

TECHNICAL TALK ON "ELECTRIC VEHICLES FOR E-MOBILITY"

#Electric

#Vehicles

#(EVs)

#e-Mobility

#Battery

#Technology

#Motor

#Controllers

#Hybrid

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TKR College of Engineering & Technology Department of Electrical and Electronics Engineering, in association with IEEE Power Electronics Society Student Branch Chapter & IEEE Student Branch, proudly presents a Technical Talk on "Electric Vehicles for e-Mobility" on 23rd July 2025 at TKRCET Auditorium, focusing on innovations, components, and future trends in electric mobility.

The Department of Electrical and Electronics Engineering, in collaboration with the IEEE Power Electronics Society Student Branch Chapter and the IEEE Student Branch, organized a technical talk on "Electric Vehicles for e-Mobility" on Wednesday, 23rd July 2025, from 10:00 AM to 4:00 PM at the TKRCET Auditorium, TKR College of Engineering and Technology. The event began with a warm welcome by Dr. K. Raju, HOD of the EEE Department, followed by an introduction to the program by Ms. Mariya Mahve Syeda, Chair of the IEEE Power Electronics Society Student Chapter, and a message of support from the Principal, Dr. D. V. Ravishankar. Chaired by Dr. P. V. Rajgopal, General Manager (Retired), BHEL/Corporate R&D, and Senior Member IEEE (90447214), the session provided an insightful overview of electric vehicles and the latest e-mobility technologies, highlighting the technical skills students need to excel in the evolving industry. Dr. Rajgopal discussed the development of EVs, their components, and innovations shaping sustainable transportation, covering topics such as electric motors (induction, BLDC, and synchronous reluctance), controllers, generations of EVs, batteries, fuel cells, and hybrid systems, as well as current trends, benefits, and future prospects. The talk encouraged active student participation and offered opportunities to discuss recent advancements in EV technology, aiming to broaden participants' understanding and inspire further exploration. Successfully coordinated by Mr. Aderla Anjaiah, IEEE Power Electronics Society Student Branch Chapter Advisor, the event concluded with a heartfelt vote of thanks by Mrs. K. Naga Maha Lakshmi, IEEE Student Branch Counselor, expressing gratitude to the resource person, management, advisors, volunteers, and participants. In total, 90 undergraduate students, 11 faculty members, and 23 IEEE student members attended, and the day ended with a group photo, capturing a moment of pride and promise for the future.





- 🕒 DATE AND TIME
- 📍 LOCATION
- ✉ HOSTS
- 🏷 REGISTRATION

Date: **23 Jul 2025**

Time: **10:00 AM IST to 04:00 PM IST**

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TKR College of Engineering &Technology

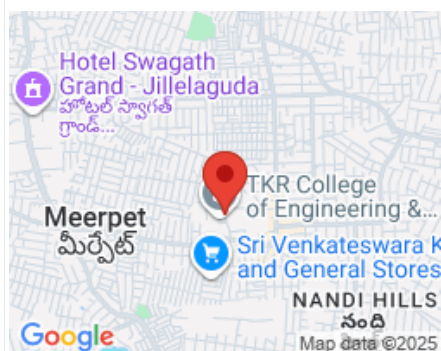
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India 500097

Building: The Department of Electrical and Electronics Engineeringg

Room Number: IT Seminar Hall



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SPEAKERS

Dr. P.V.RAJGOPAL

Topic: Technical Talk on "Electric Vehicles for e Mobility"

The Department of Electrical and Electronics Engineering, TKRCET, organized a technical talk on "**Electric Vehicles for e-Mobility**" on 23rd July 2025, delivered by **Dr. P. V. Rajgopal**, Former General Manager, BHEL/Corporate R&D.

The session explored EV technologies, components, motors, and emerging trends, providing insights into the skills needed for the evolving e-mobility industry.

With enthusiastic participation from 90 students, 11 faculty, and 23 IEEE members, the event concluded successfully, inspiring interest in sustainable transportation.

Biography:

Dr. P. V. Rajgopal is a distinguished Power Electronics expert with over **36 years of experience** at **BHEL Corporate R&D**, where he retired as Additional General Manager (Power Electronics Systems Group). He holds a **B.Tech in EEE** from NIT Warangal, a **Ph.D. in Power Electronics** from IIT Bombay, and a **PGDM in Marketing** from AIMA Delhi. A **Senior Member of IEEE**, he has held several leadership positions, including **Chair (2018–2020) of the PES/IAS/PELS Joint Chapter, IEEE-Hyderabad Section**.

He has **3 patents and 12 publications**, and was instrumental in developing India's first electric mini-bus in 1982, later manufactured and deployed widely, including for eco-friendly transport near the Taj Mahal. His innovations span **EVs, AC & DC drives, special power supplies, solar PV plants, fuel cell systems, and high-power motor drive systems** for railways and power plants.

Post-retirement, Dr. Rajgopal works as an **Independent Consultant, Academic Mentor, and Professional Trainer**, delivering over **100 expert lectures** on EVs, renewable energy, and power electronics. He has also served as advisor to startups, member of syllabus boards, and reviewer for government projects of national importance. His expertise covers **electric & hybrid vehicles, energy storage systems, renewable integration, and advanced drive systems**.

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Agenda

Technical Talk on "Electric Vehicles for e-Mobility"

Date: Wednesday, 23rd July 2025

Time: 10:00 AM – 4:00 PM

Venue: IT Seminar Hall TKR College of Engineering and Technology

Time	Activity
10:00 AM	Welcome Address – Dr. K. Raju, HOD, EEE Department
10:10 AM	Program Introduction – Ms. Mariya Mahve Syeda, Chair, IEEE PES SBC
10:20 AM	Principal's Remarks – Dr. D. V. Ravishankar
10:30 AM	Opening of Technical Talk – Chaired by Dr. P. V. Rajgopal
10:40 AM – 1:00 PM	Session 1: Overview of Electric Vehicles, History & e-Mobility Trends
1:00 PM – 2:00 PM	Lunch Break
2:00 PM – 3:30 PM	Session 2: EV Motors (Induction, BLDC, Synchronous Reluctance), Controllers, Battery & Fuel Cell Technologies
3:30 PM – 3:50 PM	Interactive Q&A Session
3:50 PM	Vote of Thanks – Mrs. K. Naga Maha Lakshmi, IEEE Student Branch Counselor
4:00 PM	Group Photo & Event Closure

124 participants (90 students + 23 IEEE members + 11 faculty) attended the Technical Talk on "Electric Vehicles for e-Mobility."

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