Editors

Mr. Dipti Ranjan Lenka

Advisors

Prof. Sangram Mudali
Dr. Ajit K. Panda
Ms. Geetika Mudali

SANKALP 2012

embellish the future...

29th Nov to 1st Dec 2012

www.sankalp2012.com

National Institute of Science and Technology
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FROM THE DIRECTOR’S DESK

The biggest events on the campus in the last one month were all about Placement. I must congratulate the Placement Team of Mr. Atanu Dutta and Dr. Sudhir Panigrahy under the able leadership of our Placement Director, Prof Geetika Mudali, who have done wonders inspite of a slowdown in the IT industry. Students of the final year are well advised to keep the gunpowder dry as more companies are lined up in the near future to visit our Campus.

Putting all the eggs in one basket is, however, not a great idea. Global economic cycles have their turns and twists and this year is one of them. After a few years of economic expansion we are seeing a possible slowdown in the overall economy. That is hardly a deterrence as world over “good” engineers are hard to come by. Fundamental values of diligence, academic rigour, good communication skills and industry readiness make a NIST engineer much sought after whether on-campus or off-campus. My academic experience is replete with hundreds of such examples of bright NISTians who successfully overcame economic slowdowns with terrific aplomb and gusto by focussing on core engineering skills such as VLSI, Embedded Systems, Networking, SAP and the like. Present students must therefore refocus on the industry oriented skills being offered on the campus as they add terrific value to their resumes and differentiate us from the rest. This is the feedback from all our valued recruiters.

We look forward to the most exciting events in the near future. SANKALP 2012, under the leadership of a new ISTE team, will usher in bigger and better events. I look forward to more focus on technology events and greater participation from other prestigious Institutes. I urge all students to participate in all events in large numbers especially the exciting Invited talks from icons of Science & Technology. I also welcome the +2 Science delegates from all over Odisha to the DST sponsored INSPIRE program – these are the best and brightest students of our young generation and our future hopes ride on their shoulders.

With Best Wishes,

Sangram Mudali

FROM THE EDITOR’S DESK

The signs of sluggish economic activities in the country in the last few months point to a possible global economic crisis coming home. The number of job offers given by IT and core engineering companies during campus recruitments in leading engineering colleges has recorded a dip in 2012 as compared to 2011. While all the engineering colleges in the state are suffering from the same gloomy scenario, National Institute of Science and Technology showed up the brighter picture with the highest recorded job offers by the companies to its students so far. With campus recruitment of 70 students by Infosys, 59 by Wipro Technologies, 27 by Capgemini, 11 students by Exilant Technologies and 6 students by Sankalp Semiconductors, NIST remains ‘one of the most sought after placement destinations’. More companies are scheduled in the coming months.

The month of November is all set to witness yet another annual Techno-Management Symposium, Sankalp 2012. It will be replete with events ranging from paper and poster presentations to online gaming, quizzes, and Inter-College Dance Competition. The symposium attracts students from different colleges of the state along with students from colleges outside Odisha. This presents a serious challenge to NIST students providing them with an opportunity to prove their mettle in whatsoever competitions they participate in. NIST also looks forward to big participation from other colleges of the state and would love to welcome them all to the grand extravaganza.

Dipti Ranjan Lenka

National Institute of Science & Technology, Berhampur, 761008
WORKSHOPS AT NIST

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 program 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.

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. Debashish 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.
EOP VALEDICTORY FUNCTION

August 24th 2012 marked the successful completion of the Employment Oriented Program (EOP). With more than 100 student registrations in various disciplines of Electronics Repairing and Maintenance, Workshop Practice, Computer Repairing and Maintenance, DTP Practice etc., the program was conducted for four months. Training was imparted to make the students ready for the job market. Along with the requisite for employment the students were also exposed to English Communication Skills so as to provide them with a competitive edge. This is an institute sponsored program. The students were provided with books, study materials, accommodation, and an amount of Rs. 1000/- per month as stipend. At the valedictory function, the faculty coordinators spoke their experience with this batch and the students also expressed their satisfaction over the course. They felt indebted to the institute for filling them with confidence to meet the challenges of employment. Mr. Asesh Tripathy, EOP Coordinator, thanked everyone on the occasion and said the success of the programme owed a lot to the EDC Coordinator, Dr. Sudhir Panigrahy, the Director, Prof. Sangram Mudali, and the Placement Director, Prof. Geetika Mudali. He also thanked different NGOs like, PREM, Mandiapalli, Sahitya Samaj, Gunupur, Gram Vikash, Mohuda and Sankalp, Bhubaneswar for sending eligible candidates for the said program.

PRIZE DISTRIBUTION OF ASTRONOMY CLUB

The NIST Astronomy Club conducted the Astronomy Week during 3rd - 7th April 2012. Various events such as QUIZ (written & oral), Poster Presentation, Paper Presentation & Documentary Show were conducted to commemorate the week. The list of events and the prize winners are as follows:

<table>
<thead>
<tr>
<th>Events</th>
<th>Winners</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written Quiz</td>
<td>1st - Samarjit Nayak - B. Tech., 3rd yr</td>
</tr>
<tr>
<td></td>
<td>2nd - P. Raja Rajeswari - B. Tech., 3rd yr</td>
</tr>
<tr>
<td></td>
<td>3rd - Dibyajyoti Panda - B. Tech., 2nd yr</td>
</tr>
<tr>
<td>Oral Quiz</td>
<td>1st - Samarjit Nayak &amp; Pranay Suman Das - B. Tech., 3rd yr</td>
</tr>
<tr>
<td></td>
<td>2nd - Dibyajyoti Panda &amp; Chandan K. Panda - B. Tech., 2nd yr</td>
</tr>
<tr>
<td></td>
<td>3rd - Abhishek Rajan &amp; Sumit Kumar - B. Tech., 4th yr</td>
</tr>
<tr>
<td>Paper Presentation</td>
<td>1st - Sujit Swain &amp; Subhankar Sabat - B. Tech., 3rd yr</td>
</tr>
<tr>
<td></td>
<td>2nd - Snigdha Pattnayak &amp; Avipsa Mohanty - B. Tech., 4th yr</td>
</tr>
<tr>
<td></td>
<td>3rd - Snigdha Patro &amp; Sagarika Panda - B. Tech., 2nd yr</td>
</tr>
<tr>
<td>Poster Presentation</td>
<td>1st - Pragyan P. Sahoo &amp; Jagya Dutta Tripathy - B. Tech., 4th yr</td>
</tr>
<tr>
<td></td>
<td>2nd - Shant Sikha &amp; Priyanka Lenka - B. Tech., 2nd yr</td>
</tr>
<tr>
<td></td>
<td>3rd - Bhitika Das &amp; P. L. Sailaja - B. Tech., 3rd yr</td>
</tr>
</tbody>
</table>

The winners were awarded with prizes, mementos, and the certificate of excellence.

