The National Institute of Science & Technology (NIST) was born out of a dream of its founders to bring the latest engineering education, technology trends and research of the top Institutes of the world to the doorsteps of the deprived youth of Eastern India. Before 1996, thousands of students had to move to other parts of the country to seek doubtful quality education. Not anymore. NIST has been a benchmark institution in Eastern India right since its inception in 1996 as a quality undergraduate and post graduate education provider. The crowning moment of the Institute was when in the year 2012 the prestigious DATAQUEST magazine in a survey among top engineering colleges of the country, placed NIST as the 31st ranked Institute at the all-India level and the 4th ranked Institute in Eastern India. NIST is a top ranked Institute in the accreditation rankings of top MNC and IT companies. In a slowing economy, the graduates of NIST have exceeded expectations and have outperformed in campus placement with an average salary of Rs. 4.0 Lacs+. Recently, I asked the 13th batch of graduating students as to what they would remember NIST for. Out came the reply, “NIST has taught us to face life with equanimity, without any fear of failure. In an uncertain world of changing parameters, NIST has taught us how to learn, unlearn and then relearn to lead a fast changing world”. That is precisely what the founders of the Institute had in mind!

NIST has been a leader in Best Practices. NIST received the Award from Government of Orissa in 2013 for being the Leader in implementing ICT (Information-Communication Technology) in top Educational Institutes of Odisha. NIST hosts an incubator for entrepreneurial ideas and has a dozen innovative fully-funded companies operating on its campus. We have the envious distinction of having 45+ faculty having graduated from IITs and more than 60 faculty with PhD degrees to lead the teaching community. We have the largest scholarship and internship program for bright students in Odisha. Our students have published and attended conferences in Bangkok, Hongkong, Malaysia, Singapore, South Africa and China.

I welcome the top rankers of JEE Mains, Odisha JEE with young, energetic, innovative minds to join NIST and explore the challenges and opportunities of tomorrow’s technology. After all, more than 3000 top-ranked students studying from 13 states all over India @NIST can’t be wrong!

This special edition of NIST e_news is an epitome of the achievements of the year 2012-13 and I thank the faculty and student editors for having published the same.

A warm welcome awaits the Batch of 2013.

Sangram Mudali

FROM THE PLACEMENT DIRECTOR’S DESK

This year has been a great year for all the Engineering colleges of Odisha. The reason being that the Biju Patnaik University of Technology has conducted the semester examinations for all the batches on time. This is a great achievement for the University as well as the Engineering colleges. Also the University has announced that they will conduct all the examinations and declare the results on time from now onwards. This will improve the academic performance of all the students tremendously. It will also bring the performance of the Engineering students at par with the Top colleges of the country. This positive step taken by the University was the need of the hour. This change will make the students very enthusiastic and positive. The improvement in academics will lead to the better job opportunities for the students.

NIST has been offering summer courses to the students in specialized technology areas. These courses are designed as per the requirements and feedback received from the Industries. The alumni of NIST have appreciated these courses very much. We are offering 15 different summer courses during this month for the students of NIST. These certification courses will help the students find some of the best jobs in the Industry.

We are hoping that the job opportunities will be bright for the students during the forthcoming academic year. I recommend all the JEE toppers to choose NIST which is the premiere Institute of Odisha. NIST was ranked by Dataquest as 31st in India and 4th in Eastern India. Congratulations to Infosys for bringing back their founding Leader Mr Narayan Murthy as the Chairman.

Geetika Mudali
FROM THE EDITOR’S DESK

Engineering, over the past decade, has become the career of choice for many students after they pass their Intermediate in science. The reason being, i. seats in engineering colleges number about 35 times more than those in medical colleges in the country (two very prominent and known professional courses), ii. soon after engineering, at the age of 21/22, a student, sitting in a plush office somewhere in the country or abroad, can earn handsome salary offered by many software companies (no need to wait till your hair goes gray before becoming a millionaire as in case of a doctor or lawyer), and iii. doing graduation in literature, humanities, social sciences, basic sciences or any other subjects will not make you hot property in the job market. I wonder if there’s anyone who does engineering for the sheer love of the subject like Aamir Khan in Three Idiots (exceptional students, excuse me).

I 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 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 (not in terms of placements), be in the safest hands of faculty members who can show you the right path, and choose the discipline of your choice (do not join the flock of sheep) that will help you nurture your passion and bring you satisfaction and happiness at the end of each day (not to worry the hefty pay cheques).

Dipti Ranjan Lenka

The National Institute of Science & Technology (NIST) was established in the year 1996 by a group of academicians educated in the top Institutes of India & abroad with the mission to “create engineering minds capable of mastering the global challenges of tomorrow’s technology”. The Institute is approved by the AICTE (under MHRD, Govt. of India) and is affiliated to Biju Patnaik University of Technology (BPUT), Odisha. The founder Director, Prof Sangram Mudali is B.Tech from IIT Kanpur (1985) & MS from Univ. of Houston, USA (1987). The Co-founder & Placement Director, Prof (Ms) Geetika Mudali is B.Tech from Osmania University & MS from New Jersy Institute of Technology, USA.

FACULTY SCHOLARS: Within a short span of 17 years, NIST has produced 4 BOYSCAST scholars, 3 FullBright Scholars, 4 Samant Chandrasekhar Young Scientist Awardees, 3 URSI Young Scientist Awardees and more than 20 Post doctorate scholars.
[Image 7x5 to 101x131]

**PUBLICATIONS:** The faculty members of the Institute are alumni of IITs, IISc, ISI, Jadavpur Univ., etc. They have published more than 150 journal papers in refereed journals and are authors of about 20 books published by reputed publishing houses.

**PLACEMENTS:** More than 1500 students got placed in the Top IT & CORE Companies in the last three years.

**GOLD MEDALS:** NIST graduates have bagged three university GOLD MEDALS which was awarded to them in the Convocation on 12th August 2012.

**GATE EXAM:** 76 Students qualified with more than 90 percentile

**SCHOLARSHIPS:** Economic Hardship Scholarships, Tuition Fee Waiver Schemes, Book Grant Scholarships, Shiv Shankar Biso Scholarships, Travel Grant Scholarships, Research Assistantships, M. Tech. Scholarships, Merit Scholarships, Teaching Assistantships.


**INDUSTRY PARTNERSHIPS:** CADENCE, BROADCOM, IBM, INFOSYS LTD, WIPRO TECHNOLOGIES, HCL TECHNOLOGIES, CAPGEMINI, CISCO, SAP, MAHINDRA SATYAM, EXILANT TECHNOLOGIES, ARM, Texas Instruments, National Instruments, etc.

