



Workshop
on
**ADVANCEMENT TOWARDS
MORE ELECTRIC
TRANSPORTATION**

14–16 October 2022

Sponsors

IEEE Gujarat
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ice SCLA
GRANT 2022

Venue



**INSTITUTE OF INFRASTRUCTURE
TECHNOLOGY, RESEARCH AND
MANAGEMENT, AHMEDABAD**

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**IEEE POWER
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CALL FOR PARTICIPATION

IEEE Gujarat Section Jt. Chapter of IE-IA-PEL Societies brings you an in-person workshop on 'Moving towards More Electric Transportation' during 14-16 Oct'22 at IITRAM Ahmedabad.

This workshop presents emerging technologies for clean-connected-safe-efficient mobility of the future, such as electric or more-electric terrestrial-marine-aerial-rail systems for personal/mass transportation; and their enabling technologies like motive, storage, grid interaction, ADAS, and vehicle control-connectivity-security-intelligence.

This face-to-face event will feature industry stalwarts and eminent experts having vast experience in e-Mobility domain. The event will also showcase electric automotive products, pilot projects, technologies and tools from various developers.

Researchers, industry professionals, faculty members and engineering students are invited to join this event and find an environment tailored for exchanging knowledge and establishing collaborations and networking.

ORGANIZING COMMITTEE

Anil Roy, DA-IICT, Gandhinagar

M. A. Mulla, SVNIT, Surat

Amit Ved, Marwadi University, Rajkot

Manisha Shukla, Hitachi Energy, Vadodara

Priyanka Sharma, Samyak Infotech, Ahmedabad

Axay Mehta, IITRAM, Ahmedabad

Abhishek Rawat, IITRAM, Ahmedabad

Priyesh Chauhan, IITRAM, Ahmedabad

REGISTRATION & INFO

For registration and more info on fees, schedule, speakers, etc., please visit <https://bit.ly/eMobility4u> or scan

Last date for registration: 11 Oct'22

For queries, please contact:

✉ priyeshchauhan@iitram.ac.in

☎ +91-9974906487



ADVANCEMENT TOWARDS MORE ELECTRIC TRANSPORTATION

14–16 October 2022 @IITRAM Ahmedabad

SPEAKERS

*Featuring industry stalwarts and eminent experts having vast experience in the diverse technology domains, yet all converging into the **eMobility** applications*

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Amit Gupta | PhD CEng FIEEE FIET FIES
Head, Rolls-Royce Electrical Singapore

“*Urban Air Mobility – Electrical Power & Propulsion*”

*#PowerSystems #sixSigma
#Rolls-RoyceE&T_Awards
#IEEE_McMurrayAward2021
#VestasInnovationExcellenceAward2009*

-- Past Affiliations --

Researcher & Adjunct Faculty @ **National University of Singapore**

Team Leader & Specialist @ **Vestas**

Design Engineer @ **Delphi Automotive Systems**

Electrical Engineer @ **Samsung Heavy Industries**

Electrical Engineer @ **Bechtel Power**

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Haresh Bhare

CTO, Reliance Jio BP Mobility Ltd.

“*EVolution: How EV industry is shaping and
what is needed to take it forward*”

*#xEV #ProductStrategyPlanning
#eDrivetrain #xEVstandards #NationaleMobilityMission*

