NIST AWARDED GRADE A

ACCREDITED BY UGC - NAAC

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From the Director’s Desk

It is always a pleasure to write with the incoming batch in mind. The batch which is expected to be the largest batch in our history is also very special. It will comprise of students whose average age of 18 years will equal the age of the Institute, i.e., 18 years. Welcome to the students who were born along with this Institute 😊

I will focus on two issues which have always rocked a fresher’s mind.

Wish I had got into IIT. The answer to that is NIST will provide you the same academic ambience and ecosystem to excel and to develop a 360deg personality the way an IIT provides. The academic pressures are substantial and the ambitions of fellow students are sky high. The alumni of our Institute are testimony that NISTians are no less. If you think you have the calibre we have the challenge - be in the top 10% of your batch!

The second is “Mechanical or Electrical branch is hot”. Nothing is further from the truth. All branches as available at NIST including Computer Science, Electronics & Communications, Instrumentation, Information Technology, Civil Engineering are equally required by the Industry. We have made sure that placement is equally available to all branches of engineering. Select the branch as per your passion. Collect as much information as possible from friends, relatives, web regarding a branch and what the work involves. Looking at money aspects is indeed short term. The branch should hold your interest over a lifetime of a career.

The recent accreditation of NIST by UGC - NAAC with an A grade with a top CGPA of 3.22 has proved our mettle in the all India level. The number of awards won by the students and the Institute are a testimony that together we (students and faculty) can ensure that India’s technological dominance continues in these uncertain times. There is no shortcut to knowledge or a career. NIST promises you a challenging and exciting roadmap for your career.

Best Wishes,

PROF. SANGRAM MUDALI

From the Editors’ Desk

Through this year-round-up-issue of NIST e_news we try to bring before you all that kept us busy in 2013-14. This is meant for the students who are at the crossroads of their educational career. Before you take the decision of choosing engineering as career and zeroing on any institute for the same, this issue will help you open your eyes to the whole new horizon of engineering education and the life that you are going to lead in the next four years.

Unlike other educational institutes, NIST is an industry where students are moulded in the hottest furnace of education to become the citizen engineers and managers of tomorrow. With a mission to nurture future engineers and managers it operates from 24/7 with 5000 NISTians. Our team comprising faculty and staff members works effortlessly to prepare the students in taking the litmus test to prove their mettle in the battle of life.

We urge the present batch of students who are on the threshold of getting into engineering colleges to make the right decision of their career and life as well. The next four years will be the finest four years of your life in terms of education, career building, relationship building, and life skills. Decide the best college, in terms of quality education, be in the safest hands of faculty members who can show you the right path, and choose the discipline of your choice that will help you nurture your passion and bring you satisfaction and happiness at end of each day.

RABI CHANDRA SINGH

DIPTI R. LENKA

National Institute of Science & Technology, Berhampur, 761008
From the Placement Director’s Desk

Welcome the new batch of B. Tech., MCA, MBA, and M. Tech. to the abode of learning, National Institute of Science and Technology, Berhampur. NIST is a premier Engineering College not only in Odisha but also in the country. The institute has been accredited by UGC/NAAC as Grade ‘A’ College, has been ranked 28th in the country and 6th in eastern India by Data-Quest Survey 2014 and it has been voted No. 1 among all private colleges in Odisha by BPUT students.

NIST is known for its academics, research work, and campus recruitments. We have excellent facilities in research, placement, industry-academia relationships, technical courses, and communication enhancement programmes. All these facilities will enable the students to have a learning environment where they can have tremendous value addition. Other than academics, students will be well versed in various technical courses and they will also be trained for placement activities.

In the past, since its inception in 1996, we have got excellent placement records and our alumni are all well placed. Some of the top companies that visit NIST are: Infosys, Wipro, TCS, Capgemini, HCL Technologies, Sankalp Semiconductor, CoreEL Technologies, Accenture, Exilant Technologies, Tech Mahindra, TVS Motor Company, Microsoft, Flipkart, IBM and many others. We have received many feedbacks from our alumni who have said that the institute’s teaching-learning methodology is one of the best practices.

Best wishes to all those who will be joining NIST.
Research through Summer Internships, Research Assistantships, Conference Publications, etc., prepares students with the requisite skills to opt for research as their career option. In addition, the Industry Oriented Courses and certifications on VLSI, Embedded Systems, SAP, Oracle, CCNA, Java, J2EE, Rational Rose, Multimedia Skills, coupled with Japanese Language Proficiency and Business English Language Proficiency provides the students an extra edge over their counterparts.

The institute has always practiced what it preaches: Excellence with Discipline.

Salient USPs of the National Institute of Science & Technology:

1. Full Scale Implementation of E-Governance which enhances productivity and brings transparency in the entire community. Winner of E-India 2013 Award for its flagship ERP product: Online Information Systems.

2. Focus on Undergraduate Research at B.Tech: Summer Internships, RAships, Joint Paper Publications with Faculty, Conference Funding, etc., has led to excellent research motivation at all levels.

3. Centres of Excellence in Niche Areas: The TIFAC CORE Communications Technology at an investment of approximately Rs. 10 Crores has led to interdisciplinary research & development and team work among faculty and students.

4. No Departmental Structure: Unique model where faculty members are functionally accountable to Batch Coordinators and Course Coordinators. No brick & mortar separate buildings for different departments has led to frictionless working environment.

