



## Koneru Lakshmaiah Education Foundation

(Category -1, Deemed to be University estd. u/s. 3 of the UGC Act, 1956)

Accredited by NAAC as 'A++' ♦ Approved by AICTE ♦ ISO 21001:2018 Certified  
Campus: Green Fields, Vaddeswaram - 522 302, Guntur District, Andhra Pradesh, INDIA.  
Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in  
Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

Ref: KLEF/HOD-EEE/2022-23

Date: 24-12-2022

### CIRCULAR

**Sub:** Conduction of a Guest lecturer on “**Smart Grid Innovations beyond Technological Advancements**” by Department of EEE, KLEF – Reg.

Ref: Letter dated 22.12.2022 from Dr.T. Vijaymuni, Professor, EEE, forwarded by HoD-EEE.

\*\*\*

This is to inform that Department of EEE, KLEF, in association with IEEE Guntur Subsection is conducting Guest lecturer on “**Smart Grid Innovations beyond Technological Advancements**” for the benefit of faculty members and students as per the details given below.

**Resource Person : Dr. Bala Krishna Pamulaparthi, Senior Engineer- Emerging Technologies, General Electric, Hyderabad**

**Date & Time : 27-12-2022, 10AM**

**Venue: Sunflower Hall**

**Registration Link : [2https://events.vtools.ieee.org/evcnt/register/254789](https://events.vtools.ieee.org/evcnt/register/254789)**

**Faculty Coordinators:**

**Dr.T.Vijay Muni, Asst.Professor, EEE Department, K L E F**

In this regard, the Head of the Departments/ Sections are requested to encourage their faculty, students and research scholars to participate and get maximum benefit out of this.

**HOD EEE**

**Dr. A. P. M. Head**  
**Department of EEE**  
**KLEF Deemed to be University**  
**Green Fields, Vaddeswaram,**  
**GUNTUR Dt., A.P - 522 502**



## **Koneru Lakshmaiah Education Foundation**

(Category -1, Deemed to be University estd. u/s. 3 of the UGC Act, 1956)

Accredited by NAAC as 'A++' ♦ Approved by AICTE ♦ ISO 21001:2018 Certified

**Campus:** Green Fields, Vaddeswaram - 522 302, Guntur District, Andhra Pradesh, INDIA.

Phone No. +91 8645 - 350 200; [www.klef.ac.in](http://www.klef.ac.in); [www.klef.edu.in](http://www.klef.edu.in); [www.kluniversity.in](http://www.kluniversity.in)

**Admin Off:** 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

Date: 27-12-2022

Venue: Sun flower Hall

### **Guest lecturer on Smart Grid Innovations beyond Technological Advancements**

#### **Report on Guest Lecture by Dr. Bala Krishna Pamulaparth, Senior Engineer- Emerging Technologies, General Electric, Hyderabad**

Event: Guest Lecture by Dr. Bala Krishna Pamulaparth, Senior Engineer- Emerging Technologies, General Electric, Hyderabad

Department of EEE conducted a Guest lecturer on Smart Grid Innovations beyond Technological Advancements in association with professional society on 27-12-2022.

Dr. Bala Krishna Pamulaparth, Senior Engineer- Emerging Technologies, General Electric, Hyd. Guest lecture on Smart Grid Innovations beyond Technological Advancements.

The guest lecture on "Smart Grid Innovations beyond Technological Advancements" provided an insightful exploration into the multifaceted evolution of smart grids. Delving beyond mere technological advancements, the speaker shed light on the broader implications and transformative potential of smart grid innovations. Emphasizing the importance of holistic approaches, they highlighted the integration of social, economic, and environmental factors into smart grid development. Through real-world examples and case studies, attendees gained a deeper understanding of how smart grids are reshaping energy landscapes, enabling efficient resource management, enhancing grid resilience, and fostering sustainable practices. Moreover, the lecture underscored the significance of stakeholder engagement, policy frameworks, and regulatory mechanisms in driving the adoption and effectiveness of smart grid solutions. Overall, the lecture not only expanded our knowledge of technological innovations but also inspired a broader perspective on the holistic impact of smart grids on society and the environment.