-- Past Affiliations --

GM EV Product Planning @ **M&M Ltd**

Global Application Manager xEV @ **HORIBA Europe, Germany**

Project Leader @ **Daimler AG, Germany**

Manager EV @ **Tata Motors**

Executive Engineer @ **Siemens**

Research Assistant @ **IIT Delhi**

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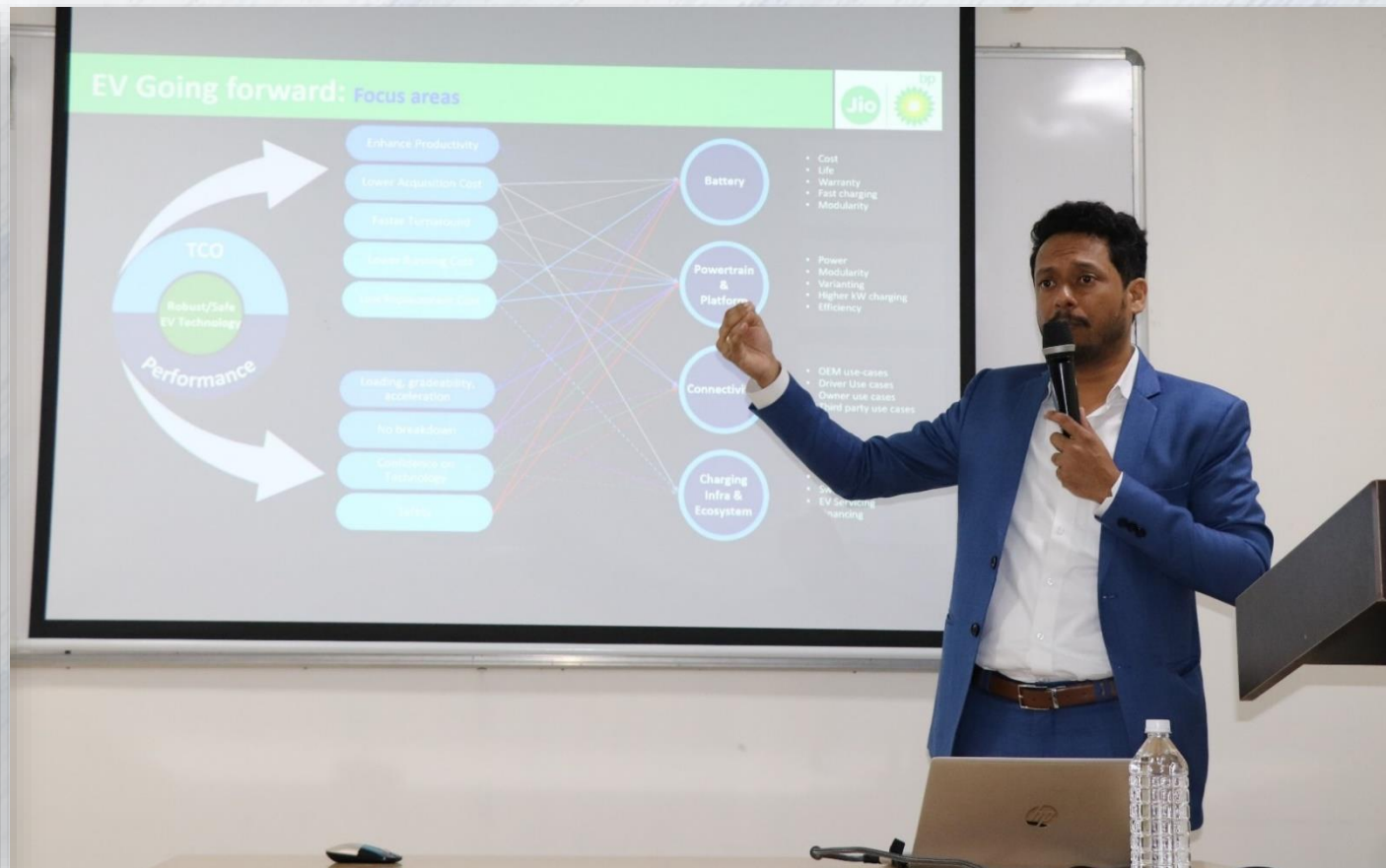
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Ramachandran R.
CTO, Matter Mobility

“ *Constructional & Functional Safety in Automotive* ”

*#R&D_LeaderIndianAutomotiveSpace #Innovation
#StrategicPlanning #ProductDevelopment
#ProjectExecution #ResourcePlanning
#TalentManagement #CapabilityBuilding*

