

3rd National Workshop on RECENT DEVELOPMENTS IN SMART- GRID TECHNOLOGIES (NWSGT-2023) "Microgrids and Electric Vehicles" 27th and 28th January 2023



Organised by



School of Electrical Sciences
Indian Institute of Technology Bhubaneswar
Bhubaneswar – 752050, Odisha, India

About the Workshop

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

- Control and Integration of Microgrids
- Design and operational issues of Power Electronic Converters for Electric Vehicles
- Various issues Phasor Measurement Unit and Wide-Area Monitoring in microgrid.
- Wireless Sensor Network and IoT in Microgrid Monitoring
- Advanced protection systems for hybrid AC-DC and DC microgrids.
- Coordinated protection and control in smart microgrids
- Artificial Intelligence 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,
Khurda, Bhubaneswar-752050

Coordinators

Dr. S R Samantaray, Professor, SES
Dr. P. Chandrasekhar, Assistant. Prof. 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 (IITBBS) 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, IITBBS 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 Orissa, 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 is an important habitat and breeding ground for both resident and migratory and aquatic birds, most notably flamingos, is 100kms away from Bhubaneswar.



How to reach IIT BBS

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

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. 5,000/-

Academicians: Rs. 4,000/-

Students: Rs. 2,500/-

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 here with forwarded.

(Signature of Head of the Institute/Dept. 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: 20th January 2023

Contact

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