FACULTY LAURELS

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.
Doctor of Philosophy

Mr. 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. The thesis was evaluated by Prof. T. Umamaheswar Rao, Dean, Commerce and Management Studies, Dept. of Commerce and Business Administration, Acharya Nagarjuna University, Guntur and it was well appreciated.

Mr. Rajeeb Panigrahi 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.

Mr. Ranjan Kumar Padhy, Faculty member, Dept. of Chemistry completed his Ph. D. on “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. The thesis was evaluated by Prof. Ashok K. Prasad, Dept. of Chemistry, University of Delhi and Prof. G. Veerabhadram, Dept. of Chemistry, Osmania University, Hyderabad.

Mr. Duryodhan Sahu, Faculty member, Dept. of Chemistry completed his Ph. D. in Materials Science and Engineering on the theses, “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.

Mr. 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 theses, “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.

Mr. 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.

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.

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. Sreeyasree Deb, Ms. Soumya Samanta 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.

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.
STUDENT LAUREL

Projects for TI India Analog Contest

Two of the students’ projects have been shortlisted for “TI India Analog Design Contest 2012-2013”, organized by Texas Instruments India. These projects are shortlisted for phase one. The selected projects are given below:
1. “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.
2. “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 / Batch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Debashis Sahu</td>
<td>Electrical &amp; Electronics Engg 2009-10</td>
</tr>
<tr>
<td>Mr. Chinmaya Mohapatra</td>
<td>Electronics &amp; Communication Engg 2010-11</td>
</tr>
<tr>
<td>Ms. Sukanti Pal</td>
<td>M. Tech 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).

We are extremely proud of our Gold Medal Winners and their success will inspire all present NISTians to aspire for the same in the years to come.

IBM TGMG 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. The list of projects submitted are given below:

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALANTEAM</td>
<td>Alpana Mahapatra, Ananya Patra</td>
</tr>
<tr>
<td>IBM-SPARSH</td>
<td>Sheetal Chandni, Little Mama, Nidhi Lata, Manish Agarwal</td>
</tr>
<tr>
<td>KAIROS</td>
<td>Sagar Sekhar Sabat, Megha Das, Anita Kumari, Subhransu Mallick</td>
</tr>
<tr>
<td>MISSION PRIDE</td>
<td>Rohan Anand, Sumit Kumar Gupta</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>NIST2008IANS</td>
<td>Srikanth Kumar Jena, Surya Narayan Pati, Ananta Padmanabha Das, Sudipta Achary</td>
</tr>
<tr>
<td>NISTIT</td>
<td>Bibhuti Bhusan Samal, Radhakanta Munna</td>
</tr>
<tr>
<td>PARISKHAN</td>
<td>Kumari Sandhya Nayak, Madhumita Sabat, Lopamudra Mohapatra</td>
</tr>
<tr>
<td>The CODE PIONEERS</td>
<td>Subhasmita Hotta, Sugyani Kumari Sabat</td>
</tr>
</tbody>
</table>

Congratulations to all!
INVITED TALKS

+ **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. He has 21 years of experience in the field of semiconductor equipment and clean technology area and expertise in PV & Thermal, Bio energy, smart grid and energy efficiency solutions for homes & Business, rural micro grids and mobile towers.

PAPER PUBLICATIONS

+ **Mr. Pramath Nath Acharya**, Faculty Member, Dept. of Management Studies, along with Prof. R. P. Mahapatro, P. G. Dept. of Commerce, Berhampur University published a research paper titled “Validity of Lintner’s Dividend Behaviour Model in Indian Banking Sector: An Empirical Analysis” in the Management Insight, Vol.VIII, No.1, Pages:72-76,June 2012, ISSN: 0973-936X.


+ **Dr. M. N. Murty** and **Ms. Deepanjali Misra**, Faculty, Dept. of Physics, along with Dr. N. K. Rao, Faculty, Dept. of Physics, GIIT, Berhampur, published a paper “Realization of One Dimensional DST/IDST using Clenshaw’s Recurrence Formula” in the International Transactions on Electrical, Electronics and Communication Engineering, vol.2, no.3, pp.71-78, June 2012, ISSN:2249-8923.


+ **Mr. L. K. Raju** and **Dr. U. K. Misra**, Dept. of Mathematics along with Srichandan Mishra, Department of Mathematics, Govt. Science College, Malkangiri and Dr. G. Mishra, Dept. of Statistics, Utkal University, published a paper, “An Inventory Model for Weibull Deteriorating Items with Linear Demand Pattern” in the Journal of Computer and Mathematical Sciences, Vol. 3(4), August 2012, pp.422-497, ISSN 0976-5727.


