	N	IAHAMAYA INSTITUTE OF MEDICAL AND TECHNIC	AL SCIEI	NCE, N	IUAPA	A
		BRANCH: ELETRICAL ENGINEER	IG			
		LESSON PLAN				
		SEMESTER: 4TH SUBJECT: GENERATION TRANSMISSION & DISTRIB	UTION ASS	IGNED F	ACULTY:	
CL NO	FUADTE		BERIOD	ARADA	PRASAD	SAHOO
SL.NO.	LHAPTE	CENEDATION OF ELECTRICITY	PERIOD 7	DATE	SIGN	REMARKS
1		GENERATION OF ELECTRICITY	,			
		Give Elementary idea on generation of electricity from				
	1.1	Thermal / Hydel / Nuclear Power station.	4			
	1.2	Draw layout of generating stations.	3			
2	21	TRANSMISSION OF ELECTRIC POWER	5			
	2.1	Draw layout of transmission and distribution scheme.	1			
	2.2	Explain voltage Regulation & efficiency of transmission	1		-	
	22	state and explain Kelvin's law for economical size of	1			
	2.5	Explain corona and corona loss on transmission lines	1			
2	2.4	Explain colona and colona loss on transmission miles	7			
3	21	OVER HEAD LINES	2			7.00
	3.1	State types of supports, size and spacing of conductor.	2			
	3.2	Types of conductor materials	1			
	3.3	State types of insulator and cross arms				
		Derive for sag in overhead line with support at same				
		level and different level (approximate formula effect of	2			
	3.4	wind, ice and temperature on sag simple problem)	2			
4		PERFORMANCE OF SHORT & MEDIUM LINES	7	-	-	
	4.1	Calculation of regulation and efficiency.	/			
5		. EHV TRANSMISSION	7	-		
	5.1	Explain EHV AC transmission	2			
and the second			2	a second		
	5.2	Explain Reasons for adoption of EHV AC transmission		_		
	5.3	Problems involved in EHV transmission.	1	-	-	
	5.4	Explain HV DC transmission.	1			
	EE	State Advantages and Limitations of HVDC transmission	1			
	5.5	system				
6		DISTRIBUTION SYSTEMS	7			
		Introduction to Distribution System. Explain				
	6.1	Connection Schemes of Distribution System-(Radial,	2			
		Ring Main and Inter connected system)		_		
	Ball and	Explain DC distributions (a) Distributor fed at one End	2			
	6.2	(b) Distributor fed at both the ends (c) Ring distributors.		-		
		Explain AC distribution system. Explain Method of	2			
	6.3	solving AC distribution problem.				
	12	Explain three phase four wire star connected system	1			
	6.4	arrangement				

7		UNDERGROUND CABLES	6			
	7.1	Explain cable insulation and classification of cables.				
		State Types of L. T. & H.T. cables with constructional				
	7.2	features				
	7.3	State and Explain Methods of cable lying.				
		State methods of Localisation of cable faults – Murray				
	7.4	and Varley loop test for short circuit fault/Earth fault.				
8		ECONOMIC ASPECTS	6			
	8.1	State and explain causes of low power factor				
	8.2	Explain methods of improvement of power factor	1			
	8.3	Define & explain Load curves	1			1
	8.4	Define & explain Demand factor.	-			
	8.5	Define & explain Maximum demand	1  -			-
	8.6	Define & explain Load factor	1			+
	8.7	Define & explain Diversity factor				
	8.8	Define & explain Plant capacity factor				
		Define & explain peak load and Base load on power	1			
0003	8.9	station	1			
9		TYPES OF TARIFF				
		Explain flat rate and two part tariff and black	3			
A. C. E.	9.1	with problems	2			
10		SUBSTATION				
Sand Street	10.1	Draw and explain laward GLT LTT	5			
		Draw and Explain layout of LT. HT and EHT substation	3	1	1	
	10.2	Draw and Explain Earthing of Substation, transmission		-		