**Sustainability and Environmental Conservation:** One of the primary objectives of smart grid innovations is to promote sustainability by reducing carbon emissions and environmental impact through the integration of renewable energy sources, energy storage, and demand-side management strategies.

**Efficiency and Reliability:** Smart grid innovations aim to improve the efficiency and reliability of electricity generation, transmission, and distribution systems by optimizing energy flows, reducing losses, and enhancing grid resilience against disruptions and outages.

**Customer Empowerment and Engagement:** Smart grid innovations seek to empower consumers by providing them with real-time information, control, and flexibility over their energy usage, enabling them to make informed decisions, manage their electricity bills, and participate actively in demand response programs.

**Grid Modernization and Optimization:** The objective of smart grid innovations is to modernize and optimize the existing electricity infrastructure by deploying advanced sensors, communication technologies, and data analytics capabilities to monitor, control, and optimize grid operations in real-time.

**Integration of Distributed Energy Resources (DERs):** Smart grid innovations aim to facilitate the seamless integration of distributed energy resources such as solar photovoltaics, wind turbines, energy storage systems, electric vehicles, and microgrids into the grid, enabling their efficient and effective utilization while maintaining grid stability.

**Outcomes of Smart Grid Innovations Beyond Technological Advancements:**

**Energy Cost Reduction:** By enabling demand response, dynamic pricing, and energy efficiency measures, smart grid innovations can lead to significant reductions in energy costs for consumers and utilities, enhancing affordability and competitiveness in the electricity market.

**Enhanced Grid Resilience and Security:** Smart grid innovations contribute to enhancing grid resilience and security by providing real-time monitoring, early detection of anomalies, and rapid response capabilities to mitigate potential threats and vulnerabilities, thus ensuring the reliability and stability of the electricity supply.

**Optimized Asset Utilization and Management:** Smart grid innovations enable utilities to optimize the utilization and management of grid assets such as transformers, substations, and distribution lines through predictive maintenance, asset monitoring, and optimization algorithms, resulting in improved asset performance and longevity.

**Economic Growth and Job Creation:** The deployment of smart grid technologies and solutions stimulates economic growth and job creation by driving investments in research, development, manufacturing, installation, and maintenance of smart grid infrastructure, creating employment opportunities and fostering innovation in the energy sector.

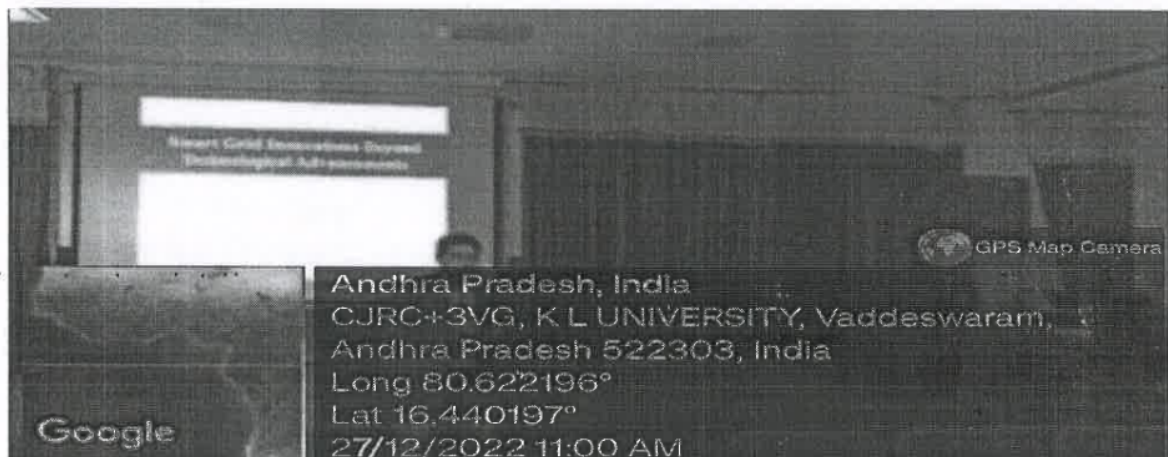
**Environmental Benefits:** Smart grid innovations contribute to environmental conservation by facilitating the integration of renewable energy sources, reducing greenhouse gas emissions, and promoting energy efficiency measures, thus supporting global efforts to mitigate climate change and transition towards a sustainable energy future.

