

Department of Electrical and Electronics Engineering

Lesson Plan & Work-done Diary for AY: 2026-27, ODD Semester

Course with Code: Energy Conservation and Audit_BEE755B				Faculty: Dr Praveen Kumar M		Semester & Section: VII Semester	
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
MODULE-1							
1.		Module – 1: Energy Scenario Commercial and non-commercial energy, primary energy sources	ICT				
2.		Commercial energy production, final energy consumption.	ICT				
3.		Energy needs of growing economy, long term energy scenario	Chalk and Talk				
4.		Energy Pricing, energy sector reforms	Chalk and Talk				
5.		Energy and environment, energy security	ICT				
6.		Energy conservation and its importance	ICT				
7.		Restructuring of the energy supply sector and Energy strategy for future	Chalk and Talk				
8.		Energy conservation Act-2001 and its feature	ICT				

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MODULE 2							
9.		Module – 2: Energy Efficiency in Electrical Systems : Electricity billing, Electrical load management and maximum demand control	ICT				
10.		Maximum demand controllers and Power factor improvement	ICT				
11.		Automatic power factor controllers	ICT				
12.		Efficient operation of transformer	Chalk and Talk				
13.		Energy efficient motors, Soft starters and Variable speed drives	ICT				
14.		Performance evaluation of fans and pumps	Chalk and Talk				
15.		Flow control strategies and energy conservation opportunities in fans and pumps Electronic ballast	Chalk and Talk				
16.		Energy efficient lighting and measures of energy efficiency in lighting system	ICT				

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MODULE 3							
17.		Module – 3: Energy Auditing Introduction to energy audit	Chalk and Talk				
18.		Elements of energy audit and Different types of Audit	ICT				
19.		Preliminary Energy Audit methodology	ICT				
20.		A Guide for Conducting Energy Audit at a Glance	ICT				
21.		Initial Site Visit and Preparation Required for Detailed Auditing	Chalk and Talk				
22.		Data collection during auditing, measurement in energy audits	ICT				
23.		Energy use profiles, Measurements in energy audits	ICT				
24.		Presentation of energy audit results	ICT				

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MODULE 4							
25.		Module – 4 Electricity vs other commodities : Distinguishing features of electricity as a commodity	Chalk and Talk				
26.		Pillars of market design	ICT				
27.		Imbalance, Scheduling and dispatch.	Chalk and Talk				
28.		Congestion Management	ICT				
29.		Ancillary Services	ICT				
30.		Frame work of Indian power sector	Chalk and Talk				
31.		Introduction to the availability based tariff	Chalk and Talk				
32.		Based Tariff brief explanation	ICT				

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MODULE 5							
33.		Module – 5 Energy audit applied to buildings Demand side management: Energy Saving measures in New Buildings	ICT				
34.		Water Audit & Methods of audit	ICT				
35.		General Energy-savings tips applicable to new and existing buildings	ICT				
36.		Scope of Demand side management & Evolution of DSM concept	Chalk and Talk				
37.		DSM planning and Implementation and Load management as a DSM strategy	ICT				
38.		Applications of load control	ICT				
39.		End use of energy conservation Tariff Options for DSM	Chalk and Talk				
40.		End use of energy conservation Tariff Options for DSM	ICT				

	Activity	Planned	Actual	Remarks
1	Theory Classes	40		
2	Assignments/Quizzes/ Self study	Assignment-3, Quiz-5		
3	Tutorials/ Extra classes			
4	Internal Assessments	3		
5	ICT based Teaching (% of usage in Curriculum)	65%		
Planning			Execution	
Faculty Signature:			Faculty Signature:	
HoD Signature:			HoD Signature:	