



Centurion
UNIVERSITY

*Shaping Lives...
Empowering Communities...*

Workshop on Empowering the Future: Electric Vehicles and IoT

Conducted by

**Centurion University of Technology and Management,
Bhubaneswar Campus
&
Centre for Smart Engineering Application**

Event

Workshop on Empowering the Future: Electric Vehicles and IoT

Date

12 September 2024

Time

10.00 AM to 5 PM (IST)

Venue

Hall No. 6 (Aryabhata building), CUTM, Bhubaneswar Campus

Event Coordinators

Prof. Swarna Prabha Jena,

Department of ECE, SoET,
CUTM, Bhubaneswar Campus,

Dr. Sudhansu Kumar Samal

HoD, Department of EEE, SoET,
CUTM, Bhubaneswar Campus

Dr. Satyasis Mishra,

Dean SGD, Department of ECE,
SoET, CUTM, Bhubaneswar
Campus

No. of Attendees

170 Students

1. Overview

On September 12, 2024, the School of Engineering and Technology, in collaboration with the Smart Engineering Applications Research Center at Centurion University of Technology and Management (CUTM), Odisha, conducted a one-day workshop titled “Empowering the Future: Electric Vehicles and IoT.” The workshop was held in a hybrid format, attracting 170 participants from the ECE, EE, Aerospace, and CSE departments who attended in person.

The event commenced at 10 AM with an inaugural address by Dr. Biswajit Mishra, Pro Vice Chancellor of CUTM, followed by remarks from Prof. Jagannath Padhi, Director of CUTM. The inauguration was attended by Dr. Sujata Chakravarty, Dean of the School of Engineering and Technology at the Bhubaneswar Campus, Dr. Harish Chandra Mohanta, HOD ECE and CEO of Smart Engineering Applications Research Center, the event coordinators, and students from various disciplines.

The workshop, organized by BISD, Hyderabad, focused on the latest advancements in Electric Vehicles and the Internet of Things (IoT), and was well-received by participants and technical experts alike. Please see the attached flex for more details about the event.



Workshop on
EMPOWERING THE FUTURE:
ELECTRIC VEHICLES AND IOT

Date: 12th September 2024 **Time:** 10:00 AM - 5:00 PM
Venue: Hall No. 6, Aryabhata Building, CUTM, Bhubaneswar

Resource Persons


Dr. Mahesh Patil
MD BISD


Dr. K. Surya Venkata Phani Kumar
Co-Founder, BISD


Mr. Rohith Gundapaneni
Co-Founder, BISD

About the Workshop:

- Electric vehicle (EV) and Internet of Things (IoT) integration has emerged as a focal point in the global movement towards smart and sustainable technology.
- The goal of the workshop is to help attendees fully grasp the nature of these revolutionary technologies, including the opportunities, threats, and trends they face today.
- It provides the opportunity for students to explore cutting-edge advancements in Electric Vehicles (EVs) and the Internet of Things (IoT).

Organized by:
SCHOOL OF ENGINEERING AND TECHNOLOGY




In Association with:
CENTER FOR SMART ENGINEERING AND APPLICATIONS



Organizers:
Dr. Sudhansu Kumar Samal (HoD EEE)
Mrs. Swarnaprabha Jena (Asst. Prof. ECE)
Dr. Satyasis Mishra (Dean SOG)

Centurion University of Technology and Management, Odisha
CAMPUSES: Paralakhemundi | Bhubaneswar | Rayagada | Balangir | Balesore | Cuttack

2. Resource Person

Let me Introduce Our Expert team members who have shared their knowledge with the students on the event both physically and Online:

Resource Person's Photo	Resource Person's Name	Resource Person's Introduction
	Dr. Mahesh Patil, MD, BISD (On-site Speaker)	With over 25 years of experience in technology and a pioneering role in India's first electric bike venture, Dr. Patil's expertise in Sensors & IoT, Electric Vehicles, and energy systems will provide invaluable insights. His leadership in Agile/Lean methodologies and Cloud-based architectures will be a highlight of the workshop.
	Dr. K. Surya Venkata Phani Kumar, Co-Founder, BISD (Online Speaker)	Renowned for his work in sustainable technologies, Dr. Kumar's proficiency in MATLAB, microcontrollers, and autonomous vehicle design will drive discussions on innovative solutions and smart systems.
	Mr. Rohith Gundapaneni, Co-Founder, BISD (Online Speaker)	With over two and a half decades of experience in Engineering, IT, and global sales, Mr. Rohith will share his leadership and career development expertise, emphasizing value creation and strategic planning.