5. English Reading Revolution (ERR) course involves multiple focus on Technical Communications through Language Labs, Newspaper Editorial Review, Novel Review, Word (Vocabulary) Lists, etc. Has led to faster improvement in Technical Communications among the students.

6. Entrepreneurship Incubator on Campus is presently hosting SIX fully funded technology driven companies which are established by alumni or faculty.

7. Discipline: Unparalleled discipline among the 3500 strong student community makes implementation of decisions easier and faster. High Quality Faculty are motivated to join due to academic respect and disciplined ambience.

8. R & D collaborations with two leading Universities of the world: University of Electro-Communications, Japan and Institute of Atomic & Molecular Sciences, Taiwan.

NAAC Accreditation

NIST has been accredited Grade ‘A’ by UGC-NAAC with the 2nd highest rating in India with 3.22. Out of 168 institutes accredited this quarter, only 12 Institutes got A Grade. This recognition for NIST is a true indicator of its quality education and research work.

Data-Quest Survey Report 2014

NIST has been ranked 28th in the Country and 6th in Eastern India among all Technical Institutions surveyed as per the Data-Quest Survey Report 2014. This is a level up as compared to the report of 2013 where NIST was at rank 31st in the country.

BPUT Students’ Poll

By a public polling, NIST has also been voted No. 1 Private Engineering College in the state by BPUT students in the year 2014.

National Institute of Science & Technology, Berhampur, 761008
NIST has been bestowed the eIndia 2013 Award for Excellence for Use of Technology in Teaching-Learning Process. This Award was given to NIST in face of tough all India competition. Our Online Information System (OIS) has been recognised throughout the country for its innovation, excellence and ease of use. The Award was received by Prof Geetika Mudali, Placement Director, NIST from the Hon’ble Minister of IT, Govt. of Andhra Pradesh at the Awards Ceremony held at the International Convention Centre on 23rd July.

**PRESTIGIOUS AWARD FOR NIST**

NIST proposal to the Indo-UK DST-UKEIRI program has been approved amidst stiff competition. The project funding will be from DST in India and British Council in the UK. With the help of this programme, faculty and students will be required to conduct a part of their research work in the laboratories of Prof. Harimohan Upadhyaya (our collaborator) in Herriot Watt University, Edinburgh, UK. Dr. S N Sahu, Emeritus Prof., Dr Sukanta Kumar Tripathy, Prof., Dept. of Electronics and Communication Engineering, and Dr Duryodhan Sahu, Associate Prof., Dept. of Chemistry were part of the Core Team for this DST-UKEIRI project Award.

**ACCREDITATION BY TATA STEEL**

The senior delegates from Tata Steel visited NIST campus to accredit the college for future placement activities. They visited all the buildings, hostels, classrooms, auditorium, conference rooms, laboratories, placement cell, faculty rooms, etc. They interacted with the Director, Principal, HODs, Coordinators, and Faculty members.

**FACULTY Laurels**

**SUMMER RESEARCH FELLOWSHIP**

Mr Subhankar Ghatak, Asst. Prof., Dept. of Computer Science and Engineering has been selected for the Summer Research Fellowship (SRFP) at IIT Kharagpur.

**CSIR FELLOWSHIP TO NIST FACULTY**

Mr Swagat Kumar Samantaray, Assistant Professor, Dept. of Electronics and Communication Engineering, has received the CSIR (Council of Scientific and Industrial Research) Fellowship to do his Ph. D. from CSIR - Central Scientific Instruments Organization, Chandigarh.

**DOCTORATE OF PHILOSOPHY**

Mr Bhaskar Bandyopadhyay has been awarded Ph. D in Business Administration from the Berhampur University on the thesis: ‘Strategic Marketing of Agrochemicals’ under the guidance of Dr Arun Kumar Mahapatra, Prof., NIST School of Management Studies and Dr Arun Kumar Panda, Prof., Dept. of Business Administration, Berhampur University. Renowned academician Dr S. P. Singh of Gurukul Kangri University was the external examiner for the same. The thesis was highly appreciated by the examiners as a basic research work and got required permission from the University to be published in original form.

National Institute of Science & Technology, Berhampur, 761008
NIST FACULTY MEMBERS IN THE EDITORIAL BOARDS

- Dr. U. K. Misra, Professor, Dept. of Mathematics has been nominated as a Member in the Editorial Board of Journal of Indian Academy of Mathematics, ISSN: 0970-5120, for 2013 -15.
- Dr Sisira Kanti Mishra, Associate Professor, Dept. of Management Studies, has been selected as a Member of Editorial Board of CAGENA, an International quarterly journal of Management Science with ISSN no.: 2321 - 1741. (Ref: http://www.cagena.com/index.php/ct-menu-item-3/ct-menu-item-5.html)
- Dr Sisira Kanti Mishra has been selected as a Member of Advisory Board of the International Research Journal on Business Management and Finance, a peer-reviewed and refereed international journal with ISSN number 2320 - 9453. (Ref : http://grjbmf.wordpress.com/editorial-board/)

NIST FACULTY MEMBER AS THE RESOURCE PERSON

Dr. U. K. Misra, Professor, Dept. of Mathematics was invited as a Resource Person in the Training Programme for Undergraduate Students in Mathematics, organised by the Department of Mathematics, Tripura University during 17th - 19th July 2013.

