

LESSON PLAN FOR ACADEMIC SESSION: 2026-27(Winter)

Discipline: Electrical Engineering	Semester : 5th	Name of the Teaching Faculty : Subhasmita Sahu (Guest Faculty, Electrical Engg.)
Subject : Energy Conservation & Audit Laboratory	No. of days / week class allotted	Semester From : 1/07/2026 to 05/11/2026 Nos. of Weeks per semester : 15
Week	Class Day	Theory Topics
1 ST	1 st	1. Identify star labeled electrical apparatus and compare the data for various star ratings.
	2 nd	
2 ND	1 st	2. Compare power consumption of different types of TL with choke, electronic ballast and LED lamps by direct measurements.
	2 nd	
3 RD	1 st	3. Determine the reduction in power consumption by replacement of lamps in a classroom / laboratory.
	2 nd	
4 TH	1 st	Evaluation & Viva voce
	2 nd	
5 TH	1 st	4. Compare power consumption of different types of TL with choke, electronic ballast and LED lamps by direct measurements.
	2 nd	
6 TH	1 st	5. Determine the reduction in power consumption by replacement of lamps in a classroom / laboratory.
	2 nd	
7 TH	1 st	6. Determine the reduction in power consumption by replacement of Fans and regulators in a classroom / laboratory.
	2 nd	
8 TH	1 st	Evaluation & Viva voce
	2 nd	
9 TH	1 st	7. Collect electricity bill of a commercial consumer and suggest suitable tariff for conservation and reduction of its energy bill.
	2 nd	
10 TH	1 st	8. Collect electricity bill of a residential consumer and suggest suitable means for conservation and reduction of the energy bill.
	2 nd	
11 th	1 st	9. Estimate energy saving by improving power factor and load factor for given cases.
	2 nd	
12 th	1 st	Evaluation & Viva voce
	2 nd	
13 th	1 st	10. Prepare a sample energy audit questionnaire for the given industrial facility.
	2 nd	
14 th	1 st	11. Prepare an energy audit report (Phase-I)
	2 nd	
15 th	1 st	Evaluation & Viva voce
	2 nd	

S.S.
17.7.26

Prepared by
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H.O.D. 17/7/26

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17.07.26

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