



Two-day Seminar
On
RECENT TRENDS IN ELECTRICAL ENGINEERING
WITH EMPHASIS ON
RENEWABLE ENERGY
November 16 - 17, 2017



DEPARTMENT OF ELECTRICAL ENGINEERING
G. B. PANT INSTITUTE OF ENGINEERING AND TECHNOLOGY, PAURI
UTTARAKHAND-246194



TEQIP-III Sponsored
A two-day Seminar on
Recent Trends In Electrical Engineering
With Emphasis On
Renewable Energy



16-17 NOVEMBER

Department of Electrical Engineering
G.B.Pant Institute of Engineering & Technology

gbpec.ac.in

About Pauri- Garhwal

Pauri - Garhwal is a district in Uttarakhand state of India. Its headquarter is at Pauri. The region lies majorly in Northern Himalayas by its innate charm and magnificence. Apart from the wonderful scenic beauty it is also studded with numerous temples which serve the purposes of tourism and religious pilgrimage. The main occupation of the population is agriculture. Some large and small industrial units have been established. Besides this, joining army/paramilitary forces and teaching are the major sources of employment for the youth. The district encompasses an area of 5230 square km and is situated at an altitude of 1650 meter, between 29°45' to 30°15' Latitude and 78°24' to 79° 23' E Longitude. The climate of Pauri Garhwal is cold in winter and pleasant in summer. In rainy season the climate is cool & full of greenery. The winter season decorates the district with beautiful snow-covered valleys and mountains. Tourism in Pauri Garhwal district comprises of a number of exploring options. The district is regarded as nature's paradise.

About G.B. Pant Institute of Engineering & Technology

G.B.Pant Institute of Engineering & Technology is an autonomous institute for higher technical education run by the state government of Uttarakhand, India. It is established in 1989 by the government of Uttar Pradesh in honor of Indian freedom fighter Bharat Ratna Govind Ballabh Pant. The institution aims at harboring and nurturing the technical education in Uttarakhand. The vision of the institution is to serve as a pivot of excellence in providing technical education and develop leadership qualities among students. The college aims at empowering students so that they may be able to shoulder the responsibility and carry forward the work of previous target.

generation of technical intelligence of our beloved nation. The college provides a panoramic view of the beautiful surroundings of Himalayas. The campus is a sprawling over 169 acres of land. The institute is situated near village Ghurdauri, about 13 Km from Pauri city on Pauri-Devprayag road in district of Pauri Garhwal. The climate at Pauri and college campus is pleasant for most of the year, except from mid-December to February when it becomes very cold and chilly. The nearest Airport is Jolly Grant, Dehradun. Strategic location of the campus amidst the salubrious environment and the symbiotic connections with the nature together makes it an ideal place for seriously inclined learner.



About Electrical Engineering Department

The department, since its inception in 1991, has kept itself well abreast with the ever-changing demands of the industry and the technological developments taking place across the globe. The Department provides excellent experimental facilities to the students with highly qualified faculty, guest professors, video courses and a dynamic curriculum with emphasis on emerging areas through a variety of elective courses, seminars and two semester's projects. The department has identified key thrust areas for research & development which includes MACHINES AND DRIVES, POWER SYSTEMS, POWER ELECTRONICS, INSTRUMENTATION AND CONTROL. The mission of the department is to produce quality manpower equipped with human and social values for the upliftment of our nation.

Seminar Objectives

Rapid deployment of renewable energy and energy efficiency is resulting in significant energy security, climate change mitigation, and economic benefits. National renewable energy markets are projected to continue to grow strongly in the coming decade and beyond. Renewable energy systems are rapidly becoming more efficient and cheaper. Their share of total energy consumption is increasing. India has a vast supply of renewable energy resources, and it has one of the largest programs in the world for deploying renewable energy products and systems. More than 1/3 of energy consumed comes from renewable resources, predominantly from large hydropower. Since India is considered as an "emerging economy," increasing GDP is driving the demand for additional electrical energy, as well as transportation fuels. Indeed, it is the only country in the world to have an exclusive ministry for renewable energy development, the Ministry of Non-Conventional Energy Sources (MNES). This bodes well for the acceleration of renewable development throughout the nation -- both to meet the underserved needs of millions of rural residents and the growing demand of an energy hungry economy.

The Seminar will enhance the knowledge of the participants as to how the smart grids builds on many technologies already used by electric utilities but adds communication and control capabilities that will optimize the operation of the entire electrical grid. Renewable Energy is also positioned to take advantage of new technologies, such as plug in hybrid electric vehicles, various forms of distributed generation, solar energy, smart metering, lighting management systems, distribution automation and many more. The objective of the seminar training program on recent trends and renewable technologies is to integrate and optimize distributed energy resources to achieve a more efficient and reliable grid, enable active participation of consumers with more environmental constraints. Integration of distributed energy resources and storage devices particularly Plug-in-hybrid electric vehicles with the utility grid poses significant challenges.

Seminar Contents

This seminar is slated to take up a slew of concurrent issues, including those indicated below:

1. Grid Integration of Renewable Energy Sources
2. Developments in Solar and Hydel Power Plant Planning, Control and Operation
3. Problems and Solutions of Renewable Energy Sources
4. Smart Grid Networks, Micro grid and Service Management
5. Advanced Metering
6. Communication Networks and Physical Cyber Security Systems
7. Load Frequency Control in Power Systems
8. Bidding Strategy Formulation in Power Systems
9. Planning and Marketing Management
10. Wide Area Monitoring Protection and Control
11. Power Trading and Management
12. Power Electronics applications in Grid System
13. Power Quality issues to Grid System
14. Architectures, Models, Grid Codes and Standards of Smart Grid
15. Restructuring of Distribution Systems
16. FACTS Technologies Transmission System
17. Power Plant Optimization
18. Intelligent Voltage Regulation Systems in Power Plant

Target Audience

The program is targeted towards:

- Academicians
- Government Functionaries/ Administrators
- Consultants
- Researchers
- Students

Dates to Remember

Dates of workshop: 16 and 17 November 2017

Lat date of registration: 15 November

Registration Fee

Research Scholars/ Students: FREE

Note: - Accommodation will be provided on the basis of first come-first serve

Sponsorship: TEQIP

The Seminar is sponsored by TEQIP-III

Registration Form

Department of Electrical Engineering
G.B. Pant Institute Of Engineering & Technology
Ghurdauri
Pauri – Garhwal

APPLICATION FORMAT

Seminar On
Recent trends in Electrical Engineering with Emphasis on
Renewable Energy
(November 16, 17 – 2017)

Name (in block letters): -

Designation: -

Address of Applicant: -
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E-mail:

Contact No.:- Academic Qualification: -

Specialization: Experience in Years:

Signature of candidate

Date:

Signature of Sponsoring Authority
with seal

Organising Committee

Patron	: Dr. Satya Prakash Pandey, (Director)
Chairperson	: Dr. V. M. Mishra,
Secretary	: Dr. Manoj Panda
Coordinator	: Dr. Bhola Jha
Members	: Dr. Yatindra kumar Mr. Sachin Kumar Mr. Atul Katiyar Mr. Shishir Sarkar Mrs. O.L. Devi Mr. Sachin Negi

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