ISTE BEST TEACHER AWARD for Odisha Section

Dr Sukant Kumar Tripathy, Professor, Dept. of Electronics and Communication Engineering has been awarded the Best Teacher Award - 2013 by ISTE Odisha Section for his overall performance and quantum of Academic and Research activities in technical education in his institute in the state of Odisha. Dr Tripathy was felicitated by the Vice Chancellor of VSSUT, Burla in the presence of Dr Bimal Sarangi, Chairman, ISTE Odisha Section, Dr M. R. Senapati, Secretary, ISTE Odisha Section and Prof. P. K. Hota, Prof. and Head, Department of Electrical Engineering, VSSUT, Burla.

STUDENT Laurels

TI INNOVATION CHALLENGE INDIA ANALOG DESIGN CONTEST 2014

Texas Instruments India University Program conducted the Texas Instruments Innovation Challenge: India Analog Design Contest 2014 for College-Level for the undergraduate and postgraduate students of the institute during 14th February to 14th March 2014. The contest presented a challenge to the students to use TI’s semiconductors such as embedded processors and Analog ICs in creative ways to solve system-level design problems. A total number of 450 students participated in the contest. Mr Mitu Baral, Assistant Professor, Dept. of Electronics and Communications Engineering coordinated this programme.
ISTE Srinivasa Ramanujan Mathematical Competition - 2013

NIST ISTE Chapter conducted the Srinivasa Ramanujan Mathematical Competition at the institute premises on 30th August 2013. The examination was conducted to commemorate the 125th birthday anniversary of Ramanujan. A record 190 students and two faculty members participated in the competition, but only eight students and one faculty member are selected to participate in the zonal level. Besides NIST Chapter, four other chapters sent their participation for the exam.

TI ADC CONTEST 2014

One project from NIST has been selected for the second round of Texas Instruments Innovation Challenge India Analog Design Contest 2014. TI received a total of 1754 proposals from 321 colleges across India. TI had a team of experts to evaluate these proposals on various grounds, such as innovation content, completeness of the proposal, meeting the contest guidelines, etc.

The selected project details are as follows:

THE PROJECT TITLE: EYEBALL AND BLINK CONTROLLED ROBOT WITH FUZZY LOGIC BASED OBSTACLE AVOIDANCE SYSTEM FOR DISABLED

Project Domain: BIOMEDICAL
Names of student: Anil Kumar Patra Roll no:-201016023, Bikash Pattnayak Roll no:-201010012,
Team members: Tarun Mukherjee Roll no:-201016172, Bijayshree Adhikari Roll no:-201010352

NIST STUDENTS AWARDED INTERNATIONAL INTERNSHIP IN ACADEMIA SINICA, TAIWAN

Two students of NIST Amlesh Kumar and Anisha Mohapatra of final year have been selected in the Taiwan Graduate International Internship Program (TGIP), Academia Sinica, Taiwan. The two students will be spending two months in May and June and working with Prof Dr. Kuei-Hsien, Chen, who is our collaborator in our Research Program. The entire program is fully funded with a full scholarship by the Academia Sinica, Government of Taiwan.

BEC EXAM AT NIST

NIST is a certified Cambridge English Language Assessment Exam Preparation Centre that prepares and examines candidates for Cambridge ESOL Examinations, the world’s leading range of qualifications for learners of English since 2007-08. This year a total of an astounding 504 students of B. Tech 2nd year (3rd Sem.) registered for the BEC Preliminary Examination scheduled for 21st September 2013. This was the largest batch ever. The Speaking Test was conducted from 20th - 23rd September and the Reading, Writing, and Listening Test was on 21st September 2013. The staff of British Council, Kolkata conducted the exam at the college. 469 students passed the examination out of which 27 students passed with distinction securing more than 85 marks.

NOVEL BY A NISTIAN

Ms Suruchi Roy, B. Tech, CSE, Final year published a novel, ‘It all started when I logged in’ by Smriti Publications, Kolkata. It is the first time that a student could complete writing a novel in this short time of four years. The book can be seen and ordered at http://www.smritipublishers.com/itallstarted.html.
AICTE Sponsored National Seminar on Dispersed Generation and Smart Grid

A three-day National Seminar on ‘Dispersed Generation & Smart Grid’ (DGSG-2013), sponsored by AICTE, was successfully organised by the Dept. of Electrical Engineering, NIST during November 29 to December 01, 2013. Honourable M P Shri Baijayant ‘Jay’ Panda graced the occasion as the Chief Guest and inaugurated the seminar in the presence of Prof. Sangram Mudali, Director, NIST and Dr Reji Kumar Pillai, President, India Smart Grid Forum.

Workshop on ‘Restructuring of Technical Education System in Odisha’

The NIST ISTE Chapter in Collaboration with the ISTE Odisha Section, as a part of its celebration of ‘Engineer’s Day’, organised a One-Day Workshop on ‘Restructuring of Technical Education System in Odisha’ on 15th September 2013. Prof Damodar Acharya, Ex-Chairman AICTE and ex-Director IIT, KGP, Prof Bimal Sarangi, Chairman, ISTE Odisha Section, Prof Manas Ranjan Senapati, Secretary, ISTE Odisha Section; along with the Director, NIST Berhampur, Prof Sangram Mudali graced the occasion as guests of honour. The speakers highlighted on the prevalent trends and practices in the technical education system in India and Odisha in particular. The workshop was recognised by ISTE, New Delhi and has been published in their monthly newsletter. For details visit: http://www.isteonline.in/DataFiles/CMS/file/1.pdf

NPTEL Awareness Workshop

A half-day awareness Workshop on NPTEL Courses was held at the NIST auditorium on 5th September 2013. Conducted by Mr G. Vinod from Classle Knowledge, this workshop was attended by 91 students and 15 faculty members from various branches of B. Tech, M. Tech and MCA. The main objectives of this workshop were to create awareness and competency on technology enhanced learning like e-learning, online education and to outline and explore the courses offered by NPTEL.


