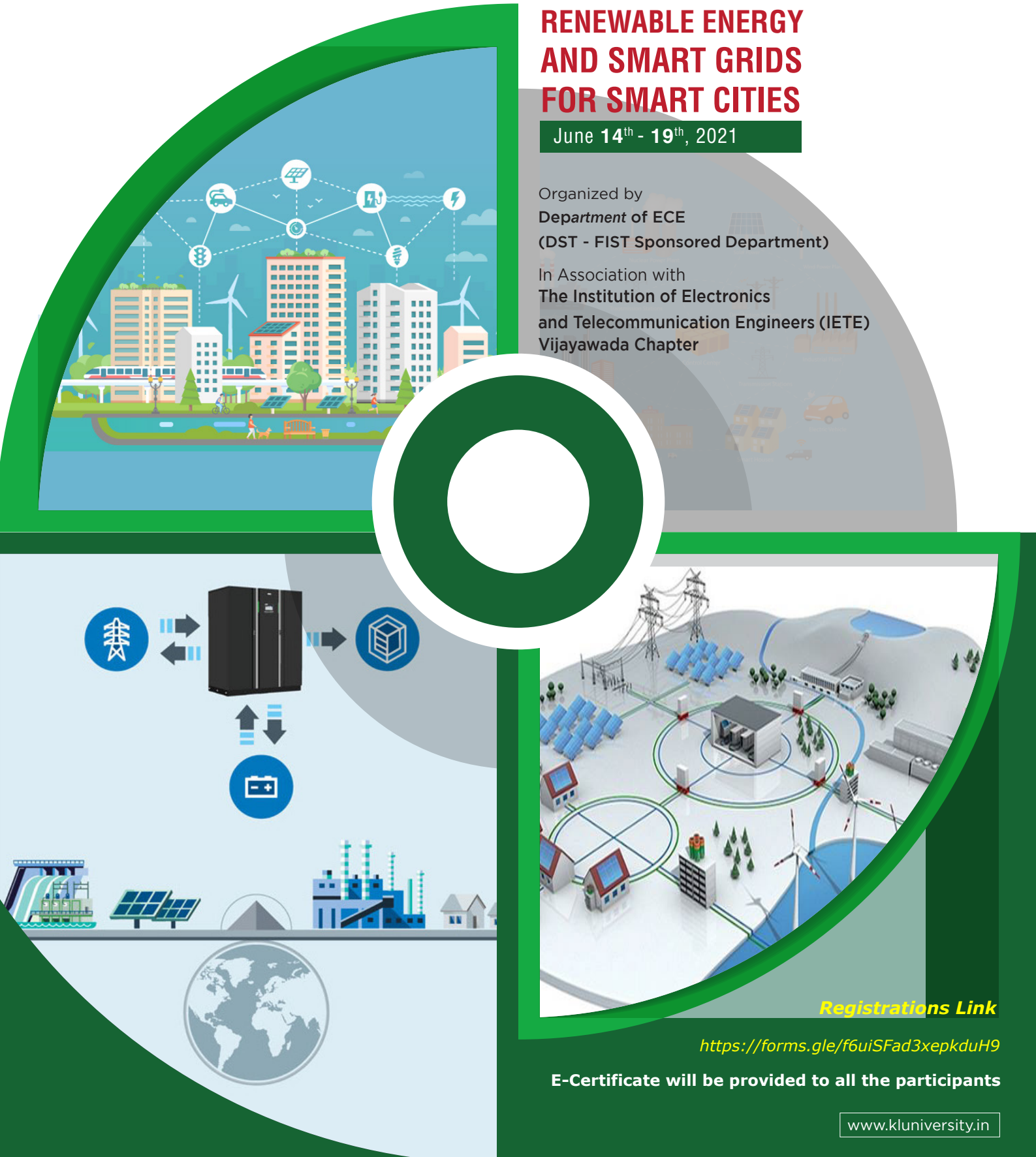


One Week Faculty Development Program **INTEGRATION OF RENEWABLE ENERGY AND SMART GRIDS FOR SMART CITIES**

June 14th - 19th, 2021

Organized by
Department of ECE
(DST - FIST Sponsored Department)

In Association with
**The Institution of Electronics
and Telecommunication Engineers (IETE)**
Vijayawada Chapter



Registrations Link

<https://forms.gle/f6uiSFad3xepkduH9>

E-Certificate will be provided to all the participants

www.kluniversity.in

OBJECTIVE OF THE PROGRAM

This FDP aims to provide a platform for the academicians, engineers, and researchers to learn present technologies in the areas of renewable energy, solar power systems, wind energy, the integration of distributed generation, smart grids and energy storage form the model of a smart grid to ensure high-efficiency and high-performance operation in smart cities. This FDP create the opportunity to put together the speakers from these areas to disseminate their knowledge and experience for the listeners to work in years to come, which will also be useful for the development of the country. The ideas on operation of centralized and decentralized control, forecasting, and evaluation of different market policies may be highlighted through case study.