-- Past Affiliations --

CTO & PowerTrain Systems R&D Director @ **Valeo India**
Director, Electrical Electronics & PowerTrain @ **Ola**
Head, Hybrid & EV CoE @ **Mahindra Rise**
Asst. Manager @ **Maruti Udyog Limited**
Sr. Development Engineer @ **Bosch**
Development Engineer @ **Lucas TVS**

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MINDRA

Jainam Shah

Co-Founder & MD, Mindra Green Energy

“ *Indian e-Mobility* ”

#evChargers

#75MW++SolarInverters

#Leadership

#TeamBuilding

-- Past Affiliations --

Hitachi Hi-Rel Power Electronics

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Paritosh Dagli
COO, Starkenn Technologies

“
*Kaun Banega SAFE-pati? Q&A @ADAS and
how it is becoming revolutionary*
”

#ADAS #C #ClearCase
#AutomotiveSafety
#FrontCollisionWarning

-- Past Affiliations --

Director @ **Sixth Sensor Technology Pvt. Ltd.**
QA Engineer @ **Barracuda Networks, San Jose**
QA Engineer @ **Apple Inc., Cupertino**
PG Scholar @ **Santa Clara Uni**

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3 DAYS WORKSHOP ON ADVANCEMENT TOWARDS MORE ELECTRIC TRANSPORTATION

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Department of Electrical and
Electronics Engineering
Institute of Infrastructure
Technology Research and Management
(An Autonomous University established by Govt. of Gujarat)

And Management

KAUN BANEGA

1. Open the participation URL on your mobile
2. Enter your name
3. Each correctly answered question will earn you 100 points



Participation URL:
attend.sl/xwy

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Electronics Engineering
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Technology Research and Management
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(Department of Gujarat)



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Shivani Sharma | PhD
Principal Technical Consultant, Hitachi Energy

“ Grid Integration aspects of e-Mobility ”

*#PowerSystemAnalysis #DesignEngineering
#SustainableEnergyTransition #GridIntegration
#evInfrastructure #ElectricityRegulations
#EconomicTimesEnergy_WomanOfTheYearRenewables*

-- Past Affiliations --

Principal Technical Consultant @ **ABB**
Senior Electrical Engineer@ **Samsung Engineering**
Manager @ **Reliance Industries Limited**

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K. Ragavan | PhD

Assoc. Prof., Electrical Engg, IITGn

“ Extending speed range of EVs ”

#DrivesForEVs
#DiagnosticTestingConditionMonitoring
#PowerFilter

-- Past Affiliations --
Research Engineer @ GE
IP Analyst @ GE
Doctoral Scholar @ IISc B'lore