Centre for Soft Computing Research (CSCR), Indian Statistical Institute, Kolkata and National Institute of Science and Technology, Berhampur jointly organised a Workshop on ‘Modern Trends in Soft Computing and Security Issues’ at NIST from 23rd - 28th September 2013. The aim of the workshop was to give an exposure to the fundamental ideas and concepts in some key areas of Soft Computing and Network Security. The programme was inaugurated by Padma Shri Prof. Sankar Kumar Pal, Principal Investigator, Centre for Soft Computing Research (CSCR), ISI Kolkata.
A NIST ISTE CHAPTER SEMINAR

NIST ISTE CHAPTER (Odisha Section) organised a Seminar on ‘Role of Advanced Electronics & Nano Materials/Devices Technology in Strategic Aero-Space/Defense & Solar Energy Applications - A Bird’s Eye View’ on 16th August 2013. The talk was given by Dr V. N. Mani, Scientist-E, Centre for Materials for Electronics Technology, Govt. of India, Hyderabad. Dr Mani emphasised on the Science and Technology Development Era, Discoveries/Inventions that revolutionized the world of science and technology like X-ray machine, Microscope, Crystals, Transistors, Chloroforms, Penicillin, Laser, Maser, Hybrid Seeding, Solar Cell, Atomic Energy, Television, Computers, Smart chips, Clean rooms, and Nano crystals and devices.

NIST ISTE SPONSORED PROGRAMME at Ravenshaw University

A talk by Bhatnagar Awardee Prof. Ajoy K. Ghatak, Ex-Professor, IIT Delhi was organised in the Department of Physics, Ravenshaw University, Cuttack on 28th November 2013. It was jointly sponsored by the Optical Society of India and ISTE Chapter of NIST, Berhampur. He spoke on ‘Light’ and ‘Fiber Optics. The session was made interactive as the graduate and postgraduate students of the nearby colleges participated actively in the same, and quenched their queries on the subjects.

GRADUATE INSPIRE PROGRAMME

The MBA Department of NIST, Berhampur organised a one-day Graduate Inspire Programme, ‘Festival of Learning for Professionals of Tomorrow’ on 25th November 2013 for the final year graduate students from different colleges of Ganjam. The workshop was inaugurated by Prof. (Mrs) Geetika Mudali, Placement Director, NIST, Dr Surjya Kumar Misra, Prof., and Prof. E. Raja Rao, Dept. of English, NIST. After the inaugural ceremony, Prof. Surjya K. Misra gave an informative talk on ‘Management’. This was followed by an enlightening talk on ‘Personality Development’ by Prof. Geetika Mudali.
DST INSPIRE SCIENCE CAMP – JANUARY 2014

NIST organised a five-day DST INSPIRE Science Camp from 27th to 31st January 2014. The session was inaugurated by Prof. Baishnab Charan Tripathy, Vice-Chancellor, Ravenshaw University in the presence of S S Bhatnagar Awardee, Prof. Yashwant Gupta, Dean, GMRT Observatory and National Centre for Radio Astrophysics, Tata Institute of Fundamental Research and Prof. Sangram Mudali, Director, NIST. The participants were informed and inspired by the talks of eminent personalities over the span of the five days. They were offered hands-on experience in the most popular fields of science including Electronics, Robotics, Multimedia, CAD/ CAM through various lab activities conducted and supervised by different clubs of the institution.

ONE-DAY EDC WORKSHOP ON INITIATION TO ENTERPRISE

The Entrepreneurship Development Cell of the Institute organised a one-day Workshop on ‘Initiation to Enterprise’ on 19th February 2014. Mr Mrinal Das, Vice President, Sankalp Semiconductor Pvt. Ltd. delivered a lecture highlighting the importance of entrepreneurship in general and ‘Spirit of Entrepreneurship’ in particular followed by the question answer session with the students. Mr Santosh Kumar Sabat, Chartered Accountant, delivered his talk on various areas of financial requirements for an entrepreneur. This workshop was organised to motivate and guide the B. Tech, MBA final and pre-final year students of the Institute to become entrepreneurs.

ONE DAY SEMINAR ON RESEARCH AREAS IN SOLAR ENERGY

The Department of Electronics and Communication Engineering conducted a one-day Seminar on RESEARCH AREAS IN SOLAR ENERGY on 20th February 2014 at TIFAC Seminar Hall. Prof. Hari Mohan Upadhyaya, Head, Energy Engineering Group Institute of Mechanical Process and Energy Engineering (IMPEE) and School of Engineering and Physical Sciences, Heriot Watt University, Edinburgh, UK, was the speaker on this occasion. Prof Upadhyaya visited NIST as a part of DST-UKIERI project signed between NIST, India and Heriot University, U.K.

