

**A**  
*Report on*  
*Workshop*  
*on*  
***“EV and Industry 4.0 Technologies”***  
***October 14 - 19, 2024***



**Organized by:**  
**Department of Electrical Engineering**  
**&**  
**IE (I) Student Chapter**  
**Swami Keshvanand Institute of Technology, Management &**  
**Gramothan, Jaipur**

***Submitted by:***  
Dr. Prateek Kumar Singhal (Associate Professor)  
Mr. Tarun Naruka (Associate Professor)  
Mr. Vikas Mahala (Assistant Professor & Deputy Head)  
Mr. Deepak Saini (Assistant Professor)

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## **Our Inspiration**

“The main factor causing India's backwardness is widespread illiteracy. We must address it as soon as possible if we wish to see the country advance quickly”.

**–Swami Keshvanand**

Over 300 schools, 50 hostels, countless libraries, social service centres, and museums were founded by the illiterate, itinerant, and orphan Swami Keshvanand. He never got a formal education. The desert region's agricultural society was profoundly understood by Swami Keshvanand. He addressed the issues, provided acceptable and rational answers, and described the characteristics of the arid area. Eliminating social problems like untouchability, child marriage, debt, poverty, backwardness, alcohol misuse, moral decay, etc. was Swami Keshvanand's lifelong goal.

## **1. ABOUT SKIT**

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) has been ranked no.1 Engineering Institute in Rajasthan by RTU Kota consecutively for the last five years. The institute was established in the year 2000 by a team of committed professionals and academicians. During all the past years SKIT has emerged as a premier center of technical education not only in Rajasthan but also in Northern India which has been realized through efficient and dedicated faculty members, innovative teaching learning methods, and core value of discipline. The various undergraduate programmes of the institute are accredited by the National Board of Accreditation (NBA).

## **2. ABOUT DEPARTMENT OF ELECTRICAL ENGINEERING**

The Department of Electrical Engineering is distinctly focused towards integrating academics with cutting edge technology in the field of Electrical Engineering. The B.Tech Program has been accredited four times in succession by NBA since 2009. Department is also conducting M. Tech. and PhD Program in Power Systems specialization. All efforts are subtly harnessed with the

aim of preparing the budding engineers to face the challenging dimensions of technical excellence in areas such as Analog & Digital Electronics, Electrical Machines, Control & Automation, Power Systems Design and Power Electronics. The department puts in consistent efforts for field exposure to students through various research-oriented projects taken up for meeting the industry demands. The department offers a perfect blend of electrical, electronics and computer related courses to help students pursue a professional career or higher studies.

### **3. ABOUT THE WORKSHOP**

Clean and green technologies are innovative solutions designed to minimize environmental impact and promote sustainability. These technologies focus on reducing pollution, conserving resources, and improving energy efficiency. Examples include renewable energy sources like solar, wind, and hydropower, which reduce reliance on fossil fuels and lower greenhouse gas emissions. Additionally, advancements in waste management, such as recycling and biodegradable materials, help reduce environmental contamination. The adoption of these technologies is crucial for combating climate change, preserving biodiversity, and ensuring a healthier planet for future generations. By integrating clean and green technologies into industries, transportation, and everyday life, we can build a more sustainable and resilient world.

### **4. VISION, MISSION & QUALITY POLICY OF THE INSTITUTE:-**

#### **Vision**

To promote higher learning in advanced technology, management skills and industrial research to make our country a global player.

#### **Mission**

To promote quality education, training and research in field of Engineering by establishing effective interface with industry and to encourage faculty to undertake industry sponsored projects for students.

**Quality Policy**

We are committed to ‘achievement of quality’ as an integral part of our institutional policy by continuous self-evaluation and striving to improve ourselves. Institute would pursue quality in

- All its endeavors like admissions, teaching-learning processes, examinations, extra and co-curricular activities, industry institution interaction, research & development, continuing education, and consultancy.
- Functional areas like teaching departments, Training & Placement Cell, library, administrative office, accounts office, hostels, canteen, security services, transport, maintenance section and all other services.”



Swami Keshvanand Institute of Technology, Management &  
Gramothan, Jaipur, Rajasthan-302017



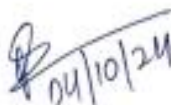
Department of Electrical Engineering

- Workshop materials, components, and tools.
- Experienced industry professionals to conduct sessions.

