PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

ADB Road, Surampalem,533 437

Approved by AICTE & Permanently Affiliated to JNTUK Kakinada & Accredited by NBA & NAAC with 'A+' Grade

ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT

Academic Year: 2025-26

Date: 18.06.2025

CIRCULAR

It is to inform all the students of BTech II, III & IV Year that the **Electric Vehicles Club (EVC)**, Department of Electrical & Electronics Engineering is organizing a session on **"Electric Vehicles Transport System"** to be held on **20-06-2025.**

This event aims to create awareness among students about electric vehicle-based transport systems, their environmental benefits, operational models, and future integration in smart cities.

The session will be delivered by Club Members of EVC.

Interested students are invited to participate as per the schedule below:

- Date & Time of Event: 20.06.2025 | 2:00 PM - 4:00 PM
- Venue: MS-10

For further details, please contact the event coordinators.

Faculty Coordinator

Mr. P.V.V. Ramana, Asst. Professor, EEE Dept

Student Coordinator

G. Chiranjivi, IV EEE

Electric Vehicles Club

Copy to:

1. Circulate among students and staff
2. Department Notice Board
3. Department File
4. Principal for Information

HOD-EEE 18/6/25

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ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT

ELECTRIC VEHICLES CLUB REPORT

I. Club Information

- Club Name: Electric Vehicles Club (Pragati Engineering College)
- Date: 20.06.2025
- Event Name: Electric Vehicles Transport System
- Student Coordinator: G. Chiranjivi, IV EEE
- Faculty Coordinator: Mr. P.V.V. Ramana, Asst. Professor, EEE Dept

II. Executive Summary

The Electric Vehicles Club of Pragati Engineering College conducted a technical session on "My Electric Vehicles Transport System" on 20 June 2025. This event aimed to educate students on the concept of electric vehicle-based public and personal transport systems, their environmental benefits, and their significance in building a sustainable future for urban mobility. The session explored the basic structure of EV transport networks, system components, operational models, and future possibilities for the integration of electric mobility solutions in smart cities.

III. Concept of EV Transport Systems

The session started with an introduction to the idea of an electric vehicle (EV) transport system, explaining how it can replace conventional fuel-based transportation, significantly reducing carbon emissions and dependency on fossil fuels. The advantages such as reduced air and noise pollution, lower operating costs, and improved public health were highlighted.

IV. Components and Structure of EV Public Transport

Participants were briefed about the essential components that make up an efficient EV transport network, including:

- Electric Buses and E-Autos for mass public transit.
- Charging Infrastructure, strategically located at bus depots, parking spaces, and public areas.
- Battery Management Systems (BMS) to monitor and optimize vehicle performance.

- Fleet Monitoring and Control Systems for real-time tracking, route optimization, and energy management.

V. Challenges in Implementing EV Transport Systems

The event emphasized the practical challenges involved in setting up large-scale EV transport systems, such as:

- High Initial Investment for vehicles, charging stations, and supporting infrastructure.
- Battery Range Limitations impacting long-distance travel feasibility.
- Grid Load Management Issues during peak charging hours.
- Public Awareness and Adoption hurdles due to lack of information and initial reluctance to shift from conventional vehicles.

VI. Future Prospects and Smart City Integration

Students were introduced to future trends and innovations, including:

- Battery Swapping Stations for quicker turnarounds in public transport.
- Integration with Renewable Energy Sources like solar and wind-powered charging hubs.
- Use of AI and IoT in managing EV fleets for smart cities.
- Government Policies and Incentives aimed at promoting electric mobility nationwide.

VII. Conclusion

The session on My Electric Vehicles Transport System successfully increased awareness about the importance and potential of EV transport networks. It provided students with valuable insights into how electric mobility can revolutionize urban public transport systems while contributing to environmental protection.

The event was well-received by the attendees, with 35 participants actively taking part, and concluded with an interactive discussion on upcoming opportunities in the electric vehicle sector.

