SUMMER WORKSHOP on ROBOTICS 2013
(for school students)

From 1st June to 14th June, 2013
Venue: NIST

National Institute of Science & Technology
Palur Hills, Berhampur-761008, Odisha
Ph: +91 680 2492421, 2492422
Website: www.nist.edu
The National Institute of Science and Technology was established in 1996 and is being managed by the SM Charitable Educational Trust. The Institute is approved by the AICTE under MHRD, Govt. of India and is affiliated to the Biju Patnaik University of Technology (BPUT). The Institute has grown by leaps and bounds under the able leadership of the founder Director, Prof. Sangram Mudali, Director (M.S., University of Houston, B. Tech., IIT Kanpur), Prof. (Mrs.) Geetika Mudali, Placement Director, (M.S.(MIS), New Jersey Institute of Technology, NJ), Prof. Ajit K. Panda, Dean, (Boycast Scholar at University of Michigan, USA). About 2700 students from 13 different states are studying in various disciplines of MBA, PGDM, B. Tech, M. Tech and MCA. The entire campus is 24x7 wi-fi connected. The Institute is rated the best for its E-Governance practices (ERP) among all the Institutes of Orissa. Within a span of 15 years, NIST has produced 4 BOYSCAST scholars, 3 Full Bright scholars, 3 URSI Young Scientist, 3 Samant Chandrashekhar Young Scientist Awardees and more than 20 Post-Doctorate scholars have been awarded to the institute faculty. The institute has received a number of grants from AICTE, DST, UGC, MHRD, CSIR and private IT companies for projects, Staff and Faculty Development Programmes.

Centre of Excellence:
- CADENCE Center of Excellence
- IBM Center of Excellence
- TIFAC Core in 3G/4G Communication Technologies.

Offers B.Tech. In Five Disciplines:
- Computer Science Engg.
- Electronics and Communications Engg.
- Electronics and Electrical Engg.
- Electronics and Instrumentation Engg.
- Information Technology
- Electrical Engineering
- Electronics Engineering
- Civil Engineering

NIST also offers the following postgraduate level courses:
- M. Tech. in Electronics and Communication Engg.
- M. Tech. in Computer Science
- M. Tech. in Electrical Engineering
- M. Tech. in VLSI and Embedded System Design
- M. Tech. in Wireless Communication Engg.

The NIST Technology Consulting Services (NTCS) is the consulting wing of NIST that provides cutting edge solutions in Software Development, Web technologies, Robotics, VLSI design and Advanced Instrumentation solution.

About NIST ROBOTICS CLUB

NIST Robotics Club (NRC) was established in the year 2004 in collaboration with BRICS, IIT Kanpur. Since its inception, the club is involved in various Robotics projects like Humanoid, SPYBOT, Quadruped, Bipedal Robot, TORI etc. The club also organizes workshops in various colleges and schools. NRC has been participating in ROBOCON (An ASIA Pacific level Robotics Contest sponsored by Doordarshan India) for last six years. In this year 2009, the club was positioned 4th in India at ROBOCON. The club also sends the student members to various competitions throughout the country, winning many laurels for the institute performing exceptionally well in various IITs and NITs. This year NRC has been ranked 12th out of 67 participating colleges in the ROBOCON 2012.

NRC has been organizing this Summer Workshop for School Children. This workshop is intended towards educating the children at school level regarding the basics of Robotics and its ever growing applications in various fields. The workshop is totally made free for the kids, where our organization bears all the expenses towards the food, transportation, and materials etc. for the workshop. During this workshop, the students are encouraged to participate in a lot of competitions and awarded with attractive prizes at the end of the workshop.

PROGRAM
1st June to 14th June, 2013

Time: 9:00 a.m. 4.00 p.m.
on all days except Sunday.
The Program will cover the following topics:
1. Overview of Robotics - A Historical Perspective.
2. Kinematics - The basic elements of a Robot.
3. Dynamics - The laws of motions of a robot.
5. Robot Building from Everyday Materials.
7. Eyes & Ears of the Robot.
8. Lego kit based Robot Building.
9. Project: Each group of two students will build a Robot as per contest specifications.
10. Future Prospects in Robotics.

Course Materials, Transport, Lunch, Snacks will be provided free of cost to all participants.

Venue: National Institute of Science & Technology Palur Hills, Berhampur-761008

REGISTRATION FORM

1. Name:
2. Class (For school Students):
3. School Name:
4. Contact E-mail ID or Phone Number :
5. Address for Correspondence:

RULES AND REGULATIONS

1. Entries are open to school students of standards 8th to 10th.
2. Those who want to participate can confirm their participation. Contact us through E-mail or given phone numbers.
3. Entry should be made on or before 29th May 2013
4. Limited seats are available.