



। ऋते ज्ञानात्र मुक्ति ।

Dwarka Bahu Uddeshiya Gramin Vikas Foundation's

# Rajarshi Shahu College of Engineering, Buldhana

DTE CODE - EN 1125

COLLEGE UNI. CODE - 363

(AICTE Approved Vide Letter No. F. No. 06/07/MS/Engg./2008/24, 29 June, 2008)  
(Affiliated to Sant Gadge Baba Amravati University, Amravati)

**Mr. Dhrupatrao Sawle** (Ex.MLA)  
President

**Dr. J. P. Kaware** (M.E,Ph.D.)  
Principal

Outward No.RSCE/ ESTH/157/2025

Date - 30/01/2025

To,  
Prof. P.S.Manmode,  
MSS's CET  
Jalna.

**Subject :** Invitation as a Resource Person for Guest lecture.

**Respected Mam,**

It's our immense pleasure to inform you that, we are going to organize guest lecture on "Electric Vehicle" on 5<sup>th</sup> October 2024 at 12:30 pm onwards for the students of First year Diploma in Engineering of all branches. So, we are kindly requesting you, please accept our invitation and give your valuable time & enlighten us.

Thanking you

  
**Principal**

Rajarshi Shahu College of  
Engineering, Buldana



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Date - 30/01/2025

## Letter Of Appreciation

This is to certify that **Prof. P.S.Manmode** delivered an informative and thought provoking lecture as a guest speaker on "Electric Vehicle" to be held on **5<sup>th</sup> October 2024** in association with Rajarshi Shahu Polytechnic college,Buldana.

It was really splendid presentation which exposes to implement best practices for understanding need to learn the architecture of Electric Vehicle. All the students appreciated and benefited from your views on subject looking forward for your cooperation in future as well.



**Principal**  
Rajarshi Shahu College of  
Engineering, Buldana



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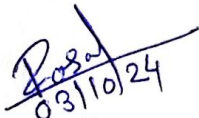



03/10/2024

## Department Of Electrical Engineering

### Notice – Guest Lecture

All the First Year students Of Diploma Engineering (all Branches) are hereby informed that we are going to conduct a Guest Lecture on the topic of 'Electric Vehicle' to get informative knowledge regarding the basic information about Electric vehicle dated on 5<sup>th</sup> October 2024. All students remain present for the seminar at Seminar Hall.

  
03/10/24  
Incharge Of Event

  
HOD  
Department of Electrical Engineering  
Rajarshi Shahu College of Engineering  
Buldhana.

  
Principal  
Rajarshi Shahu College of  
Engineering, Buldana.

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## Summary Report – Guest Lecture

### Electric Vehicle

Academic Year : 2024-25

Date: -10/11/2024

#### Overview:

Rajarshi Shahu college of Engineering & Polytechnic, Buldhana arranged a Guest lecture on the topic of '**Electric Vehicle**' for Polytechnic students including all branches. As per the scheduled date, the guest lecture held on **5<sup>th</sup> October 2024**. Everyone is attracted towards the Electric Vehicle because it is growing rapidly in recent years due to the increasing importance of it. **Prof. P.S.Manmode (Assistant Professor)** delivered lots of knowledge regarding the Electric Vehicle. There are **55** Students present during the lecture.

#### Program Structure:

##### 1. Introduction (30 minutes):

Introduction and history about Electric Vehicles and types of electric vehicles.

##### 2. Construction and Working Principle of Electric Vehicle (60 minutes):

Architecture of Electric vehicles including various components presents in it and explain all the functions of each block like:-

i) **Power Supply:** Electric vehicle uses a battery so it requires a dc supply for its operation. Depending upon the type of supply available, it will be converting with the help of adapter.