	<p>Mr. Suraj Singh Rajput, Founder OneIoT (Online Speaker)</p>	<p>He is an expert in IoT and developed a platform for visualizing the remote platforms.</p>
	<p>Mr. Neeraj Chaturvedi, Co-Founder Firewires OneIoT (Online Speaker)</p>	<p>He is an expert in IoT and developed a platform for visualizing the remote platforms.</p>

3. About the Event

A special welcome to our esteemed guests from BISD, whose visit marks an exciting opportunity for all of us. As students, you are at the forefront of the next wave of technological innovation. The fields of Electric Vehicle technology and the Internet of Things are not just buzzwords—they are the future. And today, we have the privilege of learning from the experts who are driving this future forward. BISD's mission is to empower individuals with the knowledge and skills needed to excel in these rapidly evolving areas. This aligns perfectly with our university goal to succeed and lead your future careers.

This event is a unique chance to gain insights into these cutting-edge industries, ask questions, and explore how you can be part of this exciting technological revolution. So, everyone was curious, engaged actively, and took full advantage of this opportunity.

4. Activities and Interaction

The event aims to foster a more inclusive, equitable, and innovative technology sector, empowering students to reach their full potential and make meaningful contributions to advancing technology and society. Through engaging activities and discussions, we seek to create an environment that encourages collaboration, creativity, and the sharing of diverse perspectives, ultimately driving progress in the tech industry for all. The event consists of the following-

- Simple presentation by experts on EV
- Presentation by an expert on IoT
- Brainstorming and mapping by asking questions

5. Learning Outcomes

The workshop titled “Empowering the Future: Electric Vehicles and IoT” offered a dynamic platform for students to delve into the integration of innovative technologies and sustainable practices. Through a combination of expert-led presentations and interactive activities, participants gained critical insights into the fields of electric vehicles and the Internet of Things. The following learning outcomes were established to facilitate a comprehensive understanding of the subject matter and to equip students with the skills necessary to address future challenges in these rapidly evolving domains:

- **Comprehension of Electric Vehicle Technologies:** Participants will develop a thorough understanding of the fundamental principles and components of electric vehicles, including their design and operational mechanisms.
- **Insights into IoT Applications:** Attendees will gain knowledge of the applications of the Internet of Things in enhancing electric vehicle functionality, with a focus on data collection and real-time monitoring.
- **Integration of Technologies:** Students will learn how to effectively integrate electric vehicle and IoT technologies to create innovative solutions for smart transportation and urban mobility.
- **Awareness of Industry Trends:** Participants will become familiar with current trends and innovations within the electric vehicle and IoT sectors, identifying potential career opportunities.
- **Enhanced Problem-Solving Skills:** Through interactive discussions and hands-on activities, students will improve their critical thinking and problem-solving abilities, particularly in addressing real-world challenges.
- **Collaboration and Networking Opportunities:** The workshop will facilitate collaboration among participants and industry experts, fostering valuable networking connections that support future professional development.
- **Understanding of Sustainable Practices:** Participants will recognize the significance of sustainable practices in technology development, particularly regarding the environmental impact of electric vehicles.

- **Practical Application of Knowledge:** Students will explore practical applications and case studies that illustrate the impact of electric vehicles and IoT across various sectors.

These learning outcomes are designed to equip participants with the knowledge and skills necessary to make meaningful contributions to the evolving fields of electric vehicles and IoT.

Conclusion

In conclusion, the workshop “Empowering the Future: Electric Vehicles and IoT” successfully provided students with a robust understanding of the critical intersection between innovative technologies and sustainable practices. By engaging with industry experts and participating in hands-on activities, attendees were equipped with valuable knowledge and skills relevant to the evolving landscape of electric vehicles and the Internet of Things. The established learning outcomes not only addressed current technological advancements but also emphasized the importance of sustainability and collaboration in shaping the future of these fields. As participants move forward in their academic and professional journeys, they are now better prepared to contribute meaningfully to the advancement of technology and its positive impact on society.

