



## 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 86645 - 350 200; www.klef.ac.in; www.klof.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/2019-20

Date: 16-07-2019

### CIRCULAR

**Sub:** Conduction of a Workshop on “Solar Power Plants And Batteryenergy Storage Systems . In Utility Grids And Micro Grids” by Department of EEE, KLEF – Reg.

Ref: Letter dated 15.07.2019 from Dr.S.V.N.L. Lalitha, Professor, EEE, forwarded by HoD-EEE.

\*\*\*

This is to inform that Department of EEE, KLEF, in association with IEEE Guntur Subsection is conducting a Workshop on “SOLAR POWER PLANTS AND BATTERY ENERGY STORAGE SYSTEMS IN UTILITY GRIDS AND MICRO GRIDS” for the benefit of faculty members and students as per the details given below.

**Resource Person** : Dr.P.V .Rajgopal, PES/IAS/PELS Joint Chapter/IEEE-Hyderabad Section

**Date & Time** : 18-07-2019, 10.00 AM

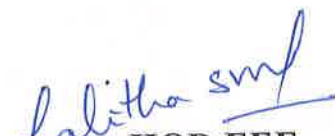
**Venue:** Peacock hall

Faculty Coordinators:

Dr.S.V.N.L. Lalitha, Professor, EEE Department, K L E F

Mr.M. Srikanth, Assoc. Professor, EEE Department, K L E F

In this regard, the Head of the Department, encourage the faculty, students and research scholars to participate and get maximum benefit out of this.

  
Dr. S.V.N.L. LALITHA  
HOD EEE  
Department of EEE  
KLEF Deemed to be University  
Green Fields, Vaddeswaram,  
Guntur Dt., A.P., - 522 302.



## 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

### **KLEF/ EEE/ IQAC - ACAD/ AQ.13/ Details of Professional Society Activities conducted (including Research clubs)-Report**

**Date: 18.7.2019**

**Venue: Peacock hall**

As per the committee meeting conclusions, the following activities were organized by the committee members.

Department of EEE Conducted IEEE Guntur sub-section in association with IEEE Hyderabad section has organised a PDP: Workshop on “SOLAR POWER PLANTS AND BATTERY ENERGY STORAGE SYSTEMS IN UTILITY GRIDS AND MICRO GRIDS” on 18-July-2019. The guest for the workshop was Dr.P.V .Rajgopal, PES/IAS/PELS Joint Chapter/IEEE-Hyderabad Section. Dr. S.V.N.L Lalitha, Professor, Department of EEE, Vice chair IEEE Guntur, Dr.K. Narasimha Raju, Professor and HOD, Department of EEE, Dr. K.L Narayana, Dean R&D, KL Deemed to be University and Prof R.R.L Kantham, Registrar, KL Deemed to be University.



Picture 1: Lighting of the Lamp for the Workshop



2. Group photo with Workshop Participants

The workshop on Solar Power Plants and Battery Energy Storage Systems (BESS) in Utility Grids and Microgrids was held on [Date] at [Location]. The aim of the workshop was to explore the integration of solar power plants and BESS into both utility-scale grids and smaller microgrid systems. The workshop brought together experts from the

renewable energy industry, policymakers, researchers, and stakeholders to discuss the latest advancements, challenges, and opportunities in this field.

## **Topics Covered:**

1. Overview of Solar Power Plants:
  - Different types of solar power plants (photovoltaic, concentrated solar power).
  - Technological advancements and trends in solar energy generation.
  - Cost analysis and economic viability of solar power projects.
2. Battery Energy Storage Systems (BESS):
  - Role of BESS in renewable energy integration.
  - Types of batteries used in BESS (e.g., lithium-ion, flow batteries).
  - Applications of BESS in utility grids and microgrids.
3. Integration of Solar Power and BESS:
  - Challenges and solutions in integrating solar power and BESS into utility grids.
  - Benefits of combining solar power with BESS for grid stability and reliability.
  - Case studies of successful solar-BESS integration projects.
4. Microgrids and Distributed Energy Resources (DERs):
  - Concept of microgrids and their role in decentralized energy generation.
  - Integration of solar power and BESS in microgrid systems.
  - Resilience and sustainability benefits of microgrids.
5. Regulatory and Policy Framework:
  - Policy incentives and regulations promoting the adoption of solar power and BESS.
  - Grid interconnection standards and protocols.
  - Future outlook and policy recommendations.