**Budget:** A proposed budget plan covering expenses for materials, equipment, refreshments, and guest speakers is as follows:

S.N	Item	Total
1	Expert remuneration	18,000 /-
2	Printing and other materials	4,000/-
3	Refreshments	1500/-
Total		23,500/-

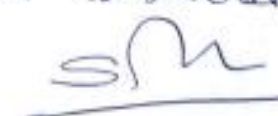
We kindly request your approval and support to organize this workshop in Electrical Engineering Department. This initiative aligns with our commitment to providing a comprehensive and practical education to our students.


  
04/10/24

Dr. Prateek Kumar Singhal  
Associate Professor, EED & Workshop Coordinator



Dr. Sarfaraz Nawaz  
Head-EED

Forwarded for  
kind consideration  


yes permitted.  
  
7/10/2024

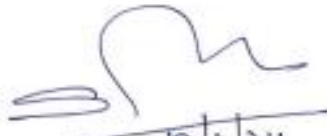
**Swami Keshvanand Institute of Technology,  
Management & Gramothan, Jaipur**

**Department of Electrical Engineering**

<b>Name of Event</b>	One-week hands-on workshop for students in EV and Industry 4.0 Technologies
<b>Date</b>	14-19 Oct., 2024

**Expenditure details**

<b>S.No.</b>	<b>Particular</b>	<b>Amount in Rs/-</b>
<b>1</b>	Honorarium (Bill No.1)	18000/-
<b>2</b>	Certificates (Bill No.2)	572/-
<b>Total</b>		<b>18572/-</b>

  
13/11/24  
**Dr. Sarfaraz Nawaz**  
**Head, EE Dept.**



## 5. WORKSHOP BROCHURE:-

**Patrons**  
Shri Raja Ram Meel, Patron, SKIT  
Shri Surja Ram Meel, Chairman, SKIT

**Advisory Committee**  
Shri Jaipal Meel, Director, SKIT  
Prof. S. L. Surana, Director (Academics), SKIT  
Smt. Rachna Meel, Registrar, SKIT  
Prof. Ramesh Kumar Pachar, Principal, SKIT  
Prof. R. K. Jain, Dean, SKIT  
Prof. Sarfaraz Nawaz, Head (EE), SKIT  
Prof. Anil Choudhary, Head (IT), SKIT  
Prof. Mehul Mahrishi, Head (CSE), SKIT  
Prof. Mukesh Arora, Head (ECE & OFA), SKIT  
Prof. Dheeraj Joshi, Head (ME & IQAC), SKIT  
Prof. D. K. Sharma, Head (CE), SKIT  
Prof. Rohit Mukherjee, Incharge, I Year, SKIT  
Prof. Amber Srivastava, Head (Maths), SKIT  
Dr. Sharda Soni, Head (Chemistry), SKIT  
Prof. Brajraj Sharma, Head (Physics), SKIT  
Prof. Neha Purohit, Head (English), SKIT  
Prof. Ona Ladiwal, Head (DMS), SKIT  
Prof. Sangeeta Vyas, Head (OSA), SKIT

**Faculty Members**

Prof. Dhanraj Chitara	Mrs. Deepti Arela
Prof. Virendra Sangtani	Mr. Jinendra Rahul
Dr. Suman Sharma	Mr. Jitendra Singh
Dr. Pooja Jain	Mr. Ajay Bharadwaj
Dr. Jyoti Shukla	Mohd. Yusuf Sharif
Dr. Sanjeev Kumar	Mr. Vivek Sharma
Dr. Abhishek Gupta	Mr. Avadhesh Sharma
Dr. Ankush Tandon	Mr. Garvit Gupta
Dr. Bharat Modi	Mr. Mahesh Meena
Ms. Smriti Jain	

**COORDINATORS**

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**STUDENT COORDINATORS**

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83022 14701

**Ms. Sadaf Khan**  
II Year (EE Dept., SKIT)  
9460041796

**One Week**  
**Hands-On Workshop**  
**for Students**

on

**"EV and Industry 4.0 Technologies"**

**14<sup>th</sup> - 19<sup>th</sup> October, 2024 (06 Days)**



**Organized by**  
**Department of Electrical Engineering,**  
**&**  
**Institution of Engineers (IEI)**




**Swami Keshvanand Institute of Technology,**  
**Management & Gramothan,**  
**Jaipur- 302017**  
[www.skit.ac.in](http://www.skit.ac.in)

