



NAAC (UGC) accredited NIST with Grade 'A' and highest rating of 3.22 among all engineering colleges of Odisha.



OUT
BOUND



NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY

Our Vision

Our aim is to create engineering minds capable of mastering the global challenges of tomorrow's technology.



Our Goals

- To be the premier technical institute of Eastern India - both in providing quality education and in performing high caliber research.
- To be a Center of Excellence at the national level in research
- To provide an atmosphere for the wholesome development of graduating students in academics, sports and life skills.

To create an Educational Institute for nurturing Quality Engineers and Managers for growth of Indian Industries, to develop Entrepreneurs and to pursue Innovative Research on Emerging Technologies for the Future Generation.

Our Mission



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Thought Leaders Since 1996



Prof. Sangram Mudali, Director

B. Tech from IIT, Kanpur, M.S from University of Houston, USA. Worked in top-notch US and Indian companies in the area of CAD/CAM. Received J.F.K. Lincoln award. Set up Technical Consultancy firm in Electronic Design Automation in FPGA and VLSI in New Delhi. Founder Promoter and Director of NIST since 1996, and keen promoter of research groups like Robotics Group, Embedded Systems Group and the Bioinformatics Group. Recipient of "Shikshya Gourav Award". Ex-member of the Board of Management of Biju Patnaik University of Technology. Passionate about e-Governance in Educational Institution. An able administrator and a pioneer of the quality technical education in Odisha.



Placement Director
Prof. Geetika Mudali

Engineering Graduate from Osmania University and M.S. from New Jersey Institute of Technology, USA, in Management Information Systems. Worked with several IT companies. Founder and Promoter of NIST and worked untiringly for growth of the Institute. Lays special emphasis on soft skills among students. Under her stewardship, the NIST group has tasted quality success, bringing the top IT firms of India to Odisha for the first time. Her research interest is in the area of Data Mining and Data Warehousing. She is the key initiator of many Institute-Industry partnerships at NIST.



Dean
Prof. Ajit Kumar Panda

Ph. D. in Microelectronics from Sambalpur University. CSIR Fellow during Ph. D., with the CSIR Research Award. Received the BOYSCAST fellowship from the Department of Science & Technology, GOI and pursued his Post Doctorate work in Microelectronics at University of Michigan, USA. Recipient of ICTP for six years for collaborating with ICTP Microelectronics Laboratory. Coordinator of TIFAC CORE in "3G/4G Communication Technologies" at NIST. Published 55 International Journal papers and presented work in more than 60 International/National Conferences on VLSI and Microelectronics. Has also developed the world standard VLSI lab of NIST.



Course Coordinator, B. Tech.
Prof. Arun Kumar Padhy

Ph. D. in Chemistry from Berhampur University. Worked as University Research Fellow in a UGC sponsored Project at the Department of Chemistry, Berhampur University. At the genesis of NIST he joined as a fellow member and gradually rose to the rank of a Professor. Worked as a Visiting Scientist at the University of Denver in a US Medical Defence Project. He has authored around 20 publications in different National and International refereed journals. He is a recipient of Dr. R.K. Nanda Award and Young Scientist Award from the Odisha Chemical Society. His research interest is in nanoscience and organic synthesis of nano particles.

Why NIST ?

“It is our humble endeavor, to bring world class teaching and research to the undisturbed environs of south Odisha, a region untouched by progress and modernity.”

“60 acre green campus in the lap of Mother Nature away from hustle and bustle of city life.”

“More than 6000 alumni working all over the globe are a testimony to our pursuit of global standards in engineering and management education.”

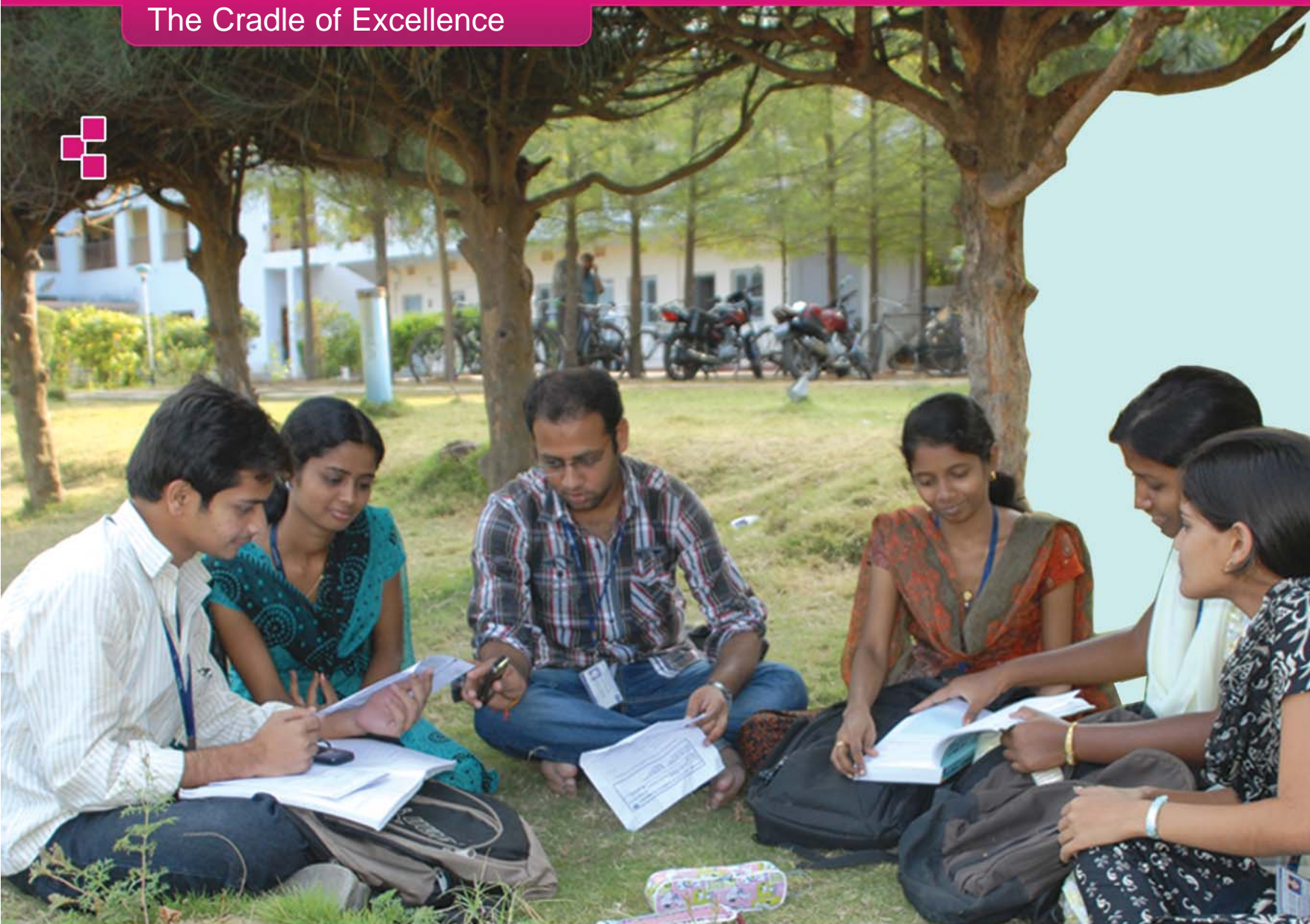
“The institute is a thought leader in Eastern India, in its student centric administration and interdisciplinary research and training.”

“Focus on research led teaching, leads to innovation.”

“Started with a modest intake of 180 students in the year 1996, NIST is today a home to more than 3000 students, 400 faculty members and staff.”



The Cradle of Excellence



NIST, on the outskirts of the city of Berhampur, in the heart of nature, is beneath the gentle slopes of the Palur hills,

Surrounded by verdant greenery, inquisitive students gather here to study and become scientists and technocrats in a variety of disciplines.

*It is essential to bring quality and accountability
Back into education, but it is not enough.*

*We must go further and introduce the new skills
that are appropriate to the information society,
skills that are equally valuable in the classroom
and in the corporation – thinking, learning and creating.*

The start of NIST's offerings, is the Lecture Hall Complex, 5 storied megastructure covering more than 70,000 sq. ft of class rooms and laboratories with all modern amenities.

Galleria consists of over 1,25,000 sq. ft, encompassing 16 modern laboratories with all equipment, aids and an auditorium for 450.

The modernistic Atrium hosts the NIST Business School and is home to the library, computer center, laboratories, conference center, café corner and air conditioned class rooms.



World Class Infrastructure

The multi-storied **Octagon** with state-of-art technology houses the food court, library and computer center.



40,000 sq.ft. of Research space for India's only TIFAC CORE in "3G/4G Communication Technologies".

A leader in e-Governance, the **Online Information System** on the intranet provides real time know-how, on the entire working of NIST.

Budding entrepreneurs and incubators in EDC Building.

Fully **wi-fi** campus and hostels.

SMS alerts to students and parents.

"**Smart Learning**" the complete e-teaching software for real time teaching, assessment and feedback information, at the 'click of a mouse'.

Access to subscribed **NPTEL** courseware.

Video conferencing facility for expert knowledge from all over the world.

Library access through **smart cards**.

Access to 600+ **e-journals** (IEEE, ELSEVIER, SPRINGER, j-GATE, McGraw Hill) and **ebooks**.

Transparent, friendly administration dedicated 24x7 for student welfare.



Courses of Your Choice

NIST is affiliated to Biju Patnaik University of Technology (BPUT).

You can choose a four year degree programme, leading to a Bachelor of Technology (B. Tech) in :

- ☞ Computer Science and Engineering
- ☞ Information Technology
- ☞ Electronics and Communication Engineering
- ☞ Electrical and Electronics Engineering
- ☞ Electronics and Instrumentation Engineering
- ☞ Mechanical Engineering
- ☞ Electrical Engineering
- ☞ Civil Engineering

or a Masters programme

- ☞ M. Tech in Computer Science and Engineering
- ☞ M. Tech in Electronics and Communication Engineering
- ☞ M. Tech in Electrical Engineering
- ☞ M. Tech in Wireless Communication Technology
- ☞ M. Tech in VLSI and Embedded Systems
- ☞ M. Tech in Electronics and Instrumentation Engineering

- ☞ Master in Computer Application (MCA)
- ☞ Master of Business Administration (MBA)
- ☞ Post Graduate Diploma in Management (PGDM)

or a Ph.D. programme in Science and Engineering.

All covering the gamut of specializations, that are of vital importance in today's complex technological world.

ADMISSION

Admission to **B. Tech.** is through Odisha Joint Entrance Exam (**OJEE**), All India Engineering Entrance Exam (**AIEEE**) conducted every year in May/June by the Government of Odisha, and **CBSE** respectively.

Admission to **MCA** is done through Odisha Joint Entrance Exam (**OJEE**),

Admission to **MBA** and **PGDM** Programmes is through Odisha Joint Entrance Exam (**OJEE**), CMAT, CAT, XAT, and MAT Examinations.

