



Dicipline:	Wiring	Semester: 4 th	Name of the Teaching Faculty: AJIT KUMAR PANDA	
Subject:	EEM	No of Days/Week Class Allotted: _____	Semester From date: 12/02/23 To date: 23/05/23	No. of Weeks:
WEEK	Class Day	Theory Topics		
1 st	1st	electrical cables for wiring use		
	2nd	insulation cables for wiring use		
	3rd	Conventional features of high tension & low tension cables armors & insulation		
	4th	size size of cables & their use.		
	5th			
2 nd	1st	state procedure of cable laying at site by roadway & on shaft.		
	2nd	Describe cable joint box wiring type.		
	3rd	Protective systems.		
	4th	Fuses & fuse materials.		
	5th			
3 rd	1st	Resettable fuse, HRC fuse.		
	2nd	uses of fuse		
	3rd	Circuit Breakers.		
	4th	Describe & explain Air circuit Breaker		
	5th			

WEEK	Class Day	Theory Topics
4th	1st	Describe & explain minimum oil circuit breaker (MOCB)
	2nd	Describe & explain bulk oil circuit breaker (BOCB),
	3rd	Describe and explain air blast circuit breaker.
	4th	Describe SF ₆ circuit breaker
	5th	
5th	1st	Explain essential qualities of a good protective system.
	2nd	Explain essential qualities of a good protective system.
	3rd	State and describe types of relays (Chungler, induction & direction over current, over load).
	4th	— d o —
	5th	
6th	1st	State and describe types of relays (Chungler, induction & direction over current, over load).
	2nd	Describe protection of transformer by differential relay
	3rd	Describe general principle of working bus & remote control circuit & standard protective.
	4th	— d o —
	5th	

Discipline:		Semester:	Name of the Teaching Faculty:	
Subject:	No of Days/Week Class Allotted: _____	Semester From date: _____ To date _____	No. of Weeks:	

WEEK	Class Day	Theory Topics
7 th	1st	Describe functions and operations of study panel.
	2nd	Earthing system in mines.
	3rd	voltage limit.
	4th	Fundamentals of transformer.
	5th	
8 th	1st	" "
	2nd	Numerical problems
	3rd	Industrial drives - mining type.
	4th	explain starting and running characteristics of D.C and A.C Motors.
	5th	
9 th	1st	" "
	2nd	State selection of motor for mining use.
	3rd	" "
	4th	Electric braking used in mining.
	5th	

WEEK	Class Day	Theory Topics
10 th	1st	Describe and explain regenerative braking.
	2nd	Describe and explain regenerative braking.
	3rd	Flame proof and intrinsically safe apparatus
	4th	Define flame proof apparatus and intrinsically safe apparatus.
	5th	
11 th	1st	Describe and explain the safety features of flame proof and intrinsically safe apparatus.
	2nd	" "
	3rd	Underground signaling arrangement.
	4th	Describe signal and shaft signal.
	5th	
12 th	1st	Describe communication system in UG mines.
	2nd	Point to point communication.
	3rd	Intercom system / Telephone.
	4th	" "
	5th	

Discipline:		Semester:	Name of the Teaching Faculty:	
Subject:	No of Days/Week Class Allotted: _____	Semester From date: _____ To date _____	No. of Weeks:	
WEEK	Class Day	Theory Topics		
18 th	1st	Cordless system.		
	2nd	sensors and their applications.		
	3rd	" "		
	4th	Battery Proximity, Automations with Thyristor control.		
	5th			
14 th	1st	Electrical LHD, Electric Mire phone.		
	2nd	pause of class		
	3rd			
	4th	<div style="display: flex; justify-content: space-around;">   </div>		
	5th			
	1st			
	2nd			
	3rd			
	4th			
	5th			