

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Guest Lecture on

Electric Vehicles and its Future Prospect

REPORT

The department of Electrical and Electronics Engineering has organized a Guest Lecture on "Electric Vehicles and its Future Prospect" on 12thOctober, 2023.

Beneficiaries	:	III Year Students (9) & IV Year Students (15)
Date	:	12-10-2023
Session Time	:	07.30 P.M to 08.30 P.M
Venue	:	Online (Meet Link: <u>http:// meet.google.com/kyx-uhfj-rje)</u>
Resource Person	:	Mr. R. Venkedesh, M.E., (Ph.D)
		HOD/Assistant Professor
		Department of EEE
		Shri Venkateshwaraa College of Engineering & Technology, Puducherry.

The main objective of this Guest Lecture is to impart knowledge on various applications of Electric vehicles in the field of Power System Engineering.

The Guest Lecture session started with the welcome address delivered by Mr.S.Naveen Prakash AP/EEE. After the welcome address, Mr.S.Naveen Prakash AP/EEE has introduced the resource person, Mr.R.Venkedesh to the participants and in addition he also mentioned the various academic and research contributions of the resource person in the field of Power System and Power Electronics.

The resource person started the session through interaction with the students about their basic knowledge in the field of Electric Vehicles in Power System. He also asked few questions regarding the applications of Electric Vehicle in the various fields of engineering to the students. Then, the resource person started the presentation by explaining the basic concept of electric vehicle and its operation. Later, he explained the basic Electric Vehicle operation using a simple block diagram. During the block diagram presentation, he explained the functions of various blocks involved in the of operation of Electric Vehicle. Further, he demonstrated the different types of Electric Vehicle available in Power System. He gave a detailed explanation about each and every function by addressing its basic function, types of Electric Vehicle, type of batteries used and the various functionalities involved in Electric Vehicle operation.

After the detailing of different types of EV, batteries used in EV and various strategy used for charging and discharging in EV he explained the application of EV. Finally, he explained about the application of Electric Vehicles in power system and how the involvement of Power Electronic devices in Electric Vehicle to improves the efficiency of the system. Along with discussing the numerous uses and benefits of electric vehicles in power systems.

Finally, he gave a deeper insight on thrust areas of research in the field of Power System and also the scope for future research. He also motivated the students to do their projects in Power System domain and also gave useful inputs regarding higher studies in Power System in India and foreign countries. At the end, he invited the queries and doubts from the students for discussion and clarification. Students asked some interesting questions and the resource person clarified their queries with the help of real time examples.

The guest lecture was completely motivating and it kindled student's interest towards the growing technologies in power system and its positive impact in power system operation. The session was absolutely very useful to our student community and it serves as a greater input to their final year projects. Finally, the Guest Lecture ended with the vote of thanks delivered by Mr.S.Naveen Prakash, AP/EEE.

Photographs of Lecture Sessions







Faculty In-Charge

HOD/EEE

J. Norue 16/10/23 Principal 16/10/23