



PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

ADB Road, Surampalem, 533 437

Approved by AICTE & Permanently Affiliated to JNTUK Kakinada & Accredited by NBA & NAAC with 'A' Grade
ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT



Academic year: 2024-25

Date: 05.08.2024

CIRCULAR

We are happy to inform you that the “ **SENSOR TECH SHOWCASE** ” is scheduled to be conducted by Electric Vehicles Club. The Lecture will be delivered by Club Members of EVC

Interested students will participate in the event as per the Schedule time below at Mechanical block MF-1.

Date & Time of Event : 06.08.2024 @ 1:00 - 4:00 PM

Venue : Mechanical Block -MF-1

HOD-EEE



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ELECTRICAL VEHICLES CLUB REPORT

SENSORTECH SHOWCASE

I. Club Information

Club Name: Electric Vehicles Club

College: Pragati Engineering College

Event: SensorTech Showcase

Student coordinator: G.Chiranjivi

II. Executive Summary

The Ev Club at Pragati Engineering College made a significant impact at the SensorTech Showcase through comprehensive presentations on sensors and microcontrollers, as well as live demonstrations of innovative projects aligned with sustainable technology. The club showcased its technical expertise and problem-solving abilities, contributing to the event's success.

III. Event Overview

The SensorTech Showcase provided a platform for students to exhibit their knowledge and skills in the field of sensor technology. The Ev Club leveraged this opportunity to showcase the critical role of sensors and microcontrollers in various applications, particularly in the realm of electric vehicles and sustainable energy.

IV. Club Participation

- * Presentations: The Ev Club delivered informative presentations on:
 - * Fundamentals of sensors and microcontrollers
 - * Applications of sensors and microcontrollers in electric vehicles
 - * Sensor-based control systems for EV components (battery, motor, charging)



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* Live Demonstrations: The club showcased the following projects:

* Transformer Health Monitoring: Utilized sensors to monitor the condition of transformers, preventing failures and optimizing maintenance.

* Automatic Sunlight Drying Solar Plate: Employed sensors to automate the drying process using solar energy, enhancing efficiency and product quality.

* Saving Current by Train Departure and Arrival: Demonstrated a system that optimized energy consumption by controlling power supply based on train schedules.

V. Achievements

* The Ev Club successfully engaged the audience with informative and engaging presentations.

* Live demonstrations showcased the practical application of sensor technology in various domains.

* The club received positive feedback from faculty, students, and industry experts.

* The participation enhanced the club's reputation as a leader in innovative technology.

VI. Challenges and Lessons Learned

* Limited resources for project development and demonstration.

* Time constraints for preparing presentations and demonstrations.

* Overcoming technical difficulties during live demonstrations.



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VII. Future Plans

- * Collaborate with other departments for interdisciplinary projects.
- * Organize workshops and training sessions on sensor technology and microcontroller programming.
- * Participate in more industry-oriented events.
- * Develop a robust EV prototype incorporating advanced sensor technologies.

VIII. Conclusion

The Ev Club's participation in the SensorTech Showcase was a remarkable success. The club demonstrated its commitment to technological innovation and sustainable development. By showcasing diverse projects and delivering informative presentations, the club has positioned itself as a leading force in the field. The experiences gained will propel the club towards even greater achievements in the future.



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PHOTOS





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Our Coordinators demonstrating the automatic solar driving panel project



Our coordinators demonstrating the power saving mechanism in railway station



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Our coordinators clarifying doubts regarding to the transformer health monitoring project

Total attended Participants: 120

On the behalf of the ev club, we would like to sincerely thank the head of departments of EEE,MECH,CIVIL AND ECE for showing us support and giving us the necessary permissions.

Regards

Electric Vehicles Club PEC



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POSTER

PRAGATI ENGINEERING COLLEGE (A)
INDUSTRY 4.0 CLUB
ELECTRIC VEHICLES CLUB
Of Dept of EEE in association with IE(I) presenting
SENSORTECH SHOWCASE
An electrifying exploration into the world of sensors and Arduino Uno

Registration QR

WhatsApp QR

faculty Co-ordinator
Mr. S. Ashok Reddy
Asst. Professor EEE

Date : 06-08-2023
Time : 1:00 - 4:00
Venu : Mech Block

Student Co-ordinator
G. Chiranjivi
22A31A0279

THANK YOU