



GOVERNMENT POLYTECHNIC, NABARANGPUR

DEPARTMENT OF AUTOMOBILE ENGINEERING

Discipline: AUTOMOBILE ENGG	Semester: 6TH	Name of the Teaching Faculty: Sri Rabindra Prasad Rath
Subject: ELECTRIC VEHICLE LABORATORY	No. of days/per week class allotted: 04	Semester From date: 04.02.2025 To Date: 17.05.2025 No. of Weeks: 15
COURSE OUTCOMES	1. The aim of this course is to help the student to attain the following industry identified competency through various teaching learning experiences. 2. Maintenance of electric vehicles	
Week	Class Day	Theory/Practical Topics
1 ST	1-2	INTRODUCTION
	3-4	Develop block diagram of Electric vehicle and identify parts
2 ND	1-2	Contd.
	3-4	Case study- Compare minimum four vehicles for economic and environmental analysis
3 RD	1-2	Contd.
	3-4	Contd.
4 TH	1-2	QUIZ AND ASSIGNMENT
	3-4	Develop schematic diagram of hybrid electric vehicle and identify the components fluorescent lamp.
5 TH	1-2	Contd.
	3-4	Prepare report on Plug in Electric vehicle by visiting a charging station
6 TH	1-2	Contd.
	3-4	Contd.
7 TH	1-2	Inspect and install inverter of given lead acid battery
	3-4	Contd.
8 TH	1-2	Contd.
	3-4	QUIZ AND ASSIGNMENT
9 TH	1-2	Prepare a report on batteries used from market survey
	3-4	Contd.
10 TH	1-2	Contd.
	3-4	Collect specifications of converters and inverters used for Electric vehicles a single lamp control by two switches
11 TH	1-2	Contd.
	3-4	QUIZ AND ASSIGNMENT
12 TH	1-2	Diagnose, repair and maintain battery used in electric vehicle
	3-4	Contd.
13 TH	1-2	QUIZ AND ASSIGNMENT
	3-4	Prepare test procedure for equipment used in Electric vehicle
14 TH	1-2	Contd.
	3-4	List safety procedures and schedule for handling HEVs and EVs
15 TH	1-2	LAB RECORD SUBMISSION
	3-4	LAB RECORD SUBMISSION

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R. K. Rath
Sign. Of Faculty
Concerned

S. K. Mishra
Sign. Of HOD IC

R. K. Mishra
Academic Coordinator

Sl. No.	Name of the Teacher Faculty	Signature	Remarks
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S. K. Mishra
Principal