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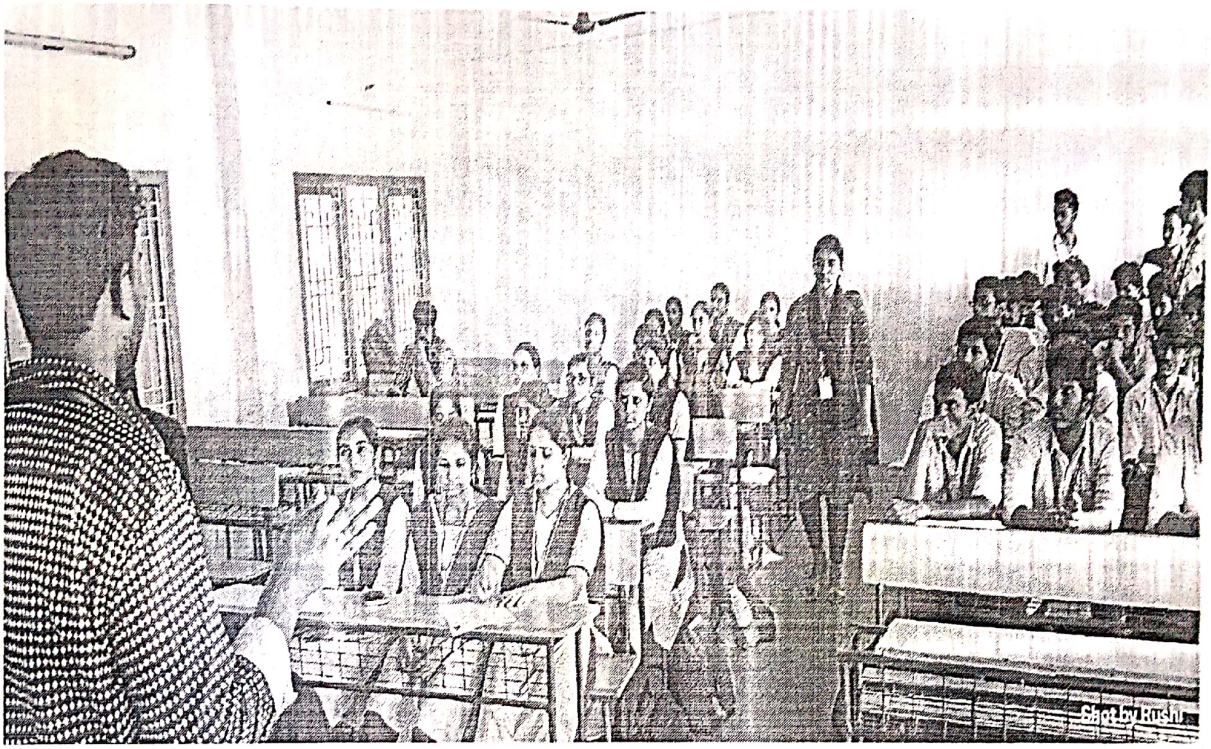
ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT

PHOTOS



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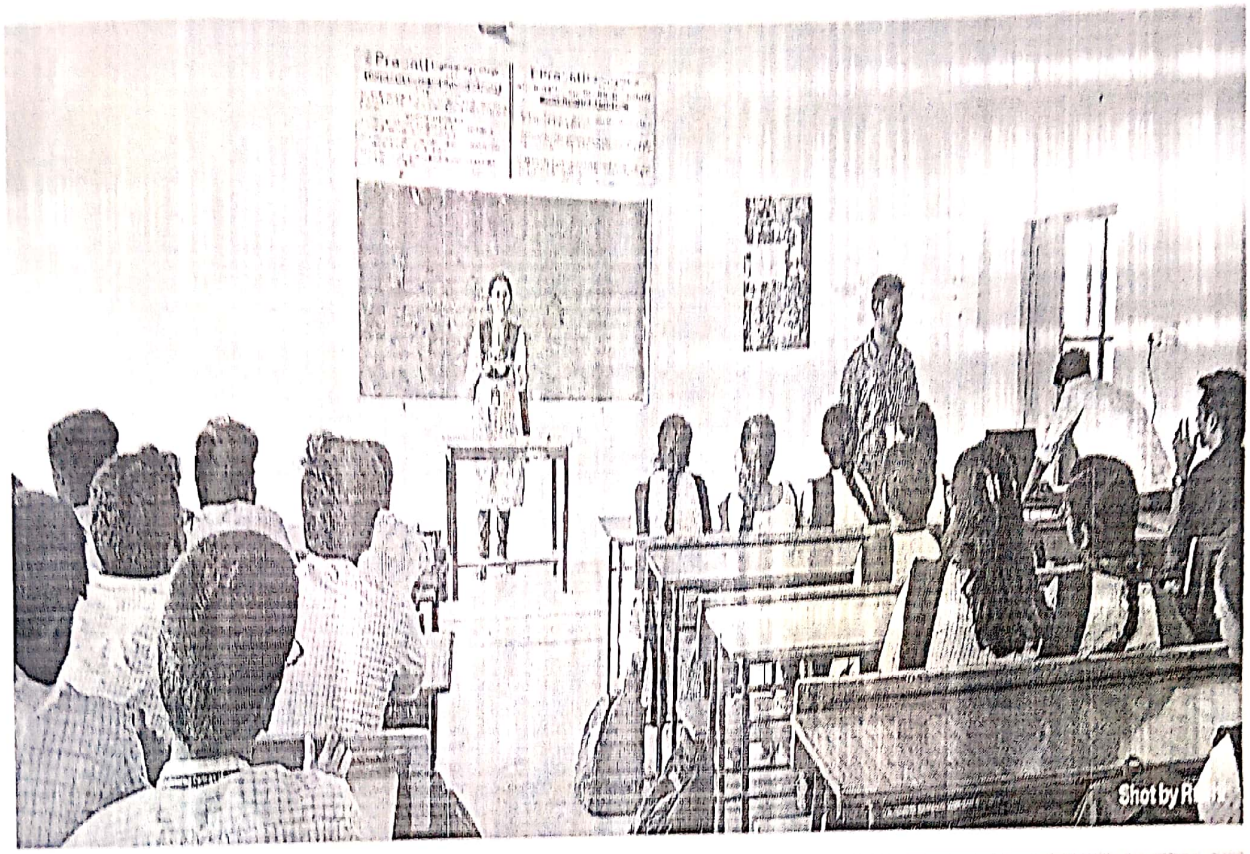