**EMPLOYMENT ORIENTED SUMMER COURSES:** Electronic Design Automation Software Tools for VLSI/ASIC Design; Advanced Industrial Automation Technology; Embedded System and Embedded VLSI; Business Process Integration using SAP, J2EE and Rational Rose, Graphical System Design using LabVIEW, cad-CAM using Pro-E & Ansys, High Performance Computing & Algorithmic Simulations, Certification Course Cisco Certified Network Associate(CCNA); Spoken English Language course; Certification Course Introduction to ORACLE 11g : SQL, Data Warehousing, Data Mining & Business Intelligence on SAP Platform; Microsoft .NET; Interactive Multimedia Technology Basic Multimedia Tools & Games Designing; JAPANESE LANGUAGE.
Books published by NIST Faculty

1. “Enjoy Your Breath” by Maharshi Dr. Yogiraj, Founder & Chief Faculty of Hundred Years Life Club, NIST Publications, Berhampur.
5. “Probability and Statistics” by Dr. Purna Chandra Biswal, Prentice Hall of India, New Delhi.
6. “Discrete Mathematics & Graph Theory” by Dr. Purna Chandra Biswal, Prentice Hall of India, New Delhi.
7. “Numerical Analysis” by Dr. Purna Chandra Biswal, NIST Publications, Berhampur.
17. ‘Internet and Web Technology’ by Mr. K. Lakshmi Narayana and Ms. M. Aparna, Faculty, Dept. of Computer Science and Engineerin, Scitech Publications (India) Pvt. Ltd.
18. ‘C Programming’ by Mr. K. Lakshmi Narayana, Faculty, Dept. of Computer Science and Engineering, Sure Success Publications.
20. ‘Organisational Behaviour’ by Dr Ratnakar Mishra, by Himalaya Publishers Ltd, Mumbai along with his co-author Dr P. Subba Rao.

Book published by NIST Student

‘It all started when I logged in’, by Ms Suruchi Roy, B. Tech., final year by Smriti Publications, Kolkata.

E-Governance Award for NIST

In a yet another accolade, National Institute of Science and Technology, Berhampur came up on top among educational institutions that are using Information and Communication Tools for best practices. The Institute received the ICT enabled Higher Education Institute Award at the first Mega IT event, eOdisha Summit, 2013 hosted by the Department of Information Technology, Government of Odisha, in association with Elets Technomedia. The event, inaugurated by the Chief Minister Mr Naveen Patnaik, who was the Chief Guest on the occasion, was held in Bhubaneswar on March 6, 2013. Mr Damodar Rout, Minister, Health & Family Welfare, and Micro, Small & Medium Enterprises, Government of Odisha, presented the award to the Institute in a grand ceremony. Mr Bhawani Shankar Pattnaik, Associate Professor, Department of Computer Science, NIST, and Director of NIST Technology Consulting Services (NTCS) received the award from the Hon’ble minister on behalf of NIST.
Certificate of Merit

NIST received a certificate of merit as recognition by the British Council for training over hundred students to take the BEC examination during the session 2011-2012.

DST Grant for NIST

NIST has received the new FIST (Funding for Infrastructure in Science & Technology) grant from the Department of Science & Technology, New Delhi. The proposal was presented by Dr Ajit K. Panda in collaboration with Dr S. N. Sahu before the FIST committee in Bangalore recently. The FIST Grant is to the tune of Rs. 1.2 Crore which will include highly sophisticated equipment for teaching and research in VLSI, Communication Technologies, Antenna Development, Embedded Systems, Materials Science including sophisticated equipment such as STM, FTIR for Nanotechnology research. This award is a highly competitive and NIST bagged it based on its excellent track record and the presentation by the team.

Visit of Taiwan Professors to Campus

Prof Kuei-Hsien Chen and Dr Chia-Chun Chen, Faculty members, Institute of Atomic and Molecular Science, Academia Sinica, Taipei, Taiwan visited the NIST Campus to further the research in nano science and technology as per the MoU signed between NIST and Academia Sinica. The Professors delivered lectures for the benefit of faculty members and students at LHC 306 on November 18, 2012. Students interested for possible MS/PhD at IAMS, Taiwan can contact Dr Sukanta Tripathy.

LAURELS

Team Member – RISAT 1

Dr Rajib Panigrahi, Faculty Member, Dept. of ECE was on the Team that designed and fabricated the India’s first indigenous all-weather Radar Imaging Satellite (RISAT-1). He has received a congratulatory email from ISRO. Also, NIST has a proposal in which we will receive RISAT images for our research work.

TESOL Certificate

Ms Tripti Mund, Faculty member, Dept. of English has completed the ELT Advantage online courses “Practical Ideas to Adult ESL/ SFL Classrooms” and “Task Based Language Teaching” mentored by Rob Jenkins and David Nunan. The certificate of the courses is offered by Teaching English to Speakers of Other Languages (TESOL), USA.

Executive Committee Member

Mr Shom Prasad Das, Course Coordinator, NIST Business School has been selected as an Executive Committee Member of the IEEE Computer Society Chapter India Council. He is the only person from Odisha and shares this coveted position with Sudip Mishra, Asst Prof, IIT Kharagpur.

Member of Editorial Board

Dr Sisir Kanti Mishra, Faculty member, Dept. of Management Studies has been selected as a member of the editorial board of “ANVESHAK”, an International Journal of Management with ISSN Number.

Infosys Campus Connect Soft Skills Trainer

Ms Nayanika Mahapatra is now a certified soft skills trainer of the Infosys Campus Connect Program. She was at Infosys BBSR DC to attend the Train the Trainer workshop from July 29th to July 31st 2012.
Certified BEC Trainers
Ms Soumya Samanta, Ms Sreeyasree Deb, and Ms Nayanika Mahapatra are now certified BEC trainers of Cambridge ESOL. They attended the two day TTT on 13th and 14th August 2012 at CV Raman Institute of Technology, BBSR. The TTT was conducted by British Council, Chennai. These faculty members along with Ms Sreta Patnaik attended the one-day refresher course for certified BEC trainers at Hotel Crown, BBSR on 15th August, 2012. With them there are now thirteen BEC certified trainers at NIST.

NIST Faculty Members as Soft Skill Trainers
Mr Dipti Ranjan Lenka and Mr Amrut Phalguni Mohanty, Faculty members, Dept. of English visited Vikram Deb Autonomous College, Jeypore as Resource Persons for a 6-Day Soft Skills Training Program. The training was imparted to the graduate and postgraduate students of all disciplines. Around 50 students attended the program.

National Photonic Fellowship Award
Ms Sonali Prava Dash, Faculty member, Dept. of ECE was selected as a National Photonic Fellow during 2012-13. This fellowship is sponsored by Department of Information Technology Govt. of India and coordinated by TIFR, Mumbai. The main objective of this fellowship is to give an opportunity to the selected fellows to get exposed to the top class Optical Labs in India for 3 to 12 months duration.

NIST Faculty Winners at Infosys
A team of Mr K. Hemant Reddy and Mr K. Laxminarayana, Faculty members, Dept. of Computer Science and Engineering, NIST bagged the 1st prize at the Regional Level Contest of INSPIRE organized by Infosys at Bhubaneswar DC on 12th April 2012. The Faculty Contest Series, Hands On was rolled out at Infosys partner colleges across the eastern India. Out of 70 projects submitted from Odisha and West Bengal, 10 teams were called for the final round at Infosys DC, Bhubaneswar. The main objective of this event was to see how projects are being developed in IT industry and what are the different deliverables at each phase.

Bharat Jyoti Award to Prof Geetika Mudali
Prof Geetika Mudali, Promoter and Placement Director, NIST has been felicitated with the Bharat Jyoti Award, the Certificate of Excellence for her meritorious service, outstanding performance and remarkable role by Dr Bhishma Narain Singh, the former Governor of Tamilnadu and Assam at a seminar on Economic Growth and National Integration organised by Indian International Friendship Society at New Delhi on 20th December 2012.