Admission to **M. Tech.** is through **GATE, OJEE / BPUT**



Packing the Extra Punch

Students of all disciplines in B.Tech. are taught certain compulsory Computer Science and IT courses as computers are of vital importance in everyday life, especially for a student on the verge of becoming a technocrat.

- Programming in C • Data Structures • RDBMS
- Object Oriented Programming Systems • Software Engineering
- Computer Networks • Operating Systems



In a World that is constantly changing,
There will be no one subject or set of subjects
That will serve you for the foreseeable future,
Let alone for the rest of your life.
The most important skill to acquire now, is learning how to learn.

Basic courses in Electronics Engineering have been incorporated into all branches:

- Basic Electronics
- Digital Logic and Circuits
- Electronic Circuits
- Microprocessors & Microcontrollers
- Digital Signal Processing
- Communications Engineering

The syllabus at NIST has a unique composition, offering “Technical Communication” in the first semester and “Environmental Engineering” and “Entrepreneurship Development” in the seventh semester to all students.

To prepare the students meet industry requirements and make them employable, NIST offers the following industry oriented courses to all students:

- Electronic Design Automation Software Tools for VLSI/ASIC Design
- Advanced Industrial Automation Technology
- Embedded System and Embedded VLSI
- 3G/4G Communication Technologies
- Business Process Integration using SAP
- J2EE and Rational Rose
- Certification Course on Cisco Certified Network Associate (CCNA)
- Certification Course on ORACLE 11g
- Data Warehousing, Data Mining & Business Intelligence on SAP Platform
- HPC and Cloud Computing
- Software Design & Testing
- Spoken English Language Course
- Japanese Language Course
- Business English Certificate (BEC) Course



Putting Theory into Practice

A plethora of laboratories here put engineering theory into practice.

For more than the teaching in the classroom, the students learn by doing things on their own.



Including Hi-Tech Computational Labs like :

- Open Systems Programming Lab
- Database Engineering Lab
- Computer Architecture Lab
- Computer Networks Lab
- Operating System Lab
- Compiler Design Lab
- Advanced Microprocessor Lab

- Digital Logic Lab
- Advanced Electronics Lab
- Power Electronics Lab
- Energy Conversion Lab
- Sensors and Signals Lab
- Electrical and Electronics Measurement Lab
- Instrumentation Lab
- Virtual Inst. Lab
- Physics Lab

- Electronics Workshop
- Devices and Circuits Lab
- Control Engineering Lab
- Mechanical Workshop
- Communication Systems Lab
- Digital Signal Processing Lab
- Antenna and Telematics Lab
- Light Wave Engineering Lab
- Antenna Fabrication Lab

- High Frequency Lab
- TV & Radar Lab
- Process Control and Automation Lab
- Power Systems Lab
- VLSI Design Lab
- Robotics and CNC Lab
- Thermodynamics Lab
- Chemistry Lab



In an information society, education is not a mere amenity,
It is the prime tool for growing people and profit.

<http://www.nist.edu>

Research Labs

- Radiation Measurement Lab
- Device Fabrication Lab
- RT Lab
- CADENCE Lab
- Microwave Measurement Lab
- LTE Lab
- WiMax Lab
- VLSI Design Lab
- Embedded System Lab
- Optoelectronics Lab
- IBM Lab
- NI LabVIEW Lab
- HPC and Cloud Computing Lab
- Open System Programming Lab
- Design and Simulation Lab
- Software Design & Testing Lab
- CAD/ CAM and Robotics Lab
- Nanotechnology Lab
- Multimedia and Animation Lab



Faculty Mentors



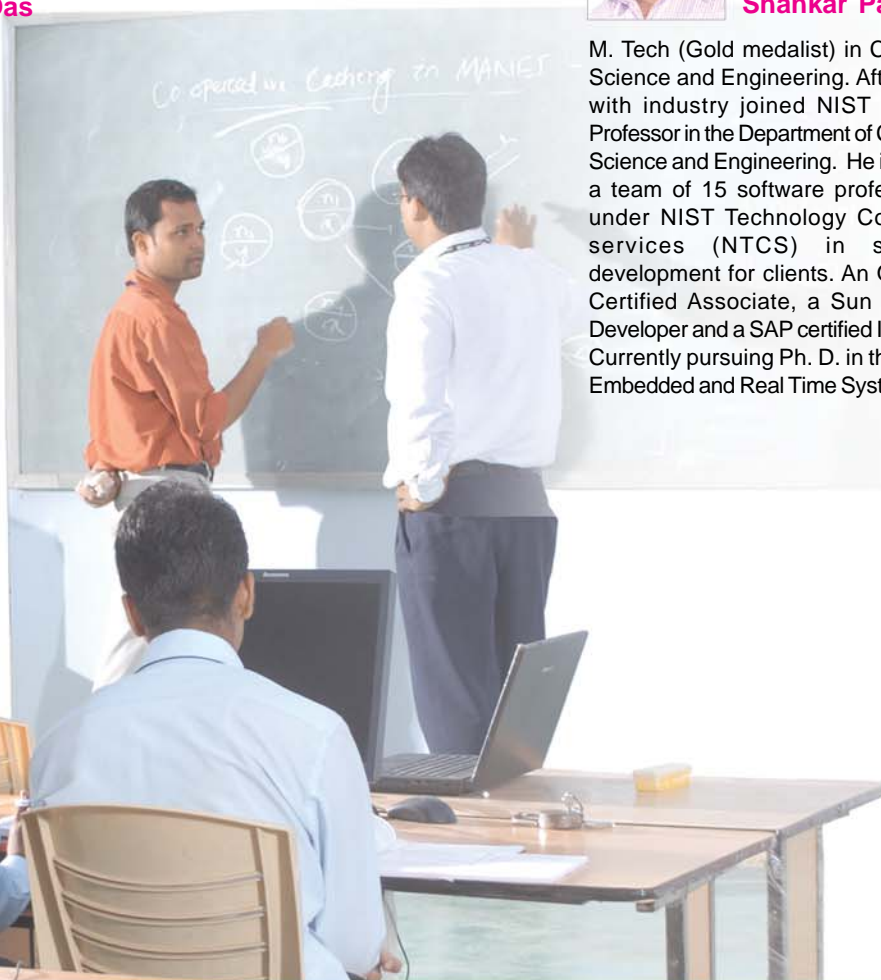
Course Coordinator
MBA and PGDM
Mr. Shom Prasad Das

M. Tech. in Computer Science and Engineering. Worked with Tata Consultancy Services as Project Leader for clients like American International Group, GE, Toyota etc. Joined NIST as Assistant Professor in Computer Science and Engineering. A member of IEEE, ACM, USA. Currently continuing his Ph. D. in the area of Computational Finance. His current area of research is Machine Learning, Business Intelligence & Computational Finance.



Coordinator
NIST Technology
Consulting Services
Mr. Bhawani
Shankar Pattanaik

M. Tech (Gold medalist) in Computer Science and Engineering. After a stint with industry joined NIST as Asst. Professor in the Department of Computer Science and Engineering. He is leading a team of 15 software professionals under NIST Technology Consulting services (NTCS) in software development for clients. An ORACLE Certified Associate, a Sun Certified Developer and a SAP certified Instructor. Currently pursuing Ph. D. in the field of Embedded and Real Time Systems.



Course
Coordinator
M.Tech.
Mr. M. Suresh

He has done his Master of Engineering in Electronics & Tele Comm. Engg., Jadavpur University. Has published several papers in National and International journals and conferences. He has more than 14 years of teaching and research experience to his credit. Highly respected for his pedagogy. Pursuing Ph.D. in Digital design using FPGA & VLSI.



Course
Coordinator
MCA
Mr. Pradeep K.
Jena

He has done Master in Computer Application and professional certifications such as 'B' Level from DOEACC, New Delhi, CCNA & CCAI from Cisco. He has an experience of more than 14 years in teaching and his research interest lies in the field of data mining and image processing.



Placement
Coordinator
Dr. Sudhir K.
Panigrahy

M. Phil., Ph. D. in Economics from Berhampur University and MBA in HRM. He has qualified UGC NET in 1994 & 1995. He is the recipient of Gold Medal of Berhampur University. Currently guiding a number of Ph.D. students in the area of Applied Econometrics & Human Resource Management. Has teaching experience of more than 17 years. He is also the Coordinator of Entrepreneurship Development Cell (EDC).



R & D
Coordinator
Dr. Motahar
Reza

M. Sc. from Jadavpur University in Applied Mathematics, Ph. D. in Fluid Dynamics from IIT, Kharagpur, Done his Post Doctoral Research in Institute of Fluid Mechanics (LSTM), University of Erlangen-Nurnberg, Germany in 2005-06 Received Samanta Chandra Sekhar Young Scientist Award for Physical Science. Has got BOYSCAST Fellowship in 2005 from DST. He has also qualified GATE and NET (CSIR-UGC).



Batch
Coordinator
Dr. Sukanta K.
Tripathy

Ph. D. in 'Optical Communication' from Berhampur University and has more than 15 years of teaching and research experience. Presently guiding a number of Ph. D. students. Has published over 30 papers in refereed National/International journals. His research interest is in micro / nano photonics, fiber optics, integrated optics, optical logic gates & holographic coupler.



Batch
Coordinator
Mr. Rabindra K.
Shial

B. Tech., Moulana Azad College of Technology, Bhopal (REC), M.E., Bengal Engineering College, West Bengal. He is a CCNA from IIIT, Hyderabad. Has more than 13 years of teaching experience. He is a life Member of ISTE and OITS. Pursuing Ph.D. in the area of Grid Computing and Routing in Adhoc Networks.



Batch
Coordinator
Mr. Satyabrata
Das

B. Tech., NIT, Rourkela and M. Tech., MNNIT, Allahabad. Over 18 years of teaching and research experience in DSP, Virtual Instrumentation. He is the Coordinator of GATE Club. Pursuing Ph.D. in the area of Image Processing and Color Image Segmentation.



Batch
Coordinator
Mr. Trupti Ranjan
Lenka

B. E., NIST, M. Tech. in VLSI Design, U.P. Technical University. Pursuing Ph.D. in Heterostructure Semiconductor Microwave Devices. His research interest is in the field of VLSI design, Semiconductor Physics, iii-V Semiconductor & microwave devices. Has published over 10 papers in reputed IEEE journals.

Core Faculty Members

Faculty members are technocrats with 'hands on experience'
Management teachers with industry know-how,
Soft Skills trainers – passionate about working
on problems, challenges and the solutions.



Prof. Shankar Prasad Pati **AICTE Emeritus Professor**

SIETE, SIMS, Former Professor, Sambalpur University and Berhampur University, Department of Electronics, Former Director, UGC Academic Staff College, Sambalpur University. Research Interest in Semiconductor Physics.

Prof. Jagabandhu Majhi **AICTE Emeritus Professor**

Former Professor, Berhampur University and IIT – Madras. More than 36 years of teaching and research experience. Research Interest in Materials Sciences.

