Look at the sky. We are not alone. The whole Universe is Friendly to us and Conspires only to give the Best to those who Dream and Work.
FROM THE DIRECTOR’S DESK

In a few weeks from now, we will celebrate the launch of the 20 year celebrations of the founding of NIST. There will be opportunities to look back into our glorious past as we plan for the future. The future of technical education is critical to a backward state such as Odisha since this is perhaps the only vehicle which will directly help in transforming the economy of the State. The rise of Karnataka, Andhra Pradesh and Maharashtra coincided with the plethora of engineering graduates coming out of colleges in those states, so it will be the same in Odisha. For long we have been beating the drums about the untold wealth of Odisha in its mines, scenic beauty, long coastline, fertile plains, etc., but now it is crucial to convert the same to jobs, education and healthcare for its citizens. Else, this generation of entrepreneurs, decision makers, politicians, educationists and bureaucrats would have failed the State.

The placement season is upon us. The top industries of the country are visiting our campus in the few months. The Placement Department has roped in top IT companies, core companies and others to visit our campus and take their selection of our talented graduates. We hope that the batch of 2016 will surpass the records of the previous batches in this placement season. Do remember: companies look for a 360degree personality in tune with their requirements and a person willing to learn and work in a team. Once again, the oft repeated quote for the batch of 2016:

“When you want something, all the universe conspires in helping you to achieve it.” - Paulo Coelho

Best Wishes,
Sangram Mudali

FROM THE EDITORS’ DESK

The chief beauty about time is that you cannot waste it in advance. The next year, the next day, the next hour are lying ready for you, as perfect, as unspoiled, as if you had never wasted or misapplied a single moment in all your life. You can turn over a new leaf every hour if you choose. With fresh thinking and new hope, new aspirations and new scope, team NIST e_news welcomes the 2015 Batch.

The last few months have been very eventful. The recognition for the constant efforts put in by our students and faculty members is quite evident in our National rankings in DATA QUEST TMR Survey and the OUTLOOK magazine. The Nanosoft, VTS, RE Innovations, Cadence and many more showcase our achievements and novelty. The ICBPC, the International and National Fellowships attest to our persistent effort for excellence. The books and papers published, the seminars attended, the Thursday Lecture Series etc. highlight the academic and research quality of the members of the NIST family.

We hope this edition provides the newbies the food for thought for their future endeavors and encourages them to intensify their learnability. Happy Reading!

Mr Rabi C. Singh
Mr Dipti R. Lenka

Advisors : Prof. Sangram Mudali, Dr Ajit Kumar Panda, Prof. Geetika Mudali

National Institute of Science & Technology, Berhampur, 761008
I
t gives me a great pleasure to inform you that the campus recruitment for the graduating batch of 2015 was excellent. More than 35 companies from the Information Technology, Product Manufacturing, Design, CONSULTING and Service sectors have recruited our students in good numbers. Most of the students have already joined in various companies.

The industries are doing well now. The campus recruitment of the graduating batch of 2016 is knocking at the doors and can start anytime in September 2015. The students are required to prepare thoroughly & brush-up their aptitude, GD, Technical & HR skills exhaustively. The students should go through various portals to get the latest updates about campus recruitment of the current batch.

I have already informed the students of the final year about the APAC University Graduates Test of Google India one of the most sought after companies in India for a lucrative and challenging job. The test is open for anyone above 18 years of age and with excellent programming skills. You can register and take the online test scheduled on September 20th, October 18th and November 8th 2015 on the website: https://code.google.com/codejam/apactest. For any queries you may contact the Placement Department.

There are different types of companies and different types of eligibility criteria to appear the selection processes. Some companies consider the students who are throughout Career 60% and above (first division marks from 10th onward), they are generally referred to as career companies and some are non-career companies which allow the students even if they don’t have 60% marks in 10th, 12th or diploma.

Last year the following Non-Career companies have provided career opportunities to our students: Wipro Technologies, Miracle Software Systems, NTCS India, Perfect VIPs, Wipro Infrastructure Services, Aanvi Support, Epic Research, Entuple, ESSPL, Globussoft, Ramtech, HCL, Keeves Technologies, Broadcom, Caliber Technologies, Myntra.com, Semtech Technologies, AptusDataLabs Technologies Pvt. Ltd, Seawind Solutions, Thyrocare, Neelal Technologies, RetailOn, ShieldwatchInfoTech, etc.

Also, the following throughout Career 60% companies have also provided career opportunities to our students: Infosys Limited, L & T Technology Services, Tech Mahindra, Capgemini, Hexaware Technologies, HCL Technologies, R-Systems International, Sankalp & KPIT Semiconductor Pvt. Ltd., AMDOCS, Cadence, CoreEL Technologies, GGK Technologies, PRATIAN Technologies, Innofied Solutions, etc.