Member, Editorial Advisory Board
Dr Sisir Kanti Mishra, Faculty member, Dept. of Management Studies has been selected as the Member of Editorial Advisory Board for Asian Journal of Multidimensional Research, an International Journal by Trans Asian Research.

Nominated as Editor
Dr U. K. Misra, Professor, Dept. of Mathematics has been nominated as an editor of the American Journal of Applied Mathematics and Statistics for two years from January 1, 2013.
Outstanding Performance Award

Ms Tripti Mund, Mr Dipti Ranjan Lenka and Mr Amrut P. Mohanty were awarded by Infosys Technologies Ltd. for their outstanding performance towards Campus Connect Soft Skills Training for the year 2011-2012. Mr Debanand Kanhar, Mr Chandan Behera and Mr Hemant Reddy were awarded for their outstanding performance in Campus Connect Training in technical skills. Mr Debanand Kanhar and Ms Tripti Mund were at Infosys BBSR DC to receive the certificates.

DOCTOR OF PHILOSOPHY

Dr Ratnakar Mishra, Faculty member, Dept. of Management Studies has been conferred the Ph.D. degree for the thesis: ‘Human Rights Perspective of Industrial Displacements in Orissa’, on 2nd July 2011, by the Department of Business Administration, Berhampur University, under the guidance of Dr Rabinarayan Subudhi, KIIT School of Management, Bhubaneswar and Dr Sujata Mangaraj, Dean, Regional College of Management, Bhubaneswar.

Dr Suresh Patnaik, Faculty member, Dept. of Management Studies has been conferred the Degree of Doctor of Philosophy (Ph.D) in Business Administration on the thesis: ‘A Study on Prospects and Challenges of Indian Pharma Marketing’ under the guidance of Prof P. K. Padhy, Professor, Business Administration, Berhampur University.

Dr Rajeeb Panigrahi, Faculty member, Dept. of Electronics and Communication Engineering did his Ph. D. on the thesis: ‘Information Extraction from Polarimetric Sar Images’ under guidance of Dr A. K. Mishra, Prof., Department of Electronics & Electrical Engineering, Indian Institute of Technology Guwahati.

Dr Ranjan Kumar Padhy, Faculty member, Dept. of Chemistry completed his Ph. D. on the thesis: ‘Studies on the kinetics and mechanism of metal ion catalysed redox reactions’ under the guidance of Prof (Ms) Sreelekha Das Bhattacharya, Dept. of Chemistry, Berhampur University.

Dr Duryodhan Sahu, Faculty member, Dept. of Chemistry completed his Ph. D. in Materials Science and Engineering on the thesis: ‘Synthesis and Applications of Novel Narrow Bandgap Conjugated Polymers, Dyes and Their Supramolecular Interactions for Organic Solar Cells’ under the guidance of Prof. Hong-Cheu Lin, National Chiao-Tung University, Taiwan.

Dr Abhro Mukherjee, Faculty member, Dept. of Electronics and Instrumentation Engineering completed his Ph. D. from BPUT in the field of Dynamics and Control on the thesis: ‘Active stabilization of rotors with circulating forces with spinning dissipation’ under the guidance of Prof Sabyasachi Sengupta, Professor, Dept. of Electrical Engineering, IIT, Kharagpur and Dr Ravi P. Reddy.

Dr Trilochan Panigrahi, Faculty member, Dept. of Electronics and Communications Engineering completed his Ph. D. on the thesis: ‘On the development of distributed estimation techniques for wireless sensor networks’ from NIT Rourkela under the guidance of Prof Ganapati Panda, Professor, Dept. of ECE, NIT, Rourkela and Prof Bernard Mulgrew, Institute for Digital Communication, University of Edinburgh, UK.

Dr Sasmita Padhy, Faculty member, Dept. of Computer Science Engineering has been awarded Ph. D. in Computer Science from Berhampur University. The title of her thesis is ‘Computational Challenges in Multi Input and Multi Output (MIMO) based Wireless Networks’.

Dr Trupti Ranjan Lenka, Faculty member, Dept. of ECE, successfully defended his thesis: ‘Studies on characteristic of III-V Semiconductor based HEMT/MOSFET to use in Analog VLSI Circuits’ and obtained his Ph. D. degree from Sambalpur University under the guidance of Dr Ajit K. Panda, Professor, Dept. of Electronics and Communications Engineering and Dean, NIST and Dr G. N. Dash, Professor, Sambalpur University.
This is a matter of pride that 27 of our students are selected among the top 100 Best Speakers of Eastern India by Cambridge University, UK. The selection is done on the basis of the students’ performance in the Business English Certificates - Vantage Level Examination conducted in the institute during November 2011. These students would get a Certificate of Merit from Cambridge University.

A total number of 94 B. Tech students, 13 MCA students, and 19 Management students secured more than 9.0 in their semester examinations and have been eligible to get the Director’s Award for Best Performance in semester examinations.

Projects for TI India Analog Contest
Two of the students’ projects have been shortlisted for “TI India Analog Design Contest 2012-2013”, organised by Texas Instruments India. These projects are shortlisted for phase one. The selected projects are given below:

- “Emergency crash notification service for portable and nomadic devices” by Bhabani Sankar Nayak, Alam Shetty Murali, B. Tech., final year under the guidance of Mr. Swagat Kumar Samantaray, Faculty member, Dept. of ECE.
- “Tongue drive system using msp430” by Baidya Nath Nayak, Rupak Kumar Mohanty, B. Tech., final year under the guidance of Mr. Swagat Kumar Samantaray, Faculty member, Dept. of ECE.

University Gold Medals
NIST graduates have shown exemplary results by bagging three university GOLD MEDALS which was awarded to them in the Convocation on 12th August 2012.

The MEDAL WINNERS are:

<table>
<thead>
<tr>
<th>Name of the Student</th>
<th>Branch</th>
<th>Batch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr Debashis Sahu</td>
<td>EEE</td>
<td>2009-10</td>
</tr>
<tr>
<td>Mr Chinmaya Mohapatra</td>
<td>ECE</td>
<td>2010-11</td>
</tr>
<tr>
<td>Ms Sukanti Pal</td>
<td>M. Tech</td>
<td>2010-11</td>
</tr>
</tbody>
</table>

(The M. Tech Award is given to the Topper of all M. Tech disciplines combined. Ms Sukanti Pal is a Faculty of ECE at NIST. She is also a B. Tech, NIST and M. Tech, NIST).