## **Key Insights and Recommendations:**

- Solar power combined with BESS offers a reliable and sustainable solution for meeting energy demands in both utility grids and microgrids.
- Policy support and regulatory frameworks need to be updated to facilitate the integration of solar power and BESS into existing energy infrastructure.

- Collaboration between stakeholders, including government agencies, utilities, and private sector entities, is essential for accelerating the deployment of solar-BESS systems.
- Continued research and development are necessary to improve the efficiency, scalability, and cost-effectiveness of solar power plants and BESS technologies.

*M. Srikanth*

**Professional Society Activity I/C.**

**Mr.M.Srikanth**

*S.V.N.L. Lalitha*

**HOD EEE**

**Dr. S.V.N.L. LALITHA**  
Professor & Head  
Department of EEE  
KLEF Deemed to be University  
Green Fields, Vaddeswaram,  
Guntur Dt., A.P., - 522 502.



2019-20 students participation

18/7/2019.

Workshop on "SOLAR POWER PLANTS AND  
BATTERY ENERGY STORAGE SYSTEMS IN UTILITY  
GRIDS AND MICRO GRIDS

S.NO	ID NO	Name of the student	Signature
1	150060111	Akurati Satya Pranav	AS. Pranav
2	150060112	SRIKAKOLAPU ABHISHEK KUMAR	Abhishek kumar
3	160060001	AKULA HRUDAY SAI	HRUDAY
4	160060002	AKURATHI VELANGINI RAJU	Velangini
5	160060003	ALAMURU KRISHNA PRIYANKA	Priyanka
6	160060004	ALLU SANTHOSH REDDY	Santhosh
7	160060005	AMBULA MADIYURI	Madiyuri
8	160060006	ANAM AKHILA	Akhila
9	160060007	ANNA AMARA SRINIVAS	Amara Srinivas
10	160060008	ANNEPU CHINNA RAO	Chinna Rao
11	160060009	ANUSHA MERUGU	Anusha
12	160060010	ARIKATLA LEELA LEELA KAVINDRA SARMA	Kavindra Sarma
13	160060011	ARYASOMAYAJULA SIRISHA	Sirisha
14	160060012	BHATTIPROLU SAI GARGEYA	Gargeya
15	160060013	ESWAR REDDY BHIMAVARAPU	Bhimavaru Reddy
16	160060014	BONAMSETTI MADHU	B. Madhu
17	160060015	BOYINA KANAKA RAJA ASISH	Asish
18	160060016	C AKSHAY KUMAR	C. Kumar
19	160060017	CHAPPIDI KIRAN MANIKANTA	Manikanta
20	160060018	CHARAN TEJA KAMINENI	Teja
21	160060019	CHEEDIPUDI SAMYUKTHA REDDY	Samyuktha
22	160060020	CHEKKA LAKSHMI DURGA	Durga
23	160060021	CHINTALAPUDI N V M SAI TEJA	Sai Teja
24	160060022	CHUKKAPALI T SAI REVANTH DADA	AB
25	160060025	DASIREDDY NAGA ABHILASH REDDY	Abhilash
26	160060026	DIIAKUPATI TARAKA RAMA	Taraka Rama
27	160060027	DUDDUKURI SWATHI	Swathi
28	160060028	DUNGA CHETAN SRINIVAS.RAO	Chetan Srinivas Rao
29	160060029	G SESHASAI SRIKAR	Seshasai
30	160060030	GADDAM NITHIN	Nithin
31	160060031	GANDIKOTA SAI NIKHEEL	Nikheel
32	160060032	GARLAPATI D V N S L KUMAR	Duns Kumar
33	160060033	GOLLAPALLI HARSHA NIKHANJ	Harsha
34	160060034	GORANTLA KOTESWARA RAO	AB
35	160060036	GRANDHI LAKSHMI NARAYANA	Lakshmi Narayana
36	160060037	GUDAVALLI HARISH	Harish
37	160060039	GUDURU GANESH	Ganesh
38	160060040	GUMMA MOWNIKA	Mownika
39	160060041	YAMUNA GUNTAMUKKALA	Yamuna
40	160060042	GURIJALA CHAITANYA	Chaitanya
41	160060043	H HARINATH REDDY	Harinath
42	160060044	INAKOLLU MANOJ KUMAR	Manoj Kumar
43	160060045	JANDHYALA SAI SRIVIDYA	Sai Srividya
44	160060046	JATHI NAVEEN YADAV	Naveen Yadav
45	160060047	JONNALA BHAVYA	J. BHAVYA
46	160060048	KALLA SASI KUMAR REDDY	Sasi Kumar Reddy



