for compass surveying.(1 st Class Test)				
September	1st	05.09.23	2P	State and explain different bearing.			
		07.09.23	2P	State and explain different bearing.			
	2nd	12.09.23	2P	Explain the process of conversion of W.C.B to QB to W.C.B			
		14.09.23	2P	Explain the computation of angles from bearings and bearing from angles.			
	3rd	21.09.23	2P	Explain local attraction and it's determination as correction to the bearings.			
	4th	26.09.23	2P	Explain closed and open traversl and it's bearing.			
		28.09.23	2P	Explain the procedure of reconnaissance and fird booking for compass survey.			
	5th			2nd Class Test			
October	1st	03.10.23	2P	Explain the process of adjustment of closing error & compass surveing			
		05.10.23	2P	State the computation of areas by Geometry & Co- ordinates.			
	2nd			Levelling			
		10.10.23	2P	3.1 Defin the following;Level line,Horizontal plane, Ptrizontal line, Vertical line,Datum surface.			
		12.10.23	2P	Everation of points,difference in elevation ,Benchmark ,B.S, E.S.I.S.			
				Internal Assessment			
	3rd	17.10.23	2P	C.P station & H.I.			
	4th	26.10.23	2P	Explain the construction of a dumpy level with neat sketch.			
31.10.23		2P	Explain the staff,their types & use.				
November	1st	02.11.23	2P	Explain the adjustment of dumpy level for taking staff deading.			
	2nd	07.11.23	2P	Explain the staff obs explain the method of levelling			
		09.11.23	2P	Explain the rise & fall method of levelling.			
	3rd			3rd Class Test			
		14.11.23	2P	Explain how the fluied R.L of a point. Explain how to plot level section			
		16.11.23	2P	Explain how to measure the cutting & filling from level section.			
	4th			Conturing			
		21.11.23	2P	4.1. What do you mean by conntouring & explain contouring			
				4.2. State the charcterstics of conten lines.			
	5th	23.11.23	2P	4.3. State the use of contour plan explain inter polation of contourgradient			
			Calculation of Ore Resurver				
28.11.23		2P	5.1. Explain the process of estimation of one ore reserves by exploratory drilling.				
	30.11.23	2P	5.2 Explain the process of estimation by primary ore resurvers by materal balance method and decl				

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Branch: DRILLING ENGINEERING, 3rd Semester				Faculty:- R.K. Ray		
Subject: Mine Survey Lab (Pr-03)			Total Period: 90 Total week: 17		End Sem exam:50	Internal assesment:25
Session: 02.08.2023 TO 29.11.23 Available Classes:90 (Practical)						
Month	Week	Date	Perlod	Topics to be covered	Allredy coveed	Remark
August	1st	02.08.23	3P	Survey Conventional Signs,abbreviations, and colors used.		
				Chain Survey		
		04.08.23	3P	a.Ranging and chaining of a line more then 200 m applying correction.		
	2nd	09.08.23	3P	b.Taking offsets of objects on both sides of a line and booking field notes.		
		11.08.23	3P	c.Plotting the above details.		
	3rd	16.08.23	3P	d.Overcoming obstructions in chaining.		
		18.08.23	3P	e.Vision free, chaining obstructed (Pond,River).		
	4th	23.08.23	3P	f.Chaining free , vision obstructed (Rising ground).		
25.08.23		3P	Monthly P.T			
September	1st	01.09.23	3P	g.Both vision and chaining obstructed (Building).		
	2nd			Compass Survey		
		08.09.23	3P	a. Finding bearing of line and applying check.		
	3rd	13.09.23	3P	b. Closed traversing of a small plot with station (without intermediate filling).		
		15.09.23	3P	c. Open traversing of a small length with few stations (whitout offset).		
	4th	22.09.23	3P	d. Open traversing of small length with few stations (with offset).		
October	1st	27.09.23	3P	Monthly P.T		
		04.10.23	3P	e. Closed traversing of small plot with stations (with intrmediate filling).		
	2nd	06.10.23	3P	e. Closed traversing of small plot with stations (with intrmediate filling).		
		11.10.23	3P	e. Closed traversing of small plot with stations (with intrmediate filling).		
		13.10.23	3P	f. Plotting both the above traverses applying correction.		
	3rd	18.10.23	3P	f. Plotting both the above traverses applying correction.		
20.10.23		3P	f. Plotting both the above traverses applying correction.			
November	1st			Leveling		
		01.11.23	3P	a. Temporary and permanent adjustments, sensitivity of bubble tube.		
		03.11.23	3P	a. Temporary and permanent adjustments, sensitivity of bubble tube.		
	2nd	08.11.23	3P	b. Preparing of level or staff reading and practicing reading of staff with level.		
		10.11.23	3P	b. Preparing of level or staff reading and practicing reading of staff with level.		
	3rd	15.11.23	3P	c. Preparation of a level section spot and leveling.		
		17.11.23	3P	c. Preparation of a level section spot and leveling.		
	4th	22.11.23	3P	d. Preparation of level section spot and contouring.		
		24.11.23	3P	d. Preparation of level section spot and contouring.		
	5th	29.11.23	3P	d. Preparation of level section spot and contouring.		


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15-9-23
PRINCIPAL
Orissa School of Mining Engineering
KEONJHAR