

ABOUT THE CITY BERHAMPUR

Berhampur, popularly known as silk city, is famous for its traditional handicrafts and silk garments. The major attraction for tourists is Gopalpur on Sea which is just a few Kms away from Berhampur. It is famous for one of the most pristine beaches of Orissa, where swaying (casuarinas, coconut) trees and sand dunes which separates the beach from blue waters at as the perfect setting for peace and tranquility. Berhampur is also famous for its temples and creeping attractions like hot water spring with medicinal benefits (Taptapani).

ELIGIBILITY OF THE APPLICANT

The work shop is open to Faculty members, Research scholars and persons working in R&D organizations and Industries.

HOW TO APPLY

Xerox / typed application form duly filled and forwarded by the Head of the Institute should reach on or before **10th September 2009**. A copy of the same can be sent to gprasadgoud@gmail.com. Application Form can also be downloaded from the website **www.nist.edu**. **No registration fee** is required. The short listed applicants will be intimated through e-mail before **1st October, 2009**. So all are requested to provide the valid e-mail ID's in the registration form. Please call at 098617 62509 for more information.

ACCOMMODATION & TRANSPORT

The participants will be provided with free boarding and lodging and will get TA (2nd class sleeper to and fro on production of ticket). Certificate will be provided after attending the course for the entire duration.

ORGANIZING COMMITTEE

CHAIRPERSON

Prof. Sangram Mudali, Director, NIST

CO- CHAIRPERSON

Dr. A.K. Panda, Dean, NIST

ADVISORY COMMITTEE

Dr. G.Tulasi Ram Das
Dr. P.V.N.Prasad
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Dr. P.C. Biswal
Dr. S.K. Tripathy
Dr. Motahar Reza
Dr. Sudhir Panigrahy
Mr. M.Suresh

ORGANIZING COMMITTEE MEMBERS

Mr. Arabinda Panda
Mr. S.M.A.K.Azad
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Ms. S.Padhy
Ms. R.Pradhan
Mr. B.P.Pattnaik
Mr. G.Prasad (Coordinator)

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AICTE Sponsored Staff Development Programme

On

Recent Trends in Electrical Drives and Power Electronics

(RTEDPE - 2009)

12th - 17th October, 2009



Coordinator

Mr. G.PRASAD

Organized by

Department of EEE
**NATIONAL INSTITUTE OF
SCIENCE & TECHNOLOGY**
Palur Hills, Berhampur - 761008
Orissa, INDIA.

OBJECTIVE OF THE PROGRAMME

With fast developments in semiconductor technology, high performance power electronics devices and signal processors are getting commercialized regularly. Consequently power electronics, machine drives and power systems technology is advancing very fast. So there is necessity of updating the knowledge with state-of-the-art developments in these fields. This training program will help the participants to update their knowledge, and to target research problems in power electronics, machine drives and power systems. Participants will be given adequate exposure to modern equipments of power electronics laboratory and different simulation softwares.

RESOURCE PERSONS

The faculty from reputed institutions like IIT, IIIT, NIT, Andhra University, Jawaharlal Nehru Technological University, Osmania University, National Institute of Science & Technology, R&D organizations, and Industries will deliver the lectures.

TOPICS TO BE COVERED

- ◇ Modern Power Electronics Devices
- ◇ Converters 1 ϕ , 3 ϕ AC to DC Converters
- ◇ DC to DC converters, Choppers, Buck, Boost, Buck Boost, Cuk converters
- ◇ Resonant converters
- ◇ Inverters, Multi level Inverters
- ◇ Advanced PWM techniques for Inverters
- ◇ DC Drives: — with converters, Choppers, Closed loop operation, simulation.
- ◇ AC Drives: — IM drives, v/f control, vector control, DTC, simulation.
- ◇ SM Drives, v/f control, vector controls, DTC.

- ◇ PMSM, BLDC, Simulations.
- ◇ Non-linear control, Neuro-fuzzy control
- ◇ Soft computing methods for parameter estimation

ABOUT US

NIST is one of the premier engineering institute of eastern India. It holds the honor of being first engineering college in the entire southern Orissa, which was established in the year 1996. Apart from teaching NIST is well known for its research activities. The institute offers 4 year B.Tech courses, MCA, MBA and M.Tech Programmes under BPUT, Orissa and PGDM (Autonomous programme approved by AICTE). NIST is located around 12 kms away from Berhampur city along the NH-5. The different research groups which are active in our institute are VLSI & Microelectronics, Microwave & Antenna, Automation & control, Robotics, Sensor Networks & Communication, Embedded systems and Signal & Image processing.

ABOUT THE DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

The course will be organized by Department of Electrical and Electronics Engineering having well experienced faculty members from teaching and Industrial background. The department has started in the year 1996 with an intake of 60 students. Since then the department has conducted a number of short term and FDP programmes on various challenging topics catering to the industrial requirements. Every year the department conducts summer training on Simulation and Modeling in Advanced Research topics of Electrical Engineering for inside and outside students. To name a few, the department is well equipped with Power System, Bond graph simulation Lab, Process control & Automation Lab, Robotics Lab and Embedded Lab etc.

REGISTRATION FORM

for

**AICTE Sponsored
Staff Development Program On**

**Recent Trends in Electrical Drives
and Power Electronics**

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12th - 17th October, 2009

1. Full Name :
(In Block letter)
2. Designation :
3. Institute Name & Address :
4. Whether the Institute has AICTE approval ?:
Yes / No
5. Sex : M / F
6. Contact Number :
7. E-mail Id :
8. Accommodation needed : Yes / No
9. Signature of the Participant :

Date:

Place:

**Signature of the Head of the Institute /
Sponsoring Authority
(With Date and Seal)**