ONE DAY SEMINAR ON NANO PHOTONICS

ISTE, Faculty Chapter, NIST organised a one-day Seminar on Nano Photonics on 21st February 2014 in the Institute Auditorium. Prof. Khozo Hakuta, Director of Centre for Photonic Innovation, University of Electro Communication (UEC) Tokyo, Japan spoke on this occasion. Faculty members, students attended this seminar. Prof. Hakuta also delivered a specialized technical talk on manipulation of Single Photon to the Photonics group. Prof. Hakuta visited NIST as a part of MoU between NIST and UEC, Japan.
ROBOTICS WORKSHOP

An autonomous Robotics Workshop was organised at National Institute of Science & Technology on 19th and 20th January 2014 by Technophilia Systems, Mumbai. NIST was made the Centre for the Zonal level competition for ‘AAGOMANI 2014’, a national level competition organised by IIT Bombay. The Workshop covered important areas like AVR microcontroller, Embedded C, Vision system in industry, military, medical, home appliances, home-automation, MATLAB GUI based PC controlled robot, ball follower robot and many more. Eleven students from NIST were selected from the Zonal Competition for the national round.

WORKSHOP ON LEARNING CONTENT PREPARATION

Mr Srikant Acharya, Founder, Director and CEO, Quampus visited the institute to deliver a talk on “Learning Content Preparation” in a workshop held on 8th February 2014 at institute Auditorium. The workshop included hands-on Tutorials, demonstrations on how to prepare the teaching material, video, animation etc. Many faculty members attended the workshop. Now faculty members of NIST can make their own video lectures using the Quampus i-Spring software.

TRAINING PROGRAMME ON ANSYS

A five-day training program on Ansys was organised in the institute from 5th April 2013. All the faculty members of the department of Mechanical Engineering and Electrical Engineering along with the students of the department participated in the programme.

TTT ON MOBILE APPLICATION DEVELOPMENT USING ANDROID

A three-day Train the Trainer Programme on ‘Mobile Application Development using Android’ co-sponsored by Infosys Campus Connect was organised at the institute during 18th to 20th December 2013. Faculty members from different Campus Connect partnering colleges of Odisha participated in the programme. The resource persons for the programme were Ms Kayya G., Infosys, Mangalore DC and Mr Bhupesh Deka, Infosys, Bhubaneswar DC.
CENTRE OF EXCELLENCE for Renewable Energy at NIST

Honourable Member of Parliament Shri Baijayant ‘Jay’ Panda inaugurated the Centre of Excellence for Renewable Energy at the Atrium building of NIST. The centre of excellence has a well-equipped Solar Laboratory to facilitate faculty members and students to pursue research in different areas of solar energy systems. It also has many living laboratories like, Biomass Gasifier (25KW), Kitchen Waste - Bio Gas Plant (1 tonne), Wind-PV Hybrid Unit (5KW), CSP Steam Based Cooking System (1000 meals/day), and Micro Hydel Unit (5KW). These laboratories facilitate the researchers to do real time supervision, control, and analyses of living systems. The centre provides training programmes at undergraduate, managerial, and industrial level throughout the year.

INAUGURATION OF COMPUTER VISION AND NETWORK SECURITY LAB

Padma Shri Prof. Sankar Kumar Pal, Principal Investigator, Centre for Soft Computing Research (CSCR), ISI Kolkata inaugurated a state-of-the-art laboratory meant for dedicated research in computer vision and security. He also inaugurated the DATA Science laboratory at the Atrium, NIST which will perform research and teaching at the intersection of systems, programming languages, and theory.

‘ASK NIST’ AND ‘GRIEVANCE CELL’ IN OIS

The Grievance Cell module in the OIS has been introduced. This module will allow students, staff, and faculty members to put in a complaint about any harassment, indiscipline, ragging, academic matter, personal, or corruption etc. to the notice of authorities. This is in addition to the existing Disciplinary Committee for resolving issues at the institute. Another module, Ask NIST has also been introduced that enables students and faculty to ask questions on any academic topic and to elicit answers through crowd sourcing.

UNDP GEF MNRE PROJECT

NIST as the local consultant organised a one-day workshop for designing a “UNDP-GEF (Global Environment Facility) MNRE (Ministry of New & Renewable Energy) project to scale-up access to clean energy for rural productive uses” at Apex Institute of Technology and Management, Bhubaneswar. The aim of the workshop was to share the project concept with the stakeholders in the focus states. Delegates from Government of Odisha, NGOs, Renewable industries of the state and neighbouring states, and academicians working on rural development projects participated in the workshop gave a number of innovative ideas for creating microenterprises in rural areas using renewable energy sources.
PAPERS PUBLISHED


7. Dr Bhaskar Bhoula, Associate Prof., Dept. of Mathematics published a paper: Economical Ordering Strategies for Perishable Items under Conditions of Demand Dependent Finite Production and Partial Backordering in the International Journal of Science, Engineering and Technology Research (IJSETR), Volume 2, No 6, June 2013, ISSN: 2278 – 7798.

8. Dr P. S. Rama Sreekanth, Associate Professor, Dept. of Mechanical Engineering along with S. Arun, S. Kanagaraj published a research paper: Mechanical characterization of PMMA/SWCNTs bone cement using nanoindenter, in the journal, Accepted Materials Technology: Advanced Performance Materials.


11. Dr Pinaki Sarkar, Associate Professor, Department of MCA along with Dr Brijesh Kumar Rai, Dept. of EEE, IIT Guwahati, and Mr Aritra Dhar, Dept. of CS-IT, IIIT Delhi, published a paper: ‘Connecting, Scaling and Securing RS code and TD Based KPds in WSNs: Deterministic Merging’ in the proceedings of the 14th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc 2013), held at Bangalore during 29th July - 1st August 2013.


