EPS3

Lesson Plan

Subject: EPS-3 Total No. of chapters: 7 Branch: Electrical Engineer

Semester: 6th
Lecture Planned: 56

Locture CAL	Ectrical Enginee	ering	Lecture Planned	·EC
Lecture SN	Unit	Topic	- iaiiieu	.50
1		Switchgear Essential 6	Day & Date	Domest
2	Introduction to	Switchgear, Essential features of Switchgear	Wed, Feb 15, 23	Remarks
3	Switchgear	state elements and its operation	Thu, Feb 16, 23	
4	Switchgear	Bus-bar arrangements	Fri, Feb 17, 23	
5			Wed, Feb 22, 23	
6		Concept of short-circuit, short circuit current	Thu, Feb 23, 23	
7		Types of faults: symmetrical faults unsymmetrical faults	Fri, Feb 24, 23	
8	raults	Analysis of Late Life	Sat, Feb 25, 23	
9			Wed, Mar 1, 23	
10		Analysis of L-to-G faults	Thu, Mar 2, 23	
11		Analysis of L-L-G faults	Fri, Mar 3, 23	
		Review of Chapter 1&2	Sat, Mar 4, 23	
		Advantages and disadvantages of fuse,		
12		Desirable characteristics of fuse element fuse		
		cicinent materials	Thu Mar 0 22	
		Important terms related to fuse: current rating		
	Fuses	of fuse element, fusing current fusing factor, cut-off current, arcing time and breaking		
13		capacity	F: 14 40 00	
		LV fuse: semi-enclosed rewritable fuse and	Fri, Mar 10, 23	
14		HRC fuse-their construction and Working	Wed, Mar 15, 23	
		HV fuse: cartridge type, liquid type and metal	vveu, iviai 15, 23	
15		clad type-their construction & Working	Thu, Mar 16, 23	
16		Difference between Switch, Isolator and		
10		Circuit Breakers	Fri, Mar 17, 23	
17		Function of Isolator and Circuit breaker, Difference between Fuse and Circuit Breaker	C-+ 14- 10 00	
18		Arc phenomenon in circuit breaker	Sat, Mar 18, 23	
19			Wed, Mar 22, 23	
20			Thu, Mar 23, 23	
	-	Terms related to circuit breaker: arc voltage,	Fri, Mar 24, 23	
21		and the state of t	Sat, Mar 25, 23	
		Construction, working principles, types and	20,20	
22	Breakers	applications of Air-Blast Circuit Breaker	Wed, Mar 29, 23	
		Construction, working principles, types and	7	
23		applications of Oil Circuit Breaker	Fri, Mar 31, 23	A Part of
24		Construction, working principles, types and	Cot And Oc	The Same
24		applications of Vacuum Circuit Breaker Construction, working principles, types and	Sat, Apr 1, 23	
25			Wed, Apr 5, 23	
20		Comparison between various types of Circuit	, Apr 3, 23	
	E	Breakers, Circuit breaker rating: breaking		
	Ca	capacity, making capacity and short-time		
26			Thu, Apr 6, 23	
	In	ntroduction: fundamental requirement of		
27			Wed, Apr 12, 23	
28	E	electromagnetic attraction type relay	Thu, Apr 13, 23	

EPS3

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29		CLASS TEST-2	Wed, Apr 19, 23	
30		Electromagnetic induction type relays	Thu, Apr 20, 23	
31	Protective Relays	Instantaneous relay, Inverse Time Relay,	Fri, Apr 21, 23	
32		Definite Time lag relay	Wed, Apr 26, 23	
33		Relays Terminology: Pick-up Current, Current Setting, Plug Setting Multiplier (PSM),	Thu, Apr 27, 23	
34		Time Setting Multiplier (TSM), Time/PSM Curve	Fri, Apr 28, 23	
35		Distance or Impedance Relay	Sat, Apr 29, 23	
36		definite-distance and time distance impedance Relay		
37		Differential Relays: current differential	Thu, May 4, 23	
38		voltage balance differential relay	Sat, May 6, 23	
39		Static and Microprocessor based relays	Wed, May 10, 23	
40		Static and Microprocessor based relays Applications	Thu, May 11, 23	The second
41		Differential Protection Scheme for Alternators	Fri, May 12, 23	
42	Protection Schemes in Power System	Protection Schemes for Transformer, Buchholz relay	Wed, May 17, 23	
43			Thu, May 18, 23	
44		Earth fault or Leakage Protection	Fri, May 19, 23	
45		Over-voltage Causes, voltage surge	Sat, May 20, 23	
46		Lightening, lightening arresters such as rod gap, horn gap	Wed, May 24, 23	
47		multi-gap, expulsion type and valve type arrester	Thu, May 25, 23	1
48		Brief idea about surge absorber	Fri, May 26, 23	1
49	Over-voltage Protection	Transmission Line and substation protection against over-voltages	Sat, May 27, 23	1
50	Protection	Review of syllabus	Wed, May 31, 23	1
51		Review of syllabus	Thu, Jun 1, 23	1
52		Review of syllabus	Fri, Jun 2, 23	1
53		Review of syllabus	Sat, Jun 3, 23	
54		Review of syllabus	Ved, Jun 7, 23	
55		Review of syllabus	Thu, Jun 8, 23	
56			Fri, Jun 9, 23	

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