

## ABOUT US

NIST is the 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 (ECE & CSE) 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 ELECTRONICS AND INSTRUMENTATION ENGINEERING

The course is organized by Department of Electronics and Instrumentation Engineering. This Department has well equipped laboratories and well experienced faculty members from both teaching and Industrial background. To name a few, the department is well equipped with Process control & Automation Lab, Robotics Lab and Embedded Lab. This department was started in the year 1997 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 Industrial Automation for students from institutes of different parts of India.

## 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 (casuarina, 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).

## ORGANIZING COMMITTEE CHAIRPERSON

**Prof. Sangram Mudali, Director, NIST**

## CO- CHAIRPERSON

**Dr. A.K. Panda, Dean, NIST**

## Advisory Committee

Prof. Geetika Mudali  
Dr. A.K. Padhy  
Dr. P.C. Biswal  
Dr. S.K. Tripathy  
Dr. Motahar Reza  
Dr. Gayadhar Panda  
Dr. Siddhartha Panda

## Organizing Committee Members

Mr. Abhro Mukerjee  
Mr. Satyabrata Das  
Mr. Bhawani Shanker Pattnaik  
Mr. Debasish Dutta  
Mr. Nihar Ranjan Sahoo  
Mr. Bhagabati Pattnaik  
Mr. Swagat Samantray

## ADDRESS FOR CORRESPONDENCE

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**AICTE Sponsored**

**Faculty Development Programme  
On**

**ADVANCED COMPUTER  
CONTROL OF INDUSTRIAL  
PROCESS AND AUTOMATION  
ENGINEERING  
(ACCIPAE)**

**6<sup>th</sup> - 11<sup>th</sup> July, 2009**

**Co-Ordinator**

**Mr. S.M.A.K. AZAD**

**Organized by**



**National Institute of Science &  
Technology  
Palur Hills, Berhampur - 761008  
Orissa**

**ADVANCED COMPUTER CONTROL OF INDUSTRIAL PROCESS AND AUTOMATION ENGINEERING**

**INTRODUCTION**

The economy of our country is growing at a very rapid pace which is quite evident from the developments in almost all the fields like manufacturing, steel, cement etc. This excessive growth rate has put tremendous stress on industries to produce high quality goods with minimum cost. The wave of development is felt profoundly in automation industries. Therefore it has become necessary for the people from academia, research and industry to gain expertise in fields of computerized process modeling, intelligent and robust controller design, industrial communications protocols and other complex hybrid systems.

**OBJECTIVE OF THE PROGRAMME**

This course is designed to give a comprehensive exposure to participants like young faculty, working scientists/engineers. Substantial stress will be given on computerized automation of industrial process and other emerging areas like robot control, flight control and ship navigation will also be addressed. Special care will be taken to maintain the lucidity of material so that the participants can follow the topics with ease and will be able to solve the challenging industrial problems.

**COURSE INSTRUCTORS**

Experts from IITs, IIITs, NITs, NIST and Persons from Industry (Vedanta Alumina, JK paper, Cranes software, Mechatronics) will deliver the lectures.

**TOPICS TO BE COVERED (Theory and Lab sessions)**

- PLC, Micro controllers
- ARM Processors
- SCADA and HMI
- DCS
- Industrial communication Protocols
- Computer aided modeling of dynamic systems using SYMBOL SHAKTI
- Virtual Instrumentation using LABVIEW

**ELIGIBILITY OF THE APPLICANT**

Faculty members from AICTE recognized Engineering Institutes, Autonomous colleges and Freshers from Industry having one to two year experience in relevant discipline are eligible to participate.

**HOW TO APPLY**

Xerox / typed application form duly filled and attested by the Head of the Institute should reach on or before **15<sup>th</sup> June 2009**. You can also download the application form from the website [www.nist.edu](http://www.nist.edu). **No registration fee** is required. The short listed applicants will be intimated through e-mail before **1<sup>st</sup> July 2009**.

**TA/DA ACCOMMODATION**

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

**REGISTRATION FORM**  
**AICTE sponsored**  
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**(ACCIPAE)**  
**6<sup>th</sup> - 11<sup>th</sup> July, 2009**

Name : .....  
(Block Letters)

Institute Name : .....

Designation : .....

Whether the Institution has AICTE Approval ?  
YES/NO

Address for correspondence :  
.....  
.....  
.....

Sex: ..... Mobile :.....

E-mail: .....

Place: ..... Signature of the applicant  
Date: .....

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