IBM TGMC 2011
The IBM declared The Great Mind Challenge (TGMC-2011) project list for the first round. Only 12 teams from Odisha are shortlisted for the same out of which eight teams are from NIST. A total of 12 projects were submitted from the institute and eight got selected.
Alumni Award Distribution Ceremony

ALUMNI AWARD DISTRIBUTION CEREMONY was conducted where highly talented and innovative alumni toppers were awarded. The following is the list of Awardees:

<table>
<thead>
<tr>
<th>Name</th>
<th>Regd No</th>
<th>Branch</th>
<th>CGPA</th>
<th>Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. Tech</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chinmaya Mohapatro</td>
<td>0701202142</td>
<td>ECE</td>
<td>9.38</td>
<td>Gold</td>
</tr>
<tr>
<td>Suman Mohanty</td>
<td>0701202051</td>
<td>CSE</td>
<td>9.12</td>
<td>Silver</td>
</tr>
<tr>
<td>Itishri Dash</td>
<td>0701202023</td>
<td>CSE</td>
<td>9.12</td>
<td>Silver</td>
</tr>
<tr>
<td>K. Praveena</td>
<td>0701202041</td>
<td>IT</td>
<td>8.97</td>
<td>Silver</td>
</tr>
<tr>
<td>Abinash Tripathy</td>
<td>0701202109</td>
<td>EIE</td>
<td>8.85</td>
<td>Silver</td>
</tr>
<tr>
<td>Nishant Kumar</td>
<td>0701202306</td>
<td>EEE</td>
<td>8.55</td>
<td>Silver</td>
</tr>
<tr>
<td>M. Tech</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bhawani S. Pattnaik</td>
<td>0807202009</td>
<td>CSE</td>
<td>9.37</td>
<td>Gold</td>
</tr>
<tr>
<td>Sonali Prava Dash</td>
<td>0807202020</td>
<td>ECE</td>
<td>8.93</td>
<td>Silver</td>
</tr>
<tr>
<td>MCA</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Bijayalaxmi Sahoo</td>
<td>0805202011</td>
<td></td>
<td>8.87</td>
<td>Gold</td>
</tr>
<tr>
<td>MBA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L. Rama Kumari</td>
<td>0906202013</td>
<td></td>
<td>8.49</td>
<td>Gold</td>
</tr>
</tbody>
</table>

Best B. Tech. Project Award 2012

<table>
<thead>
<tr>
<th>Faculty Advisor</th>
<th>Category</th>
<th>Project Title</th>
<th>Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Sangram Mudali</td>
<td>Best Renewable Project</td>
<td>Hybrid Vehicle</td>
<td>Sujeet Kumar, Goutam Mishra</td>
</tr>
<tr>
<td>Dr Subhagata Chattopadhyay</td>
<td>Best Software Project</td>
<td>Neuro Simulator: A tool for neural Processing</td>
<td>A Chunmun Patro, Rakesh Kumar Sahu</td>
</tr>
<tr>
<td>Mr Swagat Kumar Samantaray</td>
<td>Best Hardware Project</td>
<td>Design and Development of a small scale HUMANOID using Haptics Technology</td>
<td>Sarthak Ray, Asutosh Samal</td>
</tr>
</tbody>
</table>

NIST SAP Team at National Level

SAP conducted a global exposure programme ‘SAP TECHNIVERSITY’ on 26th November 2012. Anil Kumble, Viswanath Anand, Chris Gayle were the keynote speakers for the event. The event had called for innovative ideas in the field of Meta Data, Mobility, Corporate Governance, and Social Networking. Six teams from NIST participated in the event and one of them, Apocalyse formed by Abhishek Kumar, Rajesh Pradhan and Pawan Raj Murarka reached the final round.

Electronic Diya Design Contest 2012

Mr Rupak Mohanty & Mr Baiidy Nath Nayak, B. Tech final year, EIE, participated in the Electronic Diya Contest 2012 conducted by Texas Instruments, India and created a low power electronic diya in the shape of Texas Instruments logo using msp430 launchpad and 97 LEDs.

Students Paper Presentations

Ms Tanistha Nayak, B. Tech., 8th Sem. IT student presented a paper: ‘Pushdown Automata Vs Quantum Pushdown Automata’ co-authored by Ms Basanti Meher, B. Tech, 8th Sem, Computer Science & Engineering, under the guidance of Mr Chandan Kumar Behera, Faculty member, Dept. of CSE at the IEEE International Conference on Advances in Engineering, Science and Management-2012 (IEEE-ICAESM-2012) in Nagapattinum, Tamil Nadu.

Mr Kapala Santosh, B. Tech., 8th Sem. CSE student presented a paper entitled, “Solution of Global Optimization Problem using Mutation Operator with Hybrid PSO Algorithm” guided by Dr Motahar Reza, Faculty, Dept. of Mathematics, NIST at the IEEE International Conference on Advances in Engineering, Science and Management-2012 (IEEE-ICAESM-2012) in Nagapattinum, Tamil Nadu.

Mr Madhu Sudan Kumar, M. Tech, CSE, presented a paper, “Effect of Return and Volatility Calculation on Option Pricing: Using BANKNIFTY” co-authored by Mr. Shom Prasad Das, Faculty member, Dept. of CSE and Dr Motahar Reza, Faculty member, Dept. of Mathematics, NIST in the 4th International Conference on Electronics Computer Technology ICECT 2012 jointly sponsored by IEEE and IETE Trivandum, Nagarcoil PAC during 6th – 8th April 2012.


Mr Tirtharaj Dash, and Ms. Tanistha Nayak, B. Tech, 8th Sem, Information Technology attended the 4th International Conference on Electronics Computer Technology (ICECT-2012) held at Kanyakumari during 6th – 8th April 2012 and presented a paper, “Offline Verification of Hand Written Signature Using Adaptive Resonance Theory Net (Type-1)” coauthored by Dr Subhagata Chattopadhyay, Faculty member, Dept. of CSE.

Ms Rajashree Sasamal, M. Tech, CSE, presented a paper entitled, “Sequential Mining Pattern of Granular Computing Model on Emphasis of S/W Engineering”, co-authored by Mr Rabindra Kumar Shial, Mr Chandan Kumar Behera, Faculty members, Dept. of CSE in the International Conference on Information, Communication and Telecommunication (ICICT) at New Delhi during 1st and 2nd April 2012.


Ms Nibedita Priyadarshini Mohapatra, M. Tech., CSE, presented a paper, “Fault Tolerance in Wireless Sensor Networks” co-authored by Ms Santi Kumari Behera, Faculty member, Dept. of CSE, in the National Conference on Innovative Strategies for Global Competitiveness held at RVS Institute of Management Studies and Research, Coimbatore, on 11th February 2012.

Ms Nibedita Priyadarshini Mohapatra presented a paper, “Relay Node and Cluster Head Placement in Wireless Sensor Networks” co-authored by Ms Santi Kumari Behera, in the International proceedings of Computer Science and Information Technology, ISSN:2010-460X (ICINT 2012) held on 28th and 29th April 2012 at Hotel J. P., Chennai.

Mr Bhabani Sankar Nayak, B. Tech, ECE, presented a paper, “Design of high performance CSSR based LPF using ANN and SA techniques” co-authored by Mr Subhendu S. Behera, B. Tech, CSE, NIST, Mr Pradyumna K. Patra, Faculty, Dept. of ECE and Prof R. K. Mishra, Professor, Berhampur University in the 31st International Conference on “PROGRESS IN ELECTROMAGNETIC RESEARCH SYMPOSIUM (PIERS-2012)” during 27th-30th May, 2012 at Sunway City Resort, Kuala Lumpur, Malaysia.


Mr K. Sudipta Achary and Dr Motahar Reza presented a paper, “An Investigation of Computational Efficiency in Distributed Environment using Stream Sockets and Multi threaded Programming Model in Java” in the Third International Conference on Meta-Computing (ICoMeC) 2012, held at Hotel May Fair, Bhubaneswar on 6th and 7th December 2012.