Prof. Niranjan Das **Emeritus Professor**

Retd. HOD and Professor, Department of Electronics & Telecommunication Engineering, UCE, Burla, Former Research Scientist, Brown Beverages, Switzerland, Advisor, DRDO. Research Interest in Communications Technology.

Prof. G. N. Dash **Sabbatical Professor,** **Prof., Sambalpur Univ.**

Ph.D. in Electronics, has an experience of more than 35 years in teaching and research. Research interest in Microwave Semiconductor Devices.

Prof T. Sahu **Professor, ECE**

Ph. D. from Berhampur University. More than 40 years of teaching & research experience. Published more than 50 papers in reputed journals. Research interest includes Electronics Devices & Single Electron Transistor.

Dr. Satya Sopan Mahato **Associate Prof., ECE**

Ph. D. from Jadavpur University. Presently working in MHRD project in collaboration with IIT, Kharagpur on "Virtual Laboratories".

Dr. Rajib Kumar Panigrahi, **Associate Prof., ECE**

Ph.D. from IIT, Guwahati, M.Tech. from Cochin University of Science and Technology, Cochin. More than 5 years of teaching & research Experience. His area of Research includes Microwave and Wireless Communication.

Dr. Trilochan Panigrahi **Associate Prof., ECE**

Ph.D. on "On the Development of Distributed Signal Processing Techniques for Wireless Sensor Network". M. Tech. in ECE. Research interest in Wireless Sensor Network, Distributed Signal Processing, Array Signal Processing and Soft Computing.

Dr. Santosh Kumar Patnaik **Associate Prof., ECE**

Ph.D. in Electronics and Electrical Communication Engineering from IIT Kharagpur and M. Tech. in ECE from

NIST. He is having an active research interest in Analog, Mixed Signal, RF Circuit Design and Analysis.

Dr. Subhagata Chattopadhyay **Professor, CSE**

Done his MBBS and Post-Graduate Diploma in Gynecology & Obstetrics from Calcutta Medical College, Kolkata, M. Sc. in Bioinformatics from Sikkim Manipal University, Ph. D. in Information Technology from IIT, Kharagpur. Pursued a prestigious postdoctoral fellowship in the University of New South Wales (UNSW), at its Singapore and Sydney campuses. Research interest is in Applications of IT in medical fields. Published over 30 papers in journals of repute.

Dr. Diptendu Sinha Roy **Associate Prof., CSE**

M. Tech. & Ph. D. from BITS, Mesra, with 3 years of teaching and research experience. Working in the area of Parallel Processing and Computer Architecture.

Mr. Anisur Rahman **Associate Prof., CSE**

M. Tech., Computer Science, Indian Statistical Institute, Kolkata, M. Sc. (Pure Mathematics), University of Calcutta. Has industry, teaching and research experience of over 7 years in Parallel Computing, Algorithm design, etc. Pursuing Ph.D. in the area of Parallel and Distributed Computing.

Core Faculty Members

Mr. Debananda Kanhar Associate Prof., CSE

M. Tech., IIT Kharagpur. Currently pursuing Ph. D. under BPUT, Odisha. Having more than 5 years of academic experience. Coordinator, IBM Center of Excellence, Infosys Campus Connect and Wipro Mission10X Program.

Dr. Tanmoy Kanti Das Associate Prof., CSE

Ph.D. from Jadavpur University, his research interest lies in the field of digital watermarking, wireless sensor network and data mining.

Dr. Arindam Chaudhuri Associate Prof., CSE

Ph. D. in Computer Science from Netaji Subhas University, Kolkata. He has several published papers and book chapters to his credit. His research interest lies in the field of soft computing and optimization problems.

Prof. Alok Kumar Ghosh Professor, EEE

Ph.D. from Jadavpur University & B.E. in Electrical Engineering from North Bengal University. More than 30 years of experience in Industry and academia.

Prof. P. Kabisatpathy Professor, EIE

Ex. Prof, CET, Odisha, Ph.D. from IIT, Kharagpur. He carries an active research interest in the fields of Control & Automation Engineering, Bio Medical Instrumentation, Analogue & mixed signal, VLSI design and testing.

Dr. Abhro Mukherjee Associate Prof., EIE

Ph. D., M.S., in Industrial Control & Applied Informatics from Ecole Centrale de Lille (Prestigious French Grande Ecole) France, Received the prestigious 'Excellence Eiffle Scholaship' from the French Government. His research interest lies in the field of Active stabilization of rotors with circulating forces with spinning dissipation.

Prof. S. N. Sahu Professor, Physics

Ph.D. in Physics from BHU. He holds a vast teaching and research experience from the Institute of Physics, (an autonomous Research Institute under Dept. of Atomic Energy, Govt. of India). Currently, Director, Center for Nano Science and Nano Technology @ NIST.

Dr. Martha Narayan Murty Professor, Physics

M. Sc. Physics from Berhampur University, Ph. D. on 'Algorithm and Architecture VLSI Implementation of Discrete Sine Transform'. More than 35 years of teaching experience.

Dr. Mihir Hota Associate Prof., Physics

Ph.D. from Berhampur University in Optical Communication & M. Sc. from Utkal University. Research interest in Fiber Optics, Holographic Coupler & Optical bistability, Optical switching Application of Nanotechnology (Opto Electronics).

Dr. Saiful Rahman Mondal Associate Prof., Mathematics

B. Sc. and M. Sc. in Mathematics from Aligarh Muslim University, Ph. D. from IIT, Roorkee. Pursuing Post Doctorate at Korea.

Dr. Sujit Samanta Associate Prof., Mathematics

Ph.D. in Mathematics from IIT, Kharagpur and M.Sc. in Applied Mathematics with Oceanology and Computer Programming. He is having a vast research experience as a Post Doctoral fellow in several foreign Universities of Portugal, France and Canada.

Dr. Srabani Mahata Associate Prof., Chemistry

Ph.D. & M.Sc. in Chemistry. Research interest in Nano T₁₀₂ synthesis for different applications.

She was awarded by the Materials Research Society of India for best presentation.

Dr. Duryodhan Sahu Associate Prof., Chemistry

Ph. D. from Research Centre for Applied Sciences, Taiwan. Post Doctoral Research Fellow. Research interest in the area of synthesis of organic material, OLEDs, Dye Sensitized Solar Cell and nano-structural polymers.

Dr. E. Raja Rao Professor, English

Ph. D. in English, Utkal University. Former Prof. English, Former Director, Center for Canadian Studies, BU, Senior Fulbright Fellowship at the University of Pennsylvania, Philadelphia, US, Canadian Academic Fellowship at the University of Regina. Canadian Academic Research Fellowship at the University of Winnipeg, Canada, Teaching experience of more than 40 years.

Prof. Ashok Kumar Mohanty Professor, Management

Ph.D. and M.Com. from Utkal University. He has been teaching for the last 39 years. Research interest in capital market and financial services.

Prof. Arun Kumar Mohapatra Professor, Management

Ph.D., M. Com, LLB with more than 34 years of experience in teaching at government

colleges. Has supervised 3 Ph.D. theses, 4 M. Phil. theses and other P.G. projects.

Dr. Sisira Kanti Mishra Associate Prof., Management

Ph. D. in 'Capital Market Efficiency through Share Price Behavior', M. Phil. in both Commerce and Futurology, BU, continuing D. Litt. More than 12 years of teaching experience.

Dr. Ratnakar Mishra Associate Prof., Management

Ph. D. on "Human Right Perspective of Industrial Displacements in Orissa" and MBA from Indore, More than 10 years of teaching experience. He has a research interest in Human Rights and Socio-Economic status survey, training and development.

NIST Faculty - Hall of Fame

BOYSCAST Fellowships	4
FULLBRIGHT Fellowships	3
Samanta Chandra Shekhar Young Scientist Awardees	4
URSI Young Scientist Awardees	3
AICTE Emeritus Professors	4
Faculty with Ph.D. Degrees	30
Faculty with Post Doctorates	20
Faculty from IIT's	25
Faculty from Foreign Univ's	13

Student Placements

Our aim is to provide the right mix of career opportunities to our graduates such as employment in Top 500 Global IT companies, Core Sector Companies (VLSI, Embedded, Industrial Automation, Power System), ITES, Higher Education (MS, Ph.D., IIM, IIT), and Entrepreneurship.

Getting a great job is not an end in itself but only a great beginning. To us, success is more about being innovative and risk-taking and less about climbing the corporate ladder or the size of the salary.

Education for us is also a means of delivering social justice. In this, we believe we do more value addition than the IITs: we take a student from Koraput and place him in Kalifornia (K-to-K).

“Quality Placement rather than Quantity is what NIST believes in”.

Placement Record

Campus Recruitment	2012
Infosys Technologies	140
Wipro Technologies	184
HCL	43
Capgemini	23
SAP Labs	05
Perfectus	05
Syntel	05
CoreEL Technologies	03
TVS Motor Company	03
ENZEN Global	11
Sankalp Semiconductor	03
Others	56
Total Placed Students	481
Highest Package Rs. 7 lacs	

Campus Recruitment	2011
Infosys Technologies	138
Wipro Technologies	88
Capgemini	129
HCL	83
Mahindra Satyam	55
L & T IES	23
Accenture	09
Broadcom	01
Wipro VLSI	19
Other VLSI	17
Others	09
Total Placed Students	571
Highest Package Rs. 7.4 lacs	

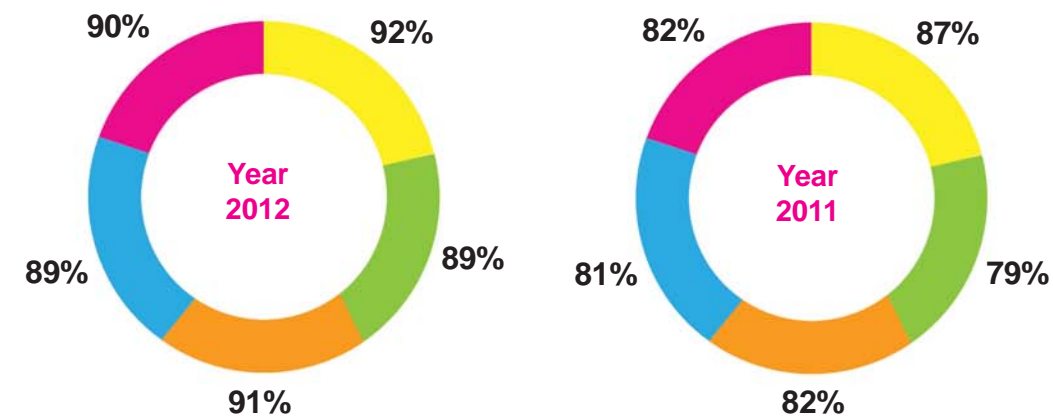
Campus Recruitment	2010
TCS	156
Infosys Technologies	72
Wipro Technologies	86
HCL BPO	17
Nokia Siemens Network	18
Mahindra Satyam	10
BHEL	02
BSNL	02
Sankalp Semiconductor	02
L & T EMS	02
Accenture	07
Others	68
Total Placed Students	442
Highest Package Rs. 6.8 lacs	

Student Placements

Placement Record

- 90% of the B. Tech. students placed every year through campus placement.
- 80% of MBA/PGDM students placed every year.
- 100% of M. Tech. students placed every year.
- The top notch product companies like Microsoft, SAP, Broadcom, Sasken, Tata Elxsi, Wipro VLSI Group, CG CoreEL, L&T IES, Motorola, IBM, Philips recruit students (apart from other IT services companies like Infosys, TCS, Wipro, HCL Technologies, Capgemini, Accenture, Mphasis, Tech Mahindra, MindTree, etc.).