Dr. Trinath Sahu, Professor, Dept. of Electronics and Communication Engineering, participated in the IEEE International Conference on Semiconductor Electronics (ICSE-2012) held at Hotel Grand Millennium, Kuala Lumpur, Malaysia during 19th - 21st September 2012 organised by IEEE EDS Chapter Malaysia and Universiti Kebangsaan Malaysia (The National University of Malaysia). He made an oral presentation of a paper entitled, “Electric field induced enhancement in multisubband electron mobility in strained GaAs/InGaAs double quantum well” which is published in the Proceedings of ICSE-2012 and shall be submitted to the IEEE Xplore database. The conference covered most of the current trends of semiconductor technology and was keynote addressed by six world experts in different fields such as Application of HEMT for terahertz frequency, Nanotechnology and Metamaterials, MEMS/NEMS, Quantum Dot Lasers, etc. He met many experts in the field of Quantum/Nanoelectronics and exchanged views to generate ideas for new/innovative devices. Particularly he discussed intensively with Professor Edward Y. Chang of National Chio-Tung University of Taiwan, an expert in the field of Quantum well devices, who spoke on the InAs HEMT for terahertz Applications.

Dr. Trinath Sahu along with Sangeeta Palo and Narayan Sahoo published a research paper, “Electric field induced enhancement of multisubband electron mobility in strained GaAs/InGaAs coupled quantum well structures” Physica E 46, 166-169 (2012).

Dr. Trinath Sahu along with P. K. Subudhi and S. Palo published a paper, “Effect of strain on multisubband electron transport in GaAs/InGaAs coupled quantum well structures” in Superlattices and Microstructures 51, 430 (2012).

Dr. Trinath Sahu along with Sangeeta Palo and Narayan Sahoo published a paper, “Electric field induced enhancement in multisubband electron mobility in strained GaAs/InGaAs double quantum well” in the proceedings of the 10th IEEE International Conference on Semiconductor Electronics- 2012, Kuala Lumpur, Malaysia, Page- 47-51 (2012).


PAPERS PRESENTED

Dr. Trinath Sahu participated in the National Conference on condensed matter physics- (Condensed Matter Days-2012) organised by the Dept. of Applied Physics at Birla Institute of Technology, Mesra, Ranchi during 29th - 31st August 2012. He presented two papers (one oral and another Poster) entitled, “Electric field induced enhancement of electron mobility in GaAs/InGaAs quantum well systems” and “AlxGa1-xAs based double parabolic quantum well structures: study of multisubband mobility”.

Mr. L. K. Raju, Faculty, Dept. of Mathematics, presented a paper, titled, “A Study of EOQ model with power demand of deteriorating items under the influence of inflation” at the International Conference on Analysis and Applications (ICAA-2012) organized by the Department of Mathematics, Berhampur University, Odisha during July 20-21,2012.

Ms. Tripti Mund, Faculty member, Dept. of English presented a paper, “An Insight into Professional English Syllabus in India via Available Text Books” in the 10th Asia TEFL International Conference held...

Dr. Ratnakar Mishra, Faculty, Dept. of Management Studies has published his second book, “Organisational Behaviour”, by Himalaya Publishers Ltd, Mumbai along with his co-author Dr. P. Subba Rao in August 2012. This book is a textbook meant for B. Tech, MBA, PGDM and other students who are pursuing their management programs at graduation or post-graduation level. Now available in market for Rs 180 only this book of Dr. Mishra is well designed for students with special reference to BPUT syllabus.

Ms. Tripti Mund, Ms. Soumya Samanta and Ms. Sreeyasree Deb, Faculty members, Dept. of English attended the 7th International and 43rd Annual English Language Teacher Association of India (ELTAI) Conference organized by Velammal Engineering College, Chennai during 19th-21st July, 2012. The theme of the conference was “The English Classroom - Experiments and Experiences”. Ms. Mund was selected as a featured speaker for her paper entitled, “English Reading Revolution: An Experiment Across the Curriculum”. She also got an opportunity to chair the plenary session “Bringing in the ‘real world’ into the English classroom” by Prof. Vanamala Viswanatha, Azim Premji University. Ms. Soumya and Ms. Sreeyasree jointly presented their paper entitled “English for Employability”.

BOOK PUBLICATIONS

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### THURSDAY SEMINAR SERIES

**Date: July 26, 2012**

<table>
<thead>
<tr>
<th>Speakers</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Asit K.Panda</td>
<td>IEEE Indian Antenna Week 2012</td>
</tr>
<tr>
<td>Dr. Duryodhan Sahu</td>
<td>Novel Narrow Band-gap Conjugated Polymers, for Organic Solar Cells</td>
</tr>
<tr>
<td>Dr. Motahar Reza</td>
<td>Analysis of Fluid Flows Problem: MHD Thermal Instability</td>
</tr>
</tbody>
</table>

**Date: August 2, 2012**

| Mr. Trilochan Panigrahi, Mr. Prabina Pattanayak and Mr. Rajendra Khadanga Mr. Debananda Kanhar | National workshop on “Swarm Intelligence : Theory and Applications” The Great Mind Challenge 2012 (TGMC 2012) – IBM |
| Ms. Rajashree Sasamal & Mr. Rabindra Kumar Shial Dhirendra Kumar Malik Ms. Soumya Samanta | Sequential Mining Pattern of Granular Computing Model on Emphasis of S/W Engineering Design, development and testing of single phase PWM inverter for induction motor drive The 7th International Conference, ELTAI |

**Date: August 9, 2012**

| Mr. P. K. Jena | Comparing Fuzzy C-Mean and K-Mean Clustering Technique: A Comparative Study |
| Mr. Chandan Garai | Design human computer Interaction using lesser track pad for physically challenge people |
| Mr. N. Serish | Is Grammar necessary? |

**Date: August 23, 2012**

| Mr. Ashish Kumar Dass and Mr. Rabindra Kumar Shial Mr. Suman Roy Mr. B. P. Pattnaik | An efficient De-noising Technique for Fingerprint image Using Wavelet Transformation Modelling of Liquid Lithium/Water Interaction in Fusion Reactor Blankets Facebook Innovations |

**Date: September 6, 2012**

| Dr. Sujit Kumar Samata Mr. Subhankar Ghatak Mr. Tapas Bayen | Computing Stationary Distributions of the D-BMAP/D-MSP / 1 Queuing System A Novel Technique for secret communication through optimal shares Using Visual Cryptography Special Graph Algorithms for VLSI Physical Design |