Event Snapshots:









CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, BHUBANESWAR, ODISHA

विकसित भारत अभियान 1947-2047

WU

IEEE

A+ NAAC



Workshop on

EMPOWERING THE FUTURE: ELECTRIC VEHICLES AND IOT

Date: 12th September 2024 **Time: 10:00 AM - 5:00 PM**

Venue: Hall No. 6, Aryabhata Building, CUTM, Bhubaneswar

Organized by: SCHOOL OF ENGINEERING AND TECHNOLOGY

In Association with: CENTER FOR SMART ENGINEERING AND APPLICATIONS

CAMPUSES: Paralakhemundi | Bhubaneswar | Rayagada | Balangir | Balasore | Chatrapur

Participants Attendance:

"Empowering the Future: Electric Vehicles and IoT"

Attendance Sheet

Time - 10 AM

Date - 12/19/24

Sl.No	Students Name	Registration Number	Signature	Department
1	Arun Kumar Gupta	210301150007	EEE	EEE
2	Pratik Sahoo	210301150002	EEE	EEE
3	Amit Kumar Jaiswal	210301150001	EEE	EEE
4	Sandeep Kumar	220301190001	EEE	EEE
5	Rupa Pratyap Sanyal	220301130011	EEE	EEE
6	Mausam Mohanta	220301130009	EEE	EEE
7	Rohit Jambhulkar	220301130008	EEE	EEE
8	Bishnu Pradyap Sahoo	220301130010	EEE	EEE
9	Srijanika Sahoo	220301130007	EEE	EEE
10	Abhishek Sanyal	220301130012	EEE	EEE
11	Chayan Kumar Bisoi	220301130003	EEE	EEE
12	Ashish	220301130009	EEE	EEE
13	C. Sanyal	220301130003	EEE	EEE
14	Sanyalika Sahoo	220301130013	EEE	EEE
15	Shivani Sahu	220301130006	EEE	EEE

Sl.No	Students Name	Registration Number	Signature	Department
16	Suryakant Jethi	230301100005	EEE	EEE
17	Hitesh Raj Gaudin	230301130026	EEE	EEE
18	Vishal Kumar Patra	230301130015	EEE	EEE
19	G-Rudra Narayan Patra	230301130025	EEE	EEE
20	Subhasree Sahoo	230301130018	EEE	EEE
21	Bhresh K. Sahoo	230301130023	EEE	EEE
22	Srushtikanta Dash	230301130009	EEE	EEE
23	Mehul Rout	230301151019	EEE	EEE
24	Amit Jais	230301151012	EEE	EEE
25	Ayush Anand Patra	230301130019	EEE	EEE
26	Pradyumn Manapatra	230301130022	EEE	EEE
27	Tushar Choudhary	230301151011	EEE	EEE
28	Dheeraj Kumar Saha	230301130007	EEE	EEE
29	Sanku Saha	230301130005	EEE	EEE
30	Jyoti Pradyap Patra	230301130006	EEE	EEE
31	Rajni Ranjan Maharana	230301151018	EEE	EEE
32	Subhanshu Mishra	230301151003	EEE	EEE
33	Shivam Kumar	230301151022	EEE	EEE

Sl.No	Students Name	Registration Number	Signature	Department
34	Arij Gupta	210301150007	EEE	EEE
35	Smit Kumar Pradhan	220301150008	EEE	EEE
36	Aadritya Pradhan	220301151016	EEE	EEE
37	Chinmay Bhuyan	220301151021	EEE	EEE
38	Ayush K. Pandey	220301150008	EEE	EEE
39	Anjan Ranjan Saha	210301150007	EEE	EEE
40	Anjan Mahapatra	210301151010	EEE	EEE
41	Rishi Ranjan Sanyal	210301150001	EEE	EEE
42	Sameer Rout	210301151013	EEE	EEE
43	Chinmay Jais	210301151014	EEE	EEE
44	Sachin Mondal	210301151015	EEE	EEE
45	Rudra Kumar	210301151018	EEE	EEE
46	Narayan S. Sahoo	220301130013	EEE	EEE
47	M. Lokeshwar Raji	220301130002	EEE	EEE
48	Nikhil Kumar Mishra	220301130009	EEE	EEE
49	Anshu Mahapatra	220301130005	EEE	EEE
50	Anshika Mahapatra	220301130009	EEE	EEE
51	Bilwajit Saha	220301130003	EEE	EEE

