



**Department of Electronics and Communication Engineering & IEEE
Student Branch (STB 16621)**

**Expert talk on Evaluation of Electric Vehicles, Future Challenges &
Opportunities**

Department of ECE in association with IEEE Student Branch (STB 16621) has organized a Expert talk on “Evaluation of Electric Vehicles, Future Challenges & Opportunities” on 09th May, 2022 in view of National Technology day. The objective of this talk is to impart in depth knowledge on Electric Vehicles, Challenges during the design and Opportunities.

Ms.S.Aparnaa, Final Year ECE welcomed the participants and Ms.K.Gayathri, Third year ECE introduced the resource person. Dr. Rajesh M. Pindoriya Project Engineer at IIT Mandi, India, delivered the expert talk on Evaluation of Electric Vehicles, Future Challenges & Opportunities.

In his lecture, he covered the following topics,

- Working Of Electric Vehicle
- Electric Vehicle hardware - Fundamentals of motor components and its functioning,
- Communication and coordination
- Electric vehicle supply equipment (EVSE) standards
- EV battery and fire safety standards
- Installation and EV equipment issues
- Practical Demonstration of EV charging components, motor
- Challenges & Opportunities in EV sector

In this seminar, 167 participants from various Institutions including the internal participants participated and got benefitted. Participant’s queries were addressed by the resource person at the end of the session.

Brochure

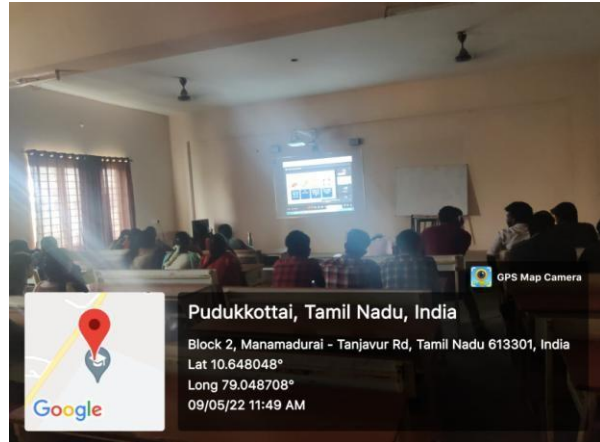
The brochure is a blue and yellow graphic with the following content:

- Top Left:** NAAC Accredited Institution logo for **KINGS COLLEGE OF ENGINEERING**. Text: "Recognized under 2(f) & 12(B) of UGC. Approved By AICTE, New Delhi & Affiliated to Anna University, Chennai. Punalkulam, Gandarvakottai (tk), Near Thanjavur, Pudukkottai - 613303".
- Top Center:** A grid of 10 white plus signs arranged in two rows of five.
- Top Right:** **IEEE MADRAS SECTION** logo and a "21 YEARS OF ACADEMIC EXCELLENCE" anniversary logo.
- Center:** An illustration of a blue electric car with a green charging station and wind turbines in the background.
- Center-Right:** Text: "Research & Development Section organizes **IEEE EXPERT TALK** Evaluation of Electric Vehicles, Future Challenges & Opportunities".
- Bottom Left:** A circular portrait of **Dr. Rajesh M. Pindoriya**, School of Computing and Electrical Engineering, Indian Institute of Technology Mandi, India.
- Bottom Center-Right:** Date and time: **09.05.22 11:30 a.m.** Location: **Pallava Hall** (indicated by a red location pin icon).
- Bottom Left:** A vertical list of names: **Dr. P. Narasimman, AP/EEE**, **Mr. T. Pasupathi, AP/ECE**, **Mr. J. Niranjana Samuel, JRF/R&D**.
- Bottom Center:** **Dr. P. P. Shantharaman, DRC Convenor**.
- Bottom Right:** **Dr. J. Arputha Vijaya Selvi, Principal**.

