Specimen of lesson Plan

Name of the Faculty **Ms. Priyanka**
Discipline ELECTRICAL ENGG.
Semester 6TH
Subject ENERGY MANAGEMENT
Lesson Plan Duration 15 weeks(from January, 2018 to April,2018)
Work Load(Lecture/Practical) per week (in hours): Lectures-
04, Practicals - **Nil**

Week		**Theory**
	Lecture Day	**Topic**
1st	1st	**Unit 1 Energy Management** : Overview
	2nd	Need for Energy conservation
	3rd	Environmental Aspects
	4th	Oil and Coal crises
2nd	5th	alternate Source of Energy
	6th	Renewable Energy sources
	7th	Small Energy sources
	8th	Energy Efficiency
3rd	9th	**Unit 2 Energy Conservation** Introduction
	10th	Domestic Sector - Lighting
	11th	Home appliances
	12th	Industrial Sector - Industrial Lighting
4th	13th	Distribution system

	14th	Motor Pumps
	15th	Fans and Blowers
	16th	Agriculture sector - Tubewell pumps
5th	17th	DG Sets
	18th	Stand by Energy Sources
	19th	Macro Level approach - Generation and Distribution
	20th	Lighting control
6th	21st	Importance of Energy efficiency
	22nd	**Unit 3 Energy Efficient Devices** - Introduction
	23rd	Merit , Demerit and const. of LCD
	24th	Merit , Demerit and const. of LED
7th	25th	Merit , Demerit and const. of CFL
	26th	Need for energy efficient Devices
	27th	Initial cost versus life cycle
	28th	Cost analysis on life cycle basis
8th	29th	Energy efficient motors versus standard motor
	30th	Design Characteristics of energy Efficient Motor
	31st	BIS Standards

	32nd	Energy Efficient Lighting system
9th	33rd	Energy Efficient Energy Sources
	34th	Role of voltage on efficiency
	35th	Distribution system- Power Cables
	36th	Role of Power Factor
10th	37th	Use of Compensating Capacitors
	38th	Transformers
	39th	Calculation of size of capacitor
	40th	shunt capacitor and series capacitor
11th	41st	losses in Energy efficient motor
	42nd	**Unit 4 Energy Audit** : Introduction
	43rd	Need of Energy audit
	44th	Energy Audit Methodology
12th	45th	Efficiency of Energy Conversion Process
	46th	Specific Energy Consumption
	47th	Three pronged approach
	48th	Case study of Energy Audit in Hospital
13th	49th	Indane Bottling Plant

	50th	Distribution system
	51st	Audit activities
	52nd	Revision
14th	53rd	**Unit 5 Environmental Impact Assessment** Need for EIA
	54th	Defination and History of EIA
	55th	Scope of EIA
	56th	EIA Process
15th	57th	Standard format for assessment
	58th	Evaluation of the assessment
	59th	Revision
	60th	Class Test