**Date: September 13, 2012**

| Ms. Riti Chowdhury Mr. Madhusree Sarkar Prof. Geetika Mudali | Secure money transaction in NFC enabled mobile wallet using Session based alternative cryptographic technique Analysis of ferro-fluid actuated micro-pump for MEMS application Teaching Orientation program for Faculty |
**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>Sujeyt Kumar</td>
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<tr>
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<td></td>
<td></td>
<td>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</td>
</tr>
<tr>
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<td></td>
<td></td>
<td>Rakesh Kumar Sahu</td>
</tr>
<tr>
<td>Mr. Swagat Kumar Samantaray</td>
<td>Best Hardware Project</td>
<td>Design &amp; Development of a small scale HUMANOID using Haptics Technology</td>
<td>Sarthak Ray</td>
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<td>Asutosh Samal</td>
</tr>
</tbody>
</table>

**Best Feedback Award**

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Semester</th>
<th>Name</th>
<th>Sl. No.</th>
<th>Semester</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>B Tech 2nd Sem</td>
<td>Mr. Arabinda Panda</td>
<td>5</td>
<td>MCA 2nd Sem</td>
<td>Mr. Ashish Kumar Dass</td>
</tr>
<tr>
<td>2</td>
<td>B Tech 4th Sem</td>
<td>Mr. M. Suresh</td>
<td>6</td>
<td>MCA 4th Sem</td>
<td>Dr. Sujit K Samanta</td>
</tr>
<tr>
<td>3</td>
<td>B Tech 6th Sem</td>
<td>Mr. Rajesh K Dash</td>
<td>7</td>
<td>MBA 4th Sem</td>
<td>Mr. Srikanta K Nayak</td>
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<td>4</td>
<td>B Tech 8th Sem</td>
<td>Dr. Diptendu Sinha Roy</td>
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**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. (Mrs.) 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. In his Welcome Address, Prof. Mudali spoke about the need of the hour to rise to the occasion of the developing nation and render service in different sectors, both Banking and Industry, with expertise and commitment.

Dr. E. Raja Rao, Professor of English, NIST introduced all the dignitaries on the dais. Dr. Arun K. Mohapatra, Professor of Management (HR) presented the biennial report. Prof. Ashok K. Mohanty, Professor of Management (Finance) stressed upon the readiness of the students to face the challenges of the competitive world with the acquired competence.

The Chief Guest, Prof. Aditya Prasad Padhi, harped on the cardinal principles of the Vedic scriptures, which he urged should be followed by the students to go a long way in their career as well as their life.

The rituals of the Convocation were religiously observed and conducted with the help of the Chief Guest, Prof. Padhi, the Director, Prof. Mudali and the Placement Director, Prof. (Mrs.) Mudali. 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.

In her concluding address, Prof. Geetika Mudali, extolled the value and worth of the communicative skills and soft skills, and emphasised the proper use of these skills in landing jobs in the competitive market and facing the challenges of life. She expressed her gratitude to Prof. Aditya Prasad Padhi, Former Vice-Chancellor, Berhampur University for taking the onus of gracing and conducting the Convocation Ceremony, and Prof. Sangram Mudali, Director, NIST for presiding over the Function. She also richly acknowledged the valuable support of Prof. Ajit K Panda, Dean, NIST, and Prof. Arun Padhi, Course Coordinator, B. Tech., NIST, and particularly of Prof. Shom Prasad Das, Course Coordinator for successfully conducting the Business School Programme of both MBA and PGDM, and also for putting up such a grand show of the Convocation Ceremony.
ORIENTATION COURSE FOR THE B. TECH. STUDENTS OF 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.

The following dignitaries delivered their valuable talks during the Orientation Course:

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<tr>
<th>Name of the Speakers</th>
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<td>Prof. B. N. Patnaik, Professor of Humanities &amp; Social Science, IIT, Kanpur</td>
<td>Linguistics</td>
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<tr>
<td>Swamy Mohan Krishna Das, ISKCON</td>
<td>Ethics and Morality</td>
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<td>Prof. Narasingh P. Patro, Former Professor of Economics, Govt. of Odisha</td>
<td>Economics</td>
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<tr>
<td>Prof. N.S. Jagannath Rao, Former Professor of Law, Berhampur University</td>
<td>Law</td>
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<td>Prof. Hari Hara Das, Former Professor of Political Science, B.U</td>
<td>Political Science</td>
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<tr>
<td>Prof. Mrinal Chatterjee, Prof. &amp; Head, Indian Institute of Mass Comm. (IIMS), Dhenkanal</td>
<td>Mass Communication</td>
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<tr>
<td>Prof. E. Raja Rao, Professor of English, NIST, Berhampur</td>
<td>Literature</td>
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<tr>
<td>Dr. Chittaranjan Mishra, Former Deputy General Manager (R &amp; D),NALCO, Angul</td>
<td>Management</td>
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<tr>
<td>Mr. Joe Madiath, Director, Gram Vikas (NGO), Berhampur</td>
<td>NGO and Social</td>
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<tr>
<td>Prof. Sangram Mudali, Director, NIST</td>
<td>Entrepreneurship</td>
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<tr>
<td>Prof. Geetika Mudali, Placement Director, NIST</td>
<td>Entrepreneurship</td>
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<tr>
<td>Mr. Nigamananda Swain, Govt. Arts and Crafts College, Khallikote</td>
<td>Personality Development</td>
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SCARS OR STARS

Mr. Akhilesh Jena, B. Tech. 5th Sem.

Did you ever wonder that what was the idea of flying like in the 19th century? It was as practical as going for a long drive to Jupiter in your car nowadays. But could that stop the Wright brothers from giving WINGS to their imagination and turning the same into reality??? Or did Copernicus stop believing and putting into writing that the earth revolved round the sun just because the Church opposed it?? No. And this was because of the firm self-confidence of these people. No matter what others said they pursued their DAY-dreams and gave shape to them. But do you think these were possible only because they were normal and fit human beings who dared to think beyond the imagination of their generation? Absolutely not. There are also some others who, though were not as fit as the Wright brothers or Copernicus, contributed a lot the human race. They were the real DIFFERENTLY-ABLED.