**About SKIT, Jaipur**



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**Department of Electrical Engineering**

The Department of Electrical Engineering is distinctly focused towards integrating academics with cutting edge technology in the field of Electrical Engineering. The B. Tech. Program has been accredited five times in succession by NBA since 2009. Department is also conducting M. Tech and

PhD Program in Power Systems specialization. All efforts are subtly harnessed with the aim of preparing the budding engineers to face the challenging dimensions of technical excellence in areas such as Electrical Machines & Drives, Control & Automation, Power Systems Design, Power Electronics and MATLAB Applications. The department puts in consistent efforts for field exposure to students through various research-oriented projects taken up for meeting the industry demands. The department offers a perfect blend of Electrical, Electronics and Computer related courses to help students pursue a professional career or higher studies.

**About the Workshop**

The "EV and Industry 4.0 Technologies" workshop aims to deepen students' understanding of Electric Vehicle (EV) technology, covering design, development, and advancements in power electronics and energy storage. Students will explore the EV market, its types, components (batteries, motors, throttles), and the pros and cons of different technologies. The workshop provides hands-on training in building and testing battery packs, including Battery Management Systems (BMS), wiring, and connectors. Motor selection, motor controller basics, and sensor testing will also be covered. Additionally, students will learn about government regulations for EVs in India and globally. The program includes assembling an e-bike and a final exam for validation, ensuring practical application of the concepts learned and enhancing students' technical expertise.

**STTP Features:**

- Hands-On Demonstrations: Practical exercises to reinforce theoretical knowledge.
- Resource Person: Experts from industry sharing their experiences and real-world applications.
- Lab Sessions: Access to well-equipped laboratories for hands-on learning experiences.
- Certificate of Participation: Participants will receive certificates upon successful completion of workshop.
- Target Audience: In-house 2nd year undergraduate students of Electrical Engineering

**Workshop Schedule**

The training program will be conducted from 14 - 19 October 2024 as per given schedule:

Date	Session-I	Session-II
14 - 19 October, 2024	12:30 PM to 02:00 PM	02:00 PM to 03:30 PM



## 6. WORKSHOP SCHEDULE:-

### Workshop Schedule

The training program will be conducted from 14 - 19 October 2024 as per given schedule:

Date	Session-I	Session-II
14 - 19 October, 2024	12:30 PM to 02:00 PM	02:00 PM to 03:30 PM

## 7. OBJECTIVE OF THE WORKSHOP:-

The main objectives of the workshop are-

- Understand the structure, function, and classification of electric vehicles (EVs).
- Analyze battery technologies and design custom battery packs for EVs.
- Evaluate and select appropriate motors and motor controllers for EV applications.
- Apply testing methods to assess the performance of EV components.
- Assemble and troubleshoot an operational e-bike as a hands-on project.

## 8. EXPECTED OUTCOME OF THE WORKSHOP:-

After attending this workshop, participants will be able to:

O1: Explain the types and functions of EV components.

O2: Assemble and test EV battery packs and e-bikes.

O3: Analyze and select appropriate components for building an EV.

O4: Evaluate component compatibility and troubleshoot issues in an EV system.

**Table 1: Mapping of Workshop Outcomes with Bloom's level, PO and PSO indicators**


Outcome	Bloom's Level	PO Indicators	PSO Indicators
O1	L2	1.1.2, 1.3.1, 1.4.1, 2.1.1, 2.1.2, 2.1.3, 2.2.1, 2.2.2, 2.2.3, 2.2.4, 2.3.1, 2.3.2, 3.1.1, 3.1.3, 3.1.4, 3.1.5, 3.2.3, 6.1.1, 6.2.1, 7.1.1, 7.1.2, 7.2.1, 7.2.2, 12.1.1, 12.1.2, 12.2.1, 12.2.2, 12.3.1, 12.3.2	1.1.1, 1.1.2, 1.1.3, 2.2.1, 2.2.2
O2	L3	1.1.1, 1.1.2, 1.2.1, 1.3.1, 1.4.1, 2.1.1, 2.1.2, 2.1.3, 2.2.1, 2.2.2, 2.2.3, 2.2.4, 2.3.1, 2.3.2, 2.4.1, 3.1.1, 3.1.3, 3.1.4, 3.1.5, 3.2.3, 5.1.1, 5.2.1, 5.2.2, 5.3.1, 6.1.1, 6.2.1, 7.1.1, 7.1.2, 7.2.1, 7.2.2, 12.1.1, 12.1.2, 12.2.1, 12.2.2, 12.3.1, 12.3.2	1.1.1, 1.1.2, 1.1.3, 2.2.1, 2.2.2
O3	L4	1.1.1, 1.1.2, 1.2.1, 1.3.1, 1.4.1, 2.1.1, 2.1.2, 2.1.3, 2.2.1,	1.1.1, 1.1.2,

