LESSON PLAN RELIABILITY OF POWER SYSTEM(M.Tech 2nd-PSE) NAME OF FACULTY: PRATYUSHA PRATIK

		Topics to be	Signature of
	wodule No.	Covered	Faculty
		Generating	
		Capacity Basic	
		Probability	
1	I	Methods: The	
		generation	
		system model.	
		Loss of load	
		indices.	
		Equivalent forced	
2	1	outage	
	-	rate.Capacity	
		expansion	
		analysis,	
		Scheduled	
3	I	outages.	
		Evaluation	
Л	1	methods on	
-		neriod basis	
		Load forecast	
5	I	uncertainty	
6	I	roteu oulage	
7	I	LOSS OF energy	
		indices.	
		Generating	
8	1		
		Frequency &	
		Duration Method	
9	1	System risk	
		indices.	
	I	The generation	
10		model,System	
		risk indices.	
11		Interconnected	
		Systems:	
	I	Probability error	
		method in two	
		interconnected	
		systems,	
13	1	Factors affecting	
		the emergency	
		assistance	
		available through	
		the	
		interconnections,	
14		Variable reserve	
I	ľ.	versus maximum	1

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		peak load	
		reserve,	
15		Reliability	
		evaluation in	
	I	three	
		interconnected	
		system	
		, multi connected	
4.6	I	system, Frequenc	
16		y & duration	
		approach.	
		Operating	
		Reserve: General	
17	I	concepts, PJM	
		method.	
		Extension to PJM	
		method	
18	I	Modified PIM	
		method	
		Postnonable	
		outages Security	
19	II	function	
		annroach	
		Besnonse risk	
20		Interconnected	
20		systems	
		Composito	
		Composite Congration &	
21		Transmission	
21		Systems: Radial	
		configurations	
		Conditional	
22		probability	
22		approach	
		Notwork	
23		configurations	
		State selection	
		Sustan & load	
24	Ш	system & load	
25		point indices,	
	ш	Application to	
		practical	
		systems,	
26	111		
		requirements for	
		composite	
		system reliability.	
27	111	Plant & Station	
		Availability:	
1		Generating plant	

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		availability	
28	111	De rated states &	
		auxiliary systems	
20	111	Allocation &	
29		effect of spares,	
		Protection	
30		systems, HVDC	
		systems.	
	IV	Distribution	
		Systems Basic	
24		, Techniques &	
31		Radial Networks:	
		Evaluation	
		techniques	
	IV	additional	
32		interruption	
		indices	
	IV	Application to	
33		radial systems	
		effect of lateral	
		distributor	
34	IV	protection Effect	
		of disconnects	
		Effect of	
		protection	
35	IV	failures effect of	
55		transferring	
		loads	
		Drobability	
	IV	distributions of	
		reliability indices	
36		Distribution	
50		Systems-Parallel	
		8. Meshed	
		Networks	
	IV	Basic evaluation	
		techniques	
37		Inclusion of	
		hushar failures	
	IV		
		scheduled	
20		maintenance	
50		Tomporany &	
		transient failures	
39	IV	inclusion of	
Date		weather effects,	
Date			