

LESSON PLAN

(Academic Session: Aug.-Dec., 2025)

Program Name	Electrical Engineering
Course Title	Electric Vehicles Laboratory
Course Code	EEPC-208
Semester	5 th
Course Teacher Name	Ved Prakash Verma

Evaluation Scheme

Evaluation Scheme																Total Marks
Sr. No.	Subject Code	Subject	Study Scheme			Total Study Hours	Credits	Evaluation Scheme								
								Internal Assessment			External Assessment					
			Th	Pr	DCS			Th	Pr	Total	Th	Hrs	Pr	Hrs	Total	
1	EEPC-206	IS&SEM	-	2	1	2	1	-	40	40	-	-	60	3	60	100

References Books

1. Iqbal Husain, *Electric and Hybrid Vehicles: Design Fundamentals*, CRC Press, 2nd Edition, 2011.
2. Mehrdad Ehsani, Yimin Gao, Sebastien E. Gay, Ali Emadi, *Modern Electric, Hybrid Electric, and Fuel Cell Vehicles: Fundamentals, Theory, and Design*, CRC Press, 2nd Edition, 2009.
3. Ali Emadi, *Advanced Electric Drive Vehicles*, CRC Press, 2014.

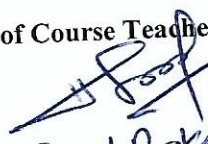
Course Outcomes (Cos)

CO-1	Demonstrate the constructional layout of EVs and HEVs through block and schematic diagrams, identifying key components and their functions
CO-2	Analyze and compare vehicles and battery technologies based on economic, environmental, and performance criteria using case studies and market surveys
CO-3	Prepare technical reports and safety guidelines related to EV charging, battery usage, and handling procedures for EVs and HEVs

Practical Performing Plan

No. of Lab. Classes Planned	Practical to be perform/conduct	Proposed date (as per time table)		Actual Date		Remarks
		G-I	G-II	G-I	G-II	
1	Develop block diagram of Electric vehicle and identify parts.	5,12,19-08-2025	7,14-08-2025			
2	Case study- Compare minimum four vehicles for economic and environmental analysis.	26-08, 02-09-2025	21,28-08-2025			
3	Develop schematic diagram of hybrid electric vehicle and identify various components.	09,16,23,-09-2025	4,11-09-2025			
4	Prepare report on Plug in Electric vehicle by visiting a charging station.	30-09, 14-10-2025	18,25-09-2025			
5	Prepare a report on batteries used from market survey.	21,28-10-2025	09,23-10-2025			
6	Case study- Compare various types of batteries used in electric vehicles.	04,18-11-2025	30-10, 06-11-2025			
7	List safety procedures and schedule for handling HEVs and EVs.	25-11-2025	20-11-2025			

Signature of Course Teacher with Name


(Ved Prakash)
Head, DOEE

Approved by


Principal
ABVGIT, P/Nagar