



Accredited by  
NAAC (UGC) with 'A' Grade



# NIST

Imparting Quality Education Since 1996



## M.Sc & B.Sc

Physics | Chemistry | Mathematics



**OUTLOOK** 61<sup>st</sup> All INDIA Rank by OUTLOOK 2017



1<sup>st</sup> in Eastern INDIA & 14<sup>th</sup> in INDIA by DATAQUEST 2017



69<sup>th</sup> All-India Rank by NIRF, MHRD, Govt. of India 2016



**NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY**

Recognized by Govt. of Odisha and Affiliated to Berhampur University

[www.nist.edu](http://www.nist.edu)

# Key Leadership: Our Pillars

## About NIST

The National Institute of Science and Technology (NIST) was established in 1996 and is being managed by the SM Charitable Educational Trust under the vision of its renowned philanthropist and educationist Chairman, Late Sri Surendra Mudali. The Institute is approved by the All India Council for Technical Education (AICTE under MHRD, Govt of India), is affiliated to the Biju Patnaik University of Technology (BPUT) and Berhampur University for its M.Sc, B.Sc and B.Com programmes. The institute has already received the No Objection Certificate from Govt. of Odisha for Autonomy Status. The Institute campus of 60 acres is located at the picturesque Palur Hills about 12 kms from Berhampur and 3 hours drive from Bhubaneswar. The Institute has grown by leaps and bounds under the able leadership of its founder Director, Prof. Sangram Mudali, Director (M.S., University of Houston, B. Tech., IIT Kanpur), Prof. (Mrs.) Geetika Mudali, Placement Director, (M.S.(MIS), New Jersey Institute of Technology, NJ) & Prof. Ajit Kumar Panda, Principal, (Boyscast Scholar at University of Michigan, USA).



**Prof. Sangram Mudali**

**Director**

**Distinguished Alumnus Award 2017 IIT K**  
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 Ro-

botics Group, Embedded Systems Group and the Renewable Energy 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.

**Prof. Geetika Mudali**

**Placement Director**

**Odisha Women Award, Govt. of Odisha**  
BE 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 the growth of the Institute. Lays special emphasis on personality development 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 areas of Cloud Computing, Big Data Analytics, Data Warehousing and Data Mining. She is the key initiator of many Institute-Industry partnerships at NIST. She was awarded the 'Bharat Jyoti Award 2013' for her contribution in education services and achievements.



**Prof. Ajit Kumar Panda**

**Principal / Dean**

**Senior Fellow IEEE, USA**

Ph.D. in Microelectronics from Sambalpur University. CSIR Fellow during Ph.D., with the CSIR Research Award. Received the BOYSCAST fellowship from the DST, Govt and pursued his Post Doctorate work in Microelectronics at University of Michigan, USA. Recipient of ICTP regular associate for six years for collaborating with ICTP Microelectronics Laboratory,

Italy. Coordinator of TIFAC CORE in "3G/4G Communication Technologies" at NIST. Published 72 International Journal papers and presented work in more than 100 International/National Conferences on VLSI and Microelectronics. Has also developed the world standard VLSI lab of NIST. Has guided 10 Ph.D. candidates and 30 M.Tech students. He is a IEEE ED Distinguished Lecturer.

**Dr Bishnukar Nayak**

**Course Coordinator**

**School of Sciences**

He has done his Ph.D and M.Phil from Berhampur University and is a chief exponent in the area of Cosmology and Operation Research. He has a number of papers to his credit in varied disciplines of Mathematics. He is a life member of ISTE and Odisha Mathematical Society. He renders his services in various academic as well as

administrative responsibilities. He has over 12 years of teaching experience and his research interest includes cosmology, general theory of relativity and operation research.