Branch-wise Placement Statistics (% Placed)



- Computer Science & Engineering
- Information Technology
- Electronics & Communication Engineering
- Electronics & Instrumentation Engineering
- Electrical & Electronics Engineering



Centers of Excellence

TIFAC CORE IN 3G/4G COMMUNICATION TECHNOLOGIES

Enabling the vision of ex-President Dr. APJ Abdul Kalam of being a World class center in Communication Technology.

The institute is proud to be chosen to set up a core of excellence, in 3G and 4G communication technologies with the TIFAC CORE center on campus. Creating industry-institute interaction, NIST is the only TIFAC CORE center in Odisha and the second in Eastern India.

NIST Center of Excellence (NCE)

Dedicately working to showcase the Research and Development activities at NIST. Offering highly intensive technical and employment oriented courses to students and professionals such as Diploma in VLSI Design, Advanced Diploma in Embedded Systems and other certification, aimed at leveraging the potential of knowledge workers. Also offering training programs for GATE entrance exams to all potential M. Tech. and Ph. D. candidates.

CADENCE Center of Excellence

Cadence, a VLSI Tool Company, in association with NIST, Berhampur, Odisha, set up the Cadence Center of Excellence which was inaugurated at NIST premises on 10th August 2010.

The Cadence-NIST collaboration would enable the students to be exposed to industry relevant practical training, have access to the latest EDA Software/flows, certifications, industry access via cadence, soft skills training and above all,

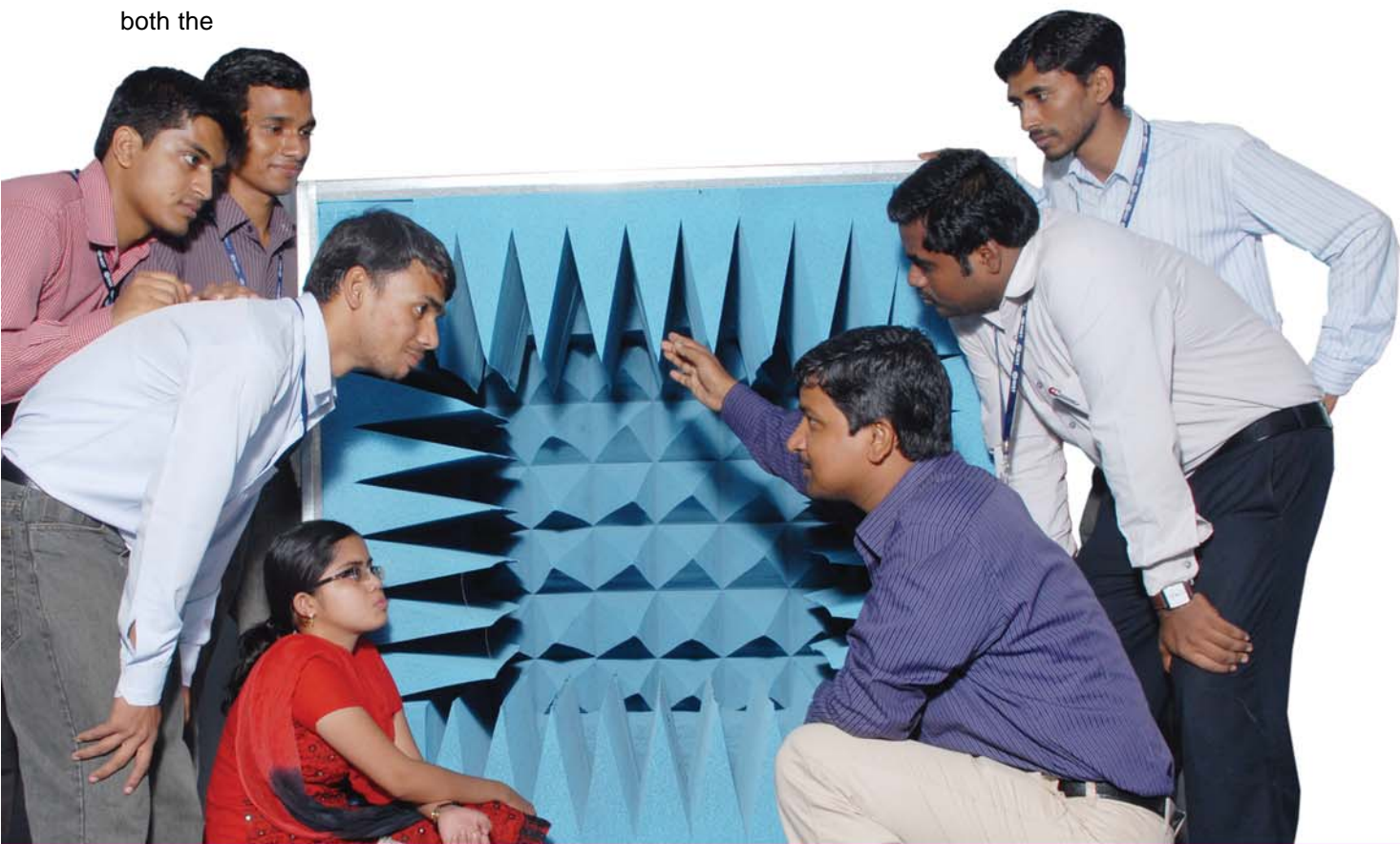


Centers of Excellence

it would build a complete solution for all pressing challenges. Cadence has promised to celebrate a VLSI DAY in the campus along with the other VLSI companies. This type of initiation by Cadence is first of its kind in India. The first batch of 60 students has achieved over 80% placement with the highest pay package of Rs. 7.8 Lacs per annum.

IBM Center of Excellence

The 1st of its kind in Odisha, The MoU was signed between the institute and IBM and the relationship was established to give students and faculty members the opportunity to work closely with the industry and utilize both the



resources in the best possible manner. IBM, as a part of this collaboration, has donated software worth lakhs in the fields of database engineering, software engineering, web applications, etc. In addition, IBM key faculty members are also available to train our students towards certifications.

SAP University Alliance Partner

NIST has signed an MoU with SAP Asia Pacific under the SAP University Alliance Partner Program which enables NIST to utilize SAP software solutions (SAP Functional, Data Warehousing, Data Mining and Business Intelligence) within their premises. The Program provides the necessary tools and resources to bring technology into the classroom, and also offers many opportunities and benefits to members of the program.

NI LabView Academy

In collaboration with National Instruments NIST has established the LabView Academy in its campus. Its main goal is to train the students in LabView platform and make them certified in the same domain, which in turn would increase their employability in the core sectors. This collaboration is also helpful for the faculty members in their research activities.

Center for Nano Science & Technology

Established in the year 2011 the Centre of Nanotechnology at NIST possesses a vision to foster the development of research and education in the multi-disciplinary area of Nanotechnology at NIST. Areas of research includes Semiconductor and metal nanostructures, nanowires and carbon nanotubes, Polymer Nanocomposites, Catalysis Nanoscience, Nanoelectronics, Modeling and simulation, Nanobiotechnology including development of diagnosis tools using nano-metals and nano-semiconductors, Nano-sensors, Solar fuel cells, plasmonic solar cells and heterojunction solar cells and core/shell nanocomposites.



Centers of Excellence

Cisco Certified Center

This is the only engineering college in Odisha with partnership with Cisco Systems Limited, Bangalore, offering certification for CCNA and CCNP. All faculty members in this program are CCNA certified.

Hybrid Renewable Energy Center

NIST joined the group of leading institutes of the Nation in its pursuit to go GREEN. The institute has the 1st and only HYBRID (wind + solar) Renewable Energy Center in the state of Odisha.

Industry Institute Collaboration to Enhance Learning

Wipro Mission10X :The Wipro Mission10X program is being organized at NIST every year to enhance teaching skills of engineering faculty members. Mission10X was formally launched on 5th September 2007 – celebrated as “Teachers day” in India. With this collaboration between industry and our institute, we reach out to students through empowered teachers in Mission10X learning Approach .

Infosys Campus Connect :NIST is in a tie up with Infosys for Campus Connect program which is held every year to help increase competitiveness in the knowledge



economy. The goal of Campus Connect is to build a sustainable partnership with engineering education institutions for mutual benefit.

NIST hosts at least four seminars in collaboration with industry on a variety of topics, such as VLSI, Robotics, Embedded Systems and Software Engineering in each academic session.

Japanese Language Teaching

Since 2003, the Institute has been offering Japanese Language Training to students of all branches. The training course is approved by the Japanese Embassy. NIST is recognized as the second Japanese Language Training Center in Odisha. A few students have also got the Japanese Government scholarships to study further in Japan.



DST INSPIRE Science Camp

NIST organizes the Department of Science and Technology (DST), Govt. of India, ‘Innovation in Science Pursuit for Inspired Research (INSPIRE) Program’ with the sole objective to communicate to the youth of the country, the excitements of creative pursuit of science and attract talent to the study of science at an early stage and build the required critical human resource pool for strengthening and expanding the Science & Technology system and R&D base. Only top 1% +2 science students (based on 10th results) of the state of Odisha participate in the program. Top luminaries including Nobel Laureates, Bhatnagar Awardees of the country inspire the budding scientists through their talks.

R & D Profile



Research and Development

The quest for more and better is an unending one, that leads to improvement in every sphere. Research and Development is the ‘mantra’ behind the continuous development at NIST. In curriculum, experimentation, understanding of key concepts and setting benchmarks that are totally new and novel in the education industry. Original research is done on Database Systems, Robotics, VLSI, Antennas, Wireless Communication, Virtual Instrumentation, Application of Soft Computing Techniques and Embedded Systems, Optical Communication, HPC, Cloud Computing, Nanotechnology, Medical Informatics and many more.

Student Research

Some of our student projects have earned recognition from industry. The electric car, Solar lawn mower, e-Guide for tourists, News display system, educational robot, ERP for educational Institutes - some have been well accepted by industry and gone into production stage.

R & D Collaborations

Our collaborators include IIT, Kharagpur, IIT, Delhi, IISc, Bengaluru, CEERI, Pilani (VLSI, Microwave), Jadavpur University (fiber Optics Communication), Cadence, National Instruments, Sankalp Semiconductor (Embedded Systems, Wireless Network).