Sl.No	Students Name	Registration Number	Signature	Department
52	Ronit Nayak	220301130006	EEE	EEE
53	Anshika Saha	220301130004	EEE	EEE
54	M. Harshit Hitesh	220301130006	EEE	EEE
55	Nabasin Rout	220301130032	EEE	EEE
56	Amit Panda	220301130005	EEE	EEE
57	Anindita Sanyal	220301130023	EEE	EEE
58	Chandra Mohan Kisku	220301130030	EEE	EEE
59	Manjeet Hembram	220301130008	EEE	EEE
60	S David Abhishek	220301130034	EEE	EEE
61	Sanjay K. Purtyal	220301130014	EEE	EEE
62	Tanmay Das	220301130015	EEE	EEE
63	Taranam Krishna Saha	220301130006	EEE	EEE
64	Milon K. Behera	220301130010	EEE	EEE
65	Kishor Mohapatra	220301130005	EEE	EEE
66	Anand Patra	220301130008	EEE	EEE
67	Manjeet Patra	220301130018	EEE	EEE
68	Sanyalika Sanyal	220301130033	EEE	EEE
69	Mitika Ranjan Saha	220301130020	EEE	EEE

Sl.No	Students Name	Registration Number	Signature	Department
70	Krishna J. Pradhan	230301130001	EEE	EEE
71	Shobhika Patra	230301130001	EEE	EEE
72	Amit Patra	230301130008	EEE	EEE
73	Madhusmita Pradhan	230301130001	EEE	EEE
74	Pradyumn K. Pradhan	230301130002	EEE	EEE
75	Subhanshu Saha	220301130005	EEE	EEE
76	Sanku Mahapatra	220301130019	EEE	EEE
77	Dimpal Nayak	220301130007	EEE	EEE
78	Anshik Patra	220301130001	EEE	EEE
79	Ankush Saha	220301130012	EEE	EEE
80	Anshik Nayak	220301130008	EEE	EEE
81	Chandan Majhi	220301130007	EEE	EEE
82	Sandeep Kumar Patra	220301130007	EEE	EEE
83	Sanku Saha	220301130008	EEE	EEE
84	Deepa Ranjan Saha	210301150017	EEE	EEE
85	Rohit Raji	210301150001	EEE	EEE
86	M. Pradyap	210301150005	EEE	EEE
87	Rohan Kumar	220301130016	EEE	EEE

Sl.No	Students Name	Registration Number	Signature	Department
88	A.P. Pratik Mahapatra	210301130009	EEE	EEE
89	Gadde Anshika	210301130016	EEE	EEE
90	Sunithi Kumari	210301130018	EEE	EEE
91	B. Kumar Gaurav	210301130017	EEE	EEE
92	Bhanu Pradyap Singh	210301130011	EEE	EEE
93	Pratik Patra	220301130004	EEE	EEE
94	Arun Sanyal	220301130013	EEE	EEE
95	Surya Pradyap Sanyal	220301130011	EEE	EEE
96	Ujjwalika Mahapatra	210301130014	EEE	EEE
97	Ch. Subhasish Saha	220301130008	EEE	EEE
98	Jaganmoh Saha	220301130002	EEE	EEE
99	Sanyalika Saha	220301130002	EEE	EEE
100	Biswajit Patra	220301130002	EEE	EEE
101	Bhuvanika Saha	220301130007	EEE	EEE
102	Rudra Ranjan Maharana	210301150010	EEE	EEE
103	Subhanshu Patra	220301130004	EEE	EEE
104	Kaushik Mahapatra	220301130023	EEE	EEE
105	Pratik Pradyap Saha	220301130011	EEE	EEE