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## Rajarshi Shahu College of Engineering, Buldana

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ii) **ON Board Charger:** It is used for converting AC to DC supply so that it helps for charging of batterie.

iii) **Power Converter like Buck Converter :** Most of the auxiliary loads require less dc power supply. With the help of Step down converter, the high dc voltage is converting into low dc voltage.

iv) **Lithium-Ion Battery (Main Battery):** It is the heart of Electric Vehicle because every load takes the supply from the main battery. Generally Lithium Ion Battery is used due to its various advantages.

v) **Battery Management System:** BMS is the brain of Electric Vehicle, Without BMS, EV does not work properly, because It acts as a controlling device in it. It can control all the blocks.

vi) **Auxiliary Battery:** It is used for operating auxiliary loads like head light, bulb, radio, Bluetooth, wipers, music etc.

viii) **AC or DC Motor :** Depending upon the manufacturing of EV, which type of motor is used in it. In case of Tesla, they are using induction motor instead of DC motor. These motors can drive the vehicle.

### 3. Q&A and Feedback (30 minutes):

Open discussion where students share insights and questions, reinforcing the concepts learned.

**Conclusion:** The two-hour Guest Lecture effectively introduced essential theories and practical skills for Electric Vehicle. Students have gained some knowledge about each blocks and how to work of each component present inside it.

### Resource Persons:

The program's success can be attributed to the expertise of the resource persons, Prof. P.S. Manmode from MSS's CET, Jalna. Their guidance and knowledge enriched the learning experience.



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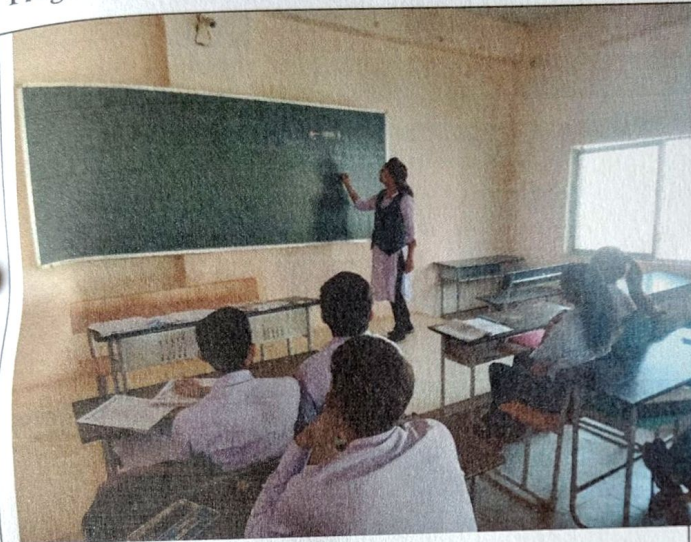
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### Program Photos;



Guest delivering architecture of EV



Question & Answer (Q & A) Session



Group Discussion with Students



Introductory Session

*Posh*  
10/11/24

Program Co-ordinator

*Posh*

Department of Electrical Engineering  
Rajarshi Shahu College of Engineering  
Buldhana.

*Prin*

Principal

Principal

Rajarshi Shahu College of  
Engineering, Buldana

# RAJARSHI SHAHU COLLEGE OF ENGINEERING, BULDHANA

Department of Electrical Engineering

Attendance

Class: Second Year (3<sup>rd</sup> sem)

Date: 03/10/2024

Program name: Guest Lecture on "Electric Vehicle"