Just think. Do you need eyes to see? Or ears to listen? Or legs to lead? Not necessarily. You may always have SCARS and yet change them into your STARS for a better future. It depends on whether you take your disabilities as SCARS or STARS.

Ludwig van Beethoven, one of the greatest music composers humanity has ever got, was unbelievably deaf. He continued his composition and finally gave some of the best symphonies. And today, you can find one of his symphonies in sample music of your laptop. Is not that great?

Next John Milton. He was one of the pre-eminent writers in the English language. He was the most fantastic nature poet. One needs to appreciate the beauty of nature to transform it into poetry. And he was very successful in that. But a minute anomaly is that he was BLIND. Can you imagine a blind man writing poetry on nature? Such was his astonishing ability.

He was able to sketch the nature on the canvas of his imagination and then give life to it by use of words. No doubt the poems by him are regarded as the best pieces of nature poetry ever written.

And again, does a leader need to have legs to lead? This was the case of Franklin D. Roosevelt, the 32nd President of the United States. He suffered from paralysis below his waist. But then, did it stop him from being elected for a wonderful four terms in the White House which no other American president has ever served? He led America in the times of economic crisis and World war while on his wheel chair.

All these and many more have turned their SCARS to STARS by putting the God Matter (also popularly known as MIND) at work. I called it God Matter because if GOD created us, it created the concept of God. No matter what disability a man has, he can convert it into a marvelous ability by letting ideas bloom in his mind. Not just letting them bloom but also nurturing them. Only then will the flowers of the mind bear the sweet fruits to satisfy the hunger of humanity and for which the humanity will be grateful to YOU.

akhilesh.jena@gmail.com

National Institute of Science & Technology, Berhampur, 761008
TRIP TO TIRUPATI

Dr. E. Raja Rao, Prof. English

No other Institute of the State nurtures the family values within the members of the Faculty and Staff as much as the NIST does. As a matter of fact, the authorities of the Institute, after a gap of nearly four years, were determined, from the beginning of the session, to give a spree to its family members through a pilgrimage to a divine place like Balaji Temple at Tirupati. The dates for the trip were quite judiciously chosen as the trip was sandwiched by two holidays, requiring only one working day which was duly taken care of by the members present in the College. This religious excursion was engineered by Prof. (Mrs) Geetika Mudali and Prof. Sangram Mudali, the two important persons who are at the helm of the affairs of the NIST. From the beginning, Mrs Geetika Mudali was monitoring not only the willingness of the interested members, but also the whole array of details like booking the tickets, hiring the buses and guides at Tirupati, fulfilling the paraphernalia of “darshan,” and arranging accommodation facilities in Tirupati. Dr Mihir Hota, Faculty of Physics, was made the convenor for this programme, who successfully motivated the faculty and staff, belonging to different ranks, class and gender.

On the 29th Sept. 2012, at 2.30 p.m., the whole host of NISTian pilgrims, consisting of 123 members, was eagerly waiting for the arrival of Bhubaneswar-Tirupati Superfast Express in the railway platform of Berhampur Rly Station. The Superfast Express came in time, but it did not come alone, it came with a strange companion, the torrential rain that not only mocked at its momentary lack of movement, but also pattered the platform with a menacing deluge. Two of the NISTian pilgrims could not board the train, and had to find out cumbersome alternatives to join their compatriots at Tirupati.

The train went on scouting several stations through A.P., Tamil Nadu and Karnataka, and finally reached Tirupati around 11.30 a.m. the next day, with a delay of almost three hours. Buses were ready at the Railway station which took all the NISTian pilgrims to the A.P Tourist Guest House at the bottom of Tirupati. The Guest House had all kinds of modern facilities along with tight security, lifts and well-Regulated self-service restaurants. The first leg of the pilgrimage in Tirupati started around 2.00 p.m. on the 30th Sept., which targeted only three holy places, namely, “Srinivasa Mangapuram,” “Kanipakam,” and “Sri KalaHasthi.” The first one is significant to the devotees as Lord Balaji, following His wedding with Goddess Lakshmi had a short sojourn in Mangapuram on his way to Tirumala. It is believed that spinsters who offer prayers to Lord Srinivasa at Mangapuram would be blessed with their desired life partners. “Kanipakam,” is the holy shrine of Sri Ganesh who is said to be a “Swayambhu,” i.e. self-created from the earth, and possesses the power to make the impossible possible. “Sri KalaHasthi” is a temple wherein are worshipped the “grahas” like Rahu and Ketu. In case any devotee is found to be under the zodiacal influence of “Kalasarpa Dosam,” he/she could perform a Puja in this temple and could easily get rid of the curse. The visit to “Sri Kalahasthi” was considered to be quite auspicious for them, as it was in this place that they were met by the Director, Prof. Sangram Mudali, and the Placement Director, Prof. Geetika Mudali. On the final day, i.e. Monday, the 1st October, all the NISTian pilgrims in the guest house got ready by 5.30 a.m. and were all bound for Tirumala, the sanctum sanctorum of Lord Venkatesa. Even though there was a terrible rush in the Waiting Hall No.20 where everybody had to wait for nearly an hour and a half, everything went smoothly, and all the members could get the Darshan of Lord Venkatesa by 11.30 a.m. Then, by the timely intervention of Mr Premeswar Rao, all the pilgrims had the advantage of getting Prasadam (lunch) in the free dining hall of Lord Venkatesa which was unique in terms of its quality of food and also in terms of sharing the food with a mammoth crowd of a thousand people.
NIST WELCOMES

Mr. Anupam Priyadarshi joined as Faculty in the Dept. of Mathematics. He has done his M. Sc. in Mathematics from BHU, Varanasi and Ph. D. from IIT, Roorkee. He has cleared the CSIR-NET and GATE. He visited Singapore and Barcelona to present his paper in the International Conference and also grabbed the Best Student Research Paper Award. He has some Peer reviewed International publications in Mathematical Ecology/Biology to his credit. He has been awarded two very prestigious Post-Doc Award namely, NBHM and Dr. D. S. Kothari Post-Doc in July 2012. His research interests include Mathematical Ecology.

