

ENERGY CONSERVATION AND AUDIT (EEPC303)

GP MAYURBHANJ

Academic Year: 2026-2027 | Faculty: RAJIB LOCHAN DASH

Electrical Engineering | Diploma | 2nd Year / 3rd Semester

Sl.	Period	Time	Teaching Method	Topic to be Covered	Unit
1	1	60 min	Black Board	Energy scenario; primary & secondary energy	I
2	2	60 min	Black Board	Energy demand and supply	I
3	3	60 min	Black Board	Energy conservation vs audit	I
4	4	60 min	Black Board	Electricity Act & EC Act	I
5	5	60 min	Black Board	BEE & MEDA	I
6	6	60 min	Black Board	Star labelling	I
7	7	60 min	Black Board	Unit-I Revision	I
8	8	60 min	Black Board	Need for energy conservation in motors & transformers	II
9	9	60 min	Black Board	Power quality	II
10	10	60 min	Black Board	Motor survey	II
11	11	60 min	Black Board	Motor loading	II
12	12	60 min	Black Board	Idle running & star mode	II
13	13	60 min	Black Board	Rewinding	II
14	14	60 min	Black Board	Energy efficient motors	II
15	15	60 min	Black Board	Maintenance	II
16	16	60 min	Black Board	Transformer loading sharing	II
17	17	60 min	Black Board	Parallel operation	II
18	18	60 min	Black Board	Isolation	II
19	19	60 min	Black Board	Efficient transformers	II
20	20	60 min	Black Board	Soft starter/VFD/APFC/IPFC	II
21	21	60 min	Black Board	Unit-II Revision	II
22	22	60 min	Black Board	AT&C losses	III
23	23	60 min	Black Board	Technical losses	III
24	24	60 min	Black Board	Commercial losses	III
25	25	60 min	Black Board	Energy conservation equipment	III
26	26	60 min	Black Board	Lighting systems	III
27	27	60 min	Black Board	Lighting maintenance	III
28	28	60 min	Black Board	Fans & regulators	III
29	29	60 min	Black Board	Distribution optimization	III
30	30	60 min	Black Board	Unit-III Revision	III
31	31	60 min	Projector	Cogeneration concept	IV
32	32	60 min	Projector	Types of cogeneration	IV
33	33	60 min	Projector	Technology based cogeneration	IV

34	34	60 min	Projector	Selection & advantages	IV
35	35	60 min	Projector	Tariff types	IV
36	36	60 min	Projector	Tariff applications	IV
37	37	60 min	Black Board	Unit-IV Revision	IV
38	38	60 min	Black Board	Energy audit definition & instruments	V
39	39	60 min	Black Board	Questionnaire & Sankey diagram	V
40	40	60 min	Black Board	Payback period	V
41	41	60 min	Black Board	Walk-through audit	V
42	42	60 min	Black Board	Detailed audit	V
43	43	60 min	Black Board	Audit report format	V
44	44	60 min	Black Board	Overall Revision	V
45	45	60 min	Black Board	Question Discussion	V