International R & D Collaborations

The Institution has signed MoU with University of Electrocommunications (UEC), Japan and Academia Sinica, Taiwan for joint research work on Nanotechnology, Semiconductors etc.

Recognition within India and Overseas

Four faculty members have received the BOYSCAST Fellowship of the Department of Science and Technology, three have been felicitated with the Odisha Young Scientist Award, and the IETE J. C.

Bose Memorial Award. Three of our faculty members have also received the Fullbright fellowships, USA.

More than 20 of our faculty members have received their post-doctoral fellowships from reputed Universities at home or abroad (US, UK, Taiwan, Malaysia). More than 250 research papers have been published in prestigious academic journals.

Entrepreneurship Development Cell (EDC)

The aim of EDC at NIST is to institutionalize a mechanism, which acts as a support system for technocrat entrepreneurs. The Entrepreneurship Development Cell at NIST helps promote entrepreneurship and self-employment amongst technical students as an attractive and viable career option. EDC Cell is supported by DST, Govt of India.

Industry Institute Partnership (IIP) Cell

The All India Council for Technical Education (AICTE) funded Industry Institute Partnership (IIP) Cell at NIST is a focal point for better interaction between the academia and industry and is also responsible for bridging the gap between them.

Research Groups

VLSI Group

VLSI group represents the NISTian habit of never missing the technology bus. The group focuses on Two Dimensional MOS Modelling, Circuit Design (Analog and Digital), Library Design for EDA Tools, VLSI Technology and Fault Tolerance Computing and Testing for Digital Circuits. VLSI group also offers short-term courses to students and executives. Four of its members are also members of the VLSI Society of India, IEEE and ISTE. The group is funded by Department of Science and Technology, Govt. of India, University Grant Commission, Xilinx University Program, Intel University Program, ICTP, Trieste, Italy and NIST, Berhampur.

3G & 4G Communication Technology Group

Working under the banner of TIFAC CORE this group is equipped with sophisticated hardware and software in the field of 4G wireless communication. This group focuses on different areas such as WiMAX, LTE, SDR, etc.

Software Engineering Group

NIST's Software Engineering Group has a rare distinction. All its instructors are certified by IBM-Rational. The

group is equipped with latest software including Rational Rose Enterprise Suite, the ultimate weapon in the armory of a System Analyst. Our software Engineering group has a collection of CBT courseware on software Engineering. The Software Engineering Lab has a high-end IBM Server. It houses an exhaustive collection of titles ranging from Software Engineering Concepts, UML to User Interface Design.

Microwave Engineering Group

The group focuses on Application of Self-Computing Techniques for Antenna Analysis and Design, Fractal Antennas, CAD for Antennas and Propagation Models. Its lab is equipped with Microwave Test Benches and softwares like IE3D, WIPLD.

Electrical Engineering Group

Electrical Engineering Group focuses on Power Quality Problems that involve Reactive Power Compensation, Harmonic Analysis, Voltage-Stability and related areas, It also takes up modeling and simulation of Drive System. This group uses softwares like ETAP, Symbol 2000, MATLAB and PSpice. It employs advanced equipment like PLC based drives.

Nano Photonics Group

This group focuses mainly in Optical logic gates / Optical bistability, Holographic Couplers, Optical interconnects & Spin polarized optical devices.



Advanced Industrial Automation and Robotics Group

This group aims at creating, assimilating and implementing state-of-the-art technology in real time implementation systems. The group focuses on Programmable Logic Controllers, Micro-controllers, Virtual Instrumentation (LABView), SCADA, HMI and Robotics. The above fields are of immense importance to industry.

Embedded Systems Group

This group focuses on upcoming areas in Embedded Systems. Major areas of focus are General Purpose Processors (ARM/SARM and OMAP processors), DSP Processors (TMS3205X and 6X series), Real Time Operating Systems (Vx Works, U2OS2 & RTLinux), Device Driver Design and different Communication Protocol Design.



HPC and Cloud Computing Group

This group focuses on upcoming areas in HPC and Cloud Computing. Major areas of focus are setting up of Linux clusters by means of open source software. The group has a successfully established middleware support for application development using JAVA. It is presently working on many distributed applications.

Nano Science & Technology Group

The aim of the Center is to carry out basic and applied research in the interdisciplinary areas of Nanoscience and Technology. Its objective is to build a public technological platform and research base for Nanotechnology.

NIST Technology Consultancy Services (NTCS)

NTCS is an autonomous body of NIST, actively involved in industrial research and development. It focuses on applied research and product prototype development. It also offers consultancy services and different IT solutions to different Educational Institutions at the National level.

Bringing cutting edge technology to the campus.

Global markets in the new millennium will benefit tremendously from Information Technology dissemination.

Services Offered

- Customized IT solutions for greater organizational efficiency
- IT Audit to help maximize the utilization of IT resources
- Quality Improvement Programs (QIP) through lectures, workshops and one-to-one training sessions
- Quality Improvement Programs (QIP) for Software Developers

Complete ERP Solutions for Educational Institutions

Universal in their applicability, these packages are currently being used by engineering colleges in Odisha. Soon they will be found all over India.



Research Groups

Recent Project Grants Received

- DST SERC project Grant on “HEMT Modeling for High Frequency Communication Circuit” of Rs.27.0 Lakhs in the year 2010-11 .
- Gesture Recognition System” by Mr. E. Balaji Subudhi. vide No.6(19)/(NMCP)Incubator/Meeting/2010-11 dated 08/06/2011.
- “SMS Based NEWS Display System” by Mr. Nihar Ranjan Sahu . vide No.6(19)/(NMCP)Incubator/Meeting/2010-11 dated 08/06/2011.
- “AquaScript - A moving Water-Droplet Based Messaging System “ by Mr. Byomesh Panda vide No.6(19)/(NMCP)Incubator/Meeting 2010-11 dated 08/06/2011.
- “YottoSense” by Dr. Subir Saha vide No.6(19)/(NMCP)Incubator/Meeting/2010-11 dated 08/06/2011
- MSME Project Grant on “K-Technologies” of Rs.9.64 Lakhs in the year 2009-10 vide No.6(19)/(NMCP)Incubator/Meeting/2009-10 dated 29/3/2010.
- MSME Project Grant on “Wi-Fi Electronic Guide/E-Guide for Tourist Application” of Rs.12.7 Lakhs in the year 2009-10 vide No.6(19) (NMCP)Incubator/Meeting/2009-10 dated 29/3/2010.
- MSME Project Grant on “A service aimed at students community to understand Industry needs and its best practices” of Rs.7.36 Lakhs in the year 2009-10 vide No.6(19)/(NMCP)Incubator/Meeting/2009-10 dated 29/3/2010.
- MSME Project Grant on “Noiseless Solar Grass Cutter” of Rs.10.0 Lakhs in the year 2009-10 vide No.6(19)/(NMCP)Incubator Meeting/ 2009-10 dated 29/3/2010.
- National Mission on ICT Grant of Rs.7.0 Lakhs “to develop Content using Open Source VLSI and Embedded Tools” in the year 2010-11 vide No.F-16 140/2009- DL dated 23/12/2009.
- TIFAC Grant of Rs. 915.79 Lakhs to establish the **TIFAC CORE** in “3G/4G Communication Technologies” in the year 2009-10 vide TIFAC/MR/ NIST 2009 dated 17/12/2009.
- MHRD funded “Mission Project for Virtual Labs” during financial year 2008-2009 of Rs. 6 Lakhs to Dr. Satya Sopan Mahato vide No. IIT/SRIC/ME/MVL 2009-10/ 18 dated 21, Apr, 2009 and F.16-35/2009-DL dated 31.3.2009.
- UGC funded Research Award to Dr. A. K. Panda on the project entitled “Effect of interface properties on the High Frequency behavior of GaN based MODFET to use in VLSI circuits” vide Ref No. F. 30-1/2001(SA-III) dated 19 02/2009, Total 10.3 Lakhs.
- DST funded to establish Advanced Research Lab of **Rs. 1 Crore** under FIST Program dated 18 Apr, 2007 to the Department of ECE.
- Establishment of an “Entrepreneurship Development Cell” at NIST, during 2006-07 by DST vide sanction no.100/IFD 5915/ 2006-07 dated 15/11/2006.
- AICTE funded Rs.6.5 lakhs to establish Industry-Institute Patnership (IIP) Cell at NIST campus.
- DSIR funded Rs.2, 20,000/- towards the project proposal entitled “Development & Commercialization of Electric Fencers” by Dr. Partha Sarathi Mallick under TePP scheme dated 16 May, 2006.



- DST funded Rs. 7 lakhs for the research project under SERC Fast Track Scheme entitled “Development of antenna array failure analysis and compensation techniques” by Dr. Amalendu Patnaik dated 22 Sept, 2005.
- DST funded research project entitled “Studies on the high frequency properties of GaN-based Semiconductor Devices” of Rs. 3.43 Lakhs to Dr. A. K. Panda vide sanction no. 100/IFD/1120/2002-2003 dated 20/06/ 2002.
- US Army Medical Care sponsored Post Doctoral Fellowship Award to Dr. Arun K. Padhy for \$ 30000 for 1 year for research at the University of Denver, USA on “Antidotes for Weapons for Mass Destruction”, 2001- 02.

Books Published by NIST Faculty

- A Text book of Small ‘C’ Programs, Author: Dr. Ravi P. Reddy, Pub.: NIST Publications
- An English Vocabulary Reader, Author: Dr. Ravi P. Reddy, Pub.:NIST Publications
- Probability and Statistics, Author: Dr. Purna Ch. Biswal, Pub.: PHI, New Delhi
- Discrete Mathematics and Graph Theory, Author: Dr. Purna Ch. Biswal, Pub.: PHI, New Delhi
- LINUX For Beginners, Author: Mr. K. Lakshmi Narayana, Pub.:NIST Publications
- Web Designing, Author: Mr. K. Lakshmi Narayana, Pub.:NIST Publications
- MATLAB and Simulink, Author: Dr. Partha S. Mallick, Pub.:SCITECH Publications
- Operations Managements, Author: Dr. Sushanta Tripathy, Pub.:SCITECH Publications
- Optimization in Engineering, Author: Dr. Purna Ch. Biswal, Pub.: SCITECH Publications
- Enjoy Your Breath, Author: Maharisi Dr. Yogiraj, Pub.:NIST Publications
- Kill the stress before it kills you, Author: Maharisi Dr. Yogiraj, Pub.:NIST Publications
- Material Science, Author: Dr. Sukanta K. Tripathy & Dr. Arun K. Padhy, Pub.: SCITECH Publications
- Production and Operations Managements, Author: Dr. SushantaTripathy, Pub.:SCITECH Publications
- Numerical Analysis, Author: Dr. Purna Ch. Biswal, Pub.: PHI, New Delhi
- Digital Systems Fundamentals, Author: Dr. Ashutosh K. Singh, Pub.:Prentice Hall, New Delhi
- Object Oriented Programming using C++, Author: Mr. Muktikant Sa, Pub.:SCITECH Publications
- Capital Market Efficiency, Author: Dr. Sisira Kanti Mishra, Pub.:Wide Vision
- Power System Operation and Control (2nd Edition), Author: Dr.Sidhartha Panda, Pub.: SCITECH Publications
- Internet and Web Technologies, Author: K. Lakshmi Narayana, M. Aparna, Pub.: SCITECH Publications
- C Programming, Author: K. Lakshmi Narayana, Pub.: SS Publications