		2.2.2, 2.2.3, 2.2.4, 2.3.1, 2.3.2, 2.4.1, 3.1.1, 3.1.3, 3.1.4, 3.1.5, 3.2.3, 4.1.1, 4.1.2, 4.1.3, 4.1.4, 4.2.2, 4.3.1, 4.3.2, 4.3.3, 4.3.4, 5.1.1, 5.2.1, 5.2.2, 5.3.1, 6.1.1, 6.2.1, 7.1.1, 7.1.2, 7.2.1, 7.2.2, 10.1.1, 10.1.2, 10.1.3, 11.1.1, 11.1.2, 11.2.1, 11.3.1, 11.3.2, 12.1.1, 12.1.2, 12.2.1, 12.2.2, 12.3.1, 12.3.2	1.1.3, 1.2.1, 2.2.1, 2.2.2
O4	L5	1.1.1, 1.1.2, 1.2.1, 1.3.1, 1.4.1, 2.1.1, 2.1.2, 2.1.3, 2.2.1, 2.2.2, 2.2.3, 2.2.4, 2.3.1, 2.3.2, 2.4.1, 3.1.1, 3.1.3, 3.1.4, 3.1.5, 3.2.3, 4.1.1, 4.1.2, 4.1.3, 4.1.4, 4.2.2, 4.3.1, 4.3.2, 4.3.3, 4.3.4, 5.1.1, 5.2.1, 5.2.2, 5.3.1, 6.1.1, 6.2.1, 7.1.1, 7.1.2, 7.2.1, 7.2.2, 10.1.1, 10.1.2, 10.1.3, 11.1.1, 11.1.2, 11.2.1, 11.3.1, 11.3.2, 12.1.1, 12.1.2, 12.2.1, 12.2.2, 12.3.1, 12.3.2	1.1.1, 1.1.2, 1.1.3, 1.2.1, 2.2.1, 2.2.2


**Table 2: Workshop Outcomes-PO-PSO mapping**

Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
O1	2	3	2	-	-	3	3	-	-	-	-	3	3	3
O2	3	3	2	-	3	3	3	-	-	-	-	3	3	3
O3	3	3	2	3	3	3	3	-	-	2	3	3	3	3
O4	3	3	2	3	3	3	3	-	-	2	3	3	3	3
<b>Average</b>	<b>2.75</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>

## 9. ATTENDANCE OF PARTICIPANTS:-



Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur  
Department of Electrical Engineering  
विद्युत् अभियांत्रिकी विभाग