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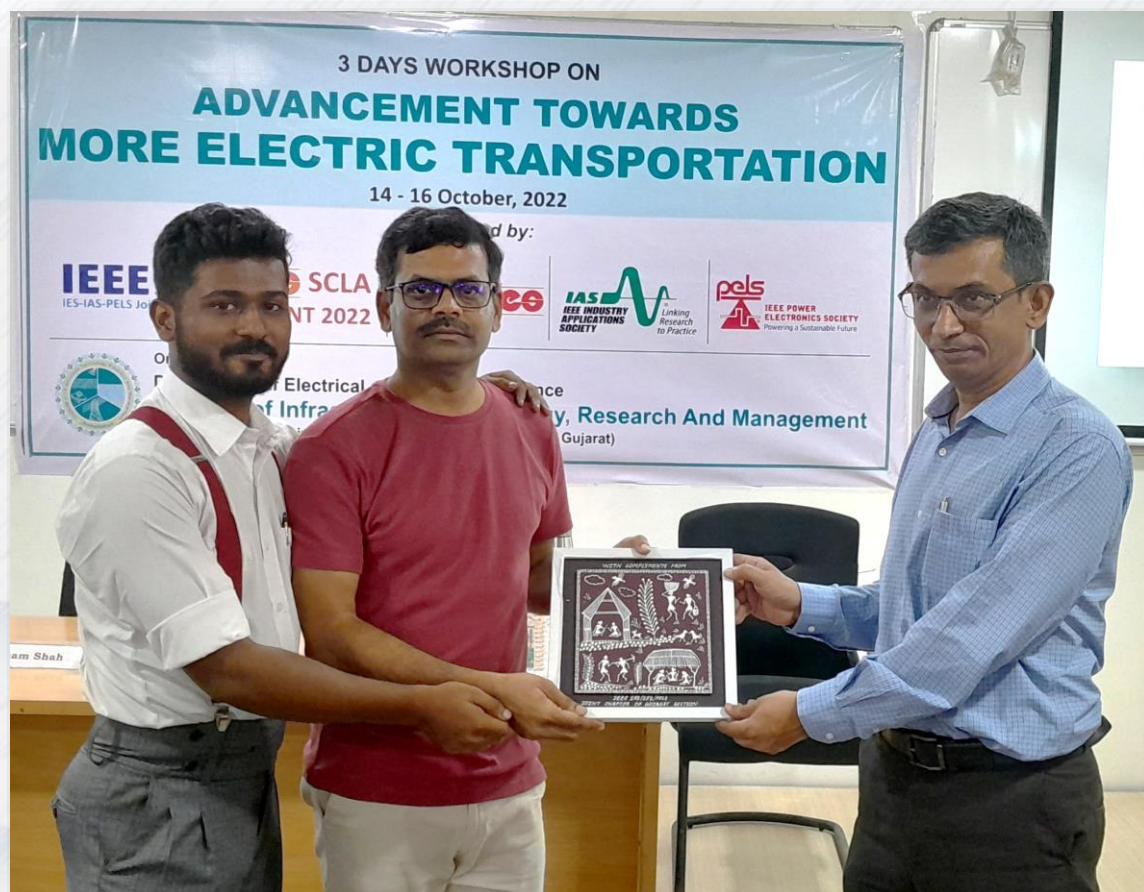
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B. Dastagiri Reddy | PhD

Asst. Prof., Electrical Engg., NITK

“ *Battery charging technology for new-gen eBus* ”

#ABB_TOSA_FlashChargingStations600kW@15sec

#ABB_short2ship_25mva11kv

2Commercialized.Patents@high-power.800kwChargingStation

#sub-seaTransmission

#MarinePropulsion #microgrids

-- Past Affiliations --

Scientist @ **ABB**

Research Fellow @ **National Uni. of Singapore**

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GRIDEN

Jitesh Dodiya
CEO & Director, GridEn Technologies

“ *EV Powertrain* ”

#evPowertrainDesignDevelopmentTestingValidation
#standards #MenzaLucat
#BatteryPackDesignDevelopment
#FastCharger #PMDCmotor
#BLDCmotor #SRM

-- Past Affiliations --

Lead Electrical Engineer @ **Menza Motors Pvt. Ltd.**
Sales & Service Engineer @ **JJ PV Solar**

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Shubham Mishra

Founder & CEO, e-Vega Mobility Labs

“ EVs: Safety and Future ”

*#evDoctor #evDiagnostics
#Li-ionBattery #IoT #MachineLearning
Patent@RailwayTrackFailureMitigation
Patent@BicycleHandlebar*

-- Past Affiliations --

Design Engineer @ **Gensol Group**

Executive Scholar @ **IIMA**

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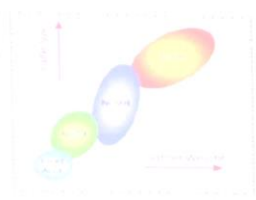
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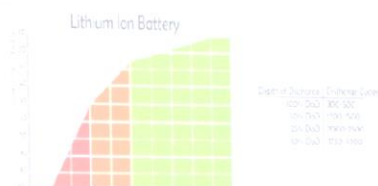


Li batteries are rising

1 Higher energy density



2 More charge-discharge cycles



3 Low self discharge rate

Avg. self discharge rate per month (at room temp.)