“NIST is Recognised as a Scientific & Industry Research Organisation (SIRO) by DST, Govt of India”

Research Publications

Recent Publications by NIST Faculty Members

- T R Lenka and A. K. Panda, "Role of Nanoscale AlN and InN for the Microwave Characteristics of AlGaIn/(Al, In) N/GaN - based HEMT," "Fizika i Tehnika Poluprovodnikov" / Semiconductors (Springer), Vol. 45, No. 9 (2011), pp.1211-1218. [Impact factor:0.603]
- T R Lenka and A. K. Panda, "Characteristics Study of 2DEG Transport Properties of AlGaIn/GaN and AlGaAs/GaAs-based HEMT," "Fizika i Tehnika Poluprovodnikov" / Semiconductors (Springer), Vol. 45, No. 5 (2011), pp.660-665. [Impact factor: 0.603]
- T R Lenka and A K Panda, "Effect of Structural Parameters on 2DEG Density and C~V Characteristics of Al_xGa_{1-x}N/AlN/GaN-based HEMT," Indian Journal of Pure and applied Physics, Vol. 49, No. 6 (2011), pp.416-422. [Impact factor: 0.5]
- T R Lenka and A. K. Panda: Self-consistent Subband Calculations of Al_xGa_{1-x}N/(AlN)/GaN-based High Electron Mobility Transistor, Advanced Materials Research, vol 159, pp.342-347, 2011 (Trans Tech Publication, Switzerland).
- M. M. Khandapekar and S. P. Pati, "Growth, Structural, Optical and electrical behavior of Glycine Potassium Nitrate (GPN) crystal with nonlinear optical response, Journal of Optics Communication(Elsevier), 284, p. 818–823, 2011 [IF: 1.517].
- M M Khandpekar, R.K. Kushwaha and S P Pati, "Design, Fabrication, and Evaluation of a 5F - 5V Prototype of Solid-State PANI based Supercapacitor", J of Solid State Electronics, (Elsevier) Solid-State Electronics, vol. 62, issue 1, p. 156-160. 2011, DOI: 10.1016/j.sse.2011.04.001(IF: 1.391)
- Mahendra M. Khandpekar, Shailesh S. Dongare, Shirish B. Patil , Shankar P. Pati "Growth, structural and optical studies on aminoacid based new GSB crystals having non-linear optical characteristics", Journal of Optics Communication(Elsevier), Volume 284, Issue 6, P. 1578–1582, 2011 [IF: 1.517].
- M.M. Khandpekar , S.S. Dongare , S.B. Patil and S.P. Pati: "Enhanced non-linear optical response in hybrid GSPN crystals: Structural, optical and dielectric analysis, Journal of Optics Communication, (Elsevier) , Vol 284 p.1583-1588, 2011 [IF: 1.517].
- P. R. Tripathy and S. P. Pati : Comparision of Heterostructure n-S0-Ge/p-Ge-Si with Si and Ge Based Impatt Diodes for RF Communication, International J. of Computer Engg. And Computer Applns., IJCECA, ISSN-0974-4983, Vol 6, No. 1, 2011.
- R.K. Panigrahi and A.K. Mishra: "Gini-Index Based Land-cover Classification Using Polarimetric Synthetic Aperture Radar", International Journal of Remote Sensing, Vol. 33, Issue 8, pages 2628-2640, 2012 DOI:10.1080/01431161.2011.620030.[IF:1.182]
- R.K. Panigrahi and A.K. Mishra, "Comparison of Hybrid-Pol with Quad-Pol Scheme Based on Polarimetric Information Content", International Journal of Remote Sensing , Vol. 33, Issue 11, pages 3531-3541, 2012 DOI: 10.1080/01431161.2011.631058 [IF:: 1.182]
- Sidhartha Panda, "Robust coordinated design of multiple and multi-type damping controller using differential evolution algorithm", International Journal of Electrical Power and Energy Systems, ELSEVIER, Vol. 33, 1018-1030, 2011(Impact factor: 2.073).
- Sidhartha Panda, "Multi-objective PID Controller Tuning for a FACTS-based damping Stabilizer using Non-dominated Sorting Genetic Algorithm-II", Accepted for publication in International Journal of Electrical Power and Energy Systems, ELSEVIER, DOI:10.1016/j.ijepes.2011.06.002 (Impact factor: 2.073).
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- S.R. Khuntia, Sidhartha Panda, ANFIS approach for SSSC controller design for the improvement of transient stability performance, Mathematical and Computer Modeling, ELSEVIER, DOI: doi:10.1016/j.mcm.2011.06.052 . (Impact factor: 1.066).
- Abhro Mukherjee, S. Sengupta, A proposal for active control of face abrasive tool wandering, Journal of Vibration and Control (SAGE, USA) , , doi: 10.1177/1077546311402708 May 20, 2011 (Impact factor: 0.89).
- Acharya U. R., Sree, V. S., Chattopadhyay S., Yu, W., Alvin A.P.C. –"Application of Recurrence Quantification Analysis for the Automatic Identification of Epileptic EEG Signal", International Journal of Neural Systems; 21(3): pp. 199-211. DOI: 10.1142

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- Acharya U. R, Tong J., Sree, V. S., Chua C.K., Ha T. P., Ghista D. N., Chattopadhyay S., N-g KH, Suri J. S. – "Computer-based Identification of Type 2 Diabetes subjects with and without Neuropathy using Dynamic Planter Pressure and Principal Component Analysis", Journal of Medical Systems; (published on line on April 27th 2011, DOI:10.1007/s10916-011-9715-0)Publisher: Springer Verlag, USA [ISI IF: 1.064]
- Chattopadhyay S., Acharya U. R. "A Novel Mathematical Approach to Diagnose Premenstrual Syndrome", Journal of Medical Systems (2011); (Published on-line April 5th 2011, DOI:10.1007/s10916-011-9683-4) Publisher: Springer Verlag, USA [ISI IF: 1.064]
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- Chattopadhyay S., Kaur P., Rabhi F., Acharya U. R. – "Neural Network Approaches to Grade Adult Depression", Journal of Medical Systems (2011), DOI: 10.1007/s10916-011-9759-1 Publisher: Springer Verlag, USA [ISI IF: 1.064]
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- Chattopadhyay S., Pratihar D. K., De Sarkar S. C. –"A comparative study of fuzzy C-means algorithm and entropy-based fuzzy clustering algorithm". Computing and Informatics (2011); 30(4):701-720 Publisher: Slovak Academic Press Ltd. [ISI IF: 0.356]
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- A Ganguly, M Reza and A S Gupta: (2012) Thin-film flow of a power-law fluid down an inclined plane, ASME Journal of Fluid Engineering's ,(USA). (Impact Factor 1.25).
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- Duryodhan Sahu, Harihara Padhy, Dhananjaya Patra, Jen-Fu. Yin, Ying-Chan. Hsu, Jiann.-T'Suen. Lin, Kuang-Lieh Lu, Kung-Hwa Wei, and Hong-Cheu Lin, "Synthesis and applications of novel acceptor-donor-acceptor organic dyes with dithienopyrrol- and fluorine-cores for dye-sensitized solar cells" Tetrahedron 2011, 67, 303-311 (IF: 2.983).
- Harihara Padhy, Duryodhan Sahu, I-Hung Chiang, Dhananjaya Patra, Dhananjay Kekuda, Chih-Wei Chu and Hong-Cheu Lin, "Synthesis and Applications of Main-Chain Ru^{II} Metallo-Polymers Containing Bis-terpyridyl Ligands with Various Benzodiazole Cores for Solar Cells" J. Mater. Chem. 2011, DOI: 10.1039/C0JM02532A.(I.F. 5.1)



i lab @ NIST



NIST INNOVATION CENTER



Humanoid

Hybrid car

E-Guide for Tourist

Solar Grass Cutter

The following products are incubated at NIST with funding of Rs. 8 - 10 Lakh each from MSME, Govt. of INDIA

- Gesture Recognition System
- YottoSense - Android Development
- Aquascript
- Wi-Fi E-Guide for Tourist
- Hybrid Car
- K-Technologies - Robotics
- Noiseless Solar Grass Cutter
- E - Learning System
- SMS Based News Display System

The i-lab offers state-of-the-art infrastructure for cutting edge research & application in areas such as Embedded System, Nanotechnology, Renewable Energy, Robotics, Industrial Automation, Cloud Computing, VLSI, Artificial Intelligence. The aim is to incubate ideas for a career as a Hi-Tech Entrepreneur.

IEEE & ISTE Student Chapter

NIST has IEEE and ISTE student chapters having more than 100 IEEE (USA) and 1600 ISTE (India) student members. The Institute regularly organizes IEEE workshops and ISTE functions (SANKLAP). In fact NIST bagged the best ISTE Student Chapter for the years 2001 and 2004. The NIST - ISTE student Chapter is one of the biggest student chapters of India.

Technology Incubation Center

The Technology Incubation Center is a platform for young entrepreneurs to seed their Ideas and take it to a product level. The center is funded through grants from MSME, Govt. of India and NIST. Following companies are presently incubated.

- K-Technologies
- Wiz-Biz Technologies
- Smart Vision
- SolaniX



Community Services



DIGANTA :

NIST supports a noble Institute called **DIGANTA- A Residential School for Social Justice** run by an NGO - SANKALP for the poor and under privileged tribal children including orphans of South Odisha, established on the occasion of "15 Years Celebration" of NIST.

NIST Public Library :

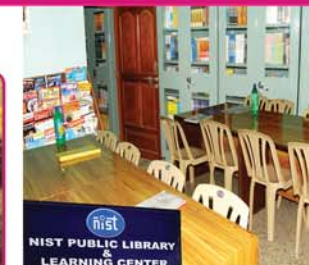
For the benefit of students in and around Berhampur, NIST has established a Public Library in the heart of the city with all Study materials & Magazines for various all India level competitive exams from class VIII to Post graduation.

Employment Oriented Programme (EOP) :

As a part of its social commitment to the people of South Odisha, NIST started the **EOP Scholarship Program** to provide the economically backward youth a platform to grow with, where they are trained on different technical skills to earn their livelihood.

School Programs :

Each year about 100 students from class 8th -10th from neighbouring rural and urban schools are trained for two weeks on Robotics. NIST also conduct different school level competitions twice a year.



