



# The Institution of Engineers (India)

96 years of Relentless Journey towards Engineering Advancement for Nation Building

NATIONAL WORKSHOP on 'SMART GRID'

January 22-23, 2016

Organized by

The Institution of Engineers (India)

MADURAI REGIONAL CENTRE

under the aegis of ELECTRICAL ENGINEERING DIVISION, IEI In association with

K.L.N. COLLEGE OF ENGINEERING

Pottapalayam, Sivagangai(Dt)-630 612, Tamilnadu

Institution of Engineers Research and Innovation Group (IERIG) of Department of Electrical and Electronics Engineering

Venue: EEE Seminar Hall, K.L.N.College of Engineering



## IMPORTANT DATES:

Last Date for Registration : 15.01.2016  
Intimation of Selection : 17.01.2016  
Confirmation by participants : 19.01.2016

## ABOUT THE INSTITUTION OF ENGINEERS (INDIA):

The Institution of Engineers (India) or IEI is the largest multidisciplinary professional body that encompasses 15 engineering disciplines and gives engineers a global platform from which to share professional interest. IEI has membership strength of above 0.7 million. Established in 1920, with its HQs at 8 Gokhale Road, Kolkata 700020, IEI has served the engineering fraternity for over nine decades. In this period of time it has been inextricably linked with the history of modern-day engineering.

In 1935, IEI was incorporated by Royal Charter and remains the only professional body in India to be accorded this honour. Today, its quest for professional excellence has given it a place of pride in almost every prestigious and relevant organization across the globe. IEI functions among professional engineers, academicians and research workers. It provides a vast array of technical, professional and supporting services to the Government, Industries, Academia and the Engineering fraternity, operating from over 113 centres located across the country. Madurai Regional Centre is one among them. The Institution has established R&D centres at various locations in the country and also provides grant-in-aid to its members to conduct research and development on engineering subjects. Institution of Engineers Research and Innovation Group (IERIG) is functioning at KLN college of Engineering to promote the research in the area of control systems.

IEI conducts Section A & B Examinations in different Engineering disciplines, the successful completion of which is recognized as equivalent to Degree in appropriate field of Engineering of recognized Universities of India by the Ministry of Human Resources Development, Government of India. Every year as many as 90000 candidates appear for these exams. For details, please see: [www.ieindia.org](http://www.ieindia.org).

## ABOUT K. L. N. COLLEGE OF ENGINEERING

K.L.N.College of Engineering is the first Self Financing Co-Educational Engineering College established during the year 1994 in Sivagangai District near Madurai and Sponsored by the Committee of eminent industrialists and academicians under the leadership of Amaran Thiru K.L.N Krishnan Founder President: honoured by the President of India with UDYOG PATRA AWARD in 1987. Four UG programmes Mechanical, EEE, CSE, IT and one PG Programme MCA of this college are Accredited by NBA New Delhi for enhancement of Quality Education. The departments Mechanical, EEE, ECE, CSE & MBA are recognized as Research Centres, by Anna University, for doing Ph.D, and M.S (By Research). The Institution has good governance with members from Industries in Governing Council, Program Advisory Committees, Industry Institute Partnership Cell (IIPC), Entrepreneurship Development Cell (EDC). Quality Circles for Advanced R&D, Potential Employability, Quality Education and Successful Graduation are consistently working for the development of academic, training and Soft Skills activities. K.L.N.College of Engineering has promoted various Industry related activities like Expert talk, Industrial Visits, Training Programmes, Workshops through IIPC and EDC. Research Development Unit has also promoted Consultancy and research activities. The college bagged the SIIP 2015 award from SEED, Chennai and NI Academic award from National Instruments, Bangalore for the continuous contribution towards the betterment of industry institute interaction in the and research activities in southern part of Tamilnadu.

## ABOUT THE DEPARTMENT OF EEE:

Started offering B.E. in Electrical and Electronics Engineering in the year 1994 and M.E. in Power Systems Engineering in the year 2005. Accredited by National Board accreditation, New Delhi, Recognized Research Centre, Approved by Anna University, Chennai, offering guidance for M.S & Ph.D.(Full time/Part time). Both UG and PG programs are permanently affiliated to Anna University, Chennai with effect from December 2012. The department has well equipped laboratories with equipment costing of Rs.3.0 Crores. The department received grant in aid for five projects to enhance the research activities of UG and PG students from The Institution of Engineers (India)-IEI. An Institution of Engineers Academic Research and Innovation Group (IERIG) is funded and supported by The Institution of Engineers (India), to promote the research in the area of control systems.

The department focuses the consultancy work in the field of "Industrial Harmonic Audit", to analyze the behavior of load and harmonic profile of the non linear equipments. Till now the audit has been carried out in 50 Public and Private Industries like BSNL, HPCL, Aruna Alloy, Dharani Sugars, NSL Sugars, EID PARRY, TVS Srichakra Tyres and etc.,. The Research and Development section is doing research on Industrial Power Harmonics and mitigation and interact with industrial persons in measuring, recording, analyzing the power quality problems with the help of Power Quality analyzer, and designing of filters for reducing harmonics as per IEEE standard.