47	160060049	KANIGOLLA YASWANTH SAI	Yaswanth
48	160060050	KAPUGANTI VENKATA KIRAN KUMAR	K. Kiran
49	160060052	KARIMULLA BAIG	K. Baig
50	160060053	KARNATI MANOJ KUMAR	Kumar
51	160060054	KARRI VINAY SUDHEER	Vinay Sudheer K
52	160060055	KASUKURTHI RAVI KIRAN	K. Ravi
53	160060056	SWATHI AMMU	S. Ammu
54	160060057	KATURI KEERTHI	K. Keerthi
55	160060058	KOLLI SRISAI SUDHAKAR REDDY	Sudhakar Reddy
56	160060060	KORABOYINA ANIL KUMAR	Anil
57	160060061	KOTA LAKSHMI AMRUTHA VARSHINI	Amrutha
58	160060062	KOTAPATI SUBHASH REDDY	Subhash Reddy
59	160060063	KOTHA PRUDHVI RAJ	K. Prudhvi Raj
60	160060064	KUCHI SUMANTH	K. Sumanth
61	160060065	KUPPALA MURALI KRISHNA	Krishna
62	160060066	L VARUN CHOWDARY	Varun Chowdary
63	160060067	Komal Sai Manohar Lanka	K. Manohar
64	160060068	LOURDHU MARY THUMMA	L. Mary Thumma
65	160060069	M S V RAHUL KARTHIK	Rahul K
66	160060071	MANIPATRUNI JASVANTH	M. Jasvath
67	160060073	MANNAM NIKHITHA	M. Nikhitha
68	160060074	MARAM BALA BHAGYA SREE	Bhagya Sree
69	160060075	MATHI VENKATA RISHIKA	Venkata Rishika
70	160060077	MEDIPALLY SUDAKSHINA	M. Sudakshina
71	160060078	MOHAMMED ABDUL AHAD	Abdul Ahad
72	160060079	MORUBOINA PRAVALLIKA	Pravallika
73	160060080	MUKTINENI BHARGAV SAI	Bhargav
74	160060081	MULA JAGADEESWARA REDDY	Jagadeeswar Reddy
75	160060082	MULLAPUDI NITIN VISWANATH	Nitin Viswanath
76	160060083	MUSKULA CHAKRADHAR REDDY	Chakradhar Reddy
77	160060084	NAMBURI CHANDU SRINIVASA MANIKANTHA SURYA	Manikantha Surya
78	160060085	NUTHANAPATI LIKITHA	N. Likitha
79	160060086	ORUGANTI SAI THARUN	Tharun
80	160060087	P GANESH	P. Ganesh
81	160060088	PADIDADAKALA ANIL KUMAR	Anil Kumar
82	160060089	PAIDIPATI POORNA ANJANA KUMARI	P. Purna
83	160060090	PALLA NARASIMHA MURTHY	P. Murthy
84	160060091	PAMIDIMUKKULA DHARANI	P. Dharani
85	160060092	PANGI SRAVYA	Sravya
86	160060093	PATAN NOORSHIBA	P. Noorshiba
87	160060094	PATHAN SHABNAM	P. Shabnam
88	160060096	PEDDISSETY SARATH NAGA SAI RAM	Sarath Naga Sai Ram
89	160060097	PENMATSA SWATHI	Swathi
90	160060098	PINNINTI ARCHANA	AB
91	160060099	POCHANA LOKESWAR REDDY	Kokkeshwar Reddy
92	160060102	POLISSETTI NIKHIL	Nikhil
93	160060103	PUGGALA VISWA TEJA	Viswa Teja
94	160060104	PULAKHANDAM ADITHYA SESA SAI KRISHNA	Sai Krishna
95	160060106	PUNYAMURTHULA VENKATA SRI SIVANI	Sri Sivani
96	160060108	RAYAPEDDI NARASIMHA PHANIDHAR SAI ANIRUDH	Narasimha
97	160060109	REDDY MADHAVI	Madhavi
98	160060110	REDDY SAI CHANDAN	Chandan

99	160060111	RELANGI BHARGAVI VENKATA RAMYA	Ramy Venkata
100	160060112	RESU GOWTHAM SAI	R. Gowtham Sai

*Lalitha Sanyal*

HoD- EEE  
Dr. S.V.N.L. LALITHA  
(Dr. S.V.N.L. Lalitha)  
Professor & Head  
Department of EEE  
KLEF Deemed to be University  
Green Fields, Vaddeswaram,  
Guntur Dt., A.P., - 522 502