

Electric Vehicles & Transportations: Communication Protocols for Electric Vehicles, Modelling, Simulation and Control of EV Systems, Advanced Electrical Machines applications in Electric Transportation, Unmanned Vehicles

Renewable Energy Sources & Storages: Solar energy & PV cell technology, Wind Energy, Fuel Cell Technology, Biomass and biofuels, Energy & Battery Management and storage, High-performance cogeneration, Ultracapacitors, Battery Systems, Advanced Battery for EV's

Smart Buildings: Lighting systems and components, Metering systems, Sensors, Nearly zero energy buildings, Supervisory systems.

IoT, Industrial Automation & Computing: Industry 4.0, 5G, Cyber-Security, Industrial IoT, Machines Vision, Pattern Recognition, Signal and Image Processing, Hybrid Evolutionary Algorithms, Soft Computing, Robotics Revolution, MEMS, PLC's, Distributed Systems

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*Dr.Damacharala Praveen*, Research Scientist & Product Designer at KineticAI, Inc.,

#### For More Details Please Contact:

**Dr. J. Somlal**

HoD, EEE  
0863-2399999, Ext: 1551  
+91-77300-86061

Convener, NCETS GEVT-2021

**Dr. K Narasimha Raju**,  
Professor, +91-9666693394  
conferences\_eee@kluniversity.in

Co-Convener, NCETS GEVT -2021

**Dr. M Kiran Kumar**

+91-9885482535  
Co-Ordinator, NCETS GEVT -2021

**Mr. D Kalyan**

+91- 9700346365  
Co-Ordinator, NCETS GEVT -2021

**Mr. S Ravi Teja**

+91-8500916362

# 2<sup>nd</sup> National Conference on Emerging Trends in Smart Grids & Electric Vehicle Technologies

(NCETS GEVT-2021) (Virtual Mode)

On 28<sup>th</sup> & 29<sup>th</sup> June 2021



Organized by:



Department of  
**Electrical and Electronics**



[www.kluniversity.in](http://www.kluniversity.in)

### SCOPE OF CONFERENCE:

Smart Grid and E V Technologies, for its enormous impact on the next generation energy consumption and transportation has been highly focused research and deployment venture which paved way for interdisciplinary research in electrical, electronics, computer, instrumentation, automation, and communication engineering. The conference aims at the coagulation of research ideas in monitoring, metering, sensing, automation, communication, information security and IOT aspects of smart grids besides the ideas of renewable power integration and power system re-structuring. Expert talks are planned for exchange of ideas and sharing expertise. The conference serves to be good platform to enrich research activities towards smart grid & EV technologies.

### ABOUT KONERU LAKSHMAIAH EDUCATION FOUNDATION:

The Koneru Lakshmaiah Charities was established as a trust in the year 1980 and started KL College of Engineering in the Academic year 1980-81. The trust was converted into a society by the name Koneru Lakshmaiah Education Foundation in the year 1996.

The KL College of Engineering has attained autonomous status in the year 2006 and in February 2009, the Koneru Lakshmaiah Education Foundation was recognized as Deemed to be University.

### HALLMARKS:

- NAAC A++ Grade with 3.57 CGPA on 4-point scale
- CATEGORY-1 University by UGC under the categorization of Universities for Grant of Graded Autonomy
- Approved by MHRD & UGC (Under Section 3 of UGC Act 1956)

### ABOUT EEE DEPARTMENT:

The Department of Electrical & Electronics Engineering at Koneru Lakshmaiah Education Foundation is started in the year of 1995. Over the last few decades, we have grown our expertise and competence in the core Electrical & Electronics Engineering curriculum and research. We have a strong undergraduate program in Electrical & Electronics engineering (B. Tech), M. Tech. & dual degree program. We have good researchers for

more than 170 PhD scholars. EEE department offers design-based engineering curriculum. The department maintains active research groups for carrying out collaborative and interdisciplinary research. We have state of art research facilities to support our academic programs blended with research. Sponsored Funding projects worth of Approx. 2.5 crores during last five years from DST-SERB & AICTE etc., to maintain and modernize our research infrastructure. The department has 4 research labs and 7 Academic state of art facilities. The department faculty have published 9 patents in IPR and 16 technical textbooks in standard publishers. The department has strong industry connect like MNC's and top public & private industries to bridge the gap between academia and industry. The faculty members got many prestigious awards at national and international levels. EEE department looks forward to contribute in solving the technological challenges of the society

PhD degree, at present the department has

### REGISTRATION DETAILS:

REGISTRATION LINK:

<https://www.kluniversity.in/eee/eee-conference-2021/>

### PUBLICATION DETAILS:

All the accepted papers will be published in API proceedings indexed in both Scopus & WOS.

### PAYMENT:

Registration Fee can Paid Online:

Remittance/Wire transfer details:

- Name of the account: Registrar K L U
- Account No: 62310916292
- Name of the bank: SBI Vaddeswaram
- IFSC Code: SBIN0021361

### CALL FOR PAPERS:

#### PAPER SUBMISSION:

Authors are requested to mail the soft copy of full-length paper to: [conferences\\_eee@kluniversity.in](mailto:conferences_eee@kluniversity.in)

#### IMPORTANT DATES:

Submission of paper -	10th June 2021
Notification of Acceptance -	18th June 2021
Submission of camera-ready paper & Registration along with payment -	22st June 2021
Conference Dates -	28th & 29th June 2021

#### REGISTRATION FEE:

Minimum one author per paper should register for presenting the work (includes certificates and conference proceedings)

Research Scholar and Student	-	Rs. 750/-*
Faculty Member	-	Rs. 1000/-*
Industry Participants	-	Rs. 1500/-*
Non-presenting Member	-	Rs. 500/-*
Publication (including Registration)	-	Rs. 9000/-*

Prospective authors are invited to submit full length original manuscripts limited to 6 pages (which have not been submitted or published elsewhere in other conferences / journals) in IEEE format. Submissions shall include title, abstract, keywords, author, and affiliation with email address.

The conference covers wide range of topics under Smart and Micro-grids including, but not limited to, the following:

**Power Electronics & Converters:** Converters for Renewable Energies, Converters for Storage, Low-frequency EMC, Emerging Power Semi-Conductor Devices, Modular multi-level converters, Switch Mode Power Supplies, Soft Switching of dc-dc converters, Multiple output dc-dc converters, High gain dc-dc converters, Resonant converters, power electronics in consumer electronics.

**EV Technologies:** Algorithms for B.M.S, Fast charging Techniques and Converters, Advanced Motor drive controls, Novel motor Designs, AI and IoT application for EV.

**Power Systems:** Computer Aided Power System Protection, Artificial intelligence in power systems, Power System Planning and Management, Smart, Micro-grids, Regulation & Electricity Markets: Generation and transmission expansion, Pricing of electricity, Power markets, Smart meters, Decentralized control of micro-grids, Dispatching in power systems, Multi-agent systems, Power System Communication Networks, System Islanding and Restoration, Cyber-Security.