



Learn Beyond

KPR Institute of Engineering and Technology

(Autonomous, NAAC "A")

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EE046**NBA Accredited**
(CSE, ECE, EEE,
MECH, CIVIL)**A ONE DAY SEMINAR ON "ELECTRIFICATION FOR THE AUTOMOTIVE SECTOR TOWARDS SUSTAINABLE FUTURE"**

Event No	EE046
Organizing Department	Electrical and Electronics Engineering
Associate Dept. NSC	Institution of Engineers (India)
Date	06/01/2023
Time	09:00 AM to 04:00 PM
Event Type	Seminar
Event Level	District
Venue	Thanam Hall
Total Participants	132
Industry Personnel	2
Faculty - Internal	10
Students - Internal	120

Related SDG**Resource Persons**

Sl	Type	Name	Designation	Company	Email	Phone
1	Chief Guest	Er V Angappa	Managing Partner	Megatech Scientific Instruments	angappa.v@gmail.com	xxxxxxxxxx

Involved Staffs

Sl	Name	Role
1	Pandiyan P	Convenor
2	Pazhanimuthu C	Co-convenor

Outcome

- To understand the construction, working, testing, speed control, and applications of various types of motors for EVs
- To analyze the role of EVs in lowering greenhouse gas emission
- To study life cycle analysis of electric vehicles and setting sustainability goals with regard to large-scale adoptions

Event Summary

The registration commenced at 9.00 am and went on till 9:30 am at Electrical and Electronics Engineering Department, KPRIET. The Inaugural function started at 10.00 am and Dr.S Shanmugam, Chairman, IE(I) presented the welcome address and briefed upon the activities of IE(I) in promoting Science and Technology. Dr.K. Mohana Sundaram, Professor and Head, Department of Electrical and Electronics Engineering, KPRIET presented an overview of a one day Seminar. Er.V.Angappa, Managing partner, Megatech Scientific Instruments, Coimbatore delivered the chief guest address elaborating the importance of Electric Vehicles. The proceeding was released in the form of CD by the dignitaries. Dr.C.Pazhanimuthu, Assistant professor (Sl.G), KPRIET proposed the vote of thanks.

Technical Session - I

The first Technical session started at 10:45 AM was on "Overview of Powertrain and Drivetrain" by **Er.V.Angappa**. The speaker shared his experiences in developing a new start-up company and challenges faced in developing electric vehicle and retrofit vehicles. The innovation in hybrid electric vehicle and the start-up ideas about electric vehicles were discussed with the participants. The key points discussed in the session are basics of drivetrain, types of powertrain transmission, and the difference between powertrain and drivetrain.

Technical Session - II

The second key note session commenced at 12.00 pm delivered by **Dr.K.Mohana Sundaram**, Professor and Head, Department of Electrical and Electronics Engineering, KPRIET shared his expertise on '**Battery Management System**'. The resource person details about the main functions of a battery management system such as battery protection, battery monitoring and battery optimization for electric vehicles. And also discussed the recent trends in charging technologies and challenge faced in battery management system.

Technical Session - III

There are 6 papers were presented in this session.

Paper 1 - Bioinspired Robotic Predatory Bird by Santhosh S, Vaishnavi K, Suwetha S, Pandidurai M. In this paper, the students have discussed about the developed bio-inspired Predatory Robotic bird to scare Crop eating birds. The developed bird flying above the agriculture field attracts other predatory birds and scares crop eating birds.

Paper 2 - Bee Pollinator by Manasha M, Keerthika K, Jennifer R. The team explains the design and development of bee pollinator. Bees make excellent pollinators because most of their life is spent collecting pollen, a source of protein that they feed to their developing offspring.

Paper 3 - Seed Bombers by Dony Robin, Kowsalya, Dhinakaran. In this paper, the team discuss about the design and development of aeroplane which helps to do the same pollination activity done which has been done by bird.

Paper 4 - Smart Bin Smart City by Girithar R R, Sibisiddharth R M, Sanjay E K, Jeyasundher. This paper presents the design and development of smart bin for sustainable smart cities. The developed smart bin segregates the garbage into three categories wet, dry and metal waste.

Paper 5 - Energy Monitoring System by Keerthi Ragavendran S, Dhamodharan B, Harish P S, Ahamd Thaiyub A, Revathi R. This paper proposes an IoT based Energy Monitoring System for Home in order to monitor the energy consumption of home appliances remotely using Web application.

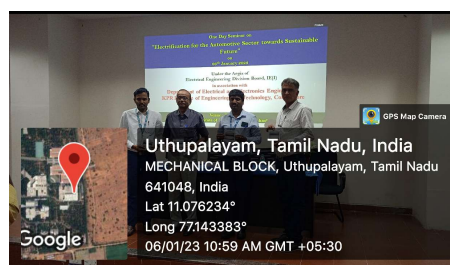
Paper 6 - Home Automation System Using IoT by Srilesh J, Pavishkumar T, Pranesh P. In this paper, the overview of home automation system using IoT was discussed and also focus on smart lighting, smart appliances, intrusion detection, smoke/gas detector, etc.

Valedictory Session

The valedictory session began by 03:45 pm and the certificates were presented to the participants by **Dr.K. Mohana Sundaram**. Feedback from the participants was obtained. The workshop came to an end by 04.00pm.



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