Dr. Umakanta Misra joined as Faculty in the Department of Mathematics. He has done his Ph.D. from Berhampur University in the year 1982. Dr. Misra has 30 years post graduate teaching at Berhampur University and about 25 years of research experience to his credit. He has guided 12 Ph.Ds and 30 M.Phil Scholars. Dr. Misra has published 95 research papers in National and International Journals. He has been the Reviewer of Mathematics Review published by American Mathematical Society and the member of the Editorial Board of three National Journals. He has conducted four National conferences and one Refresher Course at Berhampur University. He was a member of Doctoral committee, Chairman of Board of Studies of Mathematics and Statistics of Berhampur University and member of Board of studies in Mathematics of the autonomous colleges like Khalilkote College, Govt. Women’s College, Berhampur, Govt. College, Phulbani, and Rayagada College. His areas of research interest are Summability Theory, Sequence Spaces, Inventory Control, Graph Theory and Random Processes.

Mr. Subhankar Ghatak joined as Faculty in the Dept. of Computer Science and Engineering. He has done his MCA and M. Tech in Information Technology from A. K. Choudhury School of Information Technology, University of Calcutta. Before joining NIST, he served as an Assistant Professor at Swami Vivekananda Institute of Science and Technology in the department of CSE. He has 3 IEEE, 2 International and 1 National Paper Publications to his credit. His areas of interest include Visual Cryptography.

Ms. Sunetra Banerjee joined as Faculty in the Dept. of Electronics and Instrumentation Engineering. She has done her B. Tech from Netaji Subhas Engineering College and M. Tech from Heritage Institute of Technology, West Bengal. Her research interests include Fuzzy Logic, Biomedical Instrumentation, Sensor, PLC and Automation and Clustering.

Mr. Chandan Garai joined as Faculty in the Dept. of Computer Science and Engineering. He has done his B. Tech in Information Technology from Mallabhum Institute of Technology and M. Tech from NITTTR, Kolkata. He has five paper publications to his credit. His research interests include Spatial Database and Human Computer Interaction.

Mr. Dhirendra Kumar Mallik joined as Faculty in the Dept. of Electrical and Electronics Engineering. He has done his B. Tech and M. Tech in Electrical Engineering from DRIEMS, Cuttack and IIT, Kharagpur respectively. His research interests include Machine Drives and Power Electronics.

Mr. Rana Chakraborty joined as Faculty in the Dept. of Computer Science and Engineering. He has done his B. Tech and M. Tech in CSE from Asansol Engineering and Heritage Institute of Technology respectively. He has around four years of teaching experience and one paper publication to his credit. His research interests include Cryptography.

Mr. Chandan Kumar Bharti joined as Faculty in the Dept. of Computer Science and Engineering. He has done his MCA from NIST. He is certified in BEC and OCA Level 1. His research interests include Simulation and Queueing Model using Java, DBMS, Software Engineering and Operating System.

Mr. Jay Shankar Bhushan joined as Faculty in the Dept. of Computer Science and Engineering. He has done his MCA from NIST. He is OCA Level-1 Certified and also WID & LOTUS DOMINO Certified by IBM. His research interests include Programming in C and Java, Database Management System, and Web Application Program.

Ms. Riti Chowdhury joined as Faculty in the Dept. of Computer Science and Engineering. She has done her B. Tech in CSE and M. Tech in Software Engineering from West Bengal University of Technology (WBUT). She has published one research paper in an International Conference. She worked as a
Ms. Shanti Naniseti joined as Faculty in the Dept. of English. She has done her MA in English from University of Hyderabad. She worked as a Senior Subeditor with The Hindu for more than five years and also worked as Account Strategist at Google for around 4 years. Her research interests include Phonetics, New Age Web Publishing, Mythical Creatures in Child Fiction.

Mr. Avijit Routh joined as Faculty in the Dept. of Electronics and Instrumentation Engineering. He has done his B. Tech in EIE from Haldia Institute of Technology, WBUT and ME in Power Engineering from Jadavpur University. He served as a guest faculty at Jadavpur University for one year. He has published two of his research papers. His research interests include Network Control System and Chaotic Control System.

Mr. Suman Roy joined as Faculty in the Dept. of Electronics and Instrumentation Engineering. He has done his B. Tech in Instrumentation and Control from Calcutta Institute of Engineering and Management, WBUT and ME in Nuclear Engineering from Jadavpur University. His research interests include Fusion Reactor and Advance Control System including Fuzzy Logic.

Mr. Pramod Kumar joined as Faculty in the Dept. of Computer Science and Engineering. He has done his MCA from NIST. His research interests include Database Management Systems and Algorithm Design.

Mr. Aswini Kumar Nayak joined as Faculty in the Dept. of Electrical and Electronics Engineering. He has done his B. Tech in Electrical and Electronics Engineering from JITM, Parlakhemundi and and ME in Electrical Engineering from BIT, Mesra. He has two paper publications to his credit. His research interests include Power Systems Reliability Evaluation.

Mr. Amitabh Acharya joined as Faculty in the Dept. of Computer Science and Engineering. He has done his B. Tech and ME in CSE from Siliguri Institute of Technology and Jadavpur University respectively. He has around three years of teaching experience to his credit.

Mr. Pramod Kumar joined as Faculty in the Dept. of Computer Science and Engineering. He has done his MCA from NIST. His research interests include Data Structure and Algorithm and Embedded Systems.

Mr. VSKV Harish joined as Faculty in the Dept. of Electrical and Electronics Engineering. He has done his BE in EEE from Lingaya’s Institute of Management and Technology, Faridabad and ME in Power Engineering from Jadavpur University. His research interests include Generator and Motor Protection, PS Analyses, Control and Protection, and Smart Grid.

Mr. Prosenjit Mondal joined as Faculty in the Dept. of Electrical and Electronics Engineering. He has done his B. Tech in Electrical Engineering from WBUT and M. Tech in Power Engineering from Jadavpur University. He worked as a guest faculty at Jadavpur University for sometime. His research interests include Power System Operation and Control.

Mr. Achyuta Nanda Parida joined as Faculty in the Dept. of Mechanical Engineering. He has done his diploma from SMIT, Berhampur and B. Tech from IACR, Rayagada. He has taught at UCPES, Berhampur for one year and six months of industry experience working as Production Engineer at Victor Gasket, Pune. His research interests include Automobile Engineering.

Ms. Suchandra Pal joined as Faculty in the Dept. of Electronics and Instrumentation Engineering. She has done her B. Tech and M. Tech in Applied Electronics and Instrumentation Engineering from WBUT. Her research interests include Bio-Sensors and Bio-Signal Analysis.

Mr. Tapas Kumar Bayern joined as Faculty in the Dept. of Computer Science and Engineering. He has done his B. Tech and M. Tech from Calcutta University. He has around five years of teaching experience working as a Lecturer at DIATM, Durgapur, an Asst. Prof. at FIEM, Sonepur, Kolkata and at Sikkim University, Gangtok. His research interests include Algorithm Analyses.

Dr. Bhaskar Bhuaula joined as Faculty in the Dept. of Mathematics. He has done his M. Sc. and Ph. D. from Berhampur University and M. Phil. from Madurai Kamaraj University. He has more than 23 years of teaching experience to his credit. He worked as an Associate Professor in the Dept. of Mathematics.
Mathematics at SMIT, Berhampur. He has around five paper publications to his credit. His research interests include Inventory Control, Numerical System, Simulation and Modelling, and Fuzzy Logic.

Mr. Jaydeep Sen joined as Faculty in the Dept. of Computer Science and Engineering. He has done his B. Tech in Mechanical Engineering from Jadavpur University and M. Tech in Computer Science from ISI, Kolkata. He has around six years of teaching and 14 years of industry working at different positions at ONGC, ORACLE India Pvt. Ltd., Tata Consultancy Services. He has more than 80 publications in IEEE, ACNM, and Springer to his credit. He is a core committee member of IEEE 802.16 Standardization Body and Editor of International Journal of Network Security. His research interests include Cryptography and Network Security, Data Privacy, Next Generation Wireless Networks, Ubiquitous Computing.

Mr. Prasun Dutta joined as Faculty in the Dept. of Computer Science and Engineering. He has done his MCA and ME in CSE from WBUT. He has around three years of teaching experience to his credit. He is a Gold Medalist in MCA. He has published one paper in the proceedings of an International Conference. His research interests include Data Mining and Parallel Computing.

Ms. Madhusree Sarkar joined as Faculty in the Dept. of Electrical Engineering. She has done her B. Tech. in Electrical Engineering from WBUT and her ME in Nuclear Engineering from Jadavpur University. Her research interests include Micro Electro Mechanical System and Control Engineering.

Mr. Alok Kumar Pradhan joined as Faculty in the Dept. of Electrical and Electronics Engineering. He has done his B. Tech in Electrical Engineering from UCE, Burla and M. Tech in Power Control & Drives from NIT, Rourkela. His research interests include Application of DSP to Power System.

Mr. Arun Kumar Samantaray joined as Faculty in the Dept. of Mechanical Engineering. He has done his M. Tech (Thermal) from SOA University, Bhubaneswar. He has over 17 years of teaching experience. He worked as a Senior Lecturer at SMIT, Berhampur and as an Associate Prof. at KIT, Berhampur. His research interests include Heat Transfer, Refrigeration and Air Conditioning.

Mr. Ramakant Nayak joined as Faculty in the Dept. of Mechanical Engineering. He has done his B. Tech in Mech from CVRCE, BBSR and MS (by research) from IIT, KGP. His research interests include Vibration.

Mr. Kali Charan Pradhan joined as Faculty in the Dept. of Electrical Engineering. He has done his B. Tech from OSME, Keonjhar and M. Tech from VSSUT, Burla. Before joining us he was working as an Asst. Prof. at GHITM, Puri. His research interests include Power System Optimization.

Mr. Piyush Kanti Bhunre joined as Faculty in the Dept. of Computer Science and Engineering. He has done his M. Sc. in Statistics and M. Tech in Computer Science and Engineering from Indian Statistical Institute, Kolkata. Mr. Bhunre has a good amount of industry experience to his credit. He worked as a Research Programmer at ISI, Kolkata for one year and as a Research Fellow at National University of Singapore for 5 years, an Architect at Connectiva Systems for 4 years and before joining us he was working as a Consultant at Wipro Limited. His research interests include Computer Vision and Pattern Recognition, Statistical Modelling and Data Analytics, and Digital Geometry.

Ms. Sangita Rani Panda joined as Faculty in the Dept. of Electronics and Communications Engineering. She has done her B. Tech in ECE from NIST. She is trained on VLSI and ORACLE. Her research interests include VLSI and Fibre Optics.

Mr. Abhishek Samrat joined as Faculty in the Dept. of Computer Science and Engineering. He has done his M. Sc. from NIT, Rourkela and Ph. D. from IIT, Kharagpur. He has 3 Conference Papers, 4 Journal Paper publications to his credit.
His research interests include Ocean Wave Modelling and Forecasting, Fluid Mechanics, and Algebra.

Mr. Naba Kishore Panda joined as Lab Supervisor in the Dept. of Mechanical Engineering. He has done his diploma in Mechanical Engineering from Institution of Mechanical Engineers, Mumbai. He has a total of 14 years of experience to his credit. He worked as Lab Assistant at RIT, and MITIS. He also worked as Supervisor at Manyam Die Designer, Hyderabad.

Mr. Amit Kumar Sahoo joined as Lab Supervisor in the Dept. of Electrical Engineering. He has done his ITI in Electrician trade and diploma in Electrical Engineering.

Mr. Soumya Ranjan Mohapatra joined as Lab Supervisor in the Dept. of Electrical Engineering. He has done his diploma from UIET, Bhubaneswar.

Ms. Susmita Rani Karasudha Pattnaik joined as Lab Supervisor in the Dept. of Computer Science and Engineering. She has done her MCA from IACR, Rayagada. She is trained on Java, ‘C’ and ORACLE. She has done a project, “Revenue Recovery System” at Naresh Institute of Technology, Hyderabad. She has one year of teaching experience to her credit working as a Faculty at Gajapati Institute of Management, Parlakhemundi. Her research interests include ‘C’ and Java.

Mr. Srikant Panda joined as Laboratory Supervisor in the Dept. of Electrical Engineering. He has done his ITI from CVRIT, Bhubaneswar and diploma from KIT, Berhampur.

Ms. Monalisha Das joined as Lab Supervisor in the Dept. of CSE. She has done her B. Tech from BIET, Baripada and has more than a year of teaching experience to her credit.

Mr. Sunil Kumar Nayak joined as Lab Supervisor in the Dept. of Electronics and Communications Engineering. He has done his diploma in ETC from SMIT, Berhampur.

Mr. Harihara Basantia joined as Lab Supervisor in the Dept. of Electronics and Communications Engineering. He has done his diploma in ETC from UGMT, Rayagada.

Ms. Kumudini Bishoyi joined as Lab Supervisor in the Dept. of Electronics and Communications Engineering. She has done her diploma in ETC from UGMT, Rayagada.

Mr. Siba Sankar Dash joined as Lab Supervisor in the Dept. of Computer Science and Engineering. He has done his MCA from GICMS, Gunupur.

Mr. Prasant Kumar Swain joined as Lab Supervisor in the Dept. of Electrical and Electronics Engineering. He has done his diploma in Electrical Engineering from KIT, Berhampur. Before joining NIST he was working at RMITC, Berhampur.

Mr. Hrushikesha Bisoyi joined as Lab Supervisor in the Dept. of Computer Science and Engineering. He has done his MCA from GICMS, Gunupur. His research interests include Java Programming.

NIST welcomes all the members to its family and wishes them a wonderful career!
Hola Nistians! This edition, Fidio brings you an entirely new section ‘Unimaginable’ filled with sports news buttered with crisp flying imaginations. India has gotten obsessed with three things of lately- cabinet reshuffling, romantic movies and obviously with Champions league T20. Smitten with jaw breaking finishes, this tournament has again fuelled up the ‘club vs country’ debate. It was the era of ‘Sydney Sixers’ who won the final by battering ‘Highveld Lions’ without loss of single wicket. The Ranji Trophy has also started with a good note as Sachin has performed really well for Mumbai. Apart from this South Africa have to play against Australia which catches the interest of Fidio. In Soccer, European giants like Man City, Juventus, Chelsea are struggling to get into a song in the Champions League. And, Chelsea is well on the verge of becoming the first defending team to fail qualifying the group stages. And, the blues ‘Man City’ are in a more abominable position with just one point in their bag. The other leagues (EPL, LA LIGA, SERIE A etc.) have just begun and will surely promise some unforgettable action. In Tennis the disparage pair of Bopanna-Bhupathi have won the Paris Masters final, bringing them a big respite. Bronze medalist shuttler Saina Nehwal, won the Denmark Open Super Series despite of her Knee injury. And, Minatsu Mitani became the first Jap woman to win the French Open Super Series by beating Saina Nehwal in straight sets in the final.

Unimaginable:
Cycling got engulfed in controversies, as investigations revealed secrets, which since 1998 the officials weren’t able to see, one of the world’s best, and beloved athlete Lance Armstrong was just asked one question by the entire world- “why did you cheat?” he was a man, seeing who’s struggle, the entire sports fraternity was moved, because of charges of doping, all his ‘Tour de France’ titles were removed. Seeing Messi’s career goals going over a three hundred, Cristiano Ronaldo was sad, on 5th nov. Messi scored another one and became a dad.

Fidio’s questionnaire:
? When did Michael Schumacher do his debut?
? How many GP has he won?

Fidio’s factology:
? Sourav Ganguly went to Hardiwar for prayers disguised as a pandit. And yet he was recognized by the people over there. (Text me the answers and feedback with your name roll no. and date on which you got enews to 8093672523 or at ashurshd1@gmail. Answers must be given within 24hrs from date of getting the enews) Adios amigos!
A memorable trip to CHILKA
SANKALP 2012

Emblish the future
The human race is all set to take the next leap forward and so are we!!

What you have witnessed till now is just the foretaste; the unsurpassed is yet to unfold. This year Sankalp is not just a techno-management fest, it’s a casement to a new outlook. With the tagline “emblish the future”, the Nistians are all ready to take the next giant leap. We believe that it’s the vision that ignites mind. A visionary involves the entire generation with unrelenting efforts in a mission driven endeavor that benefits both him and the world as a whole.

Man who triumphs in life needs to bury the past, grasp the present and dream of molding the future and adorn with glory and brightness. “A great giant is asleep with everyone, when it awakens miracle happens.” And so with this motto Sankalp 2012 is all primed to create dreamers with the vision of a flourishing future.

The inception of this whopping affair dates back to the year of 2003. Sankalp began as a technical symposium and now it has matured to a techno-management convention. A three day extravaganza where promising talents from diverse setting will compete for the prominence, Sankalp 2012 is the ultimate podium where the scholars get the opportunity to explore their potentials, gain memorable experiences and have fun.

With a surfeit of events to chip in, the much anticipated affair is all ready to take a dive into what we call the ulterior. But Sankalp is not all about erudition. There is lot more to it. The three day mega event is a distinctive wrap up of edification, of merry making and of unforgettable savoir-faire.

So NISTIANS the time has come to indulge yourself into the mysteries of the future while the gargantuan of all events stands knocking at your door. Gear up and fasten your seat belts to pave way for embellishing, beautifying and transforming the present into a bright future at SANKALP 2012.