I urge all the students of final year to prepare well and give in their best for the campus recruitment as this is a golden opportunity to get a good job. I wish all the best to the students of the graduating batch of 2016 for their forthcoming campus recruitment season. Do well and make everyone proud!

Geetika Mudali, Placement Director
Nanosoft by NIST
Entrepreneurship Development Cell (EDC) in collaboration with Sunmoksha and NTCS has developed NanoSoft Technology which is now widely used and highly appreciated in the field of trade and industry. Being developed to use, control, and monitor electricity remotely, Nanosoft has immensely benefitted the farmers and citizens. The technology has substantially contributed in making Chhotkei, a village of Angul district, India’s first Smart Grid Village. The installation of the power plant at Chhotkei has been done in association with Sunmoksha, Wartsila, Kotak and OREDA.

Vehicle Tracking System by NIST
National Institute of Science and Technology, the premier technical institution of South Odisha, has achieved another milestone in the field of science and technology. After Nanosoft, the Vehicle Tracking System (VTS) developed by the researchers of NIST Training and Consultancy Services (NTCS) of the Institute is all set to serve general public. To use the VTS go to http://www.vtslive.in/nist.

VTS is a modern GPS based technique which enables schools, colleges, bus and taxi operators to obtain detailed information about the movement of their vehicles via internet. It also helps in tracking the speed of the vehicle and consumption of fuel. In addition to this, VTS ensures the safety and security of the students as the speed and movement of the vehicles can be tracked by their parents through mobile applications. The accuracy of information will help the commuters to reach their stoppages on time. Presently, this technology is being used, for a fleet of 20 buses at NIST and a few other organizations in India.

MNRE Secretary Appreciates RE Innovations at NIST
Government of India, Ministry of New and Renewable Energy (MNRE), Secretary, Shri Upendra Tripathy along with Dr V K Jain, MNRE, Shri Bivash Panda, MNRE and Shri Ashok Choudhury, Odisha Renewable Energy Development Agency (OREDA) visited NIST on August 22, 2015. During his stopover he interacted with faculty and students involved in the RE Innovations. The whole team appreciated the Renewable Energy Innovations at NIST and discussed the future prospects with Prof. Sangram Mudali, Director, NIST, and Dr Ashok Das, CEO, SunMoksha.

NIST Wins Cadence Design Contest 2015
This is the second time in a row that NIST has won the Cadence Design Contest (Under Graduate Category). The team of Deepak Kumar Tripathy (2011 Batch) and Gyana Ranjan Panigrahy (2011 Batch) along with mentor Dr Ajit K Panda designed Automated Parking System using the Cadence Tool. The competition was held in Bangalore on July 22, 2015 and the winning team takes a prize of Rs. 50000.

ICBPC-2015
The following students (2011 Batch) of NIST have once again proved their mettle by winning the Best B Tech Project Awards in the Inter-College B Tech Project Competition (ICBPC 2015) organized by Silicon Institute of
Technology, Bhubaneswar and technically sponsored by BPUT on April 20, 2015. Ms Anisha Mahapatra and Ms Snigdha Sahoo from EE got the Best Project Award for Triboelectrification using thin Hydrophobic Polymer Coating; Mr Saurav Kumar from CSE for C/C++ Cloud based Online Compiler; and Mr V Ajay, Mr S K Patra, Mr V Nayak and Mr A Ranjan from ECE for Band Gap Reference Modeling and Layout in the event.

NIST Principal as BPUT Dean

Dr Ajit Kumar Panda, Principal, NIST has been appointed as the Dean of Computer Applications for Biju Patnaik University of Technology (BPUT) with effect from July 21, 2015. He is also appointed as the Dean of Science. His term is for a period of 3 years. This is a great honor for Dr Ajit Kumar Panda and NIST as well.

Faculty Awarded PhD

Mr Bishnukar Nayak, Assistant Professor, Dept. of Mathematics has been awarded PhD for the thesis: Some Interaction Studies on Relativistic Cosmology, Berhampur University under the supervision of Dr Upendra Kumar Panigrahi, Retired Principal, UCP Engineering School, Berhampur and Prof. V Uma Maheswar Rao, Former Head, Dept. of Applied Mathematics, Andhra University. Prof P.N.Pandey, Head, Dept. of Mathematics, Allahabad University was the external examiner for the PhD defense. Mr Nayak’s thesis was highly appreciated.

NEW RESPONSIBILITIES

Mr Santosh Kumar Kar, Assistant Professor, School of Computer Science has been given the responsibility of Assistant Batch Coordinator, B Tech 4th year, Mr Satyaban Panigrahi, Assistant Professor, Department of Mathematics has become the Superintendent, Hostel 8 Gajapati Nagar, Dr Diptendu Sinha Roy, Associate Professor, School of Computer Science is now the Coordinator, CSI NIST Students Branch Chapter and Mr Hemanta Kumar Nayak, Assistant Professor, Department of Mechanical Engineering is the new NSS Coordinator. Congratulations!

Orientation Programme on Basics for Freshers, 2015

The Orientation Programme on Basics for Freshers, 2015 was organized this year as usual with the high hope of widening the horizons and initiating the fresh engineering students to the rudiments of different disciplines other than engineering like Law, Ethics and Morality, Linguistics, Political Science, Journalism and Mass Communication, Entrepreneurship, Personality Development, Literature, English in the Corporate World, and Sources of Career Opportunities etc. A series of talks by experts from various significant areas inspired the freshers during August 10-22, 2015. It was inaugurated by the Director, Prof Sangram Mudali who maintained that students of NIST should not only be the front-runners in inventing the technical know-how in future and become the most advanced engineers, but also be adjudged everywhere as the best human beings, looking at the society from multiple perspectives derived from different disciplines. It was coordinated by Dr E. Raja Rao, Professor, Department of English.
WELCOME CEREMONY for 2015 Batch

NIST welcomed the Freshers of 2015 Batch in an Orientation Programme organized on August 8, 2015. The major objective of the programme was to tell the students and parents about the aspects of the course, the rules and regulations of the institute and ensuring parental participation in monitoring the performance and progress of the students. Prof Sangram Mudali, Director, NIST while addressing the newbies accentuated the role of the institute in preparing the students to become citizen engineers and stand unique among the lakhs of engineers graduating every year. He also encouraged the students to explore the wider compass of engineering studies. Prof Geetika Mudali, Placement Director shared her experiences of the industry, and the changing trends and requirements of placement. She also emphasized on the significance of good health for a healthy engineering career. The students also witnessed NIST’s journey from the year of its inception to the present day through a presentation. The students, on their very first day at the college, were introduced to the host of clubs and their activities. In addition, they were also informed about the counseling services at the institute.

National Seminar on Composites: Metals and Polymers

The Department of Mechanical Engineering, NIST conducted the National Seminar on Composites: Metals and Polymers on 31st July and 1st August 2015. The Honorable Vice Chancellor, BPUT, Prof. S. S. Pattnaik inaugurated the seminar in the presence of Prof. Altaf Khan, Registrar, BPUT, Dr R I Ganguly, Retired Professor and Ex-Dean, Metallurgical and Materials Engineering Department, NIT Rourkela, Prof. Sangram Mudali, Director, NIST and Prof. Geetika Mudali, Placement Director, NIST. The honorable VC shared his plans of revamping BPUT and stressed on the importance of the role of the management, faculty and students for the university to excel in terms of both academics and research. Prof. Sangram Mudali and Prof. Geetika Mudali shared their vision of training the students for the industry and showed the eagerness to see the students of NIST contributing their modest share towards the promotion of research.
and technology, through participation in such seminars. The resource persons came from various reputed organizations like the IITs, NITs, and Central Laboratories and the industry. The participants for the seminar came from different parts of Odisha, Andhra Pradesh, Telangana, West Bengal and Chhattisgarh. The speakers highlighted the basics and latest trends in metallic and polymer composites. The students actively participated in the program along with delegates. The program was coordinated by Prof. P S Rama Sreekanth and Prof. Venkata Siva, Department of Mechanical Engineering.

National Himalayan Trekking 2015

Every year in Summer, NIST students, faculty members and staff go on adventurous trips to Himalayan Ranges for mountaineering, rafting, biking and other exciting activities. This year was no exception. This year around twenty eight NISTians including students and faculty went on a National Himalayan Trekking to Sandakphu-Gurdum range - 11000 ft above sea-level during 15th-26th May 2015. The trekking was organized in association with the Youth Hostels Association of India (YHAI), West Bengal.

Project Day at NIST

The best 30 B. Tech projects from various categories of Hardware Design, Software Programming, Simulation and Modelling, VLSI Design and Renewable Energy were demonstrated by the final year NIST students on the Project Day and were evaluated by Industry Experts: Mr Gyana Pattnaik, Global Head, L & T Technology Services; Mr Arindam Das, Chief Operating Officer, Pratian Technologies (India) Pvt Ltd.; and Ms Suchitra Pattnaik, Director, TEKONS, Bhubaneswar.

NIST Principal at IEEE-EDS Governors’ Meet

Dr Ajit Kumar Panda, Principal, NIST and Senior Member, IEEE attended the EDS Governance Meeting at Singapore on 31st May 2015. The Mid Year Governance Meeting discussed nearly every aspect of the society’s operations ending with an extended Open Forum to provide a free exchange of ideas and debate on how it can continue to improve the society to ensure its preeminence as the World’s leading organization devoted to device engineering.
**Workshops/Conferences/Seminars Attended**

Mr Arabinda Panda, Associate Professor and Mr Aditya P Padhy, Assistant Professor from the Department of Electrical Engineering attended a two-day workshop on Low Voltage Hybrid AC-DC Microgrids (LVHADM) organized by the Dept. of Electrical Engineering, Andhra University during 2nd and 3rd March 2015.

Mr Venkata Siva, Associate Professor, Dept. of Mechanical Engineering attended a Short Term Training Program (STTP) on 3D Printing Experience at NIT Warangal from 5th - 9th, May 2015.

Mr Tirthraj Dash, Asst. Prof., Dept. of CSE was selected for the IASc/INSA/NASI Summer Research Fellowship 2015 and completed his internship under the supervision of Prof. Nikhil R. Pal, ECSU, ISI Kolkata during May-July 2015.

**Papers Presented**

Dr Ratnakar Mishra, Associate Professor and Ms Gayatri Panda, Assistant Professor, Dept. of Management Studies attended and presented a paper titled ‘Negative Personality traits and its impact on organizational Productivity: A Study on Retail Sector in Odisha’ in the conference “The Endless Pursuit of Winning in the VUCA Environment” held at KSOM, KIIT University, Bhubaneswar during 30th and 31st January 2015.

**Papers Published**

- Dr Debashis Panda, Associate Professor, Dept. of Physics along with A. Dhar and S.K. Ray published a paper: Diffusion Kinetics and Evolution of Self-Assembled Nickel Germanide Nanorings on Germanised Si(100) in RSC Advances, 5, 33283-33288 (April 2015).


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**Book Published by Faculty Alumnus**

Dr Balamati Choudhury, Scientist, Centre for Electromagnetics (CEM), CSIR-National Aerospace Laboratories has authored a book titled *Soft Computing in Electromagnetics: Methods and Applications* published by Cambridge University Press. Dr Choudhury has worked as a Senior Lecturer in the Dept. of ECE, NIST during 2006-08.

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**Book Published by Faculty**

Dr Ram Kulesh Thakur, Assistant Professor, Dept. of English has authored a book titled *Poetic Communication: A Study of Verbal Art*. This book is published by YKING Books, Jaipur (ISBN 978-82532-88-0) and is available at all leading bookstores. The book presents a new approach, i.e. Communicative approach to discover and discuss the embedded meaning and hidden effects of poetry. It analyses, interprets and evaluates the Verbal Art. It particularly concentrates on the deviant use of language, which lends multiplexity to the texts.

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**Book Published by Staff**

Mr Prashant Kumar Dash, Caretaker NIST Campus Hostel has authored *Pala: Laxmipurana and Chitrangada*. The book is published by Institute of Indian Music, Bhubaneswar. He has also authored a short story "Kichhikatha Rahijau" in a renowned Odia monthly named Odia Galpara Nabajatak Katha, Bhubaneswar. Mr Prashant is a regular writer in different Odia newspapers and magazines.
423 Job Offers
Highest Salary Package
Rs.10 Lacs per annum

Infosys

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Tech Mahindra
Japanese Government (Monbukagakusho: MEXT) Scholarships

Mr Shikhar Verma, student of Computer Science and Engineering (Batch 2010) received the Japanese Government (Monbukagakusho: MEXT) Scholarships 2014-15 of 145000 Yen per month to complete his Master’s Degree in Applied Information Science from Tohoku University, Japan. He has joined the course in the first week of April 2015.

International Internship in Taiwan 2015

Ms Swati Kumari, ECE (Batch 2012) completed the International Internship Programme 2015 at Academia Sinica, Taiwan under the Taiwan International Graduate Program. She worked in the area of Nano-Science and Technology under the guidance of Prof. (Dr) Kuei-Hsien Chen from 15th May to 30th June 2015. She received a scholarship of NTD 30,000/month-tax free (USD 1000) for two months plus one-way airfare. Her trip was sponsored by NIST.

IASc-INSAS-NASI Summer Research Fellowship 2015

Mr Paritosh Piyush Sahu, ECE (Batch 2012) completed his internship from Bose Institute, Kolkata. He worked on the topic: Study of Temperature Dependent Raman Spectroscopy under the supervision of Dr Achintya Singh, Bose Institute, Kolkata.

Ms Neha Bansal, ECE (Batch 2012) completed her internship on the topic: Energy Studies of Bluetooth Low Energy under the guidance of Dr Prasant Kumar Misra, Indian Institute of Science, Bangalore.

Ms Simpal Kumari, ECE (Batch 2012) completed her internship on the topic: Implementation of frame Acquisition Algorithm on 1 GBPS Optical Link on VIRTEX ML507 Evaluation Board under the supervision of Prof. Manivasakan, Dept. of Electrical Engineering, IIT Madras.

Winners at Cognizance 2015

Mr S Sachin, ECE (Batch 2013) and Mr G Abraham, ECE (Batch 2013) of the Electronics Hobby Club participated in the Annual Technical Festival of IIT Roorkee, Cognizance 2015 during 27th -29th March, 2015. They won the Prototype Model Making event beating participants from IITs and other colleges in a sturdy competition.

Coding Contest organized by NIST Club Excel

NIST Club Excel organized a Coding Contest on August 1st and 2nd, 2015. About 200 students participated in the Contest and winners were selected after four rounds of tough competition. Adla Sutej, Sekhar Banerjee, and Praveen Kumar of B’Tech (2013 batch) were adjudged 1st, 2nd, and 3rd in the Senior Category and Balwant Rathore, Amit Kumar Onprakash Prasad, and Sk Salman Hussain of B’Tech (2014 batch) as winners in the Junior Level.
Documentary Show by NAC

NIST Astronomy Club organized a documentary show “Journey to the End of the Universe” for 2nd year students on 4th and 8th August, 2015. The show intended to create awareness among the students about some facts of our solar system and information on other celestial bodies which are present outside the Earth such as Supernova, Galaxies, Stars, Black Holes and others.

REC Newsletter

The Renewable Energy Club has published its first quarterly e-newsletter GREENSENSE on the eve of Independence Day. It has been published at a time when the entire country has realized the potential of all renewable forms of energy. This newsletter will update the campus on various technocommercial advancements in the areas including the campus RE events and other connected developments across the globe.

Cosmic Dive by NIST Astronomy Club

The students of NIST Astronomy Club published their maiden issue of Cosmic Dive, a quarterly newsletter. The newsletter extensively covers theories of astrophysics, astrophysicists, latest astronomical gadgets and activities carried out by the club. Its prime motto is to ignite a sense of awareness among the common masses about the universal happenings and nourish the tendency of answering unusual events.

NIST SAE Club Enters Final Round

NIST Society of Automotive Engineers Club participated for the first time in a National SAE India Effi-Cycle Competition 2015 along with 190 other institutes of the country. NIST’s team MERAUDERS cleared the first round of the competition i.e., the Designing Round along with 80 other colleges with a license to fabricate and manufacture an EFFICYCLE. NIST is the fourth college from Odisha along with the top institutes of the state like NIT Rourkela, IIT Bhubaneswar and KIIT. MERAUDERS are getting ready for the combat which will be held at Lovely Professional University (LPU) Punjab on October 15, 2015.

INVITED TALKS

- Prof. J Majhi, Visiting Professor of NIST, and Former Professor of IIT Madras delivered a talk on Higher Education in India: Problems and Challenges at the TIFAC Seminar Room on 14th August 2015.
- Mr Gyana Pattnaik, Gobal Head, L & T Technology Services and Mr Arinadam Das of Pratian Technologies delivered talks on Embedded System and its related Technology on 11th April 2015 in TIFAC Seminar Hall.
- Prof. Amit Kumar Mishra, Assistant Professor, University of Cape Town, South Africa (former faculty of IIT Guwahati) visited NIST on 14th July 2015 and delivered a talk on “Few advances in engineering and How to do Research” at the TIFAC Seminar Room. His research interests include Signal Processing, Pattern Recognition, Radar and Remote Sensing, Big Data.

Antenna Position Controller

An expert from Sahajanand Laser Technology, Gandhinagar installed and demonstrated the Antenna Position Controller in TIFAC 104 (Microwave Measurement Lab) on July 7, 2015. The faculty and staff members from the associated field attended the demonstration and were immensely benefitted.

Mentor Graphics Tool Training

Mr N Vidy Prakash, Field Application Engineer, Mentor Graphics, Bengaluru installed the tool in the server room and trained the faculty and staff members on April 13, 2015.
**THURSDAY LECTURE SEMINAR SERIES**

<table>
<thead>
<tr>
<th>Date</th>
<th>Speaker(s)</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 26, 2015</td>
<td>Mr. Rajeev Ranjan, Mr. Bhabani Sankar Samantray, Mr. Mitu Baral, Mr. D. Kanhar and Mr. B P Patnaik</td>
<td>Machine Learning Algorithms and Data Analytics, Implementation of dense matrix multiplication on 2D mesh, Comparison of a 32-bit Vedic Multiplier with a Conventional Binary Multiplier, Academic Leadership</td>
</tr>
<tr>
<td>April 9, 2015</td>
<td>Mr. Debashish Chowdhury, Mr. Sunil Kumar Panigrahi, Mr. Sibarama Panigrahi</td>
<td>Monitoring the change in resonance frequency of a dental implant in hardening dental plaster using micro controller, Statistical Analysis Of Parallel Matrix Multiplication In Simd Model Using ‘P’, ‘P2’, ‘P3’ Processor’s With Different Interconnection Networks, A Hybrid CRO-K-Means Algorithm for Data Clustering</td>
</tr>
<tr>
<td>April 16, 2015</td>
<td>Mr. Debasis Patro, Mr. Bhabani S Gouda, Mr. R K Shial, Mr. S.M.A.K. Azad, Ms. Monalisa Mishra</td>
<td>Concert Evaluation of Routing protocols in Manet using Random Waypoint Mobility Model, Glance of Smart Grid in India and Its Technology issues in Market, The intricate sections of sounds in pronunciation for speakers of English in Odisha</td>
</tr>
<tr>
<td>July 2, 2015</td>
<td>Dr. D. S. Roy and Dr. M. Reza, Mr. Pilla Kartheek, Dr. Ajay K Bhurjee</td>
<td>A Genetic Algorithm for Optimal Power Scheduling for Residential Energy Management, Characterization of Argon plasma Surface modified UHMWPE/MWCNTs nano-composites, Efficient Solutions of Multi-objective Optimization Problem with Interval Parameters</td>
</tr>
<tr>
<td>July 9, 2015</td>
<td>Dr. Alok Patra, Mr. Manoj Kumar Kar, Dr. Sandipan Mallik</td>
<td>Hafnium Based High-K Gate Dielectric, Conference on Automotive R&amp;D Trends, 7th edition-2015, Design, Analysis and Simulation of D-STATCOM for improvement of Power factor in a Grid connected system</td>
</tr>
<tr>
<td>July 16, 2015</td>
<td>Dr. Bhalakrishna Sahu, Dr. P Patro, Dr. Snehasis Kundu</td>
<td>Exploring frequency control capability of a PV system, Biogas production, purification and power generation, Inadequacy of particles in suspension in the near-bed region</td>
</tr>
<tr>
<td>July 30, 2015</td>
<td>Dr. D. S. Roy and Dr. M. Reza</td>
<td>A Genetic Algorithm for Optimal Power Scheduling for Residential Energy Management</td>
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</tbody>
</table>

The institute hosted a grand Farewell Party for the B Tech 2015 Graduating Batch on May 9, 2015. The final year students shared their experiences of the past four years. A warm send-off was given to the students by Prof. Sangram Mudali, Director, Prof. Geetika Mudali, Placement Director, Dr Ajit K Panda, Dean, Course Coordinators, Batch Coordinators and other Faculty members through a farewell followed by a sumptuous dinner. During the farewell function Prof Geetika Mudali felicitated the 9 pointers of each batch and course with Director’s Award of Merit.
Academic Honorarium Award (PhD)

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Thesis Title</th>
<th>University</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Bhanu P Behera</td>
<td>Overall Optimization of the process with strategic scheduling of small group of processes in presence of uncertainty: A case study</td>
<td>Berhampur University</td>
</tr>
<tr>
<td>Dr Lakshmi K Raju</td>
<td>A study on some aspect of inventory System</td>
<td>Utkal University</td>
</tr>
<tr>
<td>Dr Kola Premeswar</td>
<td>Working capital management of Indian corporate Houses</td>
<td>CMJ University, Meghalaya</td>
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</tbody>
</table>

Academic Honorarium Award (Best B Tech Project 2014)

<table>
<thead>
<tr>
<th>Category</th>
<th>Advisor</th>
<th>Project Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Renewable Energy</td>
<td>Prof. Sangram Mudali</td>
<td>NIST Electric Vehicle</td>
</tr>
<tr>
<td>Software Development</td>
<td>Prof. Bhawani S Patnaik</td>
<td>NIST VOIP Server on SIP Platform</td>
</tr>
<tr>
<td>Simulation and Modelling</td>
<td>Dr. M. Reza</td>
<td>Web based Simulation software on Multi-core platform</td>
</tr>
<tr>
<td>Hardware Development</td>
<td>Prof. Bhawani S Patnaik</td>
<td>Internet Controlled Security Robot</td>
</tr>
</tbody>
</table>

Academic Honorarium Award Research Papers (Jan 2014 – Dec 2014)

- Narayan Sahoo and Trinath Sahu, Oscillation of Electron mobility in Parabolic Double Quantum well structure due to applied Electric field, *AIP Advances* 4, 127106 (2014) (IF: 1.591, Online: ISSN 2158-3226)
- T. Sahu, S. Palo, P.K. Nayak and N. Sahoo, Enhancement of low temperature electron mobility due to an electric field in an InGaAs/InAlAs double quantum well structure Semiconductors 48, 1318-1323 (2014) (ISSN: 1063-7826, IF: 0.705)
Pradipta Majhi and Partha Garai, IT2 Fuzzy-Rough Sets and MaxRelevance-Max Significance Criterion for Attribute Selection, *IEEE Transactions on Cybernetics*, pp. 1-12, 2014. (IF: 2.01)


Peri K. Kameswaran, S. Shaw and P. Sibanda, Dual solutions of Casson fluid flow over a stretching or shrinking sheet. Sadhana - Academy Proceedings in Engineering Science. DOI 10.1007/s12046-014-0289-7 Impact factor 0.587

**NIST VLSI Team Develops Open Source EDA Lab**

The NIST VLSI team has developed the Open Source Laboratory Experiments named Open Source EDA Lab with the help of IIT, Bombay as part of the NMEICT (National Mission on Education through Information and Communication Technologies) Project. It includes 15 experiments on Analog and Digital Circuit Design prepared using the freely available OSCAD tool. The course can be downloaded from [http://freeeda.in/lab_migration_run//](http://freeeda.in/lab_migration_run//). The team has also developed the Video Courses on VLSI Design using Open Source EDA tool. It is a series of 36 lecture hours video and is now available at [http://www.nist.edu/Projects/NMEICT/index.html/](http://www.nist.edu/Projects/NMEICT/index.html/)
NIST Summer Research Internships & Fellowships

Around 40 interns from different reputed colleges and universities of the country, like VSSUT, Burla; MKCE, Tamil Nadu; BCRE, West Bengal; SUIT, Sambalpur; RGUKT, Andhra Pradesh; IIIT Hyderabad; Punjab University; SGGGSW University, Punjab; MIT, Manipal; NIT, AP; GGV, Bilaspur; NIT, Rourkela; IIIT Bhubaneswar; Jabalpur Engineering College; MAIT, Delhi; NIT, Manipur; ISM Dhanbad; SRMCEM, UP; VNIT, Nagpur; NIT, Jamshedpur, SVNIT, Surat participated in the NIST Summer Research Internship/Fellowship Programme.

The internship provides hands on educational experiences for a diverse pool of talented and highly motivated undergraduate and postgraduate (B Tech /MCA / M Tech) students and faculty of different engineering institutes in India. These opportunities expose many of the brightest engineering college students/faculty members to pursue research work in NIST environment. The objective of the program is to execute an innovative research and development project under the guidance of an NIST faculty.

The purpose of the scheme is to identify talented scholars who are interested to do research work with NIST faculty members. The scheme helps students and faculty members in promoting their professional growth by enabling them to devote extra time in research and development work.

Research Areas:

EOP 2015
The 11th Batch of Employment Oriented Programme with more than 100 students from underprivileged sections of South Odisha was trained in a fully sponsored 4 month programme on DTP, Computer Hardware Maintenance, Renewable Energy, Computer Skills, Electrical Repair, Workshop Practice, and Electronics Hardware Repair. This programme is a part of the Institute’s commitment towards social welfare. The programme was coordinated by Mr Asesh Kumar Tripathy, EOP Coordinator.

National Sports Day at Berhampur Stadium
The NIST Volleyball Team played a friendly match with Sports Hostel, Berhampur Stadium to mark the Ganjam District Athletic Association’s National Sports Day celebration on August 29, 2015 at Berhampur Stadium.
Dr Basant Kumar Sahu joined as Associate Professor in the School of Electrical Sciences. He has done his PhD in Control System from NIT Rourkela and M Tech in Electronics Design and Technology from Tezpur Central University, Assam. He has also done M.Sc in Electronics from Berhampur University. He was awarded the Canadian Commonwealth Scholarship by the Canadian Bureau for International Education, Govt. of Canada for pursuing research in the University of Saskatchewan, Saskatoon (2012-2013). He was also a Research Trainee at Central Electronics Engineering Research Institute (CEERI) during the year 2007-08. He has published over 15 papers in national and international journals of repute. His research interests include Control System, Advanced Robotics and Artificial Intelligence.

Dr Santanu Kumar Pradhan joined as Associate Professor in the School of Electrical Sciences. He has done his PhD in Control System (Electrical Department) NIT Rourkela and M Tech. in Energy System from IIT Roorkee. He did his B Tech in EEE from BPUT Odisha. He has over 4 years of teaching experience. Prior to joining NIST, he was working at VSSUT Burla, Odisha. He has also published around 10 papers in reputed journals. He is interested in Non-linear system identification and adaptive Control, Robotics and Renewable Energy.

Mr Pradeep Kumar Sahu joined as Assistant Professor in the School of Electrical Sciences. He has done his B Tech in Electrical Engineering from OSME, Keonjhar, M Tech in Power Electronics & Drives from KIIT University, Bhubaneswar and PhD in Distributed Generation System PV system from NIT, Rourkela. He has over 12 years of teaching experience. He has also published papers in reputed journals. His research areas are Power Quality Improvement of Grid-connected PV system and Control of Power Electronics converters.

Mr Krushna Chandra Jena joined as Assistant Professor in the Department of Civil Engineering. He has done his B Tech in Civil Engineering from Orissa Engineering College, Bhubaneswar and M. Tech in Geotechnical Engineering from NIT, Silchar. He has worked as Assistant Engineer at Simplex Infrastructures Limited, Kolkata for two years.

Ms Manisha Mohanty joined as Assistant Professor in the Department of Civil Engineering. She has done her B Tech in Civil Engineering from ITER, Bhubaneswar and M Tech in Environmental Science and Engineering from VSSUT, Burla.

Mr Biswajit Samal joined as Assistant Professor in the Department of Civil Engineering. He has done his B Tech in Civil Engineering from ITER, Bhubaneswar and M Tech in Structural Engineering from NIT Durgapur. He has also published a paper in a reputed journal.

Ms Ankita Suman Mohanty joined as Assistant Professor in the Department of Civil Engineering. She has done her B Tech in Civil Engineering from ITER, Bhubaneswar and M Tech in Structural Engineering from VSSUT, Burla.

Ms Padminee Samal joined as Assistant Professor in the Department of Civil Engineering. She has done her B Tech in Civil engineering from VSSUT Burla and M Tech in Water Resource Engineering from NIT Silchar. She has worked as Assistant Engineer at ACIL, Kolkata for two years.

Mr Lalita Kumar Maharana joined as Lab Assistant in the Dept. of Electrical Engineering; Mr Lambodar Badatya as Lab Supervisor in the Dept. of CSE; Mr Lalitendu Adhikari as Lab Supervisor in the Dept. of Electrical Engineering; Ms Lipsa Panigrahi as Lab Supervisor in the Dept. Of CSE; Mr Kishore Sahu as Lab Supervisor in the Dept. of ECE; Md. Adeeb Anjum Akhtar as Software Engineer in NTCS, and Ms Swayamprava Nayak as Lab Supervisor in the Dept. of ECE.
Mailbox

Hello :)
From: kewalkrishna<kewal07@gmail.com> Tue, Jul 7, 2015 at 4:56 PM
To: DipJ Ranjan Lenka<editornisitlenews@gmail.com>, AmrutPhalguniMohanty<phalguniamrut@gmail.com>
Hi Sir,
Disclaimer: Apologies for such a long mail but I earnestly hope you will go through it.
Hope you are doing great and the college greater.
I am writing this mail to inform you about a few things we have been up to and by us I mean the following set of ex-students:
Kewal Krishna (2008-12, CSE), Ankit Goyal (2008-12, CSE) and ShraddhaGautam (2008-12, CSE)
I did come to college last year during December but could not meet Amrut Sir as you were @ APEX. Meeting Dipi sir was awesome.
Well, life has not been on the same level of awesomeness as it was during college. How badly we miss them! However, we have been trying to do some interesting work. Just to give you a brief of where we work: Ankit and Shraddha work @ Intel and I was recently working @ Philips R&D and have now joined a start-up, Grabhouse. I have also filed a patent (which is now being evaluated by the US Patent Office) during my stint with Philips. We three along with another student, Varenya Thyagaraj (2008-2012, ECE) won the National Google Chrome Developer Hackathon, which was conducted last year and the results were announced sometime in November. Yes, NIST students defeated people from IITs, other big colleges, and other organizations and start-ups which took part in the competition and stood first. Thanks again as we owe it to you and the college.
Now, we three along with a couple of guys from IIM Bangalore are working on a Social Polling concept - www.askbypoll.com which is trying to solve the problem of easily getting the public opinion on a question to ease the decision making. We are a 5 member strong team with varied technical and business backgrounds. We are at a stage where the initial product is ready and we are in the initial Beta launch and testing. We have just launched the site to a few people this Sunday and have around 100 users. I request you to try it out and share your feedback. A few questions that may interest you could be: https://www.askbypoll.com/polls/93/which-is-the-best-college-in-brahmabad https://www.askbypoll.com/polls/featuredpolls
If you need any more information about the site or what the future road map is I would be very happy to connect with you and talk in detail. One glimpse of the future road map can be seen when you register on the site, vote on a question and then analyse the results. There are going to be a lot of features such as expert dissecting the polls and results, blogs and so on in the near future.
Well, this has been a very very long mail. I thank you for your patience and eagerly await your feedback and comments. Do write to me with any and all feedback @ kewal07@gmail.com.

Thanks & Regards
Kewal

From: Prof. Nitin Chattopadhyay<nitin.chattopadhyay@yahoo.com>
Date: Thu, Mar 26, 2015 at 12:13 PM
Subject: I still remember your Institute.
To: “smudal@nisl.edu”<smudal@nisl.edu>
Dear Dr. Mudali,
Hope you are all fine.
Let me first introduce myself. In the year 2011 (October 18-22) Professor Mihir Hota of your Institute organized a DST sponsored INSpire program where I was invited to deliver a talk. In that occasion, I visited your institute. I was really impressed seeing your activities and specially your activeness and inspirational behavior towards the activities and performances of both the students and faculty members. I still remember that a students’ festival was going on simultaneously in your institute. I was extremely happy to see that you spent a lot of time with us and we visited the various activities of the students.

I still remember that I suggested you to get the permission for introducing regular courses in science faculty as well and you informed me that you will do it (you needed to wait for a few years as a pre-condition for it). Now I see that NIST has A accreditation from NAAC. It is as per my expectation.
I appreciate your enthusiasm and service to your dream child (your institute). I would be happy to visit you and your institute again if opportunity comes.

I wish you all the best.

Thanks and regards,
Dr. Nitin Chattopadhyay, F.A.Sc.
Professor, Department of Chemistry,
 Jadavpur University, Kolkata - 700 032. India.