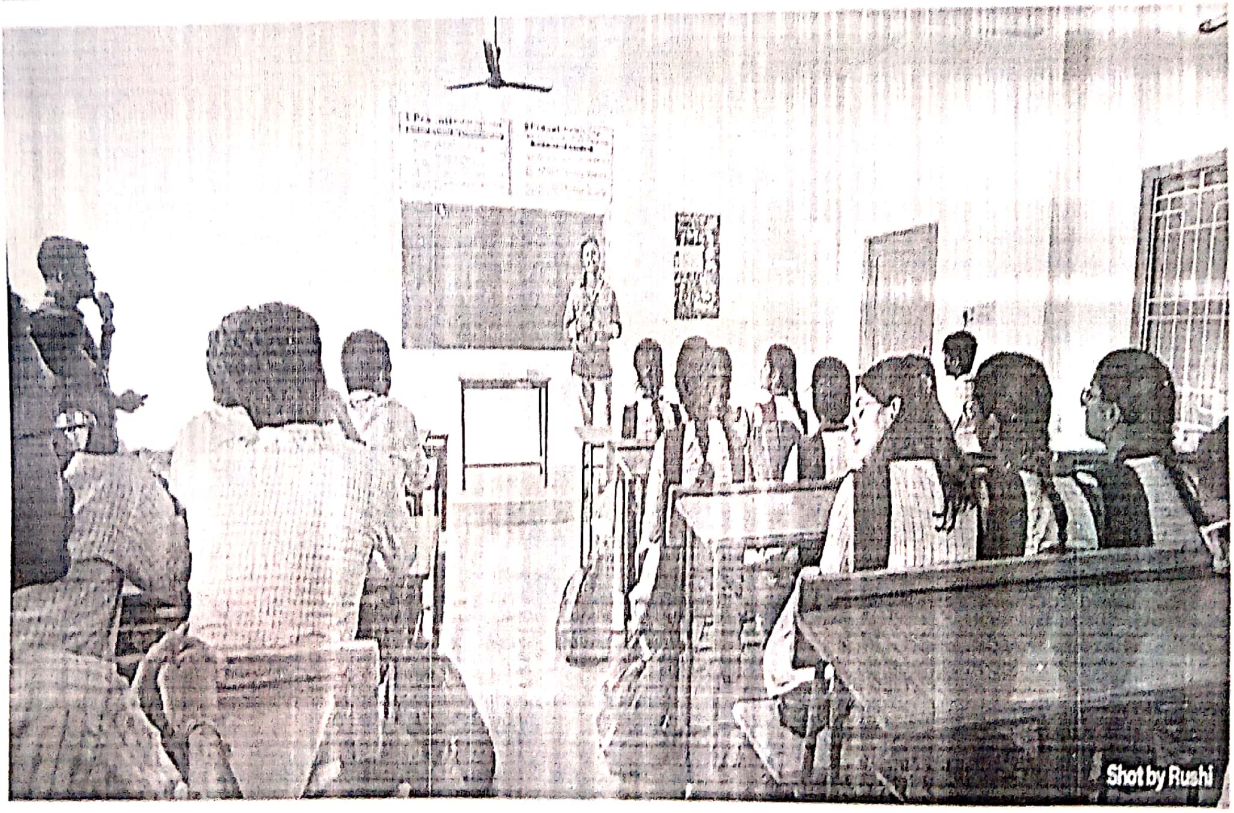

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ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT

POSTER

Faculty Coordinator
Mr. P.V.V. Ramana, Asst. Professor, EEE Dept

Student Coordinator
G. Chiranjivi, IV EEE

Electric Vehicles Club PEC.

20/6/25

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ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT

ELECTRIC VEHICLES CLUB

Title of the Event: Electric Vehicle Transportation System

Event No: 1

Speaker / Resource Person of Event: Uma

Date of the Event: 20/06/2025 **Time:** 2Pm to 4PM **Venu:** MS-10

List of Students Attended

III EEE

S.NO	ROLL NO	NAME	BRANCH	YEAR	SIGNATURE
1	23A31A0238	M. Ram	EEE	III	
2)	23A31A0260	A. Satya ganesh	EEE	III	A.S ganesh.
3)	23A31A0229	E. Himavansha	EEE	III	E. himavansha.
4)	23A31A0233	Ketan jain	EEE	III	Ketan jain
5)	23A31A0256	Vikas	EEE	III	vikas.
6)	23A31A0244	M. Karthik	EEE	III	M Karthik
7)	24A35A0208	B.S.S.kiran	EEE	III	B.S.S kiran
8)	24A35A0201	Ambika	EEE	III	Ambika
9)	24A35A0206	D Dharma Teja	EEE	III	Dharmateja
10)	24A35A0209	G. Sai Ram	EEE	III	Sairam
11)	24A35A0205	D. Sai Venkat	EEE	III	Sai Venkat
12)	24A35A0204	B. Pramodh	EEE	III	B. Pramodh
13)	24A35A0210	Narendra	EEE	III	Narendra
14)	24A35A0207	Shanmuk	EEE	III	Shanmuk
15)	24A35A0211	Dorababu	EEE	III	Dorababu.
16)	24A35A0212	Sai-srinvas	EEE	III	Sai Srinivas.
17)	24A35A0202	Shamshadh	EEE	III	Shamshadh
18)	24A35A0203	Shalini	EEE	III	Shalini.
19)	23A31A0245	Sai Teja	EEE	III	Sai teja
20)	23A31A0229	Himavarsha	EEE	III	H. Varsha.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ELECTRICVEHICLESCLUB

Title of the Event: Electric Vehicles Transportation System

Event No: 01

Speaker/Resource Person of Event: Uma

Date of the Event: 20/06/2025 **Time:** 2pm to 4pm **Venue:** MS10

List of Students Attended

IV EEE

S.NO	ROLLNO	NAME	BRANCH	YEAR	SIGNATURE
1	23A35A0221	P. Deepika	~~EEE~~	4th	P. Deepika
2	22A31A0257	G. Anjani	EEE	4th	G. Anjani
3	22A31A0263	M.D.V.Chandusriya	EEE	4th	M. Sriya
4	22A31A0258	K. CharikaRani	EEE	4th	K. Charika
5	22A31A0255	D. Prameela	EEE	4th	D. Prameela
6	22A31A0268	R. Harika	EEE	4th	R. Harika
7	23A35A0227	B. Hemanth kumar	EEE	4th	B. Hemanth kumar
8	23A35A0229	Ch. surya teja	EEE	4th	Ch. surya teja
9.	22A31A0294	P. venkata dasu	EEE	4th	P. Dasu.
10.	22A31A0298	P. venkatesh	EEE	4th	P. Venkatesh.
11.	22A31A0280	G.V. Rama krishna	EEE	4th	Krishna.
12.	22A31A0284	K. Satish kumar	EEE	4th	Satish.
13.	22A31A0283	K. Satish kumar	EEE	4th	Satish.
14.	22A31A0290	M. Naresh	EEE	4th	Naresh.
15.	22A31A0288	M. Bharath Raghu	EEE	4th	Bharath
16.	22A31A0274	B. Veerababu	EEE	4th	Veerababu.

EV CLUB CO-ORDINATOR

D. Suresh.

IQAC CELL

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20/6/25