

GOVERNMENT CO. ED POLYTECHNIC RAIPUR (C.G)

**DEPARTMENT OF ELECTRICAL
LESSON PLAN**

Session JAN-JUNE 2025

Session start as per university calendar

Course Name: Energy Conservation & Energy Audit

Name of Subject Teacher: L. Keshwar Prasad Sahu

Lecturer plan T+P = 3

Course code: 2024682(024)

Discipline: Electrical	Semester: 6th	Sub Topic to be covered under this unit	Total hours	Class room Instruction Start Date:		Date of Class Conduction	Type of AV Resources if any	Remarks: if any
				No. of periods planned	Actual No of periods taken			
1	1	Energy Conservation Measures & Management	16	2	2	25/01/2025	NA	
				1	1	24/01/2025		
				1	1	03/02/2025		
				2	2	23/01/2025		
				3	3	17, 20, 22/01/2025		
				1	1	07/01/2025		
				1	1	28/01/2025		
				1	1	04/02/2025		
				2	2	31/01/2025		
				1	1	30/01/2025		
				1	1	29/01/2025		
				3	3	3, 4, 8/03/2025		
				3	3	20/02/25, 22/02/25		
				1	1	01/03/25		
				1	1	03/03/25, 04/03/25		
				2	2	Energy Conservation in power system		
2	2	22/04/25, 24/04/25						
2	2	17/03/25						
1	1	18/03/25						
2	2							

EC 3 EA

3	3	Energy Conservation in lighting system	Basic parameters in lighting	2	2	01/04/2025	N/A				
			Recommended luminance level	2	2	03/04/2025					
			Procedure for assessing existing lighting	2	1	05/04/2025					
4	4	Energy Conservation in motors & transformer	Energy Conservation technique in lighting	10	5	5/04, 07/04, 8/04, 9/04/25					
			Need & Significance of Energy Conserv. in motors & transformer	2	2	14/04/25, 12/04/25	N/A				
			Construction, working of energy efficient motors	3	3	15/04/25, 17/04/25					
			Difference b/w energy efficient & standard motors	2	2	16/04/25					
			Energy Conservation techniques in IM	3	3	19/04/25, 22/04/25					
			Function of Energy Conservation Equipment	3	2	28/04/25					
			Energy Efficient Transformer	3	2	26/04/25					
			Electricity ACT 2003	2	1	04/02/2025					
			IE rules & regulation for Energy Audit	2	1	05/02/2025					
			Energy flow Diagram	1	2	06/02/2025					
5	5	Energy Audit	Energy Audit Instruments	2	4	07/02/2025					
			Questionnaires for the Energy Audit	2	1	08/02/2025					
			ABC analysis	1	1	10/02/2025					
			Internal Energy Audit Checklist	2	2	12/02/2025					
			Procedure of Energy Audit	2	2	13-15/02/2025					
			Simple payback period	1	1	30/01/2025					
			Examples on Energy Conservation projects	2	2	17/02/2025					
			Instruments for Audit	3	1	07/02/2025					
						84					

CPV