Sl.No	Students Name	Registration Number	Signature	Department
106	Utkal Sanyal	220301130013	EEE	EEE
107	Ayushika Saha	220301130001	EEE	EEE
108	Biswajit Patra	220301130008	EEE	EEE
109	Syama Kant Kumar Raj	220301130016	EEE	EEE
110	Pratik Kishore	220301130017	EEE	EEE
111	Arij Kumar Jaiswal	220301130007	EEE	EEE
112	Tijeswar Naik	220301130006	EEE	EEE
113	Deepthi Mayee Patra	220301130016	EEE	EEE
114	Pratik Mahapatra	220301130011	EEE	EEE
115	Subhanshu Narayan Maharana	220301130005	EEE	EEE
116	Rajendra Patra	220301130006	EEE	EEE
117	Ramendra Kulkarni	220301130014	EEE	EEE
118	Sanku Saha	220301130016	EEE	EEE
119	Subhanshu Mahapatra	220301130017	EEE	EEE
120	Nikhil Kumar	220301130015	EEE	EEE
121	Nikhil Paul	220301130013	EEE	EEE
122	Sanyalika Saha	220301130016	EEE	EEE
123	Dipika Saha	220301130011	EEE	EEE

Sl.No	Students Name	Registration Number	Signature	Department
124	Harshita Mahapatra	220301130013	EEE	EEE
125	Komal Kumar	220301130017	EEE	EEE
126	Sanku Mahapatra	220301130011	EEE	EEE
127	Rudra Kumar Saha	220301130016	EEE	EEE
128	Abhishek Kumar	220301130017	EEE	EEE
129	Abhishek Kumar	220301130017	EEE	EEE
130	Chinmay Patra	220301130015	EEE	EEE
131	Pratik Ranjan Saha	220301130007	EEE	EEE
132	Tabish Patra	220301130011	EEE	EEE
133	Rohan Kumar Patra	220301130018	EEE	EEE
134	Ayush Kumar Saha	220301130017	EEE	EEE
135	Sanku Saha	220301130016	EEE	EEE
136	Trishita Pradhan	220301130012	EEE	EEE
137	Debasmita Mahapatra	220301130017	EEE	EEE
138	Pratik Saha	220301130012	EEE	EEE
139	Sanku Saha	220301130016	EEE	EEE
140	Shanku Pradhan	220301130018	EEE	EEE
141	Nikhil Kumar	220301130016	EEE	EEE
142	Nikhil Kumar	220301130016	EEE	EEE
143	Pratik Saha	220301130011	EEE	EEE
144	Lata Pradyap	220301130014	EEE	EEE
145	Nikhil Kumar	220301130015	EEE	EEE
146	Nikhil Kumar	220301130015	EEE	EEE
147	Jaganmoh Saha	220301130002	EEE	EEE
148	Pratik Saha	220301130011	EEE	EEE

149	Pratik Ranjan Saha	210301150004	EEE	EEE
150	Sanku Saha	210301150006	EEE	EEE
151	Komal Kumar	220301130017	EEE	EEE
152	Rudra Kumar Saha	220301130017	EEE	EEE
153	Hanshi Saha	220301130013	EEE	EEE
154	Amit Kumar Saha	220301130007	EEE	EEE
155	Pratik Ranjan Saha	220301130012	EEE	EEE
156	Nikhil Kumar Saha	220301130017	EEE	EEE
157	Pratik Ranjan Saha	220301130011	EEE	EEE
158	Pratik Saha	220301130018	EEE	EEE
159	Sanku Saha	220301130016	EEE	EEE
160	Tushar Chandra Dabhi	220301130005	EEE	EEE
161	Pratik Ranjan Saha	220301130018	EEE	EEE
162	Komal Kumar Saha	220301130018	EEE	EEE
163	Subhanshu Saha	220301130004	EEE	EEE
164	Pratik Saha	220301130011	EEE	EEE
165	Gomya Ranjan Patra	220301130009	EEE	EEE
166	Debasmita Pradhan	220301130003	EEE	EEE
167	Komal Kumar	220301130005	EEE	EEE
168	Subhanshu Saha	220301130001	EEE	EEE
169	Satyajit Pradhan	220301130002	EEE	EEE
170	Deep Ranjan Saha	220301130014	EEE	EEE