

Six Days AICTE sponsored Online Short-Term Training Program (STTP)

"SMART GRID TECHNOLOGIES FOR ENERGY EFFICIENCY AND ACTIVE DEMAND SIDE MANAGEMENT"

Phase -II "The Role of Smart Grids on Loss Reduction and Rural Electrification"

4th to 9th January 2021

Organized by

Department of ELECTRICAL AND ELECTRONICS ENGINEERING



CHIEF PATRON

Dr. MOHAN MANGHNANI CHAIRMAN, NHEI, BANGALORE

PATRONS

Dr. MANJUNATHA PRINCIPAL, NHCE, BANGALORE

Dr. GOPALAKRISHNAN K PROF & DEAN — R&D, NHCE

Dr. M S GANESHA PRASAD PROF, DEAN & HEAD MECHANICAL ENGINEERING

CONVENER/ ORGANISING SECRETARY

Dr. MAHESH M PROF & HEAD ELECTRICAL AND ELECTRONICS ENGINEERING

ORGANIZING COORDINATOR

Dr. SINGARAVELAN A

ORGANIZING COMMITTEE

Mr. LITHESH J Mrs. ROOPA C

REGISTRATION

https://forms.gle/ISwNPHE6bxDwohDDA

WHATSAPP GROUP FOR UPDATES

https://chat.whatsapp.com/FMZ1fbUhoTMFvNiZBONDHV

www.newhorizonindia.edu

ABOUT THE COLLEGE:

New Horizon College of Engineering (NHCE) is an Autonomous College affiliated to Visvesvaraya Technological University (VTU), approved by All India Council for Technical Education (AICTE) & University Grants Commission (UGC). New Horizon College of Engineering has been accredited by NAAC with 'A' GRADE & National Board of Accreditation (NBA). It is an ISO 9001:2008 certified Institution

ABOUT THE DEPARTMENT:

Department of Electrical & Electronics Engineering is one of the prestigious branches of Engineering and one among the oldest departments of NHCE-Bangalore started in 2001. The Department is accredited by NAAC with 'A' Grade and accredited by NBA. The vision of EEE Department is to create contemporary Engineers, innovators and entrepreneurs to make a better nation and in turn, a better world. A critical investigation and innovation into the modern state-of-art and cutting-edge technology lead to the fact that an electrical graduate fit better in today's competitive world.

The strength of the department is highly qualified faculty members with expertise in various fields of electrical engineering, state of art laboratory facilities. The department is inclined towards bridging the gap between Industry and academia by collaborating with Multinational Companies in the field of Electrical Engineering.

Indo-French Center of Excellence in Electricity, Automation and Energy (IFCEEAE) is one such initiative evolved through "MoU" with French Ministry of National Education and Schneider Electric India Pvt. Ltd

The Department nurtures the young minds beyond the curriculum by facilitating technical clubs in promoting technical events, community development/society impact and universal value/ethics programs. Electrical & Electronics engineering students have a greater exposure and flexibility in campus placement both in core industries, IT sectors and Public Sector Units.

ELIGIBILITY:

This programme is open to the faculty members of Electrical and Electronics Engineering, Research Scholars, People from Industry and allied branches of Engineering , Basic Science Departments of AICTE approved Engineering Colleges.

REGISTRATION LINK:

https://forms.gle/iSwNPHE6bxDwohDDA

Note: Number of participants limited to 150 members. The E-certificate will be provided to active participants for all the sessions.

NEW HORIZON COLLEGE OF ENGINEERING

Contact Details:

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ABOUT THE SHORT-TERM TRAINING PROGRAM

Excessive usage of electricity in the residential sector is the main reason for frequent peak demand in India. Proper implementation of Demand-Side Management (DSM) along with the Energy-Efficient (EE) method is an efficient way to address these peak demand issues. Smart Grid Technologies can be an efficient tool to implement DSM and EE. There are plenty of opportunities available in the public and private sectors to those who know Smart Grid Technologies. In this context, it is important to motivate faculty and industry personnel to get trained on Smart Grid Technologies. This Short-Term Training Program would act as a platform to train the trainers on Smart Grid Technologies to help the students to have successful careers in the Smart Grid industry.

OBJECTIVE:

- To train the trainer by providing theoretical and practical skills on Energy Efficiency and Active Demand Side Management with the latest smart grid technologies.
- To create awareness among the faculty about the opportunities available for students in the Smart Grid Industry.
- To train the faculty to upgrade their skills from the conventional power system technology to multidisciplinary smart grid technology.
- To introduce "OpenDSS and SGsim" open-source simulation tools used for smart grid technology.

EXPECTED OUTCOME AND BENEFITS TO FACULTY:

On completing the course, the faculty will be able

- To define the different components of the smart grid
- To choose appropriate smart grid technology to implement energy
- To demonstrate the active demand-side management by utilizing the smart grid technology
- To guide and teach students by providing the inputs of several smart grid
- To apply the smart grid technologies on research and development frontiers

FN (10:00 AM to 12:00 PM)



04 January 2021 ROLE OF STAND ALONE WIND DRIVEN DFIGS FOR RURAL

ELECTRIFICATION Dr.Vijayakumar K, Assistant Prof., IIITDM Kancheepuram



05 January 2021 **ELECTRIC VEHICLE GRID INTEGRATION: ENABLING SUPPORT THROUGH ELECTRICITY STORAGE**

Dr. Prateek Jain Assistant Professor, Manipal Institute of Technology, Manipal



06 January 2021

DG INTEGRATION ON LOSS REDUCTION AND PEAKING LOADING IN RURAL AREAS

Dr.C.Lakshminarayana. Professor, BMS College of Engineering, Bangalore



07 January 2021

POWER CONVERTERS FOR SMART GRID ARCHITECTURE AND ITS USE CASES

Dr. Ashok Kumar L, Professor & Associate - HoD, PSG College of Technology, Coimbatore



08 January 2021

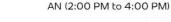
DIGITAL SOCIETY: TRANSFORMING SOCIETY FOR THE FUTURE

Dr. J. Jayakumar, Professor, Karunya Institute of Technology and Sciences,



09 January 2021 CONTROL OF GRID-CONNECTED **POWER CONVERTERS**

Dr. Arun Kumar G, Associate Professor, Vellore Institute of Technology, Vellore



04 January 2021 A NOVEL MULTILEVEL INVERTERS WITH REDUCED

CIRCUIT COMPONENTS FOR SOLAR PV APPLICATIONS

Dr Dhanamjayulu C, Assistant Professor (Senior), School of Electrical Engineering, VIT University, Vellore



05 January 2021

CHALLENGES IN RENEWABLE SOURCE INTEGRATION

Dr.Palanisamy K, Associate Professor, Vellore Institute of Technology, Vellore



06 January 2021

DEVELOPMENT OF SMART GRID INFRASTRUCTURE

Dr. Balamurugan S, Professor, Amrita Vishwavidyapeetham University Amrita Nagar, Colmbatore



07 January 2021

AI BASED DEMAND SIDE INTEGRATION

Dr. A.Immanuel Selvakumar, Professor & HoD, Karunya Institute of Technology and Sciences, Coimbatore



08 January 2021

CONTROL AND MANAGEMENT OF ENERGY STORAGE SYSTEM FOR ENERGY EFFICIENCY

Dr. S. Berclin Jeyaprabha, Associate Professor, CHRIST University, Bangalore



09 January 2021 PROTECTION STRATEGIES IN SMART GRID SCENARIO

Dr. Hitesh D. Mathur Associate Professor and Head, Birla Institute of Technology & Science (BITS), Pilani