LESSON PLAN-2022-2023					
	SWAMI VIVEKANANDA SCHOOL OF ENGG & TECH, BBSR				
Discipline- ELECTRICAL	Semester-4TH	Name of teaching faculty-Sonali Susmita Tripathy			
SUBJECT- GENERATION ,TRANSMISSION & DISTRIBUTION	No of days/ per week class alloted-5	SEM From date-20.02.2023 No of weeks-			
Week	Class day				
	2/20/2022	GENERATION OF ELECTRICITY			
4TH	2/20/2023	Elementary idea on generation of electricity from Thermal, Hydel, Nuclear power station			
	2/21/2023	do			
	2/22/2023	Introduction to Solar Power Plant (Photovoltaic cells0			
	2/23/2023	do			
	2/24/2023	Layout diagram of generating stations			
	2/25/2023	do			
		Assignments and doubt clearing			
	2/27/2023	TRANSMISSION OF ELECTRIC POWER			
	2/28/2023	Layout of transmission and distribution scheme			
1ST	3/01/2023	Voltage Regulation & efficiency of transmission.			
	3/02/2023	State and explain Kelvin's law for economical size of conductor.			
	3/03/2023	do			
	3/04/2023	Corona and corona loss on transmission lines			
2ND	3/06/2023	Assignments and doubt clearing			
	3/07/2023	OVER HEAD LINES			
	3/09/2023	Types of supports, size and spacing of conductor.			
	3/10/2023	Types of conductor materials			
	3/11/2023	State types of insulator and cross arms.			
3RD	3/13/2023	Sag in overhead line with support at same level and different level.(approximate formula effect of wind, ice and temperature on sag)			
	3/14/2023	DO			
	3/15/2023	Assignments and doubt clearing			
	3/16/2023	Simple problem on sag			
	3/17/2023	PERFORMANCE OF SHORT & MEDIUM LINES			
	3/18/2023	Classification of transmission line			

4TH	3/20/2023	voltage regulation of a transmission line
	3/21/2023	expression for short transmission line
	3/22/2023	phasor diagram
	3/23/2023	expression for medium transmission line for nominal pi network with phasor diagram
	3/24/2023	expression for medium transmission line for nominal T network with phasor diagram
	3/25/2023	EHV TRANSMISSION
5TH	3/27/2023	EHV AC transmission.
	3/28/2023	Reasons for adoption of EHV AC transmission
	3/29/2023	Problems involved in EHV transmission.
	3/31/2023	HV DC transmission
1ST	4/3/2023	do
	4/4/2023	Advantages and Limitations of HVDC transmission system
	4/5/2023	DISTRIBUTION SYSTEMS
	4/6/2023	Introduction to Distribution System.
	4/8/2023	Connection Schemes of Distribution System: (Radial, Ring Main and Interconnected system)
2ND	4/10/2023	DC distributions
	4/11/2023	Distributor fed at one End, Distributor fed at both the end, Ring distributor
	4/12/2023	AC distribution system.
	4/13/2023	do
	4/15/2023	Three phase four wire star connected system arrangement
3RD	4/17/2023	UNDERGROUND CABLES
3KD		Cable insulation
	4/18/2023	classification of cables
	4/19/2023	Types of L. T. & H.T. cables with constructional features
	4/20/2023	do
	4/21/2023	Methods of cable lying
	4/22/2023	Localization of cable faults: Murray and Varley loop test for short circuit fault /Earth fault
4TH	4/24/2023	ECONOMIC ASPECTS
	4/25/2023	Load curves.demandfactor,maximum demand
	4/26/2023	Load factor.diversityfactor,plant capacity factor
	4/27/2023	Peak load and Base load on power station

HOD		PRINCIPAL
	5/12/2023	Assignments and doubt clearing
	5/11/2023	DO
	5/10/2023	Earthing of Substation, transmission and distribution lines
	5/9/2023	Layout of EHT substation
2ND	5/8/2023	Layout of HT substation
	5/5/2023	Layout of LT substation
	5/4/2023	SUBSTATION
	5/3/2023	problems.
	5/2/2023	Explain flat rate, block rate, two part and maximum demand tariff
1ST	5/1/2023	Desirable characteristic of a tariff.
	4/29/2023	TYPES OF TARIFF
	4/28/2023	Assignments and doubt clearing