Feedback Summary



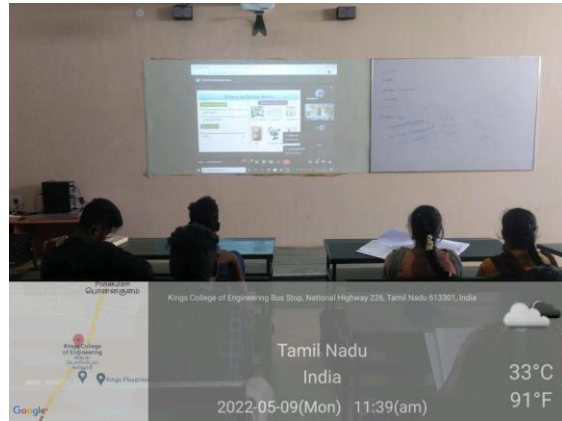
Students of Civil attending the Webinar



Students of CSE attending the Webinar



Students of ECE attending the Webinar



Students of EEE attending the Webinar



Students of MECH attending the Webinar



Pasupathi T <pasu.tamil@gmail.com>

Request for consent - reg

Niranjan Samuel J <niranjansamuel@kingsengg.edu.in>

Thu, May 5, 2022 at 8:27 PM

To: rajeshpindoriya@gmail.com

Cc: pasu.tamil@gmail.com

Sir,

Greetings from Kings College of Engineering - IEEE STB 16621

Kings College of Engineering (KCE) is an institution which was formed with the single aim of providing quality education to the poor and underprivileged students. KCE is approved by All India Council for Technical Education, New Delhi (AICTE) and is affiliated to Anna University, Chennai. The institution was established in the year 2001 on a sprawling campus of around 60 acres on the Thanjavur-Pudukkottai Highway and run by Raj Educational Trust (RET). The institution offers six U.G and four P.G programmes and is certified with ISO 9001:2008.

IEEE Student Branch in association with R&D Section is observing National Technology Day on 11.05.2022. In connection with we would like to invite you to deliver a lecture of one hour duration in the webinar scheduled on 09.05.2022 (11:30 - 12:30 p.m.)

Expecting a favourable reply in this regard.

Kindly send us your profile.

Thank you,

Regards,

J. Niranjan Samuel
JRF/ECE-R&D
Coordinator - Social Media & Press
Incharge - IEEE STB 16621
Kings College of Engineering
Punalkulam, Near Thanjavur



Pasupathi T <pasu.tamil@gmail.com>

Request for consent - reg

Rajesh Pindoriya <rajeshpindoriya@gmail.com>
To: Niranjan Samuel J <niranjansamuel@kingsengg.edu.in>
Cc: pasu.tamil@gmail.com

Fri, May 6, 2022 at 7:29 AM

Dear Niranjan Sir,

Thank you so much for your email and invitation to the IEEE Expert talk. I would like to accept your invitation.

I would like to give IEEE Expert talk on "**Evaluation of Electric Vehicles, future challenges, and opportunities**".

I have attached my brief biodata with this mail, please find the attachment.

If you need any further information, please let me know.

Thanks and Regards,

Rajesh

[Quoted text hidden]


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Dr. Rajesh M. Pindoriya,
Project Engineer,
Mentor, IEEE Student Branch IIT Mandi
Member IEEE, MIE(I), MIETE
Indian Institute of Technology Mandi (IIT Mandi)
Mandi - 175075, Himachal Pradesh, India
Website: rmpindoriya.weebly.com
[Google Scholar](#), [Research Gate](#)

2 attachments



Image_Rajesh.JPG
7336K

 **Speaker Biodata.pdf**
115K

Speaker Biodata

Dr. Rajesh M. Pindoriya (GM'14 - M'20) received the B. Tech degree in Electrical and Electronics Engineering from Rajasthan Technical University Kota, Rajasthan, India in 2012 and M. E. in Power Electronics and Electrical Drives from Gujarat Technological University, Ahmedabad, Gujarat, India in 2014. He received a Ph.D. degree in Power Electronics and Electrical Drives from the Indian Institute of Technology Mandi, India, in 2020. He is currently working as a Project Engineer at IIT Mandi, India.

His present interests and expertise are being inclined (but not limited) towards, controlling special electrical motors such as Permanent Magnet Synchronous Motor (PMSM) and Brushless Direct Current (BLDC) motor and Switched Reluctance Motor (SRM) drives for the application in Electric Vehicles (EVs) and Hybrid Electric Vehicles (HEVs). He is also working on the design of novel power electronics modulation techniques for the reduction of acoustic noise and vibration of special electrical motors.

Dr. Pindoriya is a founding chairperson of IEEE PELS, SIGHT Student Branch chapter IIT Mandi. He is a currently mentor of IEEE Student Branch IIT Mandi. He is a member and executive at large member of PELS Student Subcommittee and PELS YP, respectively. Dr. Pindoriya is a Member of IEEE, a Member of the Institution of Electronics and Telecommunication Engineers (IETE) (AM'17-M'21), a Member of the Institution of Engineering (IE) (AM'17-M'21).