Sr.No.	Name of Students	Sign
1)	Pratibha Nagesh Tayade	
2)	Pankaj Ananda Gudekar	
3)	Pranav Pankaj Patil	
4)	Rushikesh Gajanan Kudalkar	
5)	Aadash Ninaji Bhandarkar	
6)	Nikita Shategham Misal	
7)	Hitesh Ganesh Patil	
8)	Gajanan Santosh Solanki	
9)	Niyati Subhash Bendarkar	
10)	Om Ravindra Dhargalkar	
11)	Gitendra Prakash Vanjari	
12)	Yogesh Gajanan Suryshc	
13)	Arjun Raju Kshirsagar	
14)	Hanshad Anil Devmane	
15)	Pranav Vijay Solanki	
16)	Sheuti Parulwarang Dhure	
17)	Suleeta Sunil Jubawhade	
18)	Shivraj Vishnu Nagesh	
19)	Mangesh P. Gite	
20)	Yogesh Anil Shinde	
21)	Nakul Ashok Chandharni	
22)	Prathmesh Ashok Sonone	
23)	Ati P. Prasad	
24)	Pranav Raju Bhatnagar	
25)	Yash Sanjay Chopade	
26)	Yogesh Anil Shinde	
27)	Abhisit Ashmukh	
28)	Sanket Snehasan Padm	
29)	Aniket Parmeshwar Sardar	
30)	Anand bhapat Awasarmoj	
31)	Ati Parmod Prasad	
32)	Vijay Raju Sardar	
33)	Calit Gajanan Kale	
34)	Ayush Gangadhar Metre	
35)	Shubh Anshul Patil	
36)	Rutvik Raju Changan	
37)	Yashwanth Sanjay Chopade	
38)	Sanket Snehasan Padm	
39)	Gaurav G. Bhatnagar	
40)	Nagesh An. A. Patil	

**RAJARSHI SHAHU COLLEGE OF ENGINEERING,  
BULDHANA**  
**DEPARTMENT OF ELECTRICAL ENGINEERING**

Academic Year: 2024-25  
Attendance Sheet

Date : 03/10/2024

Program Name :  
Class / Sem : Final Year (7<sup>th</sup> sem)

Roll No	University Roll No.	Name of Students	Sign
1.	21BF310095	Mohammad Matin Shaikh Taher	<u>Matin</u>
2.	22BF310072	Aakash Nivrutti Narkhede	<u>Aakash</u>
3.	22BF310074	Abhishek Shailesh Patil	<u>Abhishek</u>
4.	22BF310075	Achal Mahadeo Paisode	
5.	22BF310076	Ajinkya Shyamrao Deshmukh	
6.	22BF310078	Akshay Ananda Mangalkar	<u>Akshay</u>
7.	22BF310079	Amit Bhaskar Joshi	<u>Amit</u>
8.	22BF310080	Anand Gajanan Sangle	<u>Anand</u>
9.	22BF310081	Anand Sudhakar Hirole	<u>Anand</u> <u>Abhishek</u>
10.	22BF310082	Ashish Sarangdhar Akotkar	<u>Ashish</u>
11.	22BF310083	Ashlesha Subhash Dige	
12.	22BF310085	Chinmay Subhash Mankare	<u>Chinmay</u>
13.	22BF310086	Ganesh Panjabrao Deshmukh	<u>Ganesh</u>
14.	22BF310087	Gaurav Gajanan Gadekar	<u>Gaurav</u>
15.	22BF310088	Hemant Padmakar Patil	
16.	22BF310089	Nitesh Anant Kolte	<u>Nitesh</u>
17.	22BF310092	Rohini Devanand Dongare	
18.	22BF310093	Rohit Ravindra Bavaskar	
19.	22BF310094	Roshan Nilkanth More	<u>Roshan</u>
20.	22BF310095	Roshan Sanjay Suralkar	<u>Roshan</u>
21.	22BF310097	Sagar Jagdish Jadhao	<u>Sagar</u>
22.	22BF310098	Sangam Sandesh Khoptkar	<u>Sangam</u>
23.	22BF310099	Shaikh Faraz Abdul Hameed	<u>Faraz</u>
24.	22BF310100	Sneha Sanjay Khutafale	
25.	22BF310101	Snehal Dnyaneshwar Chanda	<u>Snehal</u>
26.	22BF310102	Swapnil Dipakrao Nagpure	<u>Swapnil</u>
27.	22BF310103	Tejas Anil Karande	
28.	22BF310104	Uday Fulchand Patalbansi	
29.	22BF310105	Vaibhao Premchand Rathod	<u>Vaibhao</u>
30.	22BF310106	Vaishali Purnaji Dhule	<u>Vaishali</u>
31.	22BF470001	Akash Bhimrao Khade	<u>Akash</u>