Visitors to NIST

Recent Visitors

- **Dr. Anil K. Rajvanshi**, Director, Nimbkar Agricultural Research Institute (NARI) and Jamnalal Bajaj Award winner, visited NIST campus on 30th January during INSPIRE 2012. He delivered a lecture on “*Recent Trends in Science and Technology*” to the Inspire participants. He also had a discussion session on “*Social Entrepreneurship*” with faculty members and students.
- **Prof. Sunil Sarangi**, Director, NIT, Rourkela, visited the campus on 19th October 2011. He interacted with students and faculty members and discussed many issues regarding Higher Education in Odisha.
- **Prof. A. K. Pujari**, Vice-Chancellor, Sambalpur University visited NIST on 19th and 20th October 2011. During his two day visit he delivered a talk to the INSPIRE participants on “*Wireless Sensor Network and it's Applications*”. He also interacted with the faculty members and students on “*Research Methodologies*”.
- **Prof. Renuka P. Jindal**, President, IEEE EDS, visited NIST and delivered a talk during IEEE EDS mini-colloquium on Nano-Electronics.



- **Prof. Sandip Trivedi**, Infosys Prize Winner, 2010, Professor, Tata Institute of Fundamental Research, Mumbai, visited NIST during INSPIRE-2011 on 18th Oct 2011. He delivered a talk on “*Einstein's Dream And String Theory*” to the students.
- **Prof. S. Sadagopan**, Director, IIIT, Bangalore, visited the NIST campus on 21st October 2011. He gave a talk to the participants of DST Inspire program and faculty members of NIST.
- **Prof. Michael Sprinborg**, Professor University of Saarland Germany delivered a lecture series on ‘On the response of large systems to electrostatic fields’.
- **Prof. David William**, Australian National University Australia delivered a lecture series on ‘Single Polymer Globules of Muliblock Copolymers: From Simple Structures to Complicated Tennis Balls and Patchy Colloids’ during IWFM-2011.
- **Prof. Petre Entel**, Germany delivered a lecture series on ‘Functional properties of magnetic Heusler alloys from first principles’ during IWFM 2011.
- **Prof. Daniel S. Pickard**, National University of Singapore, Singapore delivered a lecture series on ‘Nanoscale Patterning with the Helium Ion Microscope’.

Seminars & Workshops



Recent Seminars and Workshops

The Institute has hosted a number of prestigious conferences such as International Workshop on Functional Material(IWFM), International Conference on Information Technology (CIT), All-Odisha ISTE Conference, Indian Mathematical Society (Odisha Chapter) Conference, Workshop on VLSI Design (Sponsored by VLSI Society of India), Conference on R & D Opportunities, Workshop on Bioinformatics, AICTE Sponsored Workshop on Nanotechnology and its Applications. NIST regularly hosts at least four seminars every year on a variety of topics such as VLSI, Robotics, Embedded Systems, Research Proposal Writing and Software Engineering. Our Summer Training Programs pull huge crowd.

AICTE Sponsored Staff Development Programs

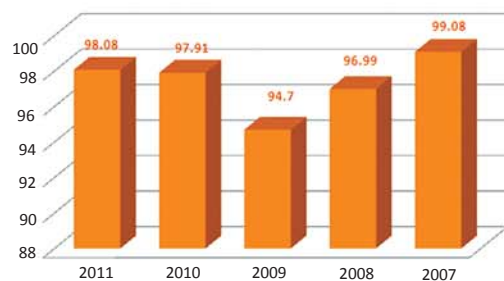
In the recent years NIST has organized a series of Staff Development Programs which were sponsored by AICTE. They are as follows:

- Recent and Future Trends in Industrial Mathematics for Engineers
- Emerging Trends in Business Communication and Methods of Teaching
- Application of Econometrics Tools for Management Research
- Advanced DSP Implementation Using FPGA & DSP processor
- Recent Trends in Electrical Drives and Power Electronics
- Frontiers of Microwave Engineering

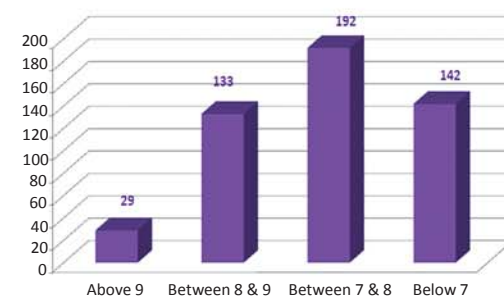


University Results

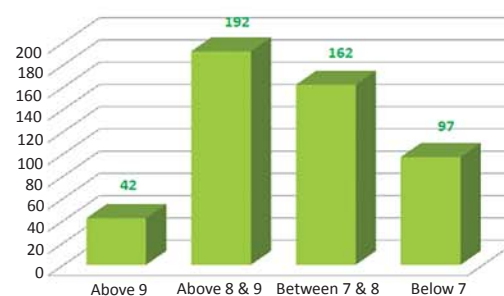
BPUT Results: Pass Percentage



CGPA Distribution: 2011 Passout Batch



CGPA Distribution: 2010 Passout Batch



Year wise list of Gold & Silver Medalists

2011 Batch :

K. Praveena
Abinash Tripathy
Nishant Kumar
Chinmaya Mohapatro
Suman Mohanty
Itishri Dash
Lokkoju Rama Kumari
Bijayalaxmi Sahoo

Ippili Archana
Susanta Kumar Panigrahy
Aparajita Pattnaik
Bhawani Shankar Pattnaik
Sonali Prava Dash

2009 Batch :

Rohit Agarwal
Sangram Patro
Lovelina Subudhi
Rojalin Patri
Smaranika Behura
Saroja Mishra
Debabandana Apte
Sradhanjali Moharana

2010 Batch :

Pratikshya Meher
Deepika Parida
Mukesh Kumar
Debashis Sahu
Saurabh



Felicitating students with SGPA > 9

Student Scholarships

Economic Hardship Scholarship :

The objective of this scholarship is to help economically backward students to meet the day to day academic expenses. This scholarship is given annually to 30 students of B.Tech, 3 Students of MCA and 2 Students of MBA . The amount of Scholarship is Rs. 1200/- per month for each student.

Tuition Fee Waiver Scheme:

Under this scheme 5% of total intake of UG students, whose family total annual income is less then Rs.4.5 Lacs are given full tuition fee waiver. This is applicable for the entire duration of the course (i.e 4 years).

Book Grant Scholarship :

The objective of the scholarship is to help the economically backward students to purchase books, stationary for academic use. This scholarship is given to 25 students of B.Tech, 3 students of MCA and 2 students from MBA per Semester. The amount of Scholarship is Rs.2000/- per semester.

Shiv Shankar Bisoi Scholarship :

This scholarship, in the memory of a former student of 2001 batch, is given to one student per year and the amount of Scholarship is Rs.15000/-.

Travel Grant Scholarship :

This scholarship is given to students who publish papers in any national/ international conferences. All the expenses incurred to present the paper are taken care of under this scholarship.

Research Assistantship :

Through the Research Assistantship (RAship) program UG and PG students get involved with faculty members to carry out joint research work. For this each student gets a stipend of Rs.1200/- per month.

M. Tech. Scholarship :

M. Tech scholarship is given to all M. Tech. students. An amount of Rs. 3000/- per month is given to students who are self sponsored. Students who have GATE scores receive Rs. 8000/- per month from MHRD.

Merit Scholarship :

This scholarship is given to all the students of B. Tech, M. Tech, MBA and MCA who secure greater than 9.0 SGPA in the under graduate program and greater than 8.5 SGPA in the graduate program. The amount of scholarship is between Rs. 1000/- to 5000/-.

Teaching Assistantship :

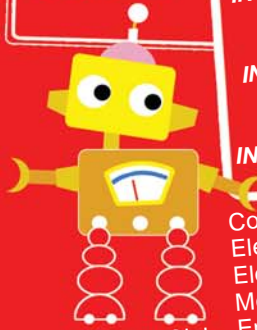
Each year few meritorious students are selected as Teaching Assistants to assist the faculty members in their academic work for their subjects. Students receive a scholarship of Rs.1200/- per month for this work.

Other Awards :

Best B. Tech. Project Award, Best EDC Project Award, Award for selection in IIMs and Award for top GATE scorers.

Clubs at NIST

ROBOTICS CLUB



INTEGRATION OF INNOVATION AND INTELLIGENCE

NIST Robotics Club (NRC) aims at energizing young engineering minds towards the next era of technological evolution. ROBOTICS is multidisciplinary incorporating

Computer Science, Electronics, Electrical, Mechanical Engineering, etc. NRC is a known face in Robotics in India winning many national and state level accolades truly standing to its mission – integrating innovation and intelligence.



Entrepreneurship Development Cell of NIST was established in the year 2007 with the novel responsibility of nurturing Entrepreneurs in South Odisha. It facilitates entrepreneurial skills among students and provide technical and non-technical help to budding entrepreneurs. From the date of its inception it has conducted several seminars and workshops to encourage budding entrepreneurs. It runs an incubator on campus sponsored by MSME, Govt of India.

Creation from Recreation...



NIST AD Club promotes events where students hone their real time management skills and accelerate their personality growth in true terms. It takes up socio-cultural problems as events and exposes the members to the other side of civil society. If filmmaking and coining slogans excite you then this club is for you.

Electronics Hobby CLUB

Innovate to Implement

EHC has been the platform for those who venture to go beyond the conventional theory in the field of electronics. Be it either the Hardware competition in 'Sankalp' or the celebration of 'Electronics Month' or the performance in 'Tech fests' across India, EHC always carries the tag of success.

RENEWABLE ENERGY CLUB



Go Renewable, Go Non- Exhaustible

"SPREADING AWARENESS ABOUT RENEWABLE ENERGY" being the motto of the club, it started in the year 2007 in collaboration with OREDA (Odisha Renewable Energy Development Association), which is a Govt. of India undertaking. This makes the club most outstanding club of NIST. It organizes different workshops, Hardware Model Expo and awareness camps at different locations.

CLUB Excel

Let's go and excel in the field of programming for creating efficient and innovative solutions to the real world problems

Club Excel enhances the creativity of the students and acquaints them with the current industry & real world problems. Innovative thinking is the only factor that decides your survival in the corporate life. CLUB EXCEL organizes mega programming events in each semester. No wonder its members got 7 awards in Top 10 in Wipro's "Code Zap Guru" contest, 2010.

Multimedia CLUB

So what are you waiting for? Grab the opportunity... Welcome to the clan of MULTIMEDIA DESIGNERS.

The multimedia club of NIST invites one and all to participate and to be what we really are! We provide a platform to exploit your creative instincts. As is said "the liberty to make mistakes provides the best environment for creativity" professionals and amateurs are both welcome, for the club guides you right from scratch. We tutor your talents and facilitate a way to reach the zenith of creativity.

EUREKA CLUB

EUREKA: REDISCOVER YOURSELF
A Quest for Literary Brilliance...

EUREKA organizes Inter School and Inter College Literary Competitions. Performs skits and plays in English, offers Business English Certificate (BEC) courses to students in collaboration with British Council.

Astronomy CLUB



NIST Astronomy CLUB was established in October 2011. Taking the initiative, the club members assembled the Meade 2000 reflection refraction telescope and used it to see the moon, stars and some planets for the first time inside NIST campus.

CLUB INNOVA



"Dare to dream Strive to excel!"

Doing something different has been the desire of great minds. Desire needs to be tailored and guided by a proper counselor to produce constructive outcome. In order to understand the term "INNOVATION" and resurrect every mind with the essence of innovation; the Club Innova was pioneered @NIST.

Clubs at NIST



Swimming Club

NIST swimming club encourages students, faculty members and staff to stay healthy through swimming. It conducts periodic swimming camps and competition. It is now well established that students are better swimmers than faculty members.

Sports & Adventure CLUB



SAC encourages NISTians to develop their athletic skills with its rich infrastructure for sports, winning laurels at inter college and university level and trains the students for different adventurous activities like canoeing, Kayaking, para-sailing, paragliding, trekking and mountain climbing.

NIST Musical Society



“ culture is the widening of the mind and of the spirit ”

In the whispers of the wind or swirl of the ripples, the rhythm of the river or chorus of the birds, music is everywhere. Music is cherished without inhibitions or prohibitions. It is the universal language which knows no boundaries' but still has the strength to cleanse the malaise of any soul. It can bring a whole new meaning to this journey called life. This is what NMS dreams to achieve. Our first album "Phoenix" was a super hit.



Yoga & Fitness CLUB

“True enjoyment comes from activity of the mind and exercise of the body; the two are united.”

The green campus carries the **Yoga Centre** and the Gymnasium at its heart facilitating students to lead a healthy and stress free life. Yoga and Fitness Club manages these activities by conducting different yoga baithaks and fitness trainings periodically. A must read is “**ENJOY YOUR BREATH**” and “**KILL THAT STRESS BEFORE IT KILLS YOU**” by Maharshi Yogiraj.

Alumni Speaks



Pankaj Kamani, Samsung India, B. Tech., 2004 Batch

The fact that corporate culture demands so much of responsibility, can only be felt while at work. And definitely, this would not have been possible without my alma mater. My four year stint at NIST instilled in me the qualities which are inevitable for survival in today's corporate society. Be it the 100min lectures or the restrictions placed on us at Hostel, the reasoning behind the existence of these constraints can't be denied of.

Soumya Debabrata Pani, pursuing MS, University of Florida, B.Tech. 2007 Batch

....I am Soumya. I still remember the first day when I started working for GRE and now I found out that the result is much more than my effort. It's like living my own dream.. In NIST there is a good chance to do research and prepare for exams like GRE. I personally feel NIST can convert a boy into a stud. But student should have that energy and that optimism....



Sagar Patnaik, Nava Bharat Ventures LTD, MBA, 2006 Batch

All the faculty members of NIST who were associated with me during my course curriculum have been a great help & inspiration for my success in career. From my very soul I want to thank NIST for nourishing me in these 2 years and teaching me the actual essence of management which not only has really very fruitful for me but also will help me in my future endeavors.

Mayank Kumar, IIM Ranchi, B. Tech. 2006 Batch

...It's been around two months since we completed our BTech final semester. We loved our college very much and will miss forever. I got through the prestigious Indian Institute of Management Ranchi, the youngest of its category. It has become possible only due to the class of education that you have provided to us and we promise to bear the flag of NIST forever....



Payeli Ghosh, Expicient, BE, 1996 Batch

...Feels like it's been ages (actually 10 years!) since I passed out from NIST. Three years ago, we (few friends) started a consulting group on Supply Chain Management called Expicient. The journey has been thrilling so far. The team comprises of some very good industry experts from IITs and IIMs. Honestly, now I can understand what it would have meant and felt to you when you started NIST. As an entrepreneur now I really appreciate the vision, the hard work and the effort that you had put in to make your dream come true....

Pijush Gupta, BE, 1996 Batch

....This is Pijush Gupta, an alumnus of NIST. In fact, I am from the very first batch that passed out of NIST in 2000. This email is to let you know that my first novel "Have a Pleasant Journey" has been released. The book has been published by CinnamonTeal Publishing, a Goa based publisher. Right now it is available for online ordering only at their bookstore. Based on demand, it might get listed on India Plaza, Flipkart....



Good Times for All



Life at NIST



Hot Spots



Hostel Life



NIST in Headlines

NIST - One of its kind



The NIST, with a high placement record, aims to create engineers capable of meeting the challenges of tomorrow. It has produced thousands of graduates who are highly skilled and employable.

Robotics at its best at NIST
Express News Service
Berhampur, Nov. 29: Black Pearl was the winner with 3025 points while Racer was runner up.

NIST comes up with electric vehicle



Berhampur, Dec. 20: National Institute of Science and Technology in the city, where innovation is the buzzword, has added yet another feather to its cap. This time it has come up with a battery operated vehicle. The electric three-wheeler, which has been entirely designed by students and faculty of NIST, is considered cost effective. After necessary examination, the public demonstration of the three-wheeler was held at the Gopalpur beach festival recently.

NIST researcher URSI's Young Scientist

Berhampur, Nov 28: Berhampur-based National Institute of Science and Technology (NIST), has notched another first to its credit. Its Research and Development coordinator, Dr Amelendu Patnaik, has been presented with the 'URSI Young Scientist' award for his work in the field of wireless communication. Among the 134 winners of the award throughout the world, only 24 were Indians of which Patnaik was the only distinguished scientist from Orissa. URSI is an international organization of radio scientists and its awards are considered the highest in the field of radio science.

Young Scientist Award for NIST faculty member

Berhampur, Feb. 5: Dr Saroj K Meher, the faculty member of National Institute of Science and Technology (NIST), has been awarded the Young Scientist Award for his work in the field of wireless communication and digital water marking. The award is instituted annually by the National Institute of Standards and Technology (NIST), USA.

NIST students develop prototype of eco-friendly vehicle

They have used scrap material of motor vehicles to make it



Staff Reporter
BERHAMPUR: With an aim to keep their campus pollution free, the students of National Institute of Science and Technology (NIST) have developed a prototype of an electric vehicle. The students have used discarded scrap of motor vehicles to put together the prototype of this environment-friendly vehicle that can run on solar power or power supplied from batteries and AC mains. A team of students of the electrical department of the institute designed this prototype under the guidance of the head of the institute Sangram Mudali. The construction of this hybrid vehicle was supervised by S.M.A.K. Azad of the electrical department.

NIST students qualify JLPT

National Institute of Science and Technology (NIST) students Soumyajit Panda & Tech fourth year and Koushika

NIST gets Central funds for setting up EDC

Berhampur, Jan 9: The Department of Science and Technology, Government of India, has sanctioned Rs 50 lakh to National Institute of Science and Technology (NIST) for setting up an Entrepreneur Development Centre (EDC) in the first phase of the grant, Rs 11.4 lakh, will be released within a month. Under the scheme, about five entrepreneurs are expected to be set up.

NIST bags best robot design award

Express News Service
Berhampur, March 21
THE National Institute of Science and Technology (NIST) has bagged the best robot design award for its team in the National Institute of Technology (NIT) Robocon competition. The award is instituted annually by the National Institute of Technology (NIT) and is considered the highest in the field of robotics.

Business Standard

Monday, Aug 16, 2010

NIST to have incubators for entrepreneurs

BS Reporter / Kolkata/ Berhampur April 20, 2010, 0:35 IST
Two private technical institutions in Orissa- National Institute of Science University are among the 22 top educational institutes across the country for the establishment of full-fledged incubators for Medium Enterprises (MSME) for the establishment of full-fledged incubators.

107 NIST students absorbed by Wipro

Express News Service
Berhampur, March 24: A total of 107 students of the Bachelor of Technology programme of National Institute of Science and Technology (NIST) have been absorbed by Wipro. The students expressed happiness at the performance of NIST students in technical domains, especially in VLSI. The 55-acre campus of NIST and its infrastructure along with teaching of cutting edge technologies.

NIST Excels IT Olympiad

Berhampur: National Institute of Science and Technology students bagged six positions out of top 10 in the IT Olympiad conducted by Orissa Information Technology Society (OITS) on 21st November 2010. Conducted at different centers in Orissa where participants were in thousands the achievements of the NIST students glorifies the rich tradition of NIST. The magnificent six are Niraj Kumar, Sai Bal Satchitanand, Swadesh Kumar Nayak, Laxmi U, Bhagirath Kumar and K. Venkateswar Reddy.

VLSI Companies Hire NIST Students

Staff Report
Berhampur: The Berhampur based National Institute of Science & Technology (NIST) has attracted the attention of top VLSI companies of India. In a recent placement drive held by L & T Integrated Engineering Services the company has hired 23 NIST students for a career in VLSI and Embedded Systems which is the highest from any college from Orissa. In the past one month Wipro VLSI, TVS, HFSS, FTD, Sankalp Semiconductors, Genium Technologies, Net Logic

NIST to get TIFAC-CORE facility

Express News Service
Berhampur, January 22
THE Technology Information, Forecasting and Assessment Council (TIFAC) of the Department of Science and Technology (DST) has announced establishment of a new TIFAC-CORE in National Institute of Science and Technology here. The TIFAC CORE is exclusively devoted to research, consultancy and industrial collaboration in the area of 3G and 4G communications technologies. The most notable participating industries are National Instruments, ARM, free-scale semiconductors, atera (all Bangalore based). The agreement was signed in Coimbatore by the Director of NIST, Prof Sangram Mudali and Registrar, TIFAC, recently in the presence of Principal Scientific Advisor to Government of India and Chairman-TIFAC R Chidambaram, former director of IIT, Chennai Prof V Indiresan and other luminaries. Director of NIST Prof Sangram Mudali honored

NIST organizes Sankalp 2010: Sankalp 2010 a national level techno-management symposium organized by National Institute of Science and Technology (NIST), Berhampur along with ISTE (Indian Society for Technical Education) will begin on October 8. It came as a grand opportunity for the budding

Placement Record @ NIST : 556 offers in 2011

Berhampur: NIST has placed more than 556 of its students in top multinational IT, Engineering and Management companies leading to an on-campus recruitment record of 90%. The major recruiting companies for 2011 have been Infosys (138), Cap Gemini (129), Wipro Tech (88), HCL (83), Mahindra Satyam (55), L & T IES (23) etc. More than 92 job offers have been received by the students of MBA and PGDM in the Institute. The salary has been in the range of Rs 2.5 lakh per annum.

NIST Inks Pact with Foreign Varsity for Research in Nanotechnology

The National Institute of Science & Technology has signed MoU with two of the leading research institutions in the world for student exchange programs. PhD and semiconductor nanocrystals, nanoparticles and metallic clusters. Research students and faculty will utilize the exchange programs for R&D, product development or pa-

- 1996: ...
- 2000: ...
- 2004: ...
- 2008: ...
- 2012: ...

www.nist.edu



NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY

Palur Hills, Berhampur, ODISHA -761008, INDIA

Phone : 0680-2492421/422, Fax : 0680-2492627