Mr K. Sudipta Achary, presented a paper, “Comparative Analysis of Workflow and Performance Characteristics in Cluster and Desktop Grid” co-authored by Mr Arkaprava Bhaduri Mandal, Faculty member, Dept. of CSE, and Dr Motahar Reza, in the IEEE International Conference on Computational Intelligence and Computing Research (ICCC), held at Taniilmadu College of Engineering, Coimbatore, during 18th - 20th December 2012.

Sankalp 2012

is one of the legendary events on the campus of National Institute of Science and Technology. Even before the students join the engineering or management course, they know about the three days of fun, interaction, learning and other possibilities in the event. This year, it was no different as the national-level Techno Management Symposium organised under the guidance of Indian Society of Technical Education (ISTE) got underway.

Sankalp 2012 had more than 300 students from various colleges across the country and an additional 2000 participating students from the host institution. Students from National Institute of Technology, Rourkela; Apex Institute of Technology and Management, Bhubaneswar; College of Engineering and Technology, Bhubaneswar; Jagannath Institute of Technology and Management, Paralakhemundi; V.S.S.U.T, Burla; Kaliganj Institute of Industrial Technology, Bhubaneswar; C.V Raman College of Engineering and Technology, Bhubaneswar; GIET, Gunupur; L.A.C.R. Rayagada, Gitam College of Engineering, Vizag and many other engineering colleges in and around Odisha.

The 10th edition of the gala event had 31 events. There were many new events such as Stelleria (constellation identification), Wizard of Astronomy (documentary quiz), Skylab (Astro Photoshop) by NIST Astronomy Club, i-home (smart home) and Quiztronics (e-quiz) By Electronics Hobby Club, Greenovation by Renewable Energy Club, The Biz (business plan) by Entrepreneurship Development Club, Gra-view-ators (Labview) and Picasso's Mezzanine (the art gallery) were also introduced. The convention had eminent speakers in the likes of Prof. Manju Ray, Emeritus Scientist of CSIR; Dr. R. K. Sharma, Prof. and former Head, Department of Mathematics, IIT-Delhi for the opening ceremony. There was a lively discussion at the end of the panel discussion on – “Can we ever build a corruption free India?” that brought in participants from Transparency International, The Hindu, Aam Admi Party, academicians and a serving government officer. There were three workshops to cater to the need of present day engineers in the areas of technology, management and environment.

The fun kept unspooling beginning with Mr and Miss Sankalp to the comic nite hosted by Nitin Gupta (Rivaldo), C.E.O at Entertainment Engineers Private limited culminating in DJ Mazzzhr taking the students down a lane of throbbing music and groovy steps. Keeping with the tradition, NIST honoured the former Vice Chancellor of Berhampur University Prof. J.K. Baral with an Award of Excellence for his service to the cause of education in South Odisha. Club Eureka had its premiere of its first short film 'Disha'. 
A Bang! and then the Blast! Save was the call. But the dynamite had to explode. The inevitable blast encumbered entire NIST assaulting its members with heavy doses of excitement, energy and entertainment. Yes we are talking about the whimsical waves 2012 that whirled around like a tsunami, whelmed the entire NIST in its gigantic whirlpool of exuberance and exultation and finally waned away leaving tranquility and serenity all around. The aura was resplendent with hues of spring palette, the fire of passion was inflaming, the glee and enthusiasm was snowballing, the river of excitement and zeal was flowing unrestrained in entire campus of NIST and intoxication had begun! Finally after 1 year of prolong wait it was time to extricate anxiety forget the load the academics and unveil the real self of you.

Waves-2012 justified its conduction by divulging the talents, unfathomable perseverance and boundless determination of students as well as faculty members in extra-curricular like sports, dance, songs, skits etc. Entertainment and relaxation became motive of Waves – 2012. Sports like LAWN TENNIS, BASKET BALL COMPETITION (boys and girls), VOLLEY BALL COMPETITION, and CRICKET held between staff & faculty members versus students revealed the athletic skills and team spirit.

Melodious SONGS sung by students rooted the audience to their chairs and brought them into an enervate state. Jazz and hip-hops exacerbated the addiction of audience to the entertainment and everyone stood up shaking wildly. Our very own Band NMS let the audience sink into the melody dipped musical notes. SKITS and MIMICRY played major role in removing the worries and burdensome life of engineering and spreading laughter. Innovation was flourishing. But Hey! That was not the end. The “Hutkay – the creative canvas” displaying the handicraft galore and the graffiti by students was of a different taste. The cooking competition by teachers and students and the ‘Fun on the Run’ became the cynosure of entire show.

Their motive was to depict different attitudes, approaches and variety of teachers and they were successful in it. The FASHION SHOW by STUDENTS completely drowned us in the immense depth of razzmataazz. It was based on the central idea of Bollywood dressing? That is different style of dress-up in different times and types of Hindi cinema.

The plethora of razzle-dazzle that was flowing in entire campus of NIST finally came to an end. The blast was over and college was entombed in stark silence and lull. The regular college life routine started. We started attending 100 minutes classes, teachers in same flow engaged in course completion and we same way complaining about hectic schedules of NIST.

But the enjoyment and thrill which sustained in our hearts for two days has left us vividly thinking about it. But don’t worry it’s said good things never end. So wait! Next year promises us a better and bigger blast. WAVES – 2013. Till then keep enjoying your regular classes and keep envisaging the next Waves with promising features. Enjoy!
AICTE Sponsored SDPs at NIST

Recent and Future Trends in Industrial Mathematics for Engineers

Department of Mathematics, NIST organized a 5-day AICTE Sponsored Staff Development Program on “Recent and Future Trends in Industrial Mathematics for Engineers” during 20th – 24th March 2012. The program had host of luminaries from top academic institutions of the country. The 50 participating candidates from different institutions of the country were exposed to various facets of Industrial Mathematics.

Emerging Trends in Business Communication and the Methods of Teaching

Department of English, NIST organized a 5-day AICTE Sponsored Staff Development Program on “Emerging Trends in Business Communication and the Methods of Teaching” during 20th – 24th March 2012. A galaxy of eminent resource persons from top institutes of the country and corporate houses delivered their talks on different aspects of Business Communication and the emerging trends in teaching methodologies. Around 50 delegates from various colleges of Odisha, Jharkhand and Andhra Pradesh participated in the program.

Workshops/Conferences/Trainings at NIST

3rd Indo-US Workshop on Nanosensor Science & Technology

The 3rd Indo US International Workshop on Nanosensors Science and Technology (IWNST 2013) was organised by NIST in collaboration with US Navy from 27th February to 1st March 2013. Dr B. Ratna from US Navy inaugurated the workshop in presence of the patron Prof Sangarm Mudali, Director, NIST. Speakers from the US, Japan, France, Taiwan, Sweeden attended this
workshop came to an end with the Best Poster Award ceremony. A number of research students from India and abroad presented their papers at the workshop. Prof Geetika Mudali, Co-Chairperson, Prof S. N. Sahu, Convener and Dr Sukanta Tripathy, Dr Arun Kumar Padhy, Co-Conveners along with the organising committee, IWNST-2013 made the workshop a grand success.