ABOUT THE INSTITUTION

The Koneru Lakshmaiah Charities was established as a trust in the year 1980 with its official address at Museum road, Governerpet, Vijayawada and started KL College of Engineering in the Academic year 1980-81. KLEF was established in 1980-81, as KL College of Engineering, which was upgraded to KL College of Engineering Autonomous in 2006 by UGC, and was declared as a Deemed to be University in 2009 by UGC, MHRD Govt. of India. In 2012 as a Deemed to be University the institution was accredited by NAAC with A Grade and later in 2018, was re-accredited by NAAC with A++ grade. In 2019 UGC, MHRD declared this intuition as Category I. The university was also ranked 41 under NIRF 2020.

ABOUT THE DEPARTMENT

Department of ECE was established in 1983. The department has strong back-up of 234 faculty members, specialized in core areas of ECE. Among 87 faculty members are PhD holders and 121 faculty members are pursuing PhD. Department houses several rich industry experience faculties to cater the industry needs into academics. The Department has a total of 7 State of the Art laboratories, 2 Centers of Excellence and 8 Research Centers which are well equipped to the highest level of sophistication and cater to the needs of UG, PG and PhD students. These labs have specific emphasis on Research and Development activities. The Department has 12 Crores worth of Sponsored projects from DST, DLRL, ISRO, DEAL etc. 2000+ International Journal papers, 600+ International Conference papers and 150+ National Conference papers by the faculty. Faculties from Foreign universities are involved in regular teaching activity. Department's academic calendar is highlighted by regular seminars, group discussions, student paper contests, Industry Alliance and Student Personality Development programs for all round development of students in National & International events. Student associations namely 'Pulse' to conduct technical events and 'Hope' to conduct social service activities. Placement in leading core communication companies like Amphenol Antennas, BSNL, MTNL, Reliance Communications, Tata Telecom, Hutch, Bharti Telecom, Nokia, CISCO, IBM, Intel, Agilent, Alcatel, AT & T Ericsson, Honeywell, Bosch, National Instruments, Texas Instruments, HCL and others.

CONTENT OF FDP TO BE COVERED

- ✓ Importance and Recent Challenges in Renewable Energy Sources.
- ✓ Solar Photovoltaic cells and solar power system.
- ✓ Wind energy and other renewables.
- ✓ Grid Integration, Renewable energy sources, and storage
- ✓ Introduction to Smart Grid.
- ✓ Challenges in implementing Smart Grid Technologies in India.
- ✓ Smart Grid Technologies and its Applications.
- ✓ Role of IoT in smart grids & smart cities.
- ✓ Smart Grid and Eclectic Vehicle (EV) Technologies.
- ✓ Hands-on Sessions in relevant topics.

RESOURCE PERSONS

The sessions will be delivered by eminent professors from IIT, NIT, NISE, CSIR, Foreign Universities, Central Universities, and Industrialists.

REGISTRATION AND PARTICIPATION DETAILS

- ✓ This FDP is only for faculty members of the AICTE approved institutions, research scholars, PG Scholars, participants from Government and Industry.
- ✓ **Platform:** The FDP will be conducted in Online mode (webex).
- ✓ **Certificate:** On completion of the course, all participants will be receive a digital certificate.
- ✓ Participants interested to attend this program should register online in the below mentioned links:
<https://forms.gle/f6uiSFad3xepkduH9>
- ✓ Seats are limited (only 250) and the participants are selected by organizers on first come first serve basis.
- ✓ **Last date for registration:10.06.2021**

REGISTRATION FEE

	Indian	Foreign
Industry	Rs. 500/-	10 USD
Faculty Member / Scientist	Rs. 300/-	8 USD
Research Scholar and Student	Rs. 200/-	5 USD

WIRE INFORMATION

Account Name : Registrar, KLEF
Account Number : 62310916292
IFSC Code : SBIN0021361
Bank Name : SBI, K L University
Vaddeswaram

ORGANISING COMMITTEE

GENERAL CHAIRS

Dr. V. K. Mittal, Professor & Chair, ECE, KL
Dr. L Koteswara Rao, Principal, Engineering, KLH

PROGRAM CHAIR

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Dr. M. Goutham, Associate Professor & Hod, ECE, KLH
Dr. D. Venkata Ratnam, Professor & Hod(Research),ECE, KL

TECHNICAL CHAIR

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Dr. P. Satyanarayana, Professor & Iot Steam Head,ECE,KL

CONVENER

Dr. S. Arunmetha, Associate Professor, Dept. of ECE, KL

CO-CONVENER

Dr. Lakshman Pappula, Associate Professor, Dept.of ECE,KL
Dr. Sai Krishna Santosh G, Associate Professor, ECE, KL
Dr. C. Santhosh, Associate Professor, Dept. of ECE, KL

