

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 Sathish K R		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.	20-07-2026	Introduction: Commercial and non-commercial energy, primary energy resources	ICT				
2.	22-07-2026	Commercial energy production; final energy consumption; energy needs of growing economy	ICT				
3.	24-07-2026	Long-term energy scenario; energy pricing; energy sector reforms	ICT				
4.	27-07-2026	Energy and environment; energy security	ICT				
5.	29-07-2026	Energy conservation and its importance	ICT				
6.	31-07-2026	Restructuring of the energy supply sector; energy strategy for the future	ICT				
7.	03-08-2026	Air pollution, climate change	Chalk and Talk				
8.	05-08-2026	Energy Conservation Act-2001: Features and relevance	ICT				

Department of Electrical and Electronics Engineering

Course with Code: Energy Conservation and Audit_BEE755B				Faculty: Dr Sathish K R		Semester & Section: VII Semester	
Class No.	Date planned (DD/MM)	Topics to be covered	Class No.	Date planned (DD/MM)	Topics to be covered	Class No.	Date planned (DD/MM)
MODULE 2							
1.	07-08-2026	Module-2: Energy Efficiency in Electrical Systems Electricity billing; load management and maximum demand control	ICT				
2.	10-08-2026	Maximum demand controllers; power factor improvement	ICT				
3.	12-08-2026	Automatic power factor controllers; efficient operation of transformers	ICT				
4.	14-08-2026	Energy efficient motors; soft starters	ICT				
5.	17-08-2026	Variable speed drives	ICT				
6.	19-08-2026	Performance evaluation of fans and pumps	ICT				
7.	21-08-2026	Flow control strategies & energy conservation in fans and pumps	Chalk and Talk				
8.	24-08-2026	Electronic ballast, energy efficient lighting and measures for energy efficiency in lighting systems	ICT				

Department of Electrical and Electronics Engineering

Course with Code: Energy Conservation and Audit_BEE755B				Faculty: Dr Sathish K R		Semester & Section: VII Semester	
Class No.	Date planned (DD/MM)	Topics to be covered	Class No.	Date planned (DD/MM)	Topics to be covered	Class No.	Date planned (DD/MM)
MODULE 3							
1.	26-08-2026	Introduction to energy auditing; elements of energy audits	Chalk and Talk				
2.	31-08-2026	Types of energy audits	ICT				
3.	02-09-2026	Energy use profiles; measurements in energy audits	ICT				
4.	04-09-2026	Tools and equipment for energy audit	ICT				
5.	07-09-2026	Data collection and analysis in energy audits	Chalk and Talk				
6.	09-09-2026	Identifying energy-saving opportunities	ICT				
7.	11-09-2026	Presenting energy audit results & reporting	ICT				
8.	14-09-2026	Case studies on energy audit; discussion and Q&A	ICT				

Department of Electrical and Electronics Engineering

Course with Code: Energy Conservation and Audit_BEE755B				Faculty: Dr Sathish K R		Semester & Section: VII Semester	
Class No.	Date planned (DD/MM)	Topics to be covered	Class No.	Date planned (DD/MM)	Topics to be covered	Class No.	Date planned (DD/MM)
MODULE 4							
1.	16-09-2026	Module 4: Electricity Market Design & Indian Power Sector Electricity vis-à-vis other commodities: Distinguishing features	Chalk and Talk				
2.	18-09-2026	Pillar 1: Imbalance	ICT				
3.	21-09-2026	Pillar 2: Scheduling and dispatch	Chalk and Talk				
4.	23-09-2026	Pillar 3: Congestion management	ICT				
5.	25-09-2026	Pillar 4: Ancillary services	ICT				
6.	30-09-2026	Framework of Indian power sector	Chalk and Talk				
7.	02-10-2026	Availability Based Tariff (ABT): Concept and introduction	Chalk and Talk				
8.	05-10-2026	Practical issues and discussion	ICT				

Department of Electrical and Electronics Engineering

Course with Code: Energy Conservation and Audit_BEE755B				Faculty: Dr Sathish K R		Semester & Section: VII Semester	
Class No.	Date planned (DD/MM)	Topics to be covered	Class No.	Date planned (DD/MM)	Topics to be covered	Class No.	Date planned (DD/MM)
MODULE 5							
1.	07-10-2026	Module 5: Energy Audit of Buildings & Demand Side Management Energy-saving measures in new buildings	ICT				
2.	09-10-2026	Water audit: need and methodology	ICT				
3.	12-10-2026	General energy-saving tips applicable to all buildings	ICT				
4.	14-10-2026	Demand side management (DSM): Scope and evolution	Chalk and Talk				
5.	16-10-2026	DSM planning and implementation	ICT				
6.	19-10-2026	Load management as a DSM strategy; Applications of load control	ICT				
7.	21-10-2026	End-use energy conservation; Tariff options for DSM	ICT				
8.	23-10-2026	Case studies & wrap-up; project guidance	ICT				



Department of Electrical and Electronics Engineering

	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:	