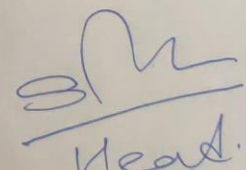


**Attendance Sheet (One Week Hands-On Workshop for Students On EV and Industry 4.0 Technologies)**

S. No.	Roll No.	Name	14-10-24	15-10-24	16-10-24	17-10-24	18-10-24	19-10-24
1	23ESKEE003	Abhishek Sharma	P	P	P	P	P	P
2	23ESKEE006	Akhil Khandelwal	P	P	P	P	P	P
3	23ESKEE008	Anmol Soni	P	P	P	P	P	P
4	23ESKEE009	Aryan Soni	P	P	P	P	P	P
5	23ESKEE010	Aryan Yadav	A	A	A	A	P	A
6	23ESKEE016	Brajesh Kumar Saini	P	P	P	P	P	P
7	23ESKEE018	Darshan Jangid	P	P	P	P	P	P
8	23ESKEE030	Harsh Vardhan Singh Rajawat	P	P	A	A	A	A
9	23ESKEE035	Himmanshu	P	P	P	P	A	P
10	23ESKEE041	Lokesh Soni	P	P	P	P	P	P
11	23ESKEE046	Mohit Prasad	P	P	P	P	P	P
12	23ESKEE047	Nakul Jain	P	P	P	P	P	P
13	23ESKEE054	Pradeep Singh Rajawat	P	P	P	P	P	P
14	23ESKEE055	Praket Kulhari	P	P	P	P	P	P
15	23ESKEE056	Pratyush Kulhari	P	P	P	P	P	P
16	23ESKEE057	Pulkit Sharma	P	P	P	A	P	P
17	23ESKEE060	Rahul Rao	P	P	A	P	P	P
18	23ESKEE061	Raj Katara	P	P	P	P	P	P
19	23ESKEE062	Raman Jangir	P	P	P	P	P	P
20	23ESKEE066	Sadaf Khan	P	P	P	P	P	P
21	23ESKEE068	Saini Singh	A	P	P	A	P	P
22	23ESKEE070	Saksham Sharma	P	P	P	P	P	P
23	23ESKEE071	Sakshi Singh	A	P	P	P	P	P
24	23ESKEE072	Shashikant	P	P	P	P	P	P
25	23ESKEE074	Shivam Jangid	P	P	P	P	P	A
26	23ESKEE077	Sneha Burdack	P	P	P	P	P	P
27	23ESKEE079	Sourabh Poonia	P	P	P	P	P	P
28	23ESKEE080	Sparsh Rastogi	P	P	P	P	P	P
29	23ESKEE081	Srishti Gupta	P	P	P	P	P	P
30	23ESKEE084	Tanishk Yadav	P	P	P	P	P	P
31	23ESKEE086	Ujjawal Pushp	A	P	P	P	P	P
32	23ESKEE087	Updesh Jangid	P	P	P	P	P	P
33	23ESKEE089	Vishakha Sharma	P	P	P	P	P	P
34	23ESKEE090	Vishal Yadav	P	P	P	P	P	P
35	23ESKEE091	Vivek Rathore	P	P	P	P	P	P
36	23ESKEE093	Yuvraj Singh Shekhawat	P	P	P	P	P	P
37		Ronit	P	P	P	P	P	P
38		Ankur	P	P	P	P	P	P

Date: (14 - 19 Oct 2024)

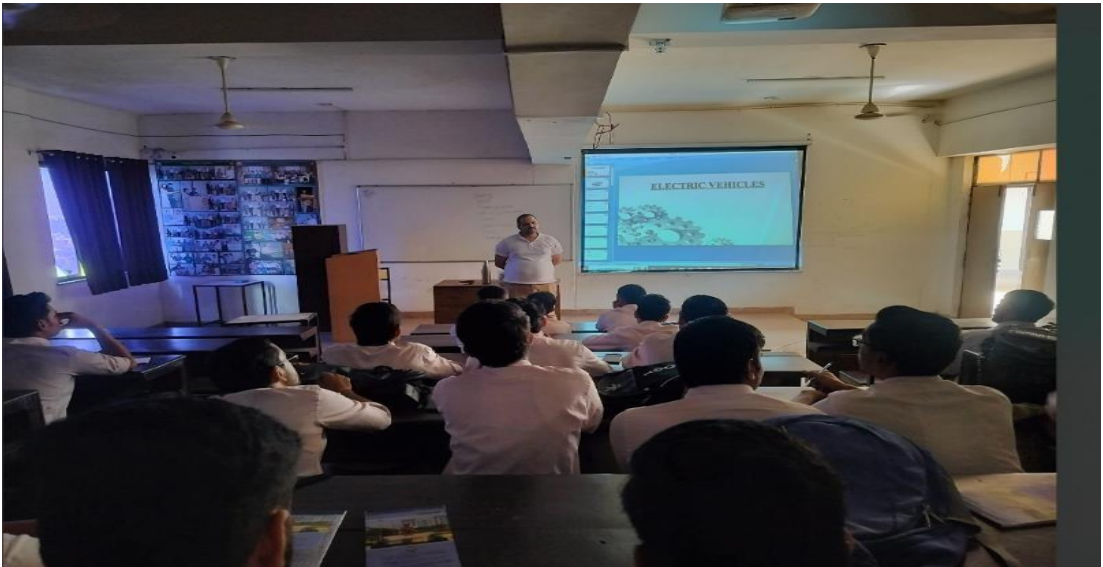
Time: (12:30 - 2:30 pm)

  
 Head.

## 10. GLIMPSES OF THE WORKSHOP







## 11. SAMPLE COPY OF CERTIFICATE



**Swami Keshvanand Institute of Technology,  
Management & Gramothan, Jaipur**



### **Certificate of Participation**

*This is to certify that*

RAJ KATARA

has participated in “One-week hands-on workshop for students in EV and Industry 4.0 Technologies” held from October 14<sup>th</sup> - 19<sup>th</sup>, 2024 organized by Department of Electrical Engineering and IE(I) Student Chapter at Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur.

*S. K. Surana*

Dr. S.L. Surana  
Director (Academics)  
SKIT, JAIPUR

Dr. R.K. Pachar  
Principal  
SKIT, JAIPUR

Dr. Sarfaraz Nawaz  
Head, EE Dept.  
SKIT, JAIPUR



## **12. DAYWISE REPORT OF THE WORKSHOP:-**

One week on “EV and Industry 4.0 Technologies” was organized by Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur.

### **Key Personnel:**

Dr. Sarfaraz Nawaz - Head of Department

### **Coordinators-**

Dr. Prateek Kumar Singhal (Associate Professor)

Mr. Tarun Naruka (Associate Professor)

Mr. Vikas Mahala (Assistant Professor & Deputy Head)

Mr. Deepak Saini (Assistant Professor)

### **Day 1: Introduction to Electric Vehicles:**

The workshop began with an overview of the schedule, setting the tone for the upcoming sessions. The session covered the important fundamentals of EV technology, emphasizing the environmental impact and the need for transitioning from conventional vehicles to electric alternatives. Participants were introduced to key concepts such as electric drivetrains, battery efficiency, and the role of EVs in reducing carbon emissions, laying a strong foundation for the rest of the workshop.

### **Day 2: Fundamentals of EV Design:**

On the second day, the focus shifted to the technical aspects of EV design. Experts conducted detailed sessions on battery technology, discussing various types of batteries, their construction, and performance characteristics.

Participants learned about electric motors, power electronics, and the intricate relationship between different components in an EV system. A hands-on demonstration allowed attendees to examine key EV components, enhancing their practical understanding. This day provided a deep dive into the core engineering principles behind EVs, equipping participants with essential knowledge about EV architecture.

### **Day 3: Charging Infrastructure:**

Day three addressed the critical topic of EV charging infrastructure. Participants attended a comprehensive session on the different types of charging stations, including slow chargers, fast chargers, and superchargers. The discussions highlighted the importance of developing robust charging networks to support the growing EV market. A practical demonstration showcased the setup and operation of charging systems, offering participants firsthand experience with charging technologies. This session emphasized the challenges and solutions related to EV charging, fostering a broader understanding of infrastructure requirements.

### **Day 4: Policies and Market Trends:**

The fourth day explored the policies and market trends influencing the EV sector. Participants learned about various government initiatives and policies aimed at promoting EV adoption in India. The session delved into the economic and environmental benefits of EVs, with discussions on subsidies, incentives, and regulatory frameworks. Industry experts joined a panel discussion, providing insights into the future of electric mobility and sharing real-world experiences. This day offered a comprehensive view of the evolving EV landscape, highlighting the role of policy and market forces in driving innovation.

### **Day 5: EV Simulation and Software:**

On the fifth day, the workshop focused on EV simulation and software tools. Participants received training on advanced simulation software used in EV design and analysis. They engaged in real-time simulations, applying theoretical knowledge to practical scenarios. The interactive session allowed attendees to work collaboratively on designing their own EV models, fostering a hands-on learning environment. This day emphasized the importance of simulation in optimizing EV performance and addressing design challenges, preparing participants for future projects in electric vehicle development.

**Day 6: Future Innovations and Conclusion:**

The final day of the workshop highlighted future innovations in the EV industry. Participants presented their projects, showcasing the knowledge and skills they had acquired throughout the workshop. The session provided a platform for creative ideas and solutions, encouraging participants to think innovatively about the future of electric mobility. The day concluded with the distribution of certificates and a feedback session, where participants shared their experiences and suggestions. This closing session reinforced the workshop's impact, leaving attendees with a deeper understanding of EV technology and its potential to transform the automotive industry.

**Feedback and Takeaways:**

Participants shared their experiences, highlighting the knowledge and skills gained. Certificates were distributed to all attendees.

**Conclusion:**

The six-day Electric Vehicle Workshop proved to be a resounding success. It provided participants with valuable insights into EV technology and encouraged them to explore innovative solutions in the field of sustainable transportation.