**National Workshop on the Fundamentals of PSCAD**

The Department of Electrical & Electronics Engineering, NIST conducted a National Workshop on ‘PSCAD & General Applications’ in collaboration with Nayak Power Systems Pvt. Ltd. Bangalore from 19th to 21st Nov 2012. Participants from different engineering colleges of the state (Centurion University, CV Raman etc.) participated in this workshop. Mr Aswin Damle was the facilitator of the training session deputed from Nayak Power Systems Pvt. Ltd., Bangalore.

**National Conference on HPCS**

NIST hosted the first of its kind, two-day National Conference on High Performance Computing and Simulation at its Berhampur campus on January 18th and 19th, 2013, where a galaxy of international gurus from academia and industry threw light on the way High Performance Computing and simulation is evolving and where it is headed. “Size doesn’t matter. Performance does,” said Prof Y. C. Tay of National University of Singapore as he spoke about building bridges between academia and industry in his keynote address at the NIST Auditorium on Friday morning. Dr Nandini Mukherjee, Director, School of Mobile Computing and Communication, Jadavpur University, Dr Rajib Mall, of Department of Computer Science and Technology, Kharagpur, Dr Sudarshan Padhy, Director, Institute of Mathematics and Applications spoke about the various research avenues and applications of HPC.

**Workshop on PLANAR ANTENNA**

A Workshop on PLANAR ANTENNA was organised as a part of the Outreach Program by IEEE AP MTT Joint Chapter Kolkata Section at National Institute of Science & Technology on 22nd and 23rd September 2012. Many experts like Dr K. P. Ray, SAMEER, Mumbai, Dr P. H. Rao, SAMEER, Chennai, Prof Debatosh Guha, IRPE, Kolkata, Prof Bhaskar Gupta, Jadavpur University, Dr Rowdra Ghatak, NIT, Durgapur, Prof R. K. Mishra, Berhampur University along with Prof Niranjan Das, NIST addressed on various current topics in the field of Microstrip Antenna including various CAD models. Total 45 delegates from NIST and KIIT University, Bhubaneswar participated in the workshop.
The Challenges of Teaching English to Engineering Students

The Department of English organised a 1-Day workshop on ‘The Challenges of Teaching English to Engineering Students’ sponsored by Oxford University Press, New Delhi, on 15th February 2012. Dr Meenakshi Raman, Prof., and Head, Dept. of Humanities, BITS, Pilani, Goa Campus and Dr E. Raja Rao, Prof., Dept. of English, NIST delivered talks on the topic to around 40 delegates from different engineering and management institutes of the state of Odisha and the neighbouring states. During the panel discussion on the topic, participants shared their practical classroom problems and an effort was made to bring out the solutions to face the challenges of teaching English. Ms Tripti Mund coordinated the program.

IEEE-EDS Mini Colloquium

The NIST IEEE-EDS Students Chapter organised a Mini Colloquium on ‘Nanoelectronics’ on 9th April 2012 at the institute auditorium. IEEE-EDS distinguished professors, Prof Renuka P. Jindal, EDS President, University of Louisiana, Lafayette, USA, Prof M. K. Radhakrishnan, EDS Region 10 SRC Vice-Chair, Nanorel, Bangalore, Prof C. K. Sarkar, Dept. of ECE, Jadavpur University, Kolkata delivered lectures on different aspects of Nanoelectronics and VLSI.

Workshop on AAKASH for Education

NIST was selected as one of the Remote Centres under the NMICT program conducted by IIT, Bombay. Initially a demo and workshop of the low-priced educational tablet Aakash was conducted. The programme was conducted by IIT-Bombay under National Mission on Education through ICT (MHRD, Govt. of India). A number of NIST faculty members participated in the workshop-cum-demo sessions on 10th and 11th November 2012 where experts from IIT-Bombay demonstrated and showed the knowledge-oriented applications that are possible on the Aakash tablet. Sixty-four faculty members and staff participated in this two-day workshop which was conducted simultaneously at 250 different colleges of India using A-view software.

DST INSPIRE Science Camps

NIST organised the Department of Science and Technology (DST) sponsored INSPIRE Science Internship Program for the top 1% +2 Science students of the State, based on their Class 10th marks, during 27th November to 1st December 2012 and during 21st – 25th January 2013. Around 600 students from 40 schools of the state participated in the program. Eminent scientists and academicians, Shanti Swarup Bhatnagar Awardees inspired the students during the five-day event. Besides the intellectual input the students also got exposed to various club activities and competitions including the PISA (very similar) Test. The programme concluded in a grand closing ceremony, followed by prize distribution. Prizes were given away by the chief guest to students who emerged victorious in the various competitions organised by the Institute as part of the programme.
Workshop on Microsoft Technologies

The NIST Training and Placement Cell organised a Technical Workshop on various Microsoft Technologies like Windows 8, Cloud Computing, Windows Azure, Windows Phone, Xbox Kinect etc. on 22nd February 2013 at the auditorium. Mr Nilabh Verma, Trainer-Denave, Noida conducted the workshop. The pre-final year students of B. Tech. and MCA participated in the event.

Training Programme on ProE and Ansys Tools

The Institute has set up a CAD/CAM Laboratory with 45 machines and has procured ProEngineer and Ansys Tools for the same. As per the requirement, the company provided training program on both the platforms during 6th - 18th March 2013. All the faculty members of Mechanical and Electrical Branch attended the training program.

Employment Oriented Programme 2013

The Employment Oriented Programme (EOP) is a unique effort that provides a platform to unemployed youth of Odisha. Being the brainchild of Prof Sangram Mudali, Director NIST, it caters to skill improvement of local youth. Every year, around 100 students in six different branches get trained by highly skilled teachers in their respective areas. This year, the 8th batch of EOP students was admitted into the course. Each participant is given books and study material; lunch and transport are free. The institute also provides a monthly stipend of Rs. 1100 to all the candidates. The course is currently run under Entrepreneurship Development Cell (EDC) of NIST. Mr Asesh Kumar Tripathy, Faculty member, Dept. of Computer Science is coordinating the programme.

10th Anniversary Celebration, NIST e_news

The nist e_news celebrated its 10th Anniversary on 26th April 2012 in the institute auditorium. Mr Biswajit Mohanty, Secretary, Odisha Wildlife Society, and Board Member, Greenpeace India being present on the occasion as the Chief Guest highlighted the issues of corruption, RTI, Wildlife and others. Dr Bhavani Prasad Panda, Professor, Law, Berhampur University, graced the occasion as the Guest of Honour. The youth forum organised on the topic, “Are Youth driving Social Awareness?” could invoke the sense of individual dignity and the duties and responsibilities of being the citizen of the country.

IBM WID Training

IBM Web Sphere Integration Developer V6.2 Solution Development training was held for B. Tech 3rd year, 4th year, MCA 2nd year and 3rd year students of the institute at the IBM Center of Excellence Lab during 21st – 24th February 2012. Around 65 students and 5 faculty members attended the training program delivered by Mr. Chinmay Saraswat, Resource Person, IBM.
3rd PGDM Convocation

The Third PGDM Convocation of NIST Business School was conducted on 11th August 2012 with gusto and enthusiasm. The ceremony was officially inaugurated by the Director, NIST, Prof Sangram Mudali in the presence of Prof Geetika Mudali, the Placement Director and Founding Member, NIST, the Chief Guest Prof Aditya Prasad Padhi, Former Vice Chancellor, Berhampur University and the parents of the graduating students, faculty members and all the students of the Business School. Ms Dipti Rekha Dalai, the topper of the PGDM Programme for 2010-2012 with a CGPA of 9.03, was felicitated with a Gold Medal and a Certificate by the Chief Guest. All the students were then conferred with the Degrees by the Chief Guest.

