

LESSON PLAN
SESSION-SUMMER-2022

SWAMI VIVEKANANDA SCHOOL OF ENGG. & TECH, BBSR

DISIPLINE-MINING ENGG.	SEMESTER-4TH	NAME OF THE FACULTY-ER. ANIL KUMAR SAHOO	REMARK
SUBJECT - EEM	NO. OF CLASS ALOTTED/ WEEK-4	SEMESTER FROM -14.03.2022	
WEEK	DATE	TOPICS	
1ST	14.03.2022	Introduction session on EEM.	
	15.03.2022	Classify cables for mining use	
	16.03.2022	Constructional features of high tension & low-tension cables armored & trailing cable.	
	17.03.2022	State size of cables & their use.	
2ND	18.03.2022	State procedures of cable laying at surface, underground roadway & in shafts.	
	21.03.2022	Describe cable joint box mining type.	
	22.03.2022	What is a Fuses & Fuse Materials.	
	23.03.2022	Rewireable Fuse, HRC Fuse & Uses of Fuse.	
3RD	24.03.2022	Describe & Explain Air Circuit Breaker	
	25.03.2022	Describe & Explain Air Circuit Breaker	
	26.03.2022	Describe & Explain Minimum Oil Circuit Breaker (MOCB).	
	28.03.2022	Describe & Explain Bulk Oil Circuit Breaker (BOCB).	
4TH	29.03.2022	Describe & Explain Air Blast Circuit Breaker.	
	30.03.2022	Describe SF6 Circuit Breaker.	
	02.04.2022	Explain essential qualities of a good protective system.	
	04.04.2022	State & describe types of relays (plunger, induction & direction over current.	
5TH	06.04.2022	Over loads, no volt and latching relay, frequency relay and Earth leakage relay	
	07.04.2022	Describe protection of transformer by differential relay.	
	08.04.2022	Describe general principle of working-basis remote control circuit.	
	09.04.2022	Various protective devices of Gate-End Box.	
6TH	11.04.2022	Describe functions & operation of drill panel.	
	13.04.2022	Earthing system in mines & Voltage limit.	
	16.04.2022	Fundamentals of Transformer (without numerical problems)	
	20.04.2022	Industrial drives- Mining type	
7TH	23.04.2022	Explain starting & running characteristics of D.C. & A.C. Motors.	
	25.04.2022	State selection of motors for mining use.	
	26.04.2022	Describe & explain regenerative braking.	
	27.04.2022	Describe & explain magnetic braking.	
8TH	29.04.2022	Flame proof & intrinsically safe apparatus	
	30.04.2022	Define flame proof apparatus & intrinsically safe apparatus.	
	02.05.2022	Describe & explain the safety features of flame proof & intrinsically safe	
	04.05.2022	Underground signaling arrangement	
9TH	06.05.2022	Describe signals & shaft signal.	
	07.05.2022	Describe communication system in U/G mines.	
	09.05.2022	Doubt class.	
	11.05.2022	Point to point communication.	

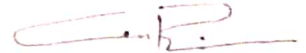
10TH	13.05.2022	Intercom system/Telephone.	
	14.05.2022	Mock test.	
	16.05.2022	Cordless system.	
	17.05.2022	Sensors & their applications.	
11TH	18.05.2022	Battery locomotive, Automation with Thyroster control.	
	20.05.2022	Electrical LHD, Electric mine phone.	
	21.05.2022	Overall discussion.	
	24.05.2022	Previous year question solution.	



Principal



DEAN ACADEMICS



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