## ABOUT THE WORKSHOP:

The Electric power grid has been progressively developed for over a century, from the initial design of local networks in low-voltage levels to three-phase high voltage ac networks, and finally to modern bulk interconnected networks with various voltage levels and multiple complex electrical components. The development of human society and economic needs were the catalyst that drove the revolution of power grids stage-by-stage with the aid of innovative technologies. The existing power grid is under significant pressure from the diversified challenges and the needs of the environment, customers, and the market, as well as existing infrastructure issues. These challenges and needs are more important and urgent than ever before and will drive the present power grid to expand and enhance its functions towards smarter features with the leverage of rapidly developing technologies. Smart features of generation, transmission and distribution grids include digitalization, flexibility, intelligence, resilience, sustainability, and customization. When the grid is made as smart, it is necessary to test the quality of power supply by investigating the harmonics and other disturbances in the power supply. It is necessary to enrich the knowledge about the smart grid among the research and teaching faculty members of power systems.

## SUB THEMES OF THE WORKSHOP:

Smart grid generation, Requirements engineering for smart grid, Development of smart grid architectures, Control and automation techniques in smart grid, Advanced Information and Communication technologies, Role of power electronics in smart grid, Policy, regulatory framework and information security for the smart grid, Standardization in smart grids, Testing in the smart grid and Case studies of smart grid in world wide.

## NATIONAL ADVISORY COMMITTEE

Chairman: Dr.L.V.Muralikrishna Reddy,FIE,President,IEI  
Co-Chairman: Mr.S.B.Dubey, FIE, Chairman, ELDB, IEI  
Convenor: Dr.P.Rajamani.FIE.,Immediate Past Chairman, MLC

## MEMBERS

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Mr V L Malhotra, FIE, Member, ELDB  
Mr R Ponbadi, FIE, Member, ELDB  
Mr Sukhdev Rattan, FIE, Member, ELDB  
Mr A S Satish, FIE, Member, ELDB  
Mr L N Tiwari, FIE, Member, ELDB  
Mr Umashankar J, FIE, Member, ELDB  
Mr.SundaraSrinivasan,Past Chairman, MLC  
Mr.A.DuraiRaj.FIE.,Past Chairman, MLC  
Mr.S.Deenadayalan,FIE,Past Chairman, MLC  
Mr.N.Sivasubramanian,FIE., Former CGM,ISRO.  
Mr.W.S.Arul Doss Kandaiah, Former Chairman, HWB

## ORGANIZING COMMITTEE

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Dr.K.N.K.Ganesh, Secretary, KLNCE  
Chairman:Mr.R.Ponbadi,FIE,Chairman,Madurai Regional Centre,IEI  
Organizing Secretary:Mr.K.Vijayakumar FIE, Honorary Secretary, MRC, IEI  
Co-Chairman:Dr.A.V.Ramprasad, Principal, KLNCE  
Co-Organizing Secretary:Dr.S.Parthasarathy, Prof-EEE, KLNCE

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Er. V. Dharmarajan, MIE, Past Hon.Secretary, MLC  
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Er. K. Ifthikhan, MIE., Committee Member, MRC  
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Mr. N. Vimal Radha Vignesh, AP-EEE, KLNCE  
Ms. E. Jeyasri, AP-EEE, KLNCE

## TECHNICAL COMMITTEE

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## MEMBERS:

Dr.S.Venkatesan, Prof-EEE, KLNCE  
Dr.K.Gnanambal, Prof-EEE, KLNCE  
Dr.S.Parthasarathy, Prof-EEE, KLNCE

## FOR CORRESPONDENCE:

(National Workshop Co-Organizing Secretary)  
Dr. S.Parthasarathy, M.E.,Ph.D.,MIE.,MISTE  
Professor / Department of EEE,  
Cheif Co-Ordinator/Industry Institute Pratrnership Cell (IIPC)  
K.L.N. College of Engineering  
Pottapalayam-630 612,Sivagangai (District), Tamilnadu.  
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## RESOURCE PERSON:



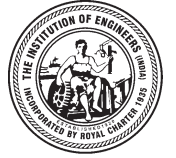
Er.N.Murugesan,  
Former Director General,  
Central Power Research Institute (CPRI).

## REGISTRATION FEE:

Students with IE(I) Membership : Rs.400/-  
Other Students : Rs.500/-  
Faculty/Industry Participants : Rs.750/-  
Members of IEI : Rs.650/-  
DD to be drawn in favour of "The Principal, K.L.N.College of Engineering" payable at Madurai on or before 15.01.2016.



**THE INSTITUTION OF ENGINEERS (INDIA)**  
**Madurai Regional Centre**



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**of**  
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**National Workshop**  
**on**

**'SMART GRID'**

January 22-23, 2016

**REGISTRATION FORM**

Name :  
Designation :  
Department :  
Institution / Organization :  
IEI Member : Yes / No  
If Yes IEI Membership Number :  
Address for Communication :

Mobile / Phone Number :  
E-Mail ID :  
DD Number and Date :  
Bank Name :  
Accommodation Required : Yes / No  
Signature of the Applicant :

This is certified that Dr/Mr/Ms \_\_\_\_\_ is sponsored to attend the programme.

Signature of the Head of the  
Department / Institution with seal

