ISCIPLINE	SEMESTER	NAME OF THE T	EACHING FACULTY	
LECTRICAL	4TH	SRI SUSHANTA KUMAR MALIK, SR. LECTURER		
<u>UBJECT</u> :GTI	<b>o</b>	NO. OF DAYS PER WEEK CLASS ALLOTED : 04	SEMESTER FROM 04/02/2025 TO 17/05/	
			NO. OF WEEKS : 15 NOS.	
/EEKS	CLASS DAYS	THEORY TOPICS		
15T	1ST	Elementary idea on generation of electricity from Thermal, Hydel, Nuclear, Power station,		
	2ND	Elementary idea on generation of electricity from Hydel Power station		
	3RD	Elementary idea on generation of electricity from Nuc.		
	4TH	Introduction to Solar Power Plant (Photovoltaic cells)		
****	1ST	Layout diagram of generating stations.	The second second second	
	2ND	Layout of transmission and distribution scheme	•	
	3RD	Voltage Regulation & efficiency of transmission.		
2ND	4TH	State and explain Kelvin's law for economical size of c	productor	
ZITO	1ST	Corona and corona loss on transmission lines.	DAMPETON.	
	2ND			
		Types of supports, size and spacing of conductor.		
	3RD	Types of conductor materials		
3RD	4TH	State types of ilistrator and cross arms.		
	1ST	Sag in overhead line with support at same level and d	2 Y F 1 1 (2)	
4-11	2ND	Sag in overhead line with support at same level and different level (approximate formula effect of will ice and temperature on sag)		
	<del></del>	<del> </del>	A STATE OF THE STA	
	3RD	Simple problem on sag.	Danilai da Tanani da Effici	
<u>4TH</u>	4TH	Different Types of Transmission line and calculation of	Regulation and Transmission Efficiency.	
	1ST	Derivation of Short Transmission line with numerical		
	2ND	Different Types of Medium Transmission line		
	3RD	Derivation of End condenser medium Transmission lin		
5TH	ATH	Derivation of T Type Medium Transmission line with numerical		
	1.5T	Derivation of PI TYPE MediumTransmission line with numerical		
	2ND	Introduction to EHV AC transmission.		
6TH	3RD	Reasons for adoption of EHV AC transmission		
	4TH	Problems involved in EHV transmission.		
	15T	Introduction to HV DC transmission		
	2ND	Advantages and Limitations of HVDC transmission system and Connection System Syste	- The second sec	
	3RD	and inter connected system)	inemes of Distribution system; (Natial, Ning Me	
7TH	4TH	Introduction to DC distributions and its type		
	1ST	Distributor fed at one End with problem		
	2ND	Distributor fed at both the ends with problem		
	SRD	Ring distributors with problem	•	
8ТН	ATH	Introduction to AC distribution system.		
	151	Method of solving AC distribution problem		
	2ND	Three phase four wire star connected system arrange.	ment.	
	3RD	Cable insulation and classification of cables.	44 1000	
9TH	4TH	Types of L. T. & H.T. cables with constructional feature	es	
10TH _	2.ST	Methods of cable lying.	100	
	2ND	Localization of cable faults: Murray loop lest for short	t circuit fault /Earth fault.	
	SRD	Localization of cable faults: Varley loop test for short		
	47714	Causes of low,power factor and methods of improvem	nent of power factor inpower system	
	1.ST	Factors affecting the economics of generation: (Define	Demand factor.	

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	SND	3.Maximum demand. 4.Load factor.	
	SRD	5.Diversity factor. 6. Plant capacity factor	
11TH	4TH	Peak load and Base load on power station	
	1ST	Desirable characteristic of a tariff	
	2ND	Explain flat rate tariff. (SolveProblems)	
	BRD	Explain block rate tariff. (SolveProblems)	
12TH	4TH	Explain two part: tariff. (SolveProblems)	• 15-7
	1ST	Explainmaximum demand tariff. (SolveProblems)	
	2ND	Introduction to substation	
	380	Layout of LT substation	
13TH	ATH	Layout of HT substation	
	.ST	Layout of EHT substation	
	2ND	Earthing of Substation	
	3RD	Earthing of Transmission Line	
14TH	ATH	Earthing of Distribution Line	antenia (
	1ST	Revission of Chapter 1 and 2	
	2ND	Revission of Chapter 3 and 4	
	3RD	Revission of Chapter 5 and 6	
15TH	4TH	Revission of Chapter 7 and 8	
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