


LESSON PLAN

SESSION-SUMMER-2023

 SWAMI VIVEKANANDA SCHOOL OF ENGG. & TECH. BBSR			
DISCIPLINE- MINING ENGG.	SEMESTER- 4TH	NAME OF THE FACULTY-ER. JAGAN KHATOI	REMARK
SUBJECT- UG COAL	NO.OF CLASS ALOTTED/ WEEK-4	SEMESTER FROM-20.02.2023	
WEEK	DATE	TOPICS	
1ST	20.02.2023	Introduction to Underground Coal Mining	
	21.02.2023	Define mine and different methods of mining.	
	22.02.2023	Classify Underground Coal Mining Methods.	
	23.02.2023	Describe the various application of Bord & Pillar method.	
2ND	24.02.2023	Describe various layouts of Bord & Pillar method.	
	25.02.2023	Describe depillaring method with stowing and caving.	
	27.02.2023	State precautions against fire and water during and after depillaring.	
	28.02.2023	State and describe various machineries used in working face.	
3RD	01.03.2023	Define contigeous seam.	
	02.03.2023	Describe working of contiguous seams.	
	04.03.2023	Describe working of seams above and below goaved out area.	
	06.03.2023	State advantages and disadvantages of Bord & Pillar method.	
4TH	07.03.2023	DOUBT CLASS.	
	10.03.2023	MOCK TEST	
	13.03.2023	Describe Longwall advancing and retreating methods.	
	14.03.2023	Define single unit and double unit face.	
5TH	18.03.2023	Describe cyclic and non-cyclic L/W layouts.	
	20.03.2023	Describe mechanized longwall working with armoured flexible conveyer.	
	24.03.2023	Describe Shield support and shearer loader.	
	27.03.2023	DOUBT CLASS.	
6TH	28.03.2023	MOCK TEST.	
	29.03.2023	Define Thick seams.	
	30.03.2023	Classify Thick seam Mining.	
	03.04.2023	Describe layouts of horizontal slicing, incline slicing.	
7TH	05.04.2023	Describe layouts of blasting gallery and sublevel caving.	
	06.04.2023	State conditions, advantages, disadvantages and limitations of Horizon Mining.	
	08.04.2023	Describe the layout of Horizon Mining.	
	10.04.2023	Mock test.	
8TH	11.04.2023	Doubt class.	
	12.04.2023	Describe hydraulic stowing.	
	13.04.2023	Describe Pneumatic stowing.	
	14.04.2023	State properties of various types of roof & roof behavior.	
	15.04.2023	State Pressure arch theory in B&P and longwall working.	

9TH	17.04.2023	Describe testing of roof.	
	19.04.2023	Classify support system in Mines construction, principle of operation application and load bearing capacity assessment.	
	20.04.2023	Doubt class.	
10TH	24.04.2023	Mock test.	
	25.04.2023	Define angle of draw & State factors of subsidence, critical area of extraction.	
	27.04.2023	Describe the factors affecting subsidence.what is shaft pillar.	
11TH	29.04.2023	State & describe precautionary measures against damage due to subsidence	
	01.05.2023	Describe vertical shaft and inclined shaft; determine shape and size of shaft.	
	04.05.2023	Location of shaft. Describe sinking through normal ground. State shaft plumbing.	
	05.05.2023	Describe sinking through difficult ground, cementation, freezing method.	
12TH	06.05.2023	Describe mechanized shaft sinking.	
	08.05.2023	Describe sinking upward, widening and deepening of shafts.	
	09.05.2023	Previous year question & answer solve.	
	10.05.2023	Doubt class.	
	13.05.2023	Mock test.	

Principal

PRINCIPAL

Swami Vivekananda School of Engg. & Tech.
Madanpur, BBSR

Dean Academics

H.O.D.

A. K. Panigrahi
HOD (Mining Engg/Tr. & Pl.)
SVSE & T, Madanpur-752054
Bhubaneswar, Dist.-Khurda, Odisha