Orientation Course, B. Tech. 2012 Batch

Marking a departure from the usual orientation programmes, NIST organised a series of lectures for its Orientation Course for the B. Tech. students of 2012 batch. The purpose was to expose the prospective engineers to all facets of life and society. Well known gurus from different subjects like Economics, Political Science, Linguistics, Ethics, Literature, Environment, NGOs role in the Society, Entrepreneurship, Defence Service, Film Studies, Painting and Fine Arts gave the students a new perspective of studies and life.

Infosys Spark Program

Infosys organised the Spark Program at the institute for the students of B. Tech, and MCA. The aim of the program was to raise the aspirations of the students to a new high by exposing them to IT, helping them understand the relevance of IT in business, and helping them sow the seeds to a dream career. The resource persons from Infosys, Mr Swastik Choudhury, and Ms Arati Patra (both NIST alumni), through the Infosys story and the Infosys experience demonstrated the possibilities of dreaming and making dreams come true. Efforts were made to identify the students’ hidden talents and awaken their potential to excel. Interaction with senior Infosys employees exposed the students to current trends in the IT industry.

NIST Students at Energy Conservation Workshop

The National Productivity Council conducted a workshop on “Energy Conservation” on 12th March 2012 at UCPES, Berhampur. The NIST students participated in the technical paper presentation organized under the same banner. NIST students grabbed all the prizes of the competition. The winners are:

Winners: Akash Banerjee
          Sabyasachi Panda

1st Runners-up : Swati Mishra
2nd Runners-up : Swaroop Raut

Subrat K. Nanda

Apart from that Abhipsa Dash, Priyanka Mohapatro, Pragyan Parimita Sahoo, Iftikar Hussain, Rajiv Ranjan also participated in the program. The students were accompanied by Mr. B. P. Pattnaik and Mr. Arabinda Panda, Faculty members, Dept. of EEE.
High Performance Computing (HPC) Lab

The institute installed a High Performance Computing (HPC) Lab with the help of TIS Lab, Kolkata, to enable students work efficiently on many of their projects. Four Dell Power edge Rack Servers were used to setup the lab. Cent OS was used as operating systems with other HPC tools. This lab is primarily used to write parallel and distributed computing based programs. At present around 10 B. Tech project groups are using the lab for developing their projects in OpenMp/MPI. Mr Kaushik Goswami, and Dr P. A. Sreeram, TIS Lab, Kolkata, demonstrated the various functioning of the very lab equipment.

Wipro Mission10x Technology Learning Center

The first functional Wipro Mission10X Technology Learning Centers (MTLC) came on-line on Monday, 25th March 2013 at the National Institute of Science and Technology, Berhampur. This prestigious project supported by WIPRO is one among the 25 such centers across the country.

This MTLC would equip students and researchers with multi-domain knowledge and hence prepare them to meet industry requirements. The inauguration of this lab opens up opportunities for researchers across the country, besides the students and faculty members of NIST, to use this facility for research, project purposes and collaborative effort.

Smart Classrooms at NIST

For advancement in Information and Communication Tools enabled teaching, NIST has set up five smart classrooms in the campus. These e-classrooms are being set up in collaboration with Pearson Education. All the faculty members of NIST underwent a one-week training session and had hands-on experience with the new software and hardware tools that will aid the teaching and learning experience. In due process, the other classrooms will also be ICT-enabled.
5th Inter-School Literary Competition – 2012

Club Eureka’s annual jamboree turned out to be a grand affair with over 300 students from 18 schools in and around Berhampur participating with all gusto on December 9, 2012. The 5th Inter-School Literary Competition gave an opportunity to the young ones to showcase their talent in debate, essay writing, poetry, collage, poster presentations and other events. This time the students of St. Vincent’s Convent School grabbed the Champions’ Trophy by winning the highest number of prizes, especially 1st prizes. They broke the record of De Paul School - the champions for the last three years. The chief guest of the event Dr Ram Narayan Panda, HOD, PG Dept. of English, Berhampur University, gave away the prizes.

NRC Summer Workshop

NIST Robotics Club (NRC) organised a Summer Workshop on Robotics for school children from 1st of June to 14th of June 2012. This was the 7th consecutive year that the club organised such a workshop. Top five students from all the schools in and around Berhampur were eligible to participate. The students learnt the basics of robotics and its applications, LEGO Robotics, electronics, manual and automatic robotics concepts in the workshop. All the expenses of the workshop were borne by the institute. A total of 55 students from De Paul School; St. Vincent’s Convent School; V. V. Giri GSTS for Women; Biswanath High & Technical School; Anchalika Balika High School; Saraswati Sishu Vidya Mandir; P. M. High School; Bani Shree Vidya Mandir; Sai International, Bhubaneswar; DPS, Damanjodi and DPS, Kalinga participated in the workshop. The programme was administered by Mr Swagat Samantaray, Faculty Advisor, NRC along with the other club members.

Workshop on Film Making

The NIST Multimedia Club organized a one-day workshop on 14th May 2012 on Film making. Mr Tapan Mandal, a Film Composer, from Hyderabad Film City demonstrated the filmmaking tools to students of NIST. Ms. Rita Gajjar and student volunteers helped in running the event smoothly and successfully. More than 200 students across all branches, semesters and degrees participated in the event. Adobe After Effect was also demonstrated to the students. The participants learnt a lot about the challenges in making a movie. The most interesting part was live film shooting for a double role. Mr Tapan showed the participants how double role clips are being taken independently and then composed with the help of After Effect Software. Mr Debananda Kanhar, Faculty Advisor, Club Multimedia coordinated the event.
ROBOTICS WORKSHOP

A workshop on ‘Start Robotics Pro’ was organized for the benefit of B. Tech & MCA & M. Tech first semester students. It was jointly organized by NRC (NIST Robotics Club) & K. Technologies. It introduced the concept of robotic arm to manual robot for picking and grabbing mechanism to over 170 enthusiastic students. NRC also conducted manual workshop for 3rd semester B. Tech & MCA students on October 9, 2012. Over 142 students participated in the workshop and used their learning for competing in the Sankalp robotics contest.

GREENOVATION: Green Month Celebration

To mark the first step towards going green, Renewable Energy Club, NIST celebrated the month of November as “The Green Month” under the banner “GREENNOVATION” in the campus including its hostels. As part of the programme several events were organised including Social Outreach, Stage Craft, Quotes to sustain, GreeNISTians. Repurpose, etc. Members of the club and its volunteers organised a clean-up programme in and around the campus where the students installed waste bins to maintain cleanliness in the institution and its peripheral areas. Faculty members and students were educated on the need to follow 3Rs: Reduce, Reuse and Recycle. The volunteers staged short plays to spread the message about the need for going green. The Club has been working with Sunmoksha, Bangalore on various green conversion processes in the campus which will be implemented in near future.

