

Dicipline: ELECTRICAL ENGG.	Semester :6th Sem	Name of the Teaching faculty: Swetaleena Dehury
Subject: RE	No.of days/per week classalloted:5p(55Minutes)/week	Semester From date: 16 jan 2024 to Date: 23 April 2024 No . Of Weeks:15
Week	Class Day	Theory Topics
1st	16/1/24	Introduction to Renewable Energy
	17/1/24	Environmental consequences of fossil fuel uses
	17/1/24	Importance of RE of energy
	18/1/24	sustainable design and development
	19/1/24	tutorial classes
2nd	22/1/24	Types of RE sources
	24/1/24	Limitation of RE sources
	25/1/24	present india & international energy scenerio of conventional & RE sources
	25/1/24	tutorial classes
	27/1/24	Introduction to Solar Energy
3rd	29/1/24	Solar PV system operating principle
	30/1/24	PV cell concept- Cell,Module,array
	1/2/24	series & parallel connection,MPPT
	2/2/24	classification of energy sources
	2/2/24	tutorial classes
4th	5/2/24	Extraterrestrial and terrestrial Radiation
	5/2/24	Azimuth angle,zenith angle,Hour Angle,Irradiance,Solar Constant
	6/2/24	Solar collectors,Types and characteristics
	7/2/24	Applications- PV-Battery charger, domestic application,street lighting
	7/2/24	tutorial classes
5th	8/2/24	Applications- PV-water pumping,solar cooker,solar pond
	9/2/24	Introduction to Wind Energy
	10/2/24	Class Test 1
	12/2/24	types of wind turbines
	13/2/24	Wind energy conversion
6th	15/2/24	Aerodynamic of wind turbines
	16/2/24	wind turbine control system
	19/2/24	conversion to electrical power
	20/2/24	induction & synchronous generator
	21/2/24	tutorial classes

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16/01/24

7th	22/2/24	grid connected & self excited induction generator operation
	23/2/24	constant voltage & constant frequency generator with power electronics control
	23/2/24	single and double output system
	26/2/24	characteristics of wind power plant
	26/2/24	Introduction to Biomass Power
8th	28/2/24	Energy from biomass
	29/2/24	biomass as renewable energy sources
	1/3/24	tutorial classes
	4/3/24	Types of biomass fuels
	6/3/24	solid, liquid, Gas Fuels
9th	4/3/24	Combustion
	6/3/24	Fermentation
	6/3/24	tutorial classes
	7/3/24	Anaerobic digestion
	10/3/24	Anaerobic digestion
10th	12/3/24	types of biogas digester
	12/3/24	wood gasifier
	13/3/24	tutorial classes
	14/3/24	Pyrolysis
	15/3/24	Application of Biodiesel
11th	18/3/24	INTERNAL
	19/3/24	INTERNAL
	20/3/24	INTERNAL
	21/3/24	INTERNAL
	22/3/24	INTERNAL
12th	27/3/24	Introduction to Tidal Energy
	28/3/24	Energy from tidal
	2/4/24	Barrage & Non Barrage Tidal Power system
	3/4/24	OTEC
	4/4/24	tutorial classes
13th	4/4/24	Geothermal Energy
	5/4/24	Classification of geo thermal energy
	8/4/24	Hybrid energy system
	9/4/24	Need for Hybrid System
	10/4/24	tutorial classes
14th	12/4/24	Diesel pv system
	15/4/24	wind pv system
	16/4/24	microhydel pv system
	18/4/24	Tutorial classes
	18/4/24	tutorial classes
	19/4/24	Introduction to electric vehicles

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16/01/24

15th

22/4/24	Types of Electric Vehicles
23/4/24	Hybrid electric vehicles
23/4/24	tutorial classes

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16/01/24