4 Dropping prices



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“ *EV Motor Drive Operation & Control* ”

#Simulation
#WindEnergy
#SolarEnergy
#PowerQuality
#PowerElectronics
#EmbeddedSystems
#ActivePowerFilter

Mahmadasraf Mulla | PhD
Assoc. Prof., Electrical Engg., SVNIT

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Pramod Kumar | PhD
Scientist, Shell India Pvt. Ltd.

“ *Simulation of EV using Simscape* ”

*#DataScience #Stateflow
#C #MATLAB #R #Python
#EmbeddedCoder #ModelBasedDesign
#AI #MachineLearning #DeepLearning*

-- Past Affiliations --

Founder and Sr Manager @ **AI Edge Innovations Pvt Ltd**
Sr.Manager, Technology & Skill Dev. @ **Agimus Technologies Pvt Ltd**
Lead Engineer @ **CoreEL Technologies**
Researcher, Asst. Professor @ **Visvesvaraya Technological Uni**

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Gathering of 165 enthusiasts from various categories, regions, countries, professions, universities, industries with different levels of experience...

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PARTICIPATION STATS

<i>Overseas</i>	<i>Other States</i>	<i>Gujarat</i>	<i>Occupation</i>	<i>IEEE Members</i>
2 – Myanmar	8 – Maharashtra	127	69 – Professionals	28 – Professional Members
2 – Nepal	7 – TN		96 – Students	38 – Student Members
1 – Singapore	3 – AP			
1 – USA	3 – Rajasthan			
1 – Ukraine	2 – Karnataka			
1 – Zimbabwe	2 – DNH&DD			
1 – Sudan	1 – WB			
	1 – MP			
	1 – UP			
	1 – Assam			

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Day-1 Fri 14 Oct

11:30 to 12:00	Registration
12:00 to 12:45	Lunch
12:45 to 13:15	Opening Ceremony
13:30 to 14:30	Jainam Shah Co-Founder & MD, Mindra Green Energy “Indian e-Mobility”
14:30 to 14:45	Elevator Pitch – to Industry Panel – by shortlisted entries from Student Conclave
15:00 to 16:30	Ragavan K. Associate Professor of Electrical Engineering, IIT Gandhinagar (Past: GE) “Extending speed range of EVs”
16:30 to 17:00	Tea + Networking
17:00 to 18:30	B. Dastagiri Reddy Director - Dri-EV Tech Solutions Pvt Ltd, NITK-STEP Surathkal and Asst. Professor of Electrical Engineering at NIT Karnataka (Past: ABB GISL) “Battery charging technology for new-gen eBus”
18:30 to 19:00	Elevator Pitch – to Industry Panel – by shortlisted entries from Student Conclave
19:30 to 22:30	Excursion : (Optional) Amdavad Night Heritage Walk with professional tour guide

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Day-2 Sat 15 Oct

10:00 to 10:15	Dhruvit Shah Field Sale Executive, Automation System Engineers Pvt Ltd “Demo of advanced measuring instruments incl. power analyzers – Fluke, Yokogawa, Weller”
10:15 to 11:45	Ramachandran R. CTO, Matter Mobility, Ahmedabad “Safety in Automotive – Constructional & Functional Safety”
11:45 to 12:00	Elevator Pitch – to Industry Panel – by Participants
12:00 to 13:00	Lunch
13:00 to 14:30	Haresh Bhare CTO, Reliance Jio-BP Mobility Ltd. “EVolution: How EV industry is shaping and what is needed to take it forward”
14:30 to 15:30	Paritosh Dagli COO, Starkenn Technologies, Pune “Kaun Banega SAFE-pati? Q&A about Advanced Driver Assistance Systems (ADAS) and how it is becoming revolutionary”
15:30 to 16:00	Elevator Pitch – to Industry Panel – by Participants
16:00 to 16:30	Tea + Networking
16:30 to 18:00	Shivani Sharma Principal Technical Consultant, Hitachi Energy, Faridabad “Grid Integration aspects of e-Mobility”

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Day-3 Sun 16 Oct

09:30 to 11:00	Amit Kumar Gupta Head of Rolls-Royce Electrical Singapore, and Distinguished Lecturer, Asia-Pacific Region, IEEE Industry Applications Society “Electrical Power and Propulsion”
11:00 to 11:30	Tea + Networking
11:30 to 12:30	Jitesh Dodiya CEO & Director, Griden Technologies, Ahmedabad “EV Powertrain”
12:30 to 13:30	Lunch
13:30 to 14:30	Shubham Mishra Founder & CEO of e-Vega Mobility Labs, Ahmedabad “EVs: Safety and Future”
14:30 to 15:30	National Infotech Hands-on: eV motor-drive op ⁿ & control: Simulation + experimental performance
15:30 to 15:45	Tea + Networking
15:45 to 17:30	Pramodkumar Naik Scientist Shell India Pvt. Ltd., Bengaluru, India “Simulation of EV using Simscape”
17:30 to 18:00	Closing Session

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**INAUGURAL
SESSION**

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**NETWORKING
INTERACTION
PITCH**

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ADVANCEMENT TOWARDS MORE ELECTRIC TRANSPORTATION

14–16 October 2022 @IITRAM Ahmedabad

EXCURSION

14Oct - Ahmedabad Night Heritage Walk

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FEEDBACK

Orally during valedictory session

Online form – No. of responses received: 92

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Pushendra Singh • 1st
Associate Professor - EE, JK Lakshmipat University ...
1mo •

Attended a Workshop on Advancement Towards more Electric Transportation_Institute of Infrastructure Technology, Research and Management (IITRAM) Ahmedabad_ 14-16 October 2022. The workshop was sponsored by IEEE Gujarat Section Jt. Chapter of IE-IA-PEL Societies. During the workshop I got an opportunity to interact with industry experts i.e. **Amit Gupta PhD CEng FIEEE FIET FIES** from Rolls-Royce Electrical Singapore, **Haresh Bhere** from Reliance Jio-BP Mobility Ltd., **Dr. Shivani Sharma** from Hitachi Energy, Faridabad, Pramod kumar Naik from Shell India Pvt. Ltd., Bengaluru, Paritosh Dagli from Starkenn Technologies, Pune, Ramachandran R. from Matter Mobility, Ahmedabad, **Shubham Mishra** from e-Vega Mobility Labs, Ahmedabad, **Dr. Dastagiri Reddy Bonthapalle, Ph.D.** from Dri-EV Tech Solutions Pvt Ltd, NITK-STEP Surathkal, Ragavan K. from IIT Gandhinagar and Jainam Shah from Mindra Green Energy Ahmedabad.

I was looking forward to this workshop for weeks, and it exceeded my expectations. I learned a lot from the workshop.

I am looking forward for collaborate with the speakers for strengthening the research focus.

My special thanks to **Priyesh Chauhan, Ph.D.** Chauhan, IITRAM, Ahmedabad for organizing a wonderful workshop.

Thank you very much!

JK Lakshmipat University, Jaipur IEEE Institute of Infrastructure Technology Research and Management (IITRAM) Dr. Amit Ved #electricvehicles #iei #university #research #tech #energy #electrical #phd #phd #phd

You and 72 others

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Aspect	Query	Average score
Clarity on workshop objective	Was the objective of workshop clear to you before registering?	4.2 out of 5
Speakers	Level of satisfaction @ selection of the speakers	4.5 out of 5
Networking - Interaction	Level of satisfaction @ the networking and interaction opportunities	4.5 out of 5
Attendance	How many sessions did you attend?	10.5 out of 12
Food	Rating for food and tea	3.6 out of 5
Accommodation	Rating for hostel facility	3.8 out of 5
Overall	Overall rating to the event	4.3 out of 5

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