13. T. Sahu, S. Palo, P. K. Nayak and N. Sahoo, “Enhancement of low temperature electron mobility due to an electric field in an InGaAs / InAlAs double quantum well structure”, Semiconductors (Accepted) published by Springer 2014.


Dr Ratnakar Mishra, Associate Prof., Dept. of Management Studies along with A. Patnaik published an article on ‘Climate controlled environment and student productivity: An empirical analysis’ in the journal, Parikalpana (KIIT School of Management). Vol-10(1), 127-141.

Dr Ram Kulesh Thakur, Assistant Professor, Dept. of English published a paper: ‘Unravelling Pashupati Jha’s Engineering in Love, Philosophy, Movement, and Peace” in the Journal of the Odisha Association for English Studies, vol. 4, issue 1, Baleswar 2014 (ISSN: 2249 - 6726).


A Talk on Signal Processing Application in VLSI was presented by Dr R. P. Panda, Professor, Dept. of Electronics and Communication Engineering, VSSUT, Burla on 10th September 2013 at TIFAC Seminar Hall, NIST. The lecture was organised by NIST IEEE EDS Students Chapter.

Prof. U. K. Misra, Dept. of Mathematics, NIST, was invited to deliver a Talk on Some Difference- Orlicz Space of Entire Sequences in the International Conference on Global Advance Management (GAM-2013), organised by Jangjeon Mathematical Society, South Korea in association with Acharya Institute of Graduate Studies, Bangalore during 1st - 4th, August, 2013.

Dr P. A. Sreeram, HPC and Open-Source Consultant, TIS Labs and former faculty, IISER Kolkata delivered a talk on Collaboration between TIS Labs and NIST in Open-Source Based IT Education on 21st November 2013.

A lecture series was delivered by Dr Nirmal Hui, Assistant Professor, NIT Durgapur from 12th - 14th December 2013 on Computational Intelligence. The lectures were designed especially for the M. Tech. 1st semester students and faculty members.
Dr Trinath Sahu, Professor, Dept. of Electronics and Communication Engineering presented a Keynote Address on ‘Nano-semiconductor Physics and Devices’ in the National Seminar on Emerging Trends in Electronics and Communication Engineering (NSETECE-2013) held at Kalam Institute of Technology, Berhampur, during May 7 - 8, 2013.


Prof Atal Chaudhuri, Professor, Department of Computer Science and Engineering, Jadavpur University delivered a talk on the ‘Future Prospects of a Teacher’ at TIFAC-CORE Seminar Hall on 4th May 2013. Many faculty members along with the M. Tech students attended the talk.

Dr Amit Kumar Mishra, University of Cape Town, South Africa, delivered a talk on ‘Brain and Brain Inspired Machine Learning’ on 28th June 2013 at the institute auditorium.

Mr Sunil Sabat of IBM, USA delivered a Talk on ‘Big Data - Current State and Overview with Hadoop and Hbase Demonstration’ at NIST on 16th August 2013.

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**ORIENTATION PROG. ON BASICS FOR FRESHERS 2013**

The Orientation Programme on Basics for Freshers, 2013 was organised on 6th Aug 2013 as usual with the high hope of widening the horizons of the new batch of B. Tech., M.B.A., and M.C.A. students who chose the NIST to be their alma mater. The programme was inaugurated by Prof Sangram Mudali who maintained that the students of NIST should not only be the front-runners in inventing the technical know-how in future and become the most advanced engineers, but also be adjudged everywhere as the best human beings, looking at the society from multiple perspectives derived from different disciplines. It was coordinated by Dr. E. Raja Rao, Professor of English, NIST, Berhampur.

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**10 YEARS CELEBRATION**

The institute felicitated the faculty members and staff who completed their 10 years at the college in a function on 9th May 2013. All the members were given a Certificate of Appreciation, a gift and cash award. They shared their experiences at NIST and talked on how the college has grown in the past several years. Prof Sangram Mudali felt nostalgic when he shared some of his experiences with the faculty members and staff.

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**17 GLORIOUS YEARS OF NIST**

On the 18th of September 2013, the Institute celebrated its 17 successful years. Prof. Geetika Mudali, Placement Director, NIST thanked the faculty members and staff who have been rendering their relentless service for the well-being of the institute since 1996. She shared her own experiences, both good and bad, with the faculty members and the roller coaster ride that the NIST family had taken in the last 17 years.
‘SANKALP’ is a national-level techno-management symposium organized by the National Institute of Science and Technology, Berhampur, with an aim to nurture the technical expertise and skills among youngsters. ‘Sankalp 2013’ through various technical, management, and fun events tested the caliber of the enthusiastic participants from NIST and different colleges of the state. It included Invited Talks, Panel Discussions, RC Aircraft Modeling Workshop, Technical events and contests, and fun events like Star Nite and Cultural Evening. The Invited Talks included engaging talks by eminent personalities like Mr. C. P. Singh, Dr. B. S. Pani, Dr. Ganapati Panda, Former Deputy Director, IIT, BBSR and also an amazing talk by the V. P. of ISTE, Prof. P. K. Desai.

