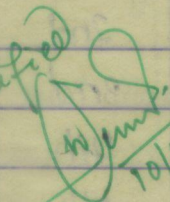


Discipline	Semester	Name of the Teaching faculty
Electrical	6th	Rabindra Patra
Subject	No. of day/week class	Semester from 10/3/2022 to 10/6/2022
SGPD	Approved 06	No. of weeks 14
Weeks	Class Day	Theory / Practical topics :
7.3.22	1st	
	2nd	
10	3rd	
	4th	Introduction to Switchgear: Features and Equipment
	5th	Busbar Arrangement and Accommodation of switchgear
12.3.22	6th	Short circuit
14.3.22	1st	Faults in power system
	2nd	Symmetrical faults in 3 ϕ system.
10	3rd	Limitation of fault current and Percentage Reactance
	4th	_____ Dola Purnima _____
	5th	_____ Dola Purnima / Holi _____
19.3.22	6th	_____ Holi _____
21.3.22	1st	Short-circuit kVA and Reactor Control
	2nd	Location of reactors and steps of symmetrical fault
10	3rd	Problems of symmetrical fault.
	4th	Fuses: Characteristics and element materials.
	5th	Types of fuses & importance terms use in fuses.
26.3.22	6th	Low to high voltage fuse
28.3.22	1st	current carrying capacitor of fuse element
	2nd	Difference between fuse & ckt breaker.
10	3rd	Circuit Breakers: Principle of circuit breaker
	4th	Arc phenomenon & principle of Arc extinction.
	5th	_____ Utkal Divas _____
2.4.22	6th	Methods of Arc Extinction.
4.4.22	1st	Arc voltage, Re-striking voltage & Recovery voltage
	2nd	Classification of circuit breaker
10	3rd	Classification of oil circuit breaker and plain oil ckt breaker
	4th	Arc control in oil ckt breaker and low oil ckt breaker
	5th	Maintenance of oil ckt breaker and vacuum ckt breaker
9.4.22	6th	Arc-Blast circuit breaker & its classification

weeks	class day	Theory / Practical topics
11.4.22	1st	SFC circuit breaker and Switch gear. components
	2nd	Problems of circuit interruption.
to	3rd	Resistance Switching and circuit breaker rating.
	4th	Circuit breaker Rating
	5th	Circuit breaker Rating
16.4.22	6th	Protective Relays. Definition and fundamental req.
18.4.22	1st	Basic relay operation (Electromagnetic)
	2nd	Electromagnetic & Induction type.
to	3rd	Peak-up current, current setting
	4th	Plug setting multiplier & Time setting multiplier
	5th	Classification of functional Relays
23.4.22	6th	Induction type over current & directional relays
25.4.22	1st	Differential relay: current and voltage differential.
	2nd	Type of Protection and protection of alternator
to	3rd	Balanced Earth fault protection.
	4th	Protection systems for transformers.
	5th	Buchholz Relay and protection of Bus bars
30.4.22	6th	Protection of transmission line.
2.5.22	1st	Different pilot wire protection & feeders
	2nd	Protection of feeders
to	3rd	Protection of feeders by overcurrent and earth fault
	4th	voltage surge and cause of over voltage
	5th	voltage surge and cause of over voltage
7.5.22	6th	Internal cause of over voltage
9.5.22	1st	External cause of over voltage
	2nd	Mechanism of lightning discharge
to	3rd	Mechanism of lightning discharge
	4th	Types of lightning strokes
	5th	working of lightning strokes.
14.5.22	6th	Harmon full effect of lightning.

weeks	class	Theory
16.5.22	1st	— Buddha Purnima —
	2nd	Lightning arresters.
	3rd	Types of lightning arresters.
	4th	Rod-gap lightning arrester
	5th	Rod-gap lightning arrester
21.5.22	6th	Horn-gap
13.5.22	1st	Horn-gap
	2nd	Valve type arrester
	3rd	valve type arrester
	4th	Surge Absorber
	5th	Surge Absorber.
28.5.22	6th	cont.
30.5.22	1st	— Sabitri Amabasya —
	2nd	Advantages of static relay
	3rd	cont.
	4th	Over current relay
	5th	Instantaneous over current relay
4.6.22	6th	cont.
6.6.22	1st	IDMT Relay.
	2nd	working of IDMT Relay
	3rd	cont.
	4th	Principle of IDMT Relay
	5th	cont.
11.6.22	6th	

Verified

 10/03/22