


LESSON PLAN
SESSION-SUMMER-2024

SWAMI VIVEKANANDA SCHOOL OF ENGG. & TECH. BBSR			
			
DISCIPLINE- MINING ENGG.	SEMESTER- 4TH	NAME OF THE FACULTY-ER. Pravanjan Behera	REMARK
SUBJECT- UG COAL	NO.OF CLASS ALOTTED/ WEEK-4	SEMESTER FROM-16.01.2024-26.04.2024	
WEEK	DATE	TOPICS	
1ST	16.01.2024	Introduction to Underground Coal Mining	
	17.01.2024	Define mine and different methods of mining.	
	18.01.2024	Classify Underground Coal Mining Methods.	
	19.01.2024	Describe the various application of Bord & Pillar method.	
2ND	22.01.2024	Describe various layouts of Bord & Pillar method.	
	23.01.2024	Describe depillaring method with stowing and caving.	
	24.01.2024	State precautions against fire and water during and after depillaring.	
	25.01.2024	State and describe various machineries used in working face.	
3RD	29.01.2024	Define contigeous seam.	
	30.01.2024	Describe working of contiguous seams.	
	31.01.2024	Describe working of seams above and below goaved out area.	
	01.02.2024	State advantages and disadvantages of Bord & Pillar method.	
4TH	02.02.2024	DOUBT CLASS.	
	05.02.2024	MOCK TEST	
	06.02.2024	Describe Longwall advancing and retreatting methods.	
	07.02.2024	Define single unit and double unit face.	
5TH	08.02.2024	Describe cyclic and non-cyclic L/W layouts.	
	09.02.2024	Describe mechanized longwall working with armoured flexible conveyor.	
	12.02.2024	Describe Shield support and shearer loader.	
	13.02.2024	DOUBT CLASS.	
6TH	15.02.2024	MOCK TEST.	
	16.02.2024	Define Thick seams.	
	19.02.2024	Classify Thick seam Mining.	
	20.02.2024	Describe layouts of horizontal slicing, incline slicing.	
7TH	21.02.2024	Describe layouts of blasting gallery and sublevel caving.	
	22.02.2024	State conditions, advantages, disadvantages and limitations of Horizon Mining.	
	23.02.2024	Describe the layout of Horizon Mining.	
	26.02.2024	Mock test.	
8TH	27.02.2024	Doubt class.	
	28.02.2024	Describe hydraulic stowing.	
	29.02.2024	Describe Pneumatic stowing.	
	01.03.2024	State properties of various types of roof & roof behavior.	
	04.03.2024	State Pressure arch theory in B&P and longwall working.	

9TH	06.03.2024	Describe testing of roof.	
	07.03.2024	Classify support system in Mines construction, principle of operation application and load bearing capacity assessment.	
	11.03.2024	Doubt class.	
10TH	12.03.2024	Mock test.	
	13.03.2024	Define angle of draw & State factors of subsidence, critical area of extraction.	
	14.03.2024	Describe the factors affecting subsidence.what is shaft pillar.	
	15.03.2024	State & describe precautionary measures against damage due to subsidence	
11TH	18.03.2024	Describe vertical shaft and inclined shaft; determine shape and size of shaft.	
	19.03.2024	Location of shaft. Describe sinking through normal ground. State shaft plumbing.	
	20.03.2024	Describe sinking through difficult ground, cementation, freezing method.	
	21.03.2024	Describe mechanized shaft sinking.	
12TH	22.03.2024	Describe sinking upward, widening and deepening of shafts.	
	27.03.2024	Previous year question & answer solve.	
	28.03.2024	Doubt class.	
	29.03.2024	Mock test.	

PRINCIPAL
Swami Vivekananda School of Engg. & Tech
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H.O.D.