**Empowered and Engaged Consumers:** Smart grid innovations empower consumers by providing them with greater control, choice, and transparency over their energy usage, enabling

them to adopt more sustainable and environmentally friendly energy behaviors while reducing their electricity bills and carbon footprint.

**Grid Flexibility and Adaptability:** Smart grid innovations enhance the flexibility and adaptability of the electricity grid to accommodate changes in demand patterns, generation sources, and operational conditions, thereby improving the grid's ability to withstand and recover from unforeseen events, such as extreme weather events or cyber-attacks.

Overall, smart grid innovations offer a wide range of benefits beyond technological advancements, encompassing economic, environmental, social, and operational dimensions, and playing a crucial role in shaping the future of the electricity industry towards a more sustainable, resilient, and customer-centric energy system.



As an Event coordinator Dr. T Vijay Muni, Assistant Professor EEE Department address the welcome note to the EEE Students.

Attendees: All EEE students, and all Department Faculty.

**PSA Coordinator**  
Dr.T.Vijay Muni

**HOD EEE**  
Professor & Head  
Department of EEE  
KLEF Deemed to be University  
Green Fields, Vaddeswaram,  
GUNTUR Dt., A.P - 522 502



2022-23 students participation - 27/12/2022

National Level Seminar on Smart Grid Innovations  
beyond Technological Advancements

| S.NO | ID NO      | Name of the student               | Signature            |
|------|------------|-----------------------------------|----------------------|
| 1    | 2100060001 | BANOTH SHIVA SHANKARA VARA PRASAD | S. Praveen Prasad    |
| 2    | 2100060002 | THARIGOPULA CHANDRASEKHAR REDDY   | Chandrasekhara Reddy |
| 3    | 2100060003 | SHAIK SHARUK                      | S. Sharuk            |
| 4    | 2100060004 | PADILAM SAI RAM                   | Sai Ram              |
| 5    | 2100060005 | MOHAMMAD YASEEN                   | Yaseen               |
| 6    | 2100060006 | MARRI NAVEEN                      | Navneet              |
| 7    | 2100060007 | GURRALA MANOHAR                   | G. Manohar           |
| 8    | 2100060008 | OLETI MAHA GOUTHAM                | O.M. Goutham         |
| 9    | 2100060009 | M. SHYAM SAI                      | Sai                  |
| 10   | 2100060010 | HRUSHITHA KALAPALA                | Hrushitha            |
| 11   | 2100060012 | REDDI VENKATESH                   | B. Venkatesh         |
| 12   | 2100060013 | SIDDAMSETTI VENKATA ASHRITH       | V. Ashrith           |
| 13   | 2100060014 | Y BHAVITHA                        | S. Venkata ashvith   |
| 14   | 2100060015 | KATUPALLI HARSHAVARDHAN           | Harsha               |
| 15   | 2100060016 | AJOY KUMAR DEY                    | Kumar                |
| 16   | 2100060017 | KABIKA MOSES                      | K. Moses             |
| 17   | 2100060018 | ATUL JEE                          | A. Jee               |
| 18   | 2100060021 | RIYAZ AHMMAD                      | Riyaz Ahmed          |
| 19   | 2100060022 | SHAIK IRFAN                       | Irfan                |
| 20   | 2100060023 | BANOTH NARESH                     | B. Nareesh           |
| 21   | 2100060024 | NYIRANSENGIYUMVA ODETTE           | ODETTE               |
| 22   | 2100060025 | KARAMSETTI CHARAN DATTA SAI       | K. Charan            |
| 23   | 2100060026 | VENKATA CHANDRA SEKHAR KATAKAM    | Chandra              |
| 24   | 2100060028 | MUWONGE PETER                     | Peter                |
| 25   | 2100060029 | CHANDRA SEKHAR BARIK              | Chandra              |
| 26   | 2100060030 | AZMEERA ANIL                      | Anil                 |
| 27   | 2100060031 | MEDA UMA SANTHOSH CHANDRA         | Chandra              |
| 28   | 2100060032 | SHAIK NOWSHEEN                    | Nowsheen             |
| 29   | 2100060034 | KOLLI SUJAN                       | Sujan                |
| 30   | 2100060036 | CHAPALA ASLESH BABU               | K. Sujan             |
| 31   | 2100060037 | KONDA JEEVAN KUMAR                | J. Kumar             |
| 32   | 2100060039 | DHARAVATH LOKESH                  | Lokesh               |
| 33   | 2000060020 | CHINNU JOSEPH SAAMRAT GADI        | Gadi                 |
| 34   | 2000060017 | KOTRAGANTI VENKATA NAGA BALAJI    | K. Venkata naga      |
| 35   | 2000060016 | GUDAPATI KEERTHI                  | G. Keerthi           |
| 36   | 2000060014 | MALLOLU FINY SYAM                 | AB                   |
| 37   | 2000060013 | PALLA SAI KIRAN                   | P. Sai Kiran         |
| 38   | 2000060012 | THUMULA KARTHEEK                  | T. Kartheek          |
| 39   | 2000060011 | BUDDARTHI SHIVAKAR                | B. Shivakar          |
| 40   | 2000060010 | VEMANA VENKATA JANARDHAN REDDY    | Venkata Reddy        |
| 41   | 2000060007 | Nakka Nagendra Kumar              | N. Nagendra Kumar    |
| 42   | 2000060004 | DASARI SETHU HANSITH              | Hansith              |
| 43   | 180060041  | PATAPATI PRAVEEN SAI              | Praveen Sai          |
| 44   | 180060043  | VIATEUR DUSABIMANA                | V. Dusabimana        |
| 45   | 180060044  | AHMED ABDALLA MOHAMED             | Abdalla              |
| 46   | 180060046  | KALIDINDI HASWANTH                | Haswanth             |
| 47   | 180060047  | FELIX CHOMBA                      | Chayon               |
| 48   | 180060048  | Shikato Keke Kabala               | Keke Kabala          |
| 49   | 190060003  | CHENNUPATI PRATHYUSHA             | Prathyusha           |
| 50   | 190060005  | GUMMADI JYOSHNA                   | Jyoshna              |