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Dr. Biswajit Jena, Associate Professor, Dept. of ECE, KL
Dr. Atul Kumar, Assistant Professor, Dept. of ECE, KL
Ms. Lakshmi Prasanna, Assistant Professor, Dept. of ECE,KL

GUEST & EMINENT SPEAKERS

Inaugural Function

Chief Guest



Dr. R.K. Kotnala, FNASc, FIGU
Chairman, (NASU)
National Accreditation Board of T&C Labs
Raja Ramanna Fellow
Department of Atomic Energy (DAE)

Valedictory Function

Chief Guest



Dr. N. Sundararajan
Professor (Retd.), EEE, NTU
Singapore

DAY-1 - 14th JUNE 2021

SESSION-I



Prof. Anil Kottantharayil
HAL Chair Professor, IIT Bombay
Topic: "A Tutorial on Photovoltaic Technology"

SESSION-II



Dr. Mustafa Alkhusheiny
CEO, Silicon Valley for Nanotechnology Co
Saudi Arabia
Topic: "Business and implementing best development strategies for operational excellence"

SESSION-III



Dr. Senthilarasu Sundaram
Senior Lecturer
Renewable Energy University of Exeter, UK
Topic: "A Third Generation Photovoltaic System"

DAY-2 - 15th JUNE 2021

SESSION-I



Prof. Chetan Singh Solanki
Professor, IIT Bombay
Founder, Energy Swaraj Foundation
Topic: "Energy Swaraj: Essence of Sustainability"

SESSION-II



Dr. S. N. Karthick
Assistant Professor, Department of Chemistry
Bharathiar University, Coimbatore
Topic: "Recent Trends in Solar Energy Harvesting"

SESSION-III



Er. Christie Fernandez
Founder, Soorya EV Pte Ltd., Singapore
Topic: "Powering Electric Vehicles with Solar Energy"

DAY-3 - 16th JUNE 2021

SESSION-I



Dr. Dipankar Debnath
Assistant Professor, IIT Kharagpur
Topic: "Challenges of grid integration of Single-phase solar inverter"

SESSION-II



Dr. M. Sathish
Senior Scientist
Electrochemical Power Sources Division
CSIR-CECRI, Karaikudi
Topic: "Recent Trends in Energy Storage System"

SESSION-III



Er. Vijay Kumar
Sr Design Engineer, Green Cubes
Technology Corporation, Bangalore
Topic: "Electric vehicle batteries"

Hands on Training & Demo Session

DAY-6
19th JUNE 2021

Dr. Yogesh Kumar Singh
Ex Senior Research Scientist
National Institute of Solar Energy Gurugram Haryana India
Topic:
"Solar Power System Design Using PVSYS and PVSQL"



Yoga and Stress Management Sessions



Sri. A. Venkateswlu
Principal and Chairman
VTJM&VTR Degree College
Topic: "Yoga and Stress Management"

DAY - 2 to 5
15th to 18th JUNE 2021

DAY-4 - 17th JUNE 2021

SESSION-I



Er. Ramchander Nirudi
Associate professor &
Consultant Solar & EV projects
Topic: "Best practices in operation & maintenance of solar systems with case study"

SESSION-II



Dr. V. Mayilvelnathan
Professor & Head,
Mohamed Sathak Engineering College
Topic: "Microgrid & Solar Thermal Power plants"

SESSION-III



Er. Sharda Jadon
Product Development Engineer
LM Wind Power (GE Renewable), Bangalore
Topic: "Design and Development of Wind Energy System"

DAY-5 - 18th JUNE 2021

SESSION-I



Dr. M. Venkateshkumar
Asst. Proff. (Sr.G), Amrita School of Eng.,
Amrita Vishwa Vidyapeetham
Chennai Campus
Topic: "AI based Smart Grid Integration of Renewable Energy System"

SESSION-II



Dr. Pierluigi Siano
Scientific Director
Smart Grids and Smart Cities Laboratory
University of Salerno, Italy
Topic: "Scalability and Privacy Issues of an Extreme-Scale Distributed Parallel Optimization"

SESSION-III



Dr. Imayavaramban Munuswamy
President and CTO - IC Tech Puducherry
Topic: "Trends in EV Technology"

**"Registrations are on a first-come,
First-served basis...
So register early"**

For Further Correspondence

Convenor
Renewable Energy FDP
Department of ECE

Mobile: +91 99948 31313
E- Mail: sarunmetha@kluniversity.in;
klefecefdp@gmail.com

KONERU LAKSHMAIAH EDUCATION FOUNDATION

K L Deemed to be University
Green Fields, Vaddeswaram
Guntur District, Andhra Pradesh, Pin: 522 502
Ph: 08645-350200 | www.kluniversity.in

Session-I: 10am to 11.30am; **Session-II:** 12pm to 1.30pm; **Session-III:** 3pm to 4.30pm