

**2<sup>nd</sup> National Workshop on  
RECENT DEVELOPMENTS IN SMART GRID  
TECHNOLOGIES (NWSGT-2020)**  
"Monitoring, Protection and Control of  
microgrids"  
23<sup>rd</sup> -24<sup>th</sup> January 2020



**Organised by**



**School of Electrical Sciences  
Indian Institute of Technology Bhubaneswar  
Jatni, Khordha, Odisha-752050, India**

**About the Workshop**

Developments in Smart-Grid Technologies have gained momentum in recent years. It brings various issues starting from wide-area monitoring, control, protection, communication, security for effective and reliable operation of the electrical power networks. The workshop aims to include sessions with high grade lecture Talks and discussions by experts from Academia and Industries, followed by Laboratory practices on Real Time Digital Simulator (RTDS) and Renewable Emulator systems. The major topics to be covered in this workshop are:

- Phasor Measurement Unit (PMU) and Wide-Area Monitoring in microgrid.
- Advanced protection and Controls for hybrid AC-DC and DC microgrids.
- Coordinated protection and control in smart microgrids.
- Wireless Sensor Network and IoT in Microgrid Monitoring
- Artificial Intelligence and Data-mining in smart microgrid

**Who can attend?**

This national workshop aims at academicians, researchers and engineers from Industries and R&D organizations.

**Venue**

School of Electrical Sciences, Indian Institute of Technology Bhubaneswar, Jatni, Khordha, Odisha-752050

**Coordinators**

**Dr. S. R. Samantaray**, Associate Professor, SES  
**Dr. P. Chandrasekhar**, Assistant Professor, SES

**Travel & Lodging Arrangements**

Travel and lodging expenses have to be borne by the participants or their sponsoring organizations. However, a limited number of accommodations can be

made available at IIT Bhubaneswar Campus and in close by hotels on request. The registration fee includes workshop kit, working lunch, tea and snacks.

**About IIT Bhubaneswar**

IIT Bhubaneswar is one of the eight new Indian Institutes of Technology established by the Ministry of Human Resource Development, Government of India under The Institutes of Technology (Amendment) Act, 2011. Indian Institute of Technology Bhubaneswar (IIT BBS) was established on 22nd July, 2008. The Institute strives to offer the best engineering education with unmatched novelties in curriculum. Within a short span of incipience, IIT BBS has made rapid strides towards becoming one of the elite technology institute of India spurred by sustained creation of knowledge and innovation, through high quality R&D activities and commitment to holistic education. The Institute aims to develop and pursue dynamic and flexible curricula designed to facilitate creativity and cognitive thinking among students through productive partnership with industries. Students get exposed to a wide variety of activities through societies and clubs, involving liberal arts, design, dramatics, robotics, music, dance and sports, instilling them with social awareness, a spirit of innovation, entrepreneurship and a thirst of discovery.

All academic activities of the Institute are being carried out from the picturesque permanent campus at Argul, spreading over 936 acres of land with unique serene and pollution-free academic environment, in the state of Odisha, India. It is located on the foothills of the magnificent Barunei, having link with Indian freedom movements. At present, the Institute has seven schools and within a short period of time, IIT BBS has been able to build up world class infrastructure for carrying out advanced research and is equipped with state-of-the-art scientific and engineering laboratories. The Institute has a pleasant and friendly environment which facilitates a multidimensional growth of the individual in the campus.

## About Bhubaneswar

Bhubaneswar, the capital of Odisha, is also popularly known as the "Temple City of India", named after Tribhuvaneshwar, "Lord of Three Worlds" or 'Lord Lingaraj'. It is an important Hindu pilgrimage centre. The History of the city stretches back over 2000 years. The area first appears as ancient capital of Kalinga. The smart city Bhubaneswar with its modern buildings and extensive infrastructure perfectly complements its historic surroundings. With facilities to cater to every type of visitor, Bhubaneswar makes an ideal tourist destination. It is the largest city in Odisha and is a centre of economic and religious importance in Eastern India. The city is also known for its rich and varied heritage arts, crafts and dance.



Khandagiri-Udayagiri caves, Nandankanan Zoological park, Odisha state Museum, Dhauli Shanti Stupa, Regional Museum of Natural History, Sun Temple-Konark and Jagannath Temple-Puri along with the Chandaka Wildlife Sanctuary are major attractions in and around Bhubaneswar. Chilka lake, an important habitat and breeding ground for both resident and migratory and aquatic birds, most notably flamingos, is 100kms away from Bhubaneswar.



## Registration and Application Form

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Organization: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

Highest Educational Qualification: \_\_\_\_\_

Brief Present Professional Activity: \_\_\_\_\_

*Please select the appropriate box below*

*Fee (Excluding lodging, travel and dinner):-*

- Delegates from Industry: Rs. 4,000/-
- Academicians: Rs. 3,000/-
- Students: Rs. 2,000/-

*Course fee payment details:*

DD No./Transaction ID: \_\_\_\_\_ Amount: ₹ \_\_\_\_\_

Dated: \_\_\_\_\_ Signature of applicant

**For candidates from Government/Private Agencies:**

Dr/Mr/Ms.....is sponsored to attend the course.

(Signature of Sponsoring Authority with date and seal)

**For Academicians/M.Tech/Ph.D student**

The application of Dr/Mr/Ms..... is herewith forwarded.

Signature of Head of the Institute/Department with date and seal.

The application form for the national workshop has to be sent to the contact address and should be accompanied by registration fee in the form of crossed demand draft from any nationalized bank of India drawn in favour of "CEP, IIT Bhubaneswar" payable at

Bhubaneswar or through online transfer to CEP, IIT Bhubaneswar, Syndicate Bank, IIT Bhubaneswar, A/C-24282010001960.

## Important Date

Registration closes: 15<sup>th</sup> January, 2020

## Contact

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**School of Electrical Sciences**

**Indian Institute of Technology Bhubaneswar**

**Jatni, Khordha, Odisha-752050, India**

## How to reach IIT Bhubaneswar

The city Bhubaneswar is well connected by rail, air and road to the rest of the country. IIT Bhubaneswar is about 8 km from Khordha Road Junction railway station, 30 km from the Bhubaneswar railway station, and 35 km from Biju Patnaik International Airport, Bhubaneswar.

