Lesson plan				
Name of Faculty		Sh. Revti Raman		
Discipline		Electrical Engineering		
Semester		5th		
Subject		SOLAR PANEL INSTALLATION AND MAINTENANCE		
Duration		Week (From Sept2022 to Jan2023) Theory:04		
Week Theory				
	Lecture Day	Topics		
1st	Day1	1. Check site conditions, collect tools and raw materials		
	Day2	Basics on solar energy and power generation systems		
	Day3	Use and handling procedure of solar panels		
	Day4	Energy storage, control and conversion		
2nd	Day1	Basic electrical system and functioning		
	Day2	Mechanical equipment and its functioning		
	Day3	Maintenance procedure of equipment		
	Day4	Site survey, design and evaluation of various parameters		
3rd	Day1	Tools involved in installation of system		
	Day2	Quality and process standards		
	Day3	Occupational health and safety standards		
	Day4	Revision/class test		
4th	Day1	2. Installation of Solar Panel		
	Day2	Solar energy system components such as panels, batteries, charge controllers, inverters		
	Day3	Significance of volts, amps and watts: series and parallel connection		
	Day4	Voltage requirement of various equipment		
5th	Day1	Panel mounting and inclination and angle of tilt		
	Day2	Placement of solar panel mounting		
	Day3	Sunlight and direction assessment		
	Day4	Site surveying methods and evaluation parameters		
6th	Day1	Tools involved in installation of system		
	Day2	Revision/class test		

	Day3	3. Coordinate colleagues at work
	Day4	Company's policies on incentives, delivery standards, and personnel management
7th	Day1	Importance of the individual's role in the workflow
	Day2	Reporting structure
	Day3	Communicating effectively
	Day4	Building team coordination
8th	Day1	Revision/class test
	Day2	4. Safety at workplace
	Day3	Maintaining the work area safe and secure
	Day4	Handling hazardous material
9th	Day1	Operating hazardous tools and equipment
		Emergency procedures to be followed such as fire accidents, etc.
	Day2	Revision/class test
	Day3	5. Concept of Solar Tracking System
	Day4	Revision/class test
10th	Day1	Revision/class test
	Day2	Revision of chapter-1
	Day3	Class test
	Day4	Assignment of chapter -1
11th	Day1	Revision of previous year question paper
	Day2	Revision of chapter-2
	Day3	Class test
	Day4	Assignment of chapter -2
12th	Day1	Revision of previous year question paper
	Day2	Revision of previous year question paper
	Day3	Revision of chapter-3
	Day4	Class test
13th	Day1	Assignment of chapter -3
	Day2	Revision of previous year question paper
	Day3	Application of solar panels
	Day4	Testing of solar panel
14th	Day1	Assignment of chapter -4
	Day2	Revision of previous year question paper
	Day3	Revision of previous year question paper
	Day4	Revision of chapter-4

15th	Day1	Assignment of chapter -5
	Day2	Revision of previous year question paper
	Day3	Revision of previous year question paper
	Day4	Revision of chapter-5
16th	Day1	Practice of old HSBTE Papers
	Day2	Practice of old HSBTE Papers
	Day3	Practice of old HSBTE Papers
	Day4	Practice of old HSBTE Papers