This year, the events were categorized under the ‘Aseemit’ resources as well as the core constituents of the universe. The enthralling performances by Kunal Ganjawala, the famous Bollywood playback singer and Sunil Sawra, the stand-up comedian from the Great Indian Laughter Challenge Season 2 on the Star Nite were the cynosure of all eyes. The atmosphere was filled with joy and laughter of students, faculty members and staff alike. People thoroughly enjoyed the evening.
12TH ANNIVERSARY CELEBRATION OF NIST E_NEWS

The National Institute of Science and Technology celebrated the 12th Anniversary of its monthly newsletter, NIST e_news. Cutting the cake during inauguration ceremony, Prof Sangram Mudali and Prof (Mrs) Geetika Mudali congratulated the e_news editor and the student volunteers and appreciated their efforts in bringing out each issue of the magazine. Prof Sangram Mudali, who chaired the meeting, persuaded the students to look beyond and go that extra mile in substantiating their future goals. He also inspired students with his talk on how they can be good observers of the issues that are plaguing the society including corruption, illiteracy, water problem, and environmental pollution.

ANNUAL LIBRARY BOOK FAIR 2014

The Annual Library BOOK FAIR was held in the Library premises. The publishers from different places of the country displayed their books on science, technology, literature and others in the fair. Faculty members, students, and staff members visited the fair in large number. Many faculty members suggested a number of books for the college library.

NEW YEAR CELEBRATION

An Annual Get Together with special invite to children for faculty members and staff was organised at the foothills of Palur near NIST Campus on 5th January 2014 to celebrate the New Year by Prof. Sangram Mudali, Director and Prof. Geetika Mudali, Placement Director, NIST. A special Magic Show was performed by Jadugar Kumar - Best of Odisha Finalist 2013. Different activities like sports, painting and other competitions were organised for children and their parents alike.

ROBOCON 2014

The members of NIST Robotics Club (NRC) participated in the national level competition of Robocon-2014 organised by MIT Academy of Engineering, Pune during 6th to 8th March 2014. Competing with 89 participating teams from all across the country, NRC secured 23rd position in the contest. The theme of this year was “Salute to Parenthood”, where each of the teams was supposed to present two robots, a manual (parent robot) and an automatic (child robot) for completing four tasks in a time span of 3 minutes. NRC amidst tough competition from top colleges of the country stood ahead of the other two participants from the state. Mr B. Rajanarayan Prusty, Assistant Professor, Dept. of Electrical Engineering and NRC Faculty Advisor accompanied the students to the competition.
ASTRONOMY WEEK

In yet another eventful week in NIST, the NIST Astronomy Club celebrated the Astronomy Week from 16th to 20th April 2013. Over a span of five days many exciting competitions were organised in the campus where a huge participation was witnessed. The event was conducted in the presence of the Director, Prof Sangram Mudali. On the final day the event was concluded by a documentary show to increase the inquisitiveness and awareness of the students in the field of astronomy. The programme was organised by the members of the club under the guidance of Dr Mihir Hota, Faculty Advisor, Astronomy Club. The Club is presently constructing a prototype planetarium.

VIDEO MAKING COMPETITION BY CLUB EUREKA

Club EUREKA organised a Movie Making Competition for the students of NIST. The theme of the competition was ‘NIST College Life.’ 22 videos were uploaded in the YouTube. Based on the youtube hits-views, likes, dislikes and the jury’s marks-the winners were selected and awarded with cash prizes (Rs. 10,000 for all winners) during Waves 2012.

SAND ART COMPETITION

Club Eureka and Club Innova successfully conducted the Sand Art Competition in the college campus. Around 50 students (eight groups) participated in the same. Through sand art, on the theme ‘Moulding Change in Society’, the students presented their ideas on End of Terrorism, United India, Gender Equality, Primacy of Lord of Knowledge over the universe, Respect Women, Women at par with men, Tobacco Kills, and Pac Man - a computer game where a man is ready to kill terrorism, corruption and poverty - the three demons of humankind.

EYE BOTICS WORKSHOP BY NRC

Think Ware, a venture of KC Robotics & Embedded Pvt. Ltd., Noida in collaboration with NIST Robotics Club conducted a Workshop on ‘Eye Botics’ in the college campus on 13th and 14th April 2013. This workshop focused on Image processing in Matlab Image Acquisition, Image Manipulation in MATLAB, Integrating Image Processing Code in Real Time, Ball Following Robot, and Object Tracking Robot. A total of 181 Students from different semesters participated in the workshop. Mr Swagat Kumar Samantaray, Faculty Advisor, NRC along with the members of the club and other faculty members coordinated the workshop.

6TH INTER SCHOOL LITERARY COMPETITION

The Club Eureka of the Institute successfully organised the 6th Inter-School Literary Competition for the class VIII, IX, and X students of Berhampur on 5th January 2014 at the college premises. A total of 225 students from seventeen different schools participated in various competitions like Debate, Essay Writing, Poem Writing, Story Writing, Poster and Collage Composition, and Quiz. St. Vincent Convent School students grabbed the Champions’ Trophy for the second time in a row. Prof. Geetika Mudali, Placement Director, NIST being present on the Closing Ceremony congratulated the winners and spoke on the importance of such competitions.

