

Lesson Plan

Subject: Energy Management
 Total No. of chapters : 5
 Branch : Electrical Engineering

Semester : 6th
 Lecture Planned :61

Lecture SN	Unit	Topic	Day & Date	Remarks
1	Review of Various Energy Sources	Brief overview of present energy scenario in India and worldwide	Tue, Feb 14, 23	
2			Wed, Feb 15, 23	
3		brief overview of share (in %age) of various energy sources in present energy scenario in India & Worldwide	Thu, Feb 16, 23	
4			Mon, Feb 20, 23	
5	Energy Conservation	Basic concept and importance of Energy Management	Tue, Feb 21, 23	
6		Energy Conservation	Wed, Feb 22, 23	
7		Energy Conservation Needs	Thu, Feb 23, 23	
8		Energy Conservation opportunities	Mon, Feb 27, 23	
9		energy efficient technologies in domestic sector	Tue, Feb 28, 23	
10		energy efficient technologies in industrial sector	Wed, Mar 1, 23	
11		Energy Efficient lighting: Methods / Technologies of energy efficient lighting Systems.	Thu, Mar 2, 23	
12		Heating: Energy efficient Methods / Technologies for energy savings in Furnaces ,Ovens, Boilers, Heat Exchangers, Cooling Towers, and Pumps.	Mon, Mar 6, 23	
13			Tue, Mar 7, 23	
14			Thu, Mar 9, 23	
15			Mon, Mar 13, 23	
16		Cooling Systems : Methods/Technologies for Energy Savings in Ventilating systems and Air Conditioners (HVAC Systems)	Tue, Mar 14, 23	
17			Wed, Mar 15, 23	
18			Sat, Mar 18, 23	
19		Energy Efficient Motors,	Mon, Mar 20, 23	
20		Class Test-1	Tue, Mar 21, 23	
21		Soft Starters,	Wed, Mar 22, 23	
22		Variable Frequency Drives.	Thu, Mar 23, 23	
23		Power Factor improvement devices and their significance in energy conservation.	Mon, Mar 27, 23	
24			Tue, Mar 28, 23	
25		Amorphous Core Transformers	Wed, Mar 29, 23	
26		Reactive power compensation	Mon, Apr 3, 23	
27		Demand Side Management	Tue, Apr 4, 23	
28	Energy Conservation in Transmission and Distribution Systems	Losses in transmission and distribution system	Wed, Apr 5, 23	
29			Thu, Apr 6, 23	
30		minimization of losses	Mon, Apr 10, 23	
31			Tue, Apr 11, 23	
32		Review for CT2	Wed, Apr 12, 23	
33			Thu, Apr 13, 23	
34		Class Test-2	Mon, Apr 17, 23	
35		Need of Energy Audit	Tue, Apr 18, 23	
36		Types of Energy Audit: Preliminary Audit, General or Mini audit, and Comprehensive Audit,	Wed, Apr 19, 23	
37			Thu, Apr 20, 23	
38			Mon, Apr 24, 23	
39		Energy Audit methodologies/Procedure	Tue, Apr 25, 23	

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40	Energy Audit	Energy Flow Diagram and its importance	Wed, Apr 26, 23	
41		Measurements in energy audit	Thu, Apr 27, 23	
42			Mon, May 1, 23	
43		List of measuring instruments and equipment used in energy audit	Tue, May 2, 23	
44		Questionnaires for the energy audit	Wed, May 3, 23	
45		Energy audit checklist, Calculation of payback period	Thu, May 4, 23	
46		Case studies (any Two) of Energy Audit of any Commercial building and Small Industrial installation.	Mon, May 8, 23	
47			Tue, May 9, 23	
48			Wed, May 10, 23	
49		Environment and social concerns related to energy utilization	Thu, May 11, 23	
50			Thu, May 18, 23	
51		Environment impact assessment and its need	Tue, May 23, 23	
52			Wed, May 24, 23	
53		Environmental impact assessment in India	Fri, May 26, 23	
54			Mon, May 29, 23	
55		Review	Tue, May 30, 23	
56		Review	Wed, May 31, 23	
57		Review	Thu, Jun 1, 23	
58		Review	Mon, Jun 5, 23	
59		Review	Tue, Jun 6, 23	
60		Review	Wed, Jun 7, 23	
61		Review	Thu, Jun 8, 23	

Subject Teacher:

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