|    |           |                                      |             |
|----|-----------|--------------------------------------|-------------|
| 51 | 190060006 | JADALA MANIKANTA                     | Manikanta   |
| 52 | 190060007 | K MD IKRAM                           | MD Ikram    |
| 53 | 190060012 | MUNNANGI HEMANTH                     | Hemant      |
| 54 | 190060013 | NARALA VENKATA MOHAN NIKHILESH REDDY | Nikhilesh   |
| 55 | 190060014 | PANYAM SHAJID                        | Shajid      |
| 56 | 190060016 | PULI VENKATA LOKESH                  | P.V. Lokesh |
| 57 | 190060018 | SEETHAMMAGARI RAKESH REDDY           | A.B.        |
| 58 | 190060020 | SHAIK JANI BASHA                     | Jani Basha  |
| 59 | 190060021 | SUHAS AWASTHI                        | Suhas       |
| 60 | 190060022 | TAKKOLU SAINATH REDDY                | Sainath     |
| 61 | 190060023 | YERUKONDA SREE KEERTHI               | Keerthi     |
| 62 | 190060024 | VEGINATI LOHITH SAI                  | Lohith Sai  |
| 63 | 190060026 | VEMPALLI MUGANNAGARI SANDEEP REDDY   | Santhosh    |
| 64 | 190060028 | PAMI SETTY VENKATA KEDARNATH         | Kedarnath   |
| 65 | 190060029 | KABALA SHIKATO KEKE                  | S. Keke     |
| 66 | 190060030 | VENKATA NAGA SAI POTHINA             | S. Pothina  |
| 67 | 190060031 | TAMBURA SURYA TEJA                   | Surya Teja  |

HOD-EEE

Professor & Head  
 Department of EEE  
 KLEF Deemed to be University  
 Green Fields, Vaddeswaram,  
 GUNTUR Dt., A.P - 522 502