GOVERNMENT POLYTECHNIC JAJPUR

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DEPARTMENT	OF	MINING	ENGINEERING

in and		LESSON DI ANI				
Disciplin		<u>LESSON PLAN</u>				
e:	Semester:4th	Name of the Teaching faculty:SOUMYA RANJAN SAMAL				
MINING						
Subject:	No of	Somoston from D. 1. 10/0/o				
MINE	Days/Week	Semester from Date: 10/3/22 To Date: 1 No of weeks: 16	0/04/22			
SURVEY -	class alloted:	. I- ×-1	ended upto			
II	4		tended upto 30/6/22			
Week	Class Day		3010122			
	1st	Define stadia & its principle				
1st	2nd	Define stadia & its principle				
	3rd	Explain diaphragm.				
	4th	Explain reticules.				
	1st					
	2nd	Explain dtacheometer.				
2nd	3rd	Explain instruments constants.				
	4th	Find out height & distance from stadia intercepts method				
	1st	Find out height & distance from tangential systems.	u- Jako			
	2nd	Find out height & distance from movable hair method.				
3rd	3rd	State purpose & principle involved in triangulation method.				
	4th	State purpose & principle involved in trilateration method	l			
	1st	Classify various methods of triangulation. Explain primary triangulation.				
	2nd	Explain triangulation.				
4th	3rd	CLASS TEST-I				
	4th	Explain tertiary colliery triangulation.	reduction of the second of the			
	1st	Develop concept about reconnaissance survey.				
	2nd	Describe methods of measuring angle.				
5th	3rd	Types of theodolite used in triangulation survey.	1.800 (1985)			
}	4th	Describe the methods of base line measurement using E.D.) A 4			
6th	1st	Describe the methods of base line measurement using E.D.	D.IVI.			
	2nd	Define tape correction.	J.IVI.			
	3rd	State construction of triangulation station of permanent r				
	4th	State construction of triangulation station of permanent r	nature.			
	1st	State direct correlation by traversing methods.	lature.			
7th -		State direct correlation by optical methods.				
	3rd	Describe orientation by wires in two shafts				
		Explain correlation by mines in vertical shafts.				
		Explain correlation by mines in vertical shafts.				
8th		INTERNAL -I				
		INTroduction to DGPS.				
İ	4th	Describe weissbach triangle weis-quadrilateral methods.				
		Explain precise magnetic correlation.				
Out-		State elements of curves.				
9th		Define designation of curves, simple curves.				
		Define designation of curves, compound & reverse curves.				
		L				

	1st	Explain setting out of surface & underground curves by chords & offsets.		
10th 2nd 3rd		Explain setting out of surface & underground curves by tangent and offset. Explain setting out of surface & underground curves by plate layers method.		
11th	1st	Describe various setting out by chain.		
	2nd	Describe various setting out by one theodolite.		
	3rd	Describe various setting out by one theodolite.		
	4th	Describe various setting out by chain two theodolites.		
1st		CLASS TEST-II		
12th 2nd 3rd 4th	2nd	Describe various setting out by chain two theodolites.		
	3rd	Define super elevation, transition and vertical curves		
	4th	Define super elevation, transition and vertical curves		
1st 2nd	1st	Explain tape triangulation, instrumental survey.		
	2nd	Explain instrumental survey.		
3rd		Determine stope face.		
4th	4th	Determine stope face.		
14th 2nd	1st	State preparation of stope planes.		
	2nd	State plotting the stope station.		
	3rd	INTERNAL-II		
	4th	State plotting of stope face to the mine plan.		
15th 2	1st	Find out area of extraction by Planimeter and calculation of triangle thereof		
	2nd	Explain the basic principles of global positioning system		
	3rd	Explain the basic principles of global positioning system		
	4th	Explain the basic principles of total station.		
	1st	Explain the basic principles of total station.		
16th	2nd	Introduction to DGPS.		
2001	3rd	previous year question disscussion		
	4th	Previuos year questions, quiz		

Title of the Book	Name of Authors
Surveying Vol I	E.Mason
Surveying and Levelling	T.P. Kanetkar
Geodetic Surveying Vol I	David Clerk
Mineral Economics	Sinha & Sharma
	Surveying Vol I Surveying and Levelling Geodetic Surveying Vol I

Saunya Rayan Samul Signature of Faculty