National Institute of Science & Technology, Berhampur, 761008
SOCIAL COMMITMENTS

COMPLETION OF EOP-2014

The 10th Batch of Employment Oriented Program consisting of 110 students from weaker sections of South Odisha specialized in a fully sponsored 4 months training on DTP, Computer Hardware Maintenance, Renewable Energy, Computer Skills, Electrical Repair, Workshop Practice, Electronics Hardware Repair. The program is part of NIST contribution for social justice for the economically weak students of the society. The programme was coordinated by Mr. Asesh Kumar Tripathy, EOP Coordinator. The sponsored candidates were trained in Workshop Practice, Electrical Repair & Maintenance, DTP, Solar Energy Equipment, Mobile Repairing, etc.

NSS ACTIVITIES

- The student volunteers of NIST NSS Unit organised a Health and Sanitation Awareness Camp at Garamapeta, a coastal village 20 Kms away from NIST Campus. The student volunteers spread awareness among villagers on health issues.
- The team organised an Old Newspaper Distribution Programme at Odisha Service Centre for the Blind near Nalini Vihar, Berhampur where they donated 2500 units of old newspapers to be used braille script writing.
- NIST unit collected a sum of Rs. 10565 (Ten thousand five hundred sixty five rupees) through the wish tree event organised during SANKALP 2013. The collected money was donated to the blind school for their specially designed study kit.

BLOOD DONATION CAMP AT NIST

The institute organised a Blood Donation Camp in the college premises. The event was a joint venture of NSS (Berhampur University) division of NIST and Govt. Blood Bank, MKCG College and Hospital, Berhampur. Students and faculty members of the institution donated blood in large numbers. At the end of the day the institute recorded a triumphant 502 units of donated blood.
PARASAILING AT NIST CAMPUS

NIST in association with National Adventure Foundations (Odisha Chapter) conducted Parasailing for the students, staff, and faculty members of NIST on 7th and 8th February 2014 at NIST cricket ground. A parachute towed behind a jeep carried the parasailers hundreds of feet into the sky. Hundreds of NISTians enjoyed the sport.

10TH ASIM MEMORIAL ENGINEER’S CRICKET CUP

The 10th Asim Memorial Engineer’s Cricket Cup tournament was organised by NIST at the College Cricket Ground. The participating teams were GIET, Gunupur; VITAM, Berhampur; PMEC, Berhampur; COEB, Bhubaneswar; SMIT, Berhampur; RIT, Berhampur; APEX, Bhubaneswar; and the host institute, NIST. NIST won the Champions’ Trophy in the finals defeating GIET, Gunupur by 3 wickets.

4TH ARGONAUTS TROPHY-2014

The Institute organised an Inter College Basketball Tournament ‘ARGONAUTS TROPHY’ as part its Annual Sports Meet. The participating institutes were COEB, Bhubaneswar; GIET, Gunupur; IGIT, Sarang; VITAM, Berhampur; PMEC, Berhampur; GEC, Bhubaneswar; TRIDENT, Bhubaneswar. GIET, Gunupur won the tournament.

VOLLEYBALL COACHING CAMP

A volley ball coaching camp was organised from 5th to 21st September 2013 in the college campus. Around 15 students from different batches participated in the camp. Coach, Mr Bhima Sahoo, of Berhampur trained the students at NIST volley ball court during 3:30-6:00pm every day. The programme was coordinated by Mr Vinay Kumar Das, Students Activity Centre Coordinator.
NIST WON RIT PREMIER LEAGUE 2013

NIST staff and faculty team won the RIT Premier League 2013 organised by Roland Institute of Technology, Berhampur during 20th to 22nd December 2013 at RIT cricket ground. Six engineering colleges participated in the tournament and the final match was played between NIST and GIET. Mr Brindaban Baliar Singh was declared Man of the Match for his splendid performance in the match. Mr Vinay Kumar Das, Coordinator, SAC played in the tournament as the skipper of the NIST team coordinated by Mr Anisur Rahman, Associate Prof., Dept. of Information Technology.

TREKKING CAMP 2014

A 15-km trekking on the sea-line of Bay of Bengal from Ramiaha Patnam to Dhabaleshwar Temple was organised by NIST Students Activity Centre on 12th January 2014 where around 320 first year students, staff, and faculty members participated. The trekkers were provided with T-Shirts, Caps, and Food.

YOGA AND AEROBICS FOR NIST FACULTY AND STAFF

A fifteen-day Yoga and Aerobics session was organised for the faculty members and staff of the institute at the college yoga centre. Many staff and faculty members participated in the programme and tried to release their work stress. Separate sessions on Health Management and Stress Management were also organised for the faculty and staff of NIST.

National Institute of Science & Technology, Berhampur, 761008
MAHANADI RIVER RAFTING EXPEDITION

The National Adventure Foundation, Odisha, Chapter organised a Mahanadi River Rafting Expedition from 15th July to 20th August 2013 at different routes in Odisha on Mahanadi River. Ten students of NIST participated in the expeditions from Boudh through Sitamali, Bhatarika to Banki, Cuttack. In this three day programme students got an opportunity to raft around 160 kms covering five districts of Odisha like Boudh, Phulbani, Dhenkanal, Khurda and Cuttack.

ANNUAL INTRA-COLLEGE ATHLETIC MEET 2014

The Institute organised the Intra-College Athletic Meet-2014 at the college athletics ground. The events include: 100 Mtr Race, 200 Mtr Race, 400 Mtr Race, Relay Race, Shot Put, Discus Throw, Javelin Throw, High Jump, and Long Jump. A high voltage play, the NIST Football Tournament, for the first time, was also held between Director’s XI and the Students XI which was won by the latter. The result of the meet is as follows: