1		DEPARTMENT OF MINING ENGINEERING LESSON PLAN				
Discipl	in	OF MINING FNOWERFALLS				
	Sem:4Th	LESSON PLAN				
MINING	3	Name of the Teaching faculty: BINAY MOHAPATRA				
Subject		Semester from December 1				
UNDER OUND	GR Days/W	Semester from Date:16/01/24 To Date:26/04/24 No of weeks:15				
COAL	e k class	. weeks.19				
MINING	alloted:4					
Weel	Week Class Day					
1st	1st	Define mine and different block				
	2nd	Define mine and different methods of mining Classify Undergown I Could be stated to the stated of t				
	3rd	Classify Undergound Coal Mining Methods Describe the waring the difference of the d				
	4th	Describe the various application of Bord &Pillar method				
	İst	The various igvouts of bold Arillal Highligh				
	2nd	Describe depillaring method with stowing				
2nd	3rd	Describe depillaring method with caving				
	-	State precautions against fire during and after depillaring				
	- 4th	State precautions against water during and after depillaring				
	1st	State and describe various machineries used in working face				
3rd	2nd	State and describe various machineries used in working face State and describe various machineries used in working face				
	3rd	Define contigeous seam. Describe working of contiguous seams				
	.4th	Describe working of come above graved out area				
	1st	Describe working of seams above goaved out area Describe working of seams below goaved out area				
r4th	2nd					
	3rd	CLASS TEST -I State advantages and disadvantages of Bord &Pillar method				
	,4th	Describe Longwall advancing methods.				
	1st	Describe Longwall retreating methods.				
5th	2nd	Define single unit and double unit face.				
	^ 3rd	Describe cyclic I/W layouts.				
	4th_					
	1st	Describe more prized longwall working with armoured flexible conveyor,				
		Describe non-cyclic L/W layouts. Describe mechanized longwall working with armoured flexible conveyor, shield support and shearer loader				
6th	2nd	- I I N M OM LO O CLOT				
	3rd	shield support and shearer loader Describe mechanized longwall working with armoured flexible conveyor				
	4H	Define Thick seams.				
	1st	Classify Thick seam Mining.				
\wedge	2nd	Describe layouts of horizontal slicing.				
7±h	3rd	Describe layouts of incline slicing				
		Describe layouts blasting gallery.				
	4th	Describe layouts sublevel caving.				
8th	1st	WITEDMAL 1				
	2nd	Litiana At HOU / OH IVIIIII IV.				
	3rd	Otate advantages disadvantages of Horizon Willing				
		State limitations of Horizon Milling.				
	1st	Describe the layout of Horizon Mining.				
		Describe hydraulic stowing				
9th	3rd	Describe flydraulio oco milg				

1	4th	Describe Pneumotic			
1	1st	State properties of			
	2nd	Describe Drawing of Various to			
10th	3rd	State properties of various types of roof &roof behavior Describe Pressure arch theory in B&P. Describe testing of roof. Classify support system in the control of the c			
1	Gui				
	1st	Classify support of roof.			
	/ 2nd	Classify awards in Mines constant			
11th	3rd	Classify support system in Mines construction. Classify support system in Mines construction.			
	4th	I I I I I I I I I I I I I I I I I I I			
	1st	Class are load bearing capacity assessment of support system			
10th	2nd				
12th	3rd	- Stiffe diligie of draw State (
	4th	Define critical area of extraction.			
		bescribe the factors affecting subsidence			
	1st	State &describe precautionary measures against damage due to			
13th	2nd	State &describe precautionary measures against damage due to subsidence			
	3rd	Define shaft pillar,Describe vertical shaft			
	4th	Describe inclined shaft.			
	1st	Determine shape and size of shaft			
14th	2nd	Determine location of shaft.			
1401	3rd	INTERNAL -II			
	4th	Describe sinking through normal ground, State shaft plumbing.			
	1st	Describe sinking through difficult ground.			
	2nd	Describe cementation method.			
15th	3rd	Describe freezing Method.			
	4th	Explain mechanized shaft sinking.sinking upward,widening and deepening of shafts.			

los NO	Title of the Book	Name of Authors
\$1.NO		S.Mathur
1	Coal Mining	D.J.Deshmukh
2	EMT VOL I,II	D.J.Destilliakii
-	Modern Coal Mining	SK.Das
3	Advanced Coal Mining	RT Deshmukh &B.Borovjev
4	Advanced Godi Willing	
5	UMS	lis s Peng
6	Coal Mine Ground Control	IS 5 Felig
	SME Mining Engg.Handbook	
7		Jermic
8	Strata Contro	

23.1.24 Signature of Faculty