# Academics: Our Strength



**Prof. Trinath Sahu**  
Emeritus Prof., NIST  
(Retd. professor  
Dept. of Electronics  
Sciences,  
Berhampur  
University)



**Prof. Rankanidhi Sahu**  
Emeritus Prof., NIST  
(Retd. professor  
Dept. of Physics,  
Berhampur  
University)



**Prof. Umakanta Mishra**  
Emeritus Prof., NIST  
(Retd. professor  
Dept. of  
Mathematics,  
Berhampur  
University)



**Prof. M. N. Murty**  
Emeritus Prof., NIST  
(Retd. Professor  
Dept. of Physics,  
Khallikote University)



**Dr Debasis Panda**  
Associate  
Professor  
and Head,  
Dept. of  
Physics



**Dr Duryodhan Sahu**  
Associate  
Professor  
and Head,  
Dept. of  
Chemistry



**Dr Bibeka Nanda Bira**  
Associate  
Professor  
and Head,  
Dept. of  
Mathematics



**Dr Motahar Reza**  
Professor,  
Dept. of  
Mathematics  
and R&D  
Coordinator



**Dr Mihir Hota**  
Professor,  
Dept. of  
Physics and  
Student  
Welfare  
Coordinator



**Dr Deepanjali Mishra**  
Associate  
Prof. Dept.  
of Physics



**Prof. Sumanta Patnaik**  
Associate  
Prof. Dept.  
of Physics



**Dr Ranjan K. Padhy**  
Associate  
Prof. Dept.  
of Chemistry



**Prof. Sarita Sahu**  
Asst. Prof.  
Dept. of  
Chemistry



**Dr Shrabani Mahata**  
Associate  
Prof. Dept.  
of Chemistry



**Prof. Sangita K. Swain**  
Asst. Prof.  
Dept. of  
Chemistry



**Prof. Sangram Jena**  
Asst. Prof.  
Dept. of  
Physics



**Dr Lakshmi K. Raju**  
Associate  
Prof. Dept.  
of  
Mathematics



**Dr Subrat K. Sahu**  
Associate  
Prof. Dept.  
of  
Mathematics



**Dr Sarbeswar Barik**  
Associate  
Prof. Dept.  
of  
Mathematics

## School of Sciences

Established in 1996, NIST has created a benchmark in the field of Technical education. The objective of this Institute is to create quality engineers, managers and entrepreneurs to help build the nation. The school of sciences is as old as NIST. The school presently consists of three departments namely, Physics, Chemistry and Mathematics. Initially the school used to support B. Tech, MBA, MCA, and M. Tech programmes. From 2017 the school has started offering its own Master Degree programme i.e. M. Sc in Mathematics, Physics, and Chemistry and in 2018 B. Sc (Honours) programme in Mathematics, Physics, and Chemistry under Berhampur University. The school has 25 number of faculty members with Ph. D degrees. The school has received various grants /projects from UGC, AICTE, NBHM and DST. With a conspicuous beginning, the school of sciences has been equipped with well furnished laboratories, class rooms, and separate library for students. The Department runs the reputation of having some of the best brains who have engineered innovative academic rigour and research paradigms.

### Post Graduate Programs (M.Sc)

Courses	No. of seats
Physics	16
Mathematics	16
Chemistry	16

### Under Graduate Programs (B.Sc)

Courses	No. of seats
Physics (Hons)	32
Mathematics (Hons)	32
Chemistry (Hons)	32

### Salient Features

- ❖ Founded by Technocrats & Entrepreneurs from IITs, IIMs and US Universities
- ❖ Faculty recruited from Top Indian and US Universities and Industries
- ❖ Network based ERP for administrative and academic purposes
- ❖ State-of-Art Laboratories
- ❖ Fully computerized well equipped Library
- ❖ Digital library connected to international & national online journals
- ❖ 24/7 Wireless Internet Service on Campus
- ❖ Separate hostels for boys and girls
- ❖ Soft Skills Training (on & off campus) and English Language Laboratory
- ❖ Special coaching for NET/GATE
- ❖ Research oriented course work

## Advanced Research Labs @ NIST

- ❖ Device Fabrication Lab
- ❖ Microwave Meas. Lab
- ❖ VLSI Design Lab
- ❖ Optoelectronics Lab
- ❖ Nanotechnology Lab
- ❖ Nano Synthesis Lab
- ❖ Mathematica Lab
- ❖ Inorganic and Physical Lab

## R & D Collaborations

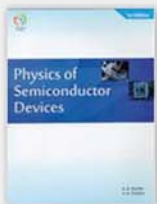
- ❖ University of Electro Communications (UEC), Japan
- ❖ Academia Sinica, Taiwan
- ❖ Burnel University London, UK
- ❖ Myongji University, Seoul, South Korea
- ❖ Drexel University, USA
- ❖ IIT, New Delhi | IIT, KGP
- ❖ Stanford University, USA
- ❖ NJIT, