

**LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING**

**(An Autonomous Institution Since 2010)**

Approved by AICTE, New Delhi and Permanently Affiliated to JNTUK, Kakinada

Accredited by NAAC with Grade 'A' & ISO: 21001:2018, 50001:2018, 14001:2015 certified

**Department of Electrical and Electronics Engineering**

Accredited by NBA under Tier-I

## **FIVE DAY FACULTY DEVELOPMENT PROGRAM**

### **REPORT**

#### **“RECENT TRENDS IN RENEWABLE AND ELECTRIC VEHICLE TECHNOLOGIES”**

**Date's: 03-06-2024 TO 07-06-2024**

**LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING**

## Schedule of five day FDP

Date	Time	Resource Person	Title	Online Link MICROSOFT TEAMS
Day 1: 3/6/24	10:00 AM - 12:00 PM	Dr Suresh Mikkili, National Institute of Technology, Goa.	EV Charging Topologies: V2G and G2V etc...	<a href="https://tinyurl.com/5D-FDP-LBRCE-EEE">https://tinyurl.com/5D-FDP-LBRCE-EEE</a>
Day 2: 4/6/24	10:00 AM - 12:00 PM	Dr Ch.Ramulu, National Institute of Technology, Warangal	High Gain DC-DC Converter for PV and Fuel Cell Applications	
Day 3: 5/6/24	10:00 AM - 12:00 PM	Dr I Satish Kumar, National Institute of Technology, Warangal.	Optimal LFC in interconnected microgrids.	
Day 4: 6/6/24	10:00 AM - 12:00 PM	Dr. K.Sri Phani Krishna, National Institute of Technology, Andhra Pradesh.	AI Techniques for Electric Vehicles	
Day 5: 7/6/24	10:00 AM - 12:00 PM	Dr. Sankar Peddapati, National Institute of Technology, Andhra Pradesh	Power Converters for Renewable and Electric Vehicles	

# FDP ON RECENT TRENDS IN RENEWABLE AND ELECTRIC VEHICLE TECHNOLOGIES

LBRCE organized one-week faculty development program on “**RECENT TRENDS IN RENEWABLE AND ELECTRIC VEHICLE TECHNOLOGIES**” was conducted from 3rd to 7th June, 2024 in Online mode. In this FDP, around 157 participants were from different engineering colleges of the 5 different states participated.

In online mode, the speakers for the one-week faculty development program on “**RECENT TRENDS IN RENEWABLE AND ELECTRIC VEHICLE TECHNOLOGIES**” were:

**Dr. Suresh Mikkili**, Associate Professor, Department of Electrical Engineering, NIT, GOA.



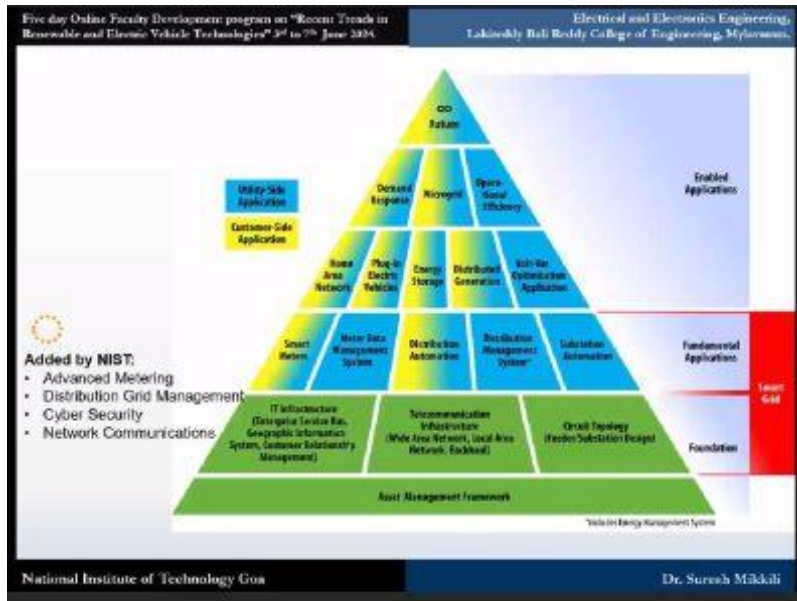
## Day -1:

On 3rd June, 2024, the following topics are discussed during the session.

- Introduction and motivation for the Indian context
- New entrants in power sector.
- Changing the face of grid
- Trends of the generation, distribution and consumption levels of power systems.
- Present power systems.
- Future power systems,

The screenshot shows a Zoom meeting interface. The main content is a presentation slide titled "Changing the Face of the Grid" with handwritten notes "Grids ICT Ability" and "R. P. Q.". The slide features a diagram of a power grid with several colored arrows pointing to different aspects: "Real-time Simulation" (red), "Wide-Area Reliability" (blue), "Network Optimization" (purple), "Customer Participation" (green), and "Participation in Energy Markets" (orange). The meeting controls at the top show a list of participants including DM, GT, DB, M, NR, DB, K, and RA. The meeting title is "ICT Based Green Energy Technologies Day1 (17-10-2022)".

The screenshot shows a presentation slide titled "Present power system". The slide contains a detailed diagram of a power system. On the left, there are icons for "Thermal", "Solar", "Wind", and "Hydro" power generation. These feed into "Transmission" lines, which connect to "Substations". A "PMU" (Phasor Measurement Unit) is shown monitoring the system. The diagram also includes "Transmission and distribution control center", "Industrial load", and "Commercial load". At the bottom, there is an "EV charging station" with a car icon. The slide footer includes "National Institute of Technology Goa" and "Dr. Suresh Mikkili".



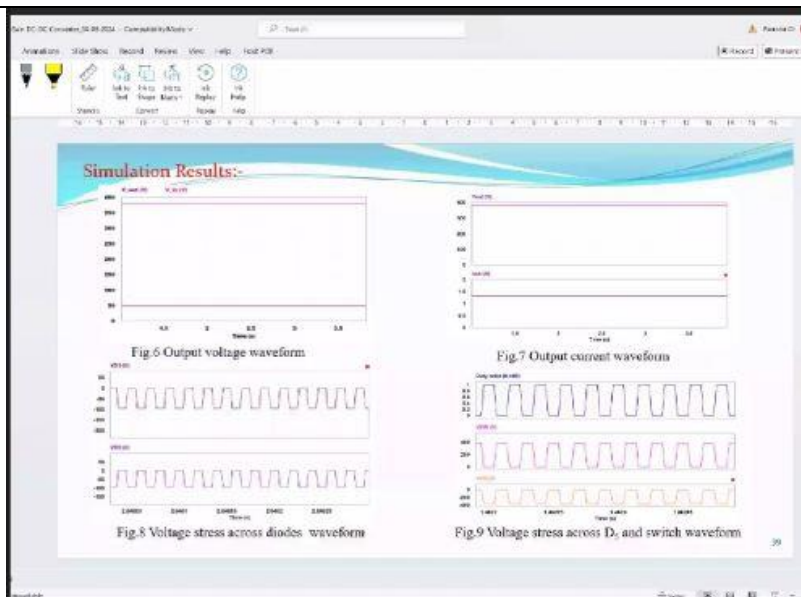
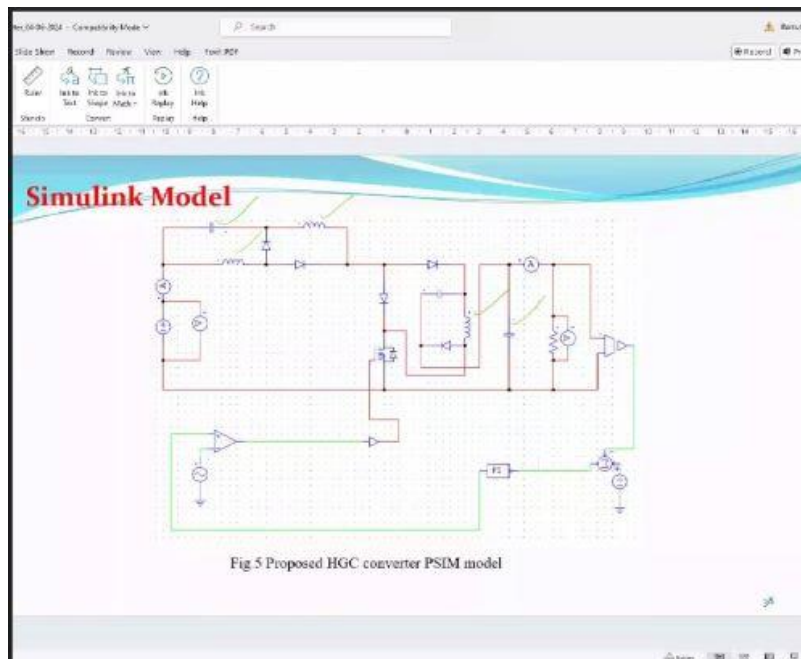
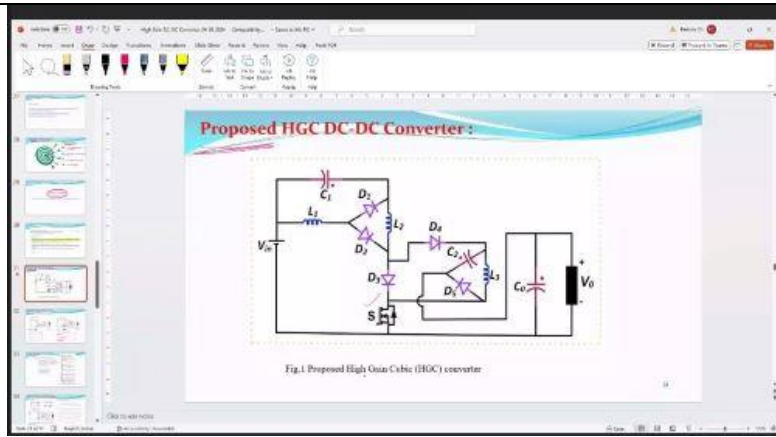
**Dr Ramulu Ch**, Assistant Professor, Department of Electrical Engineering, National Institute of Technology, Warangal.



### Day-2:

On 4<sup>th</sup> June, 2024, the following topics are discussed during the online session.

- Design of High gain DC-DC converters
- Single switch high step-up zeta converter based on coat circuit
- High step up step down transformer less bidirectional DC-DC converter for energy storage..
- Proposed HGC DC-DC Converter and modes of operations.
- Voltage gain in CCM.
- High gain converter applications.
- Simulation model



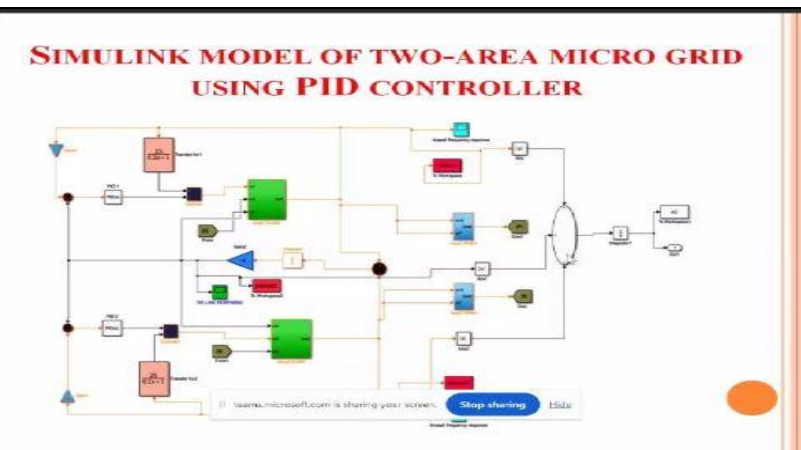
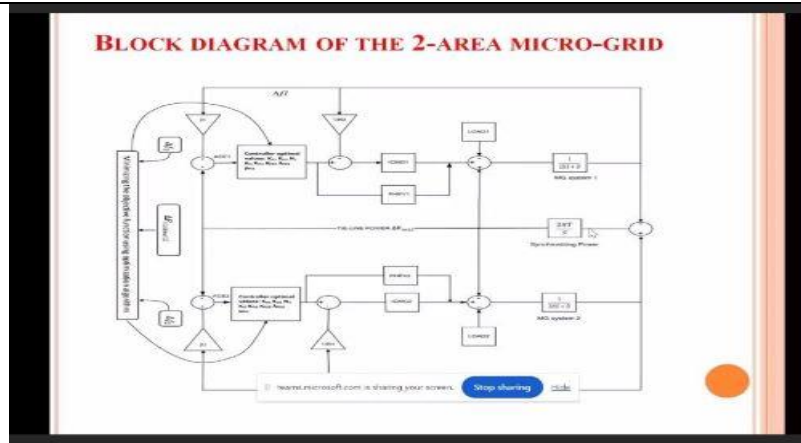
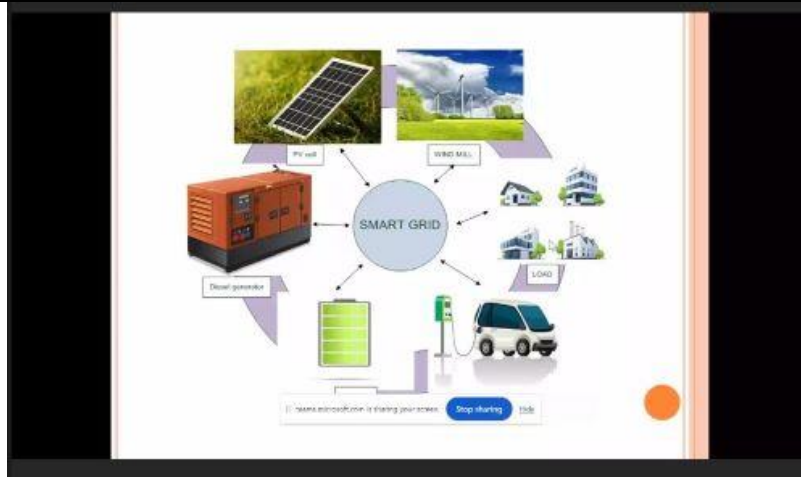
**Dr. I Satish Kumar**, Assistant Professor, Department of Electrical Engineering, National Institute of Technology, Warangal.



**Day-3:**

On 5th June, 2024, the following topics are discussed during the online session.

- Inter connected micro grids.
- Frequency deviations
- Controller design
- Tuning algorithms.
- Butterfly optimization algorithm.
- Real time validation.



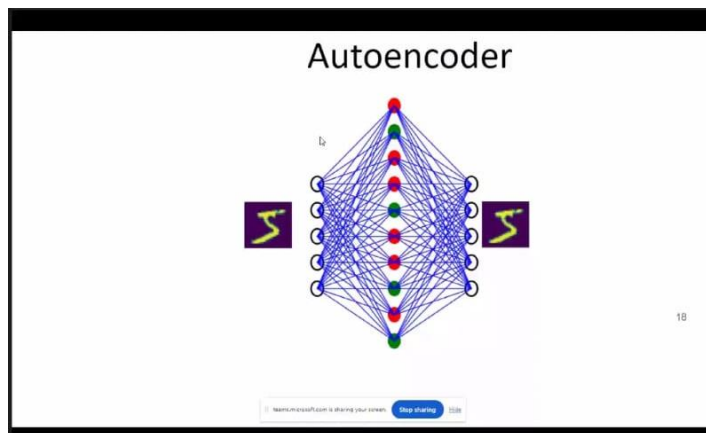
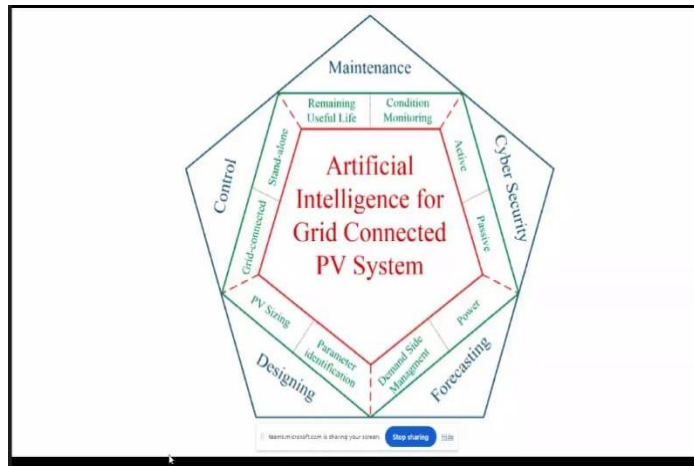
**Dr.K. Sri phani krishna**, Assistant Professor, Department of Electrical Engineering, National Institute of Technology, Andhra Pradesh.



**Day :4**

On 6th June, 2024, the following topics are discussed during the online session.

- Artificial intelligence for grid connected PV system.
- AI for efficient renewable energy.
- Real-time adjustments.
- Fault detection and diagnosis.
- Auto encoder.
- Nuts and bolts of deep learning.



**Deep Reinforcement Learning Based Optimal Control of Renewable Solar Grid Integration Under Uncertainty Conditions**

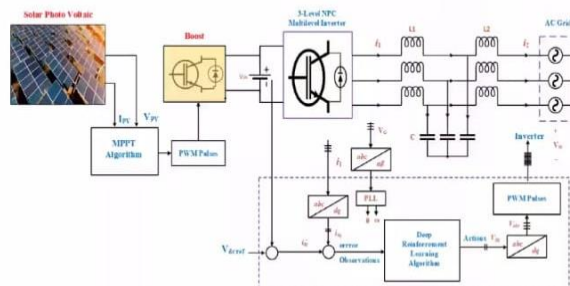


Figure: Deep Reinforcement Learning Based Optimal Control of Renewable Solar Grid Integration Under Uncertainty Conditions

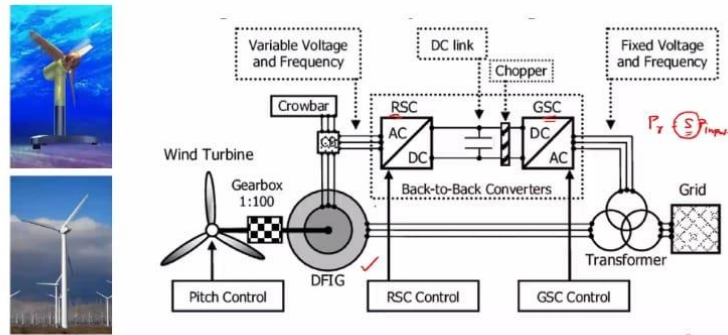


**Day:5**

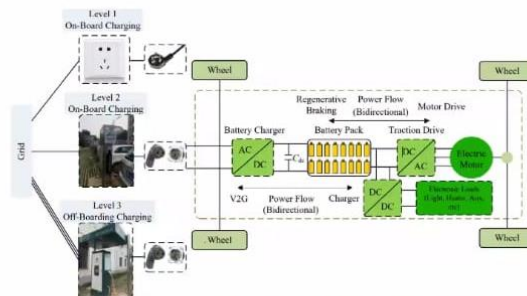
On 7th June, 2024, the following topics are discussed during the online session.

- Photo voltaic cells.
- Power Electronics in wind/tidal generation.
- Power Electronics in Electric Vehicles.
- Soft switching converters.
- Fault tolerant MLI
- Driver circuit of MOSFET/IGBT.
- Sensors for closed loop implementation.

**Power Electronics in Wind/Tidal Generation**



**Power Electronics in Electric Vehicles**



Source: Liwen Pan & Chengning Zhang, 2016. "An Integrated Multifunctional Bidirectional AC/DC and DC/DC Converter for Electric Vehicles Applications," *Energies*, MDPI, vol. 9(7), pages 1-23, June.



## ఎమర్జింగ్ ట్రండింగ్ టెక్నాలజీస్ పై సరైన అవగాహన పెంచుకొనాలని - డా.యమ్. సురేష్

● యల్.బి.ఆర్.సి.ఈ లో “రీసెంట్ ట్రెండ్స్ ఇన్ రెన్యూవబుల్ అండ్ ఎలక్ట్రికల్ వెహికల్స్ టెక్నాలజీస్” పై ఆన్ లైన్ ఫాకల్టీ డెవలప్మెంట్ ప్రోగ్రాం



మైలవరం,జూన్ 3 (వార్తాప్రభ) : ఎమర్జింగ్ ట్రండింగ్ టెక్నాలజీస్ పై సరైన అవగాహన పెంచుకొని కెరియర్ ను అభివృద్ధి చేసుకోవాలని గోవా నిట్ (NIT,గోవా) అసోసియేట్ ప్రొఫెసర్ డాక్టర్.ఎమ్.సురేష్ పేర్కొన్నారు.స్థానిక లక్ష్మీరెడ్డి బాలి రెడ్డి ఇంజనీరింగ్ కళాశాలలో ఇంజనీరింగ్ ఈ ఈ ఈ విభాగం వారి ఆధ్వర్యంలో “రీసెంట్ ట్రెండ్స్ ఇన్ రెన్యూవబుల్ అండ్ ఎలక్ట్రికల్ వెహికల్స్ టెక్నాలజీస్” అనే అంశంపై సోమవారం ఆన్ లైన్ ఫాకల్టీ డెవలప్మెంట్ ప్రోగ్రాం ప్రారంభించారు.ఈ ప్రోగ్రాం కు ముఖ్యఅతిథిగా అసోసియేట్ ప్రొఫెసర్ డాక్టర్.మిక్కిలి.సురేష్ (NIT, గోవా)హాజరయ్యారు. ఈ సందర్భంగా ఆయన అధ్యాపకులను ఉద్దేశించి మాట్లాడుతూ రీసెంట్ ట్రెండ్స్ ఇన్ రెన్యూవబుల్ అండ్ ఎలక్ట్రికల్ వెహికల్స్ టెక్నాలజీస్ గురించి విపులం గా వివరించారు.ఈ నెల 3వ తేదీ నుంచి 7వ తేదీ వరకు (5 రోజులు)ప్రోగ్రాం జరుగుతుందని కళాశాల ప్రిన్సిపాల్ డా. అప్పారావు తెలిపారు.రెన్యూవబుల్ అండ్ ఎలక్ట్రికల్ వెహికల్స్ టెక్నాలజీస్ లో ఎప్పటికప్పుడు వచ్చే నూతన ట్రెండ్స్ ను తెలుసుకుంటే కెరియర్ కు దోహదపడుతుందన్నారు.ఆరు రాష్ట్రాలకు చెందిన 49 కళాశాలల నుంచి 150 మంది అధ్యాపకుల కి ఈ ప్రోగ్రాం ఉపయోగపడుతుందని ఈ. ఈ. ఈ (EEE) విభాగ అధిపతి డాక్టర్ జె.శివవర ప్రసాద్ తెలియజేశారు.ఈ కార్యక్రమాని కి ఈ ఈ ఈ విభాగ అధిపతి డాక్టర్ జె. శివవర ప్రసాద్ కన్వీనర్ గాను, ఆర్. పద్మ, టి. హిమబిందు కోఆర్డినేటర్స్ గా వ్యవహరించారు.ఈ కార్యక్రమంలో కళాశాల వైస్ ప్రిన్సిపాల్ డా.బి.రమేష్ రెడ్డి, డీన్స్, వివిధ విభాగాధిపతులు, అధ్యాపకులు పాల్గొన్నారు.

## యల్.బి.ఆర్.సి.ఈ లో “రీసెంట్ ట్రెండ్స్ ఇన్ రెన్యూవబుల్ & ఎలక్ట్రికల్ వెహికల్స్ టెక్నాలజీస్ ” పై ఆన్ లైన్ ఫాకల్టీ డెవలప్మెంట్ ప్రోగ్రాం

మైలవరం జూన్ 3 మనం స్వయం: స్థానిక లక్ష్మీరెడ్డి బాలిరెడ్డి ఇంజనీరింగ్ కళాశాల ఈ ఈ ఈ విభాగం వారి ఆధ్వర్యంలో “రీసెంట్ ట్రెండ్స్ ఇన్ రెన్యూవబుల్ & ఎలక్ట్రికల్ వెహికల్స్ టెక్నాలజీస్” అనే అంశంపై 5 రోజుల (03-06-2024 - 07-06-2024) ఆన్ లైన్ ఫాకల్టీ డెవలప్మెంట్ ప్రోగ్రాం ఈ రోజు ప్రారంభించారు. 6 రాష్ట్రాలకు చెందిన 49 కళాశాలల అధ్యాపకులు మొత్తం 150 మంది కి ఈ ప్రోగ్రాం ఉపయోగపడుతుందని ఈ ఈ ఈ విభాగ అధిపతి జె. శివవర ప్రసాద్ తెలియజేశారు. ఈ కార్యక్రమానికి అసోసియేట్ ప్రొఫెసర్ ఎమ్.సురేష్ (ఎన్, ఐ, టి గోవా) ముఖ్య అతిథిగా పాల్గొన్నారు. ఈ సందర్భంగా ఆయన అధ్యాపకులను ఉద్దేశించి మాట్లాడుతూ రీసెంట్ ట్రెండ్స్ ఇన్ రెన్యూవబుల్ & ఎలక్ట్రికల్ వెహికల్స్ టెక్నాలజీస్ గురించి విపులంగా విశదీకరించారు. కళాశాల ప్రిన్సిపాల్ .కె.అప్పారావు మాట్లాడుతూ ఈ ఎమర్జింగ్ ట్రండింగ్ టెక్నాలజీస్ మీద సరైన అవగాహన పెంచుకొనాలని కోరారు. రెన్యూవబుల్ & ఎలక్ట్రికల్ వెహికల్స్ టెక్నాలజీస్ లో ఎప్పటికప్పుడు వచ్చే కొత్త ట్రెండ్స్ ను తెలుసుకుని వాటి ద్వారా కెరియర్ ను అభివృద్ధి చేసుకోవాలని సూచించారు. ఈ కార్యక్రమానికి ఈ ఈ ఈ విభాగ అధిపతి జె. శివవర ప్రసాద్ కన్వీనర్ గాను, ఆర్. పద్మ, టి. హిమబిందు కోఆర్డినేటర్స్ గా వ్యవహరించారు. ఈ కార్యక్రమంలో కళాశాల వైస్ ప్రిన్సిపాల్ .బి.రమేష్ రెడ్డి, డీన్స్, వివిధ విభాగాధిపతులు మరియు అధ్యాపకులు పాల్గొన్నారు.



**LIST OF REGISTERED CANDIDATES**

S.NO	NAME	DESIGNATION	COLLEGE	MAIL-ID
1	P RATHNAKAR KUMAR	ASSISTANT PROFESSOR	LBRCE	rathna228@gmail.com
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3	Navdeep Singh	Assistant Professor	MMMUT GORAKHPUR	nsee@mmmut.ac.in
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6	Mr.PURNA CHANDRA RAO PODILA	Assistant professor	Sasi institute of technology and Engineering	chandu.podila@gmail.com
7	Dr Kiran Kumar Kuthadi	Assoc. Professor	Sree Vahini Institute of Science and technology	kiran9949610070@gmail.com
8	D Venkata Lakshmi	Assistant professor	Lakireddy Bali Reddy College of engineering	lakshmi.darla@gmail.com
9	Manjulata Badi	Assistant professor	Alliance University	mlbadi@gmail.com
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11	P MIRIAN KUMAR	ASSISTANT PROFESSOR	CBIT, PRODDATUR	mirianp204@gmail.com
12	Dr. T.N.V.L.N. Kumar	Professor	JNTUA/Geethanjali Institute of Science and Technology	tnvlnkumar@gmail.com
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14	Dr A Purna Chandra rao	Prof	Qis College classwork engineering and technology ongole	rao.sacet16@ail.com
15	M V Subramanyam	Assistant Professor	Matrusri Engineeing College	mvsbramanyam@matrusri.edu.in
16	Suresh Babu Maddina	Assistant professor	Bapatla Engineering College	sureshbabu.maddina@becbapatla.ac.in
17	Yaramasu suribabu	Assistant professor	RVR & JC College of engineering	ysuribabu@gmail.com
18	A V RAVIKUMAR	ASSISTANT PROFESSOR	LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING	ravi0258@gmail.com
19	Bhawana Deshmukh	Assistant Professor	OP jindal university	bhawana.deshmukh@opju.ac.in
20	NMG Kumar	Professor	Mohan babu university	nmgkumarphd@gmail.com
21	PRATTIPATI NAGARJUNA	Assistant Professor	VVIT	pnagarjuna204@gmail.com
22	Dr Ch Sridhar	Associate professor	Bapatla Engineering college, bapatla	challagollaeee@gmail.com
23	Dr Gundala Srinivasa Rao	Associate Professor	CMR College of Engineering & Technology, Hyderabad	drgundalasrinivasarao@gmail.com
24	Kiranmaie kasimala	Asst professor	VVIT	kasimalakiranmaie247@gmail.com
25	Dr.CH.RAMBABU	Professor	VVIT	rams_babu2001@yahoo.com
26	Muppoori Nagendra	Assistant professor	Bapatla Engineering College, Bapatla	nagendra435@gmail.com
27	Kambham ramya	Asst.professor	Svist	kambhamramya@gmail.com
28	DHUDEM SANTHOSH	Assistant Professor	CMR COLLEGE OF ENGINEERING AND TECHNOLOGY	dsanthosh@cmrcet.ac.in
29	R.Sumalatha	Asst prof	CBIT	msumalatha2010@gmail.com

30	G.CHAITANYA	ASSISTANT PROFESSOR	VVIT	chaitu.graddala222@gmail.com
31	Nuthulapati Rajesh Babu	Assistant Professor	PSCMR CET	rajeshnuthulapati@gmail.com
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