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## For Queries Contact

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AICTE Sponsored  
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# Smart Micro Grid and its Future Trends (Phase-I)

16<sup>th</sup> Nov to 21<sup>st</sup> Nov 2020



Organised by  
Department of  
**Electrical & Electronics Engineering**  
**Lendi Institute of Engineering & Technology**

*An Autonomous Institution*  
*Accredited by NBA & NAAC with 'A' Grade*  
Approved by AICTE and permanently affiliated to  
JNTUK, Kakinada, Vizianagaram, A.P. – 535005  
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## ABOUT THE INSTITUTION

Lendi Institute of Engineering & Technology, Vizianagaram popularly known as LIET, was established in 2008 by Sai Dhamam Educational Trust, Visakhapatnam, with primary objective of providing quality technical education to meet the scientific and technological needs of the society. LIET is recognized by the AICTE, New Delhi. At present LIET is an autonomous institute under Jawaharlal Nehru Technological University, Kakinada. It is accredited by the NAAC with 'A' grade and accredited by NBA. It is one of the premier Institute in the state of Andhra Pradesh. It has attracted academicians of proven competence onto its faculty, augmented the infrastructural facilities, modernized laboratories, placed its products in reputed organizations all over the world and gained recognition amongst industry and academic circle. At present, it is offering UG in EEE, ECE, CSE, ME, CSSE and CSIT of engineering, PG in four engineering specializations.

## ABOUT EEE DEPARTMENT

Department of Electrical and Electronics Engineering established in 2008 with an intake of 60. The department has grown significantly and currently offer Electrical and Electronics Engineering in UG programme with an intake of 120 and Power System and Control Automation in PG programme with an intake of 18. To meet the requirement of these courses the department has set up modern laboratories with all latest software's. The department is accredited by NBA. The department has team of experienced, highly qualified with good research faculty members. Also, the Department has good no. of patents and SCI journals. The Department is envisaged by participating actively with Govt. funded projects and IIT sponsored workshops etc. The department is well committed to explore students and provide a quality of students out to the country.

## OBJECTIVE OF THE STTP

Major part of the electricity is generated from fossil fuels in the present scenario. The depleting nature of fossil fuels has led to electricity generation from alternative resources which are distributed in nature. Smart Micro grids are emerging as an outgrowth of dispersed on-site and embedded generation via the application of emerging technologies in power electronics and control. Smart Micro grid economic and regulatory analysis is done by a number of government and nongovernment organizations. In general, it is focusing on electricity generation from these new and renewable energy resources. The six days course on "Smart Micro grid and its future trends" aims to create a platform for the young professionals to discuss various cutting edge technologies. This will enhance the researchers/ teachers/ industry persons to strengthen their academic and research activity.

**For Registration click on the below link**

<https://forms.gle/c3RG1TF8vUs7D2EM7>

**\*No Registration Fee**

**Last date for Registration: 12-11-2020**

*Confirmation mail and session links will be circulated to the participants on 14-11-2020.*

## ELIGIBILITY

Faculty members and research scholars belonging to AICTE approved technical institutions and also industry personnel.

## CERTIFICATE

E- Certificate will be issued to all the participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the online test.

## RESOURCE PERSONS

- **Dr. K. Shanti Swarup**, Prof., IIT Madras
- **Dr. Sukumar Mishra**, Prof., IIT Delhi
- **Dr. Anup Kumar Panda**, Prof., NIT Rourkela
- **Dr. Ch. Sai Babu**, Prof., JNTU Kakinada
- **Dr. Ranjan Kumar Behera**, Assoc. Prof., IIT Patna
- **Dr. Pravat Kumar Ray**, Assoc. Prof., NIT Rourkela
- **Dr. N. Jayaram**, Asst. Prof., NIT Andhra Pradesh
- **Mr. N. Damodara**, DEE, APSPDCL

## TOPICS

- Smart micro grid (SMG) concept
- Smart energy systems and advanced control of power converters for solar and wind
- Smart micro grid with integration of Renewable Energy.
- Power quality issues in SMG and Renewable Energy Integration
- On-grid multilevel inverter based Renewable Energy conversion systems for hybrid vehicle applications
- Challenges and opportunities in moving toward distributed energy resources (DERs) for SMG
- Power management system in hybrid micro grid

## OUTCOMES

- Impart knowledge on the smart micro grids
- Discuss the challenges in micro grid with integration of Renewable Energy.
- Apply the emerging technologies in the area of smart micro grids
- Design of the power converters for integration of Renewable Energy in the Smart Micro Grid.