



Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex

Report of Seminar on Motor Technologies for Electric Vehicles

Topic: Seminar on “Motor Technologies for Electric Vehicles”

Organized by: Department of Automobile Engineering, Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex. (In Association with IQAC)

Speaker: Mr. KC Vivek, Senior Manager, Technical Cell, Common Mobility, TVS Motor

Mr. A. Srikumar, Lead - R&D-EV Sys D&D & Vehicle Electronics, TVS Motor

Mr. Srinivasarao Penugurti, TVSM CMB (3W) Training Head, TVS Motor

Mr. Rajendra Mishra, Regional Service Manager (East), TVS Motor

Mr. Priyaranjan Ghosh - Territory Service Manager (West Bengal), TVS Motor

Date: 11th May 2026

Time: 11:30 AM onwards

Venue: Room No. 122 and TVSM Center of Excellence

No. of Participation: 31

Introduction:

The Department of Automobile Engineering of Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex, in association with IQAC, organized a seminar on “Motor Technologies for Electric Vehicles” on 11th May 2026. The seminar was arranged to provide students with knowledge about modern electric vehicle motor systems, recent developments in EV technology, and industry practices. The event brought together experienced professionals from the electric vehicle and automotive industry of TVS Motor who shared their practical knowledge and experiences with the participants.

Background:

The automobile industry is rapidly shifting towards electric mobility because of increasing environmental concerns, government policies, and the demand for sustainable transportation. Electric vehicles are becoming an important part of the future transportation system. Motor technology is one of the key components of EVs, directly affecting vehicle performance, efficiency, and reliability. Therefore, it is important for automobile engineering students to understand different types of electric motors, their working principles, applications, and future developments. Keeping this in mind, the department organized this seminar to bridge the gap between academic learning and industrial requirements.

Objectives:

The primary objectives of the seminar were:

- ❖ To provide knowledge about different motor technologies used in electric vehicles.

- ❖ To make students aware of the latest trends and advancements in EV systems.
- ❖ To develop understanding of EV motor control and vehicle electronics.
- ❖ To create interaction between students and industry experts.
- ❖ To enhance students' technical knowledge and career awareness in the EV sector.

Overview of the Webinar:

The seminar started at 11:30 AM in Room No. 122 with a welcome address by the faculty members of the Department of Automobile Engineering. The speakers were warmly welcomed and introduced to the participants.

Key highlights of the session included:

- ❖ Mr. KC Vivek discussed the importance of electric mobility and explained various motor technologies used in modern electric vehicles. He described the applications of BLDC motors, induction motors, and permanent magnet synchronous motors in EVs. He also explained the advantages and limitations of different motor systems.
- ❖ Mr. A. Srikumar delivered an informative session on EV system design and vehicle electronics. He explained battery management systems, motor controllers, and power electronics used in electric vehicles. His presentation helped students understand the integration of electrical and electronic systems in EVs.
- ❖ Mr. Srinivasarao Penugurti shared his industrial experience related to electric three-wheelers and training activities at TVSM. He explained practical challenges faced during EV manufacturing and maintenance. The session provided valuable industrial insights to the students.
- ❖ Mr. Rajendra Mishra and Mr. Priyaranjan Ghosh discussed service management, maintenance practices, and troubleshooting methods for electric vehicles. They highlighted the growing employment opportunities in the EV sector and encouraged students to upgrade their technical skills according to industry demands.
- ❖ After the technical sessions, students visited the TVSM Center of Excellence where they observed EV components, motor assemblies, and training facilities. The interaction session allowed students to ask questions and clarify their doubts directly with the experts.

Learning Outcomes:

After attending the seminar, participants were able to:

- ❖ Understand different types of motors used in electric vehicles.
- ❖ Gain knowledge about EV systems and vehicle electronics.
- ❖ Learn about industrial applications and maintenance practices of EVs.
- ❖ Understand recent technological advancements in electric mobility.
- ❖ Develop awareness regarding career opportunities in the EV industry.

Conclusion:

The seminar on “Motor Technologies for Electric Vehicles” was highly informative and beneficial for the students and faculty members. The expert speakers shared valuable technical knowledge and

practical industrial experience related to electric vehicles and motor technologies. The seminar successfully enhanced the understanding of students regarding EV systems, motor applications, and future opportunities in the automobile industry. The Department of Automobile Engineering expressed gratitude to all the speakers, participants, and organizers for making the event successful.



Seminar on “Motor Technologies for Electric Vehicles” conducted by department of Automobile Engineering in association with IQAC on 11/05/2026