NIST Robotics Club at ROBOCON 2013

NIST Robotics Club (NRC), the only contender from Odisha, participated in the ROBOCON 2013 during March 2013 held at MIT, Pune. ROBOCON is a national level contest jointly organised by Doordarshan and MIT, Pune. In ROBOCON 2010 NIST won the National Award for BEST IDEA for design of Robot. This year the theme of ROBOCON 2013 was ‘Green Planet’. A total of 78 colleges from the country participated in this mega event including IITs and NITs. Mr Swagat Samantaray, Faculty Advisor, NRC along with a team of 17 students from B. Tech pre-final year and final year represented NIST at this event.
At NIST

- The IEEE-EDS NIST Students Chapter organized a Seminar talk on 10th January 2012 where Dr Shinji Nozaki, University of Electro-Communications, Japan delivered a talk on MOS device characterization on the topic, “Zinc Oxide Nano-Rods Grown by the Hydrothermal Technique and their Selective Growth”. NIST signed an MOU with University of Electrocommunications, Japan.
- Mr Santosh Kumar, CEERI, Pilani delivered talks on VLSI for Wireless Communication, RF and Mixed Signal IC Design, Communication System Design to all M. Tech students during 10th – 14th January 2012.
- Mr Kanhu Charan Behera, CEERI, Pilani and Ex-Faculty, NIST delivered talks on RF IC Design (ADC & DAC) during 16th - 21st January 2012.
- Prof Rutu Parna Panda, VSSUT, Burla, delivered talks on Adaptive Signal Processing during 22nd - 24th January 2012.
- Dr Abinash Panda, Associate Vice President (Learning and Development), Adani Enterprises Ltd., Ahmadabad delivered a Seminar Talk on ‘Leadership Qualities; Transformed Now-a-Days’ on 23rd February 2012 at NIST Conference room. Dr. Panda has an illustrious background ranging from XLRI to overseas assignments to Adani now. He delivered a talk comprised of a survey that showed the varied facets of leadership qualities of modern day entrepreneurs.
- Dr Anil K. Rajvanshi, founder Director of the Nimbkar Agricultural Research Institute (NARI), Maharashtra delivered a talk on ‘Social Entrepreneurship’ on 30th January 2012.
- Prof S. S. Pattnaik, NITTTR, Chandigarh delivered a talk on “Heart to Brain Communication” on 28th June 2012.
- Dr Ashok K. Das and Dr. Saumen, Sunmoksha Technologies, Bangalore delivered talks on “Renewable Energy, Smart Grid and related areas” on 3rd September 2012. They also had interaction sessions with all the students who were interested in the related area. Dr Das is an alumnus of IIT Kanpur, and Ph. D from University of Southern California, Los Angeles.
- Dr Kabi Prasad Misra, Director, Apollo Hospital, Bhubaneswar, a renowned thinker and speaker on spiritualism, delivered two talks, ‘Life of a Legend’ - the very inspiring life of Dr. Ben Carson, Director, Johns Hopkins University, USA and ‘Moon Landing and the Mother Earth’ - a presentation on the first journey to the moon and the scenic beauty of earth rising from the moon to the students and faculty members of NIST on 17th December 2012.

By NIST Faculty Members

- Dr Mihir Hota, Faculty Member, Dept. of Physics delivered an Invited Talk on “Nanotechnology and its impact on Society” at National Conference in Nagaland held by Agricultural University (Nagaland Central University) on 18th February 2012. The conference was organised by Department of Chemistry, Patkai Christian College ( Autonomous) in collaboration with School of Agricultural Science and Rural Development, Nagaland University.

NIST Summer Research Internships & Fellowships

The Institute has initiated a Summer Research Internships and Fellowships Program for faculty members and students from all over India. The aim of the program is to facilitate talented student interns/faculty to work under the guidance of highly experienced research professors resulting in R & D publications, Term Papers, innovative B. Tech. Projects, Ph.D Topics, etc. Faculty member with M. Tech or Ph. D degree and final year or pre-final year students of B. Tech/M. Tech/MCA/M.Sc. are eligible to enroll for the program. The duration of the program is 2 months and is tentatively starting from May/June, 2012. The enrolled candidates would get a stipend of Rs. 1200/- per month in addition to free boarding & lodging. Their travel expenses would also be reimbursed.


NIST is a DSIR, Government of India, certified and recognized R&D Center. NIST is the only TIFAC CORE Center of India funded by Department of Science & Technology in 3G/4G Communications.
9th Asim Memorial Cricket Cup

The “9th Asim Memorial Engineers Cricket Cup-2013” tournament was hosted by National Institute of Science and Technology. The tournament was played between CV Raman College of Engineering, Bhubaneswar, G.I.E.T., Gunupur; GITA, Bhubaneswar; SILICON, Bhubaneswar; CEB, Bhubaneswar; SMIT, Berhampur; RIT, Berhampur; APEX, Bhubaneswar; and NIST, Berhampur. Students of CV Raman Engineering College, Bhubaneswar and GIET, Gunupur shared the Trophy of the 9th Asim Memorial Engineers’ Cricket Cup – 2013.

3rd Argonauts Trophy-2013

As a part of the Annual Sports Meet, the Institute organized the 3rd Inter College Basketball Tournament, ‘ARGONAUTS TROPHY’ in the Campus. The institutes, COEB, Bhubaneswar IGIT, Sarang, RIT, Berhampur, SMIT, Berhampur, VIGNAN, Berhampur, SILICON, Bhubaneswar, KEC, Bhubaneswar, NIST, Berhampur participated in the tournament. NIST Team-A won the 3rd Basketball Tournament defeating Silicon, Bhubaneswar in the finals.

Parasailing @ NIST

National Adventure Foundation, Odisha Chapter organized a two-day parasailing event at the NIST campus on 27th and 28th April, 2012. Around 250 students, staff and faculty members experienced the joy of parasailing as they stayed in the air strapped to a colourful parasail at a height of between 50 and 300 ft over the NIST cricket ground. The event was coordinated by Mr. Vinay Kumar Das, Coordinator, Students Activity Center.

Lawn Tennis Coaching Camp @ NIST

A lawn tennis coaching camp was organized during 4th - 12th May, 2012 in the institute campus at its lawn tennis court. Around 120 students participated in the training program. Md Rafuique of Ranchi oversaw the training program.

Mini Trekking

A mini-trekking expedition was organised on 10th March 2013 from Ramaihya Patnam to Markandii on Sea for the 1st year students of the Institute. Around 135 students, staff, and faculty members participated in the trekking programme. All the trekkers were provided with T-shirt, cap, Refreshments and lunch by the institute. The programme was arranged and coordinated by Mr Vinay Das, Coordinator, Students, Activity Centre.

KIIT Basketball League

The NIST team participated in the KIIT Basketball League and grabbed the third position. NIST Basketball team won its matches against KIIT-B, XIMB and KEC in the league but lost to ITER, Bhubaneswar in the semifinal match. The team received a Trophy and a cash award of Rs. 2000.

Winners at Ansalonae

Ms Subhashree Pattnaik and Mr Deepak Ranjan Panda, B. Tech., 4th Sem., attended the Tech Fest, Ansalonae 2012 organized by Parala Maharaja Engineering College, Berhampur from 16th – 18th April 2012 and participated in the inter college coding competition, Codes Splash (C-Coding) and got the first prize along with a cash award of Rs. 2000.