

## Department of Electrical and Electronics Engineering

### Lesson Plan & Work-done Diary for AY:2025-26, ODD Semester

Course with Code: <b>Energy Conservation and Audit BEE755B</b>				Faculty: <b>Dr Sathish K R</b>		Semester & Section: <b>VII Semester</b>	
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
<b>MODULE-1</b>							
1.	04-08-2025	<b>Module – 1: Energy Scenario</b> Commercial and non-commercial energy, primary energy sources	ICT				
2.	06-08-2025	Commercial energy production, final energy consumption.	ICT				
3.	08-08-2025	Energy needs of growing economy, long term energy scenario	ICT				
4.	11-08-2025	Energy Pricing, energy sector reforms	ICT				
5.	13-08-2025	Energy and environment, energy security	ICT				
6.	18-08-2025	Energy conservation and its importance	ICT				
7.	20-08-2025	Restructuring of the energy supply sector and Energy strategy for future	Chalk and Talk				
8.	22-08-2025	Energy conservation Act-2001 and its feature	ICT				

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<b>MODULE 2</b>							
9.	25-08-2025	<b>Module – 2: Energy Efficiency in Electrical Systems</b> : Electricity billing, Electrical load management and maximum demand control	ICT				
10.	27-08-2025	Maximum demand controllers and Power factor improvement	ICT				
11.	29-08-2025	Automatic power factor controllers	ICT				
12.	01-09-2025	Efficient operation of transformer	ICT				
13.	03-09-2025	Energy efficient motors, Soft starters and Variable speed drives	ICT				
14.	05-09-2025	Performance evaluation of fans and pumps	ICT				
15.	08-09-2025	Flow control strategies and energy conservation opportunities in fans and pumps Electronic ballast	Chalk and Talk				
16.	10-09-2025	Energy efficient lighting and measures of energy efficiency in lighting system	ICT				

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<b>MODULE 3</b>							
17.	12-09-2025	<b>Module – 3: Energy Auditing</b> Introduction to energy audit	Chalk and Talk				
18.	15-09-2025	Elements of energy audit and Different types of Audit	ICT				
19.	17-09-2025	Preliminary Energy Audit methodology	ICT				
20.	19-09-2025	A Guide for Conducting Energy Audit at a Glance	ICT				
21.	22-09-2025	Initial Site Visit and Preparation Required for Detailed Auditing	Chalk and Talk				
22.	24-09-2025	Data collection during auditing, measurement in energy audits	ICT				
23.	26-09-2025	Energy use profiles, Measurements in energy audits	ICT				
24.	29-09-2025	Presentation of energy audit results	ICT				

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<b>MODULE 4</b>							
25.	01-10-2025	Module – 4 Electricity vs other commodities : Distinguishing features of electricity as a commodity	Chalk and Talk				
26.	03-10-2025	Pillars of market design	ICT				
27.	06-10-2025	Imbalance, Scheduling and dispatch.	Chalk and Talk				
28.	08-10-2025	Congestion Management	ICT				
29.	10-10-2025	Ancillary Services	ICT				
30.	13-10-2025	Frame work of Indian power sector	Chalk and Talk				
31.	15-10-2025	Introduction to the availability based tariff	Chalk and Talk				
32.	22-10-2025	Based Tariff brief explanation	ICT				

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MODULE 5							
33.	24-10-2025	<b>Module – 5 Energy audit applied to buildings Demand side management:</b> Energy Saving measures in New Buildings	ICT				
34.	27-10-2025	Water Audit & Methods of audit	ICT				
35.	29-10-2025	General Energy-savings tips applicable to new and existing buildings	ICT				
36.	31-10-2025	Scope of Demand side management & Evolution of DSM concept	Chalk and Talk				
37.	03-11-2025	DSM planning and Implementation and Load management as a DSM strategy	ICT				
38.	05-11-2025	Applications of load control	ICT				
39.	07-11-2025	End use of energy conservation Tariff Options for DSM	ICT				
40.	10-11-2025	End use of energy conservation Tariff Options for DSM	ICT				

	Activity	Planned	Actual	Remarks
1	Theory Classes	40		
2	Assignments/Quizzes/ Self study	Assignment-2, Quiz-5		
3	Tutorials/ Extra classes			
4	Internal Assessments	3		
5	ICT based Teaching (% of usage in Curriculum)	80%		
Planning			Execution	
Faculty Signature:			Faculty Signature:	
HoD Signature:			HoD Signature:	