

## REGISTRATION FORM

### NATIONAL SEMINAR ON SMART GRID & GREEN ENERGY TECHNOLOGY

19th & 20th February 2020  
(Under TEQIP Phase III)

1. Name: \_\_\_\_\_
2. Designation: \_\_\_\_\_
3. Specialization: \_\_\_\_\_
4. Department: \_\_\_\_\_
5. Organization: \_\_\_\_\_
6. Mailing Address: \_\_\_\_\_  
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\_\_\_\_\_
- Phone \_\_\_\_\_
- Fax \_\_\_\_\_
- E-mail \_\_\_\_\_
7. Demand Draft Details
- DD No \_\_\_\_\_ Dated \_\_\_\_\_
- For Rupees \_\_\_\_\_ On Bank \_\_\_\_\_
- Date \_\_\_\_\_
- Signature \_\_\_\_\_

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#### Resource Persons :

##### Chief Guest :

**Prof(Dr.) Ganapati Panda**, Ex-Deputy Director,IIT, BBSR

##### Invited Speakers :

**Prof(Dr.)R. K. Jena**, Prof. Electrical Engg.,  
CAPGS, BPUT, ODISHA

**Prof (Dr.) Subhramsu.S. Samantray**, Asso. Professor,  
IIT, Bhubaneswar

**Prof (Dr.) Lokanath Tripathy**,Asso, Professor CET,  
Bhubaneswar

**Prof (Dr.) P.K. Ray**, Asso. Professor, NIT, Rourkela  
**Er. Sabyasachi Pradhan**,Manager, CPP, NALCO.

##### Call for Papers

Original contribution of ongoing research and unpublished research work / survey are expected from authors. Further, authors are requested to submit soft copy of full length research paper through email for presentation.

##### Venue of the Seminar

Conference Hall, Synergy Institute of Engineering & Technology, Dhenkanal.

##### Registration for Seminar

**Participants other than non-affiliated college and non-TEQIP Institute** Rs.1000/-  
**Industry Personnel** Rs.1000/-  
**Students** Rs.300/-

Registration fee is to be paid in the form of DD in favour of 'Principal, Synergy Institute of Engineering & Technology' payable at Dhenkanal. The registration fee includes Seminar participation certificate, kit, lunch & refreshment.

##### CERTIFICATE OF PARTICIPATION

Certificate will be provided to all the participants in the Seminar.

##### Important Dates

Last date of submission of paper : **February 15, 2020**  
Notification of acceptance : **February 17, 2020**  
Last date for registration : **February 19, 2020**

##### Correspondence

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Mob - 09437157481

### NATIONAL SEMINAR ON SMART GRID & GREEN ENERGY TECHNOLOGY

(NSSGGET 2020)

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Since 1999



##### SPONSORED BY

Biju Patnaik University of Technology (BPUT)  
(Under TEQIP Phase III)

##### ORGANISED BY

Department of Electrical Engineering  
Synergy Institute of Engineering & Technology  
NH 55, Banamali Prasad,  
Dhenkanal 759 001, ORISSA, INDIA.  
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Website: www.synergyinstitute.net

## Synergy group of institutions

Synergy Institute of Engineering & Technology- a long cherished dream of Shivani Educational & Charitable Trust took shape in the year 1999 with an objective of pursuing excellence in the field of Technical Education. Presently, the organization runs the Under Graduate B.Tech courses for five branches of Engineering namely, EE, ME, ETC, CSE and CE with total intake of 255. The institute is situated at the Dhenkanal town beside NH-55, Cuttack Sambalpur Road at a distance 70 kms from capital city, Bhubaneswar. It is well communicated by both bus and train and surrounded by beautiful, pleasant and natural greenery hills. The institute has Wi-Fi enable campus. The College is affiliated to Biju Patnaik University of Technology, Odisha and accredited by NAAC. The college has earned name & fame for its Academic excellence and infrastructure. The organization is surrounded by a large number of nearby reputed Government, Public and Private Industrial sectors such as NTPC, MCL, NALCO, OPTCL, JSPL, TATA Steel, BRG Steel, Nav Bharat, Shakti Sugars and many others which contribute towards the excellence of the organization through regular interaction with the students.

## Department of Electrical Engineering

The Department of Electrical Engineering, came into existence in the year 2002 with an intake capacity of 60. The Department is adorned with rich heritage of academic excellence, state-of-art laboratory equipments, updated workshop, innovative teaching and learning concepts and excellent Research activities. The students of the Departments undertake the Live Hardware projects and Software based projects for their future progress. The Department has excellent & well experienced faculties with good industrial backgrounds. The Department is recognized for its high class teaching standard and has produced high quality students who have excelled in both academics and industries and Government organizations in India and abroad.

## Objective :

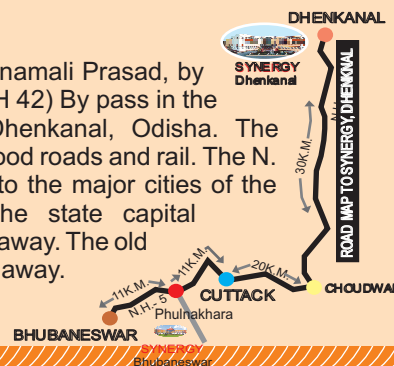
Electric grid is a network of synchronized power producers and consumers connected by transmission and distribution lines and operated by one or more control centers. The current grid can't allow for many distributed feed-in-points for which the transmission level infrastructures can't accommodate it, where as a smart grid can. A smart grid is an electric network based on digital technology to support the modernization of electricity to supply electricity as in conventional grid. The Smart grid permits greater penetration of highly viable renewable energy like solar, wind etc even without the additional energy storage. The smart grid possesses more reliability, flexibility, sustainability, better market demand and better power quality compared to the present conventional grid.

## TOPICS FOR THE SEMINAR INCLUDES, BUT NOT LIMITED TO :

- ☞ Conventional & Smart Grid
- ☞ Smart Grid Concepts
- ☞ Smart Grid Architecture & Functions
- ☞ Opportunities and Challenges
- ☞ Smart sensors
- ☞ Microgrid and Distribution generations
- ☞ Renewable Energy Systems
- ☞ Power quality & EMC in smart grid
- ☞ Power quality Audit
- ☞ Optimal System Control

## How to Reach

SYNERGY is situated at Banamali Prasad, by the side of NH 55 (Earlier NH 42) By pass in the District Headquarters of Dhenkanal, Odisha. The place is well connected by good roads and rail. The N. H. 55 connects Dhenkanal to the major cities of the state and the country. The state capital Bhubaneswar is just 70 kms away. The old capital Cuttack is just 50 kms away.



## Chief Patron

Prof. Dr. Chita Ranjan Tripathy,  
Vice Chancellor (VC), BPUT

## Patron

Shri Binod Dash, Chairman, Synergy, Dhenkanal

## President

Dr. Itishree Mohanty, Principal, Synergy, Dhenkanal

## Convener

Dr. L. Dhal Samant, Professor, Dept. Of Electrical Engg.

## Coordinator

Prof. P.K.Nayak, Dept. Electrical Engg.

## Advisory Committee

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Prof. Dr. P.K.Nayak,

Prof. P.K.Mishra, Professor in English,

Prof. S.S.Pati, HOD, Electrical Engineering

Prof. U.P.Panigrahy, HOD, Mechanical Engineering

Prof. S.Abinash, HOD, Computer Sc. & Engineering

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Dr. J.K.Mohapatra, HOD, Mathematics

Dr. M.P.Dash, Dept. Of Physics

Prof. R. Panda, Mechanical Engineering

Prof. Kalpna Sahu, Dept. Of Management

## Organizing Committee

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Mrs. E. Das,

Mr. S.Mohapatra

Mr. A.K.Sahoo

Mr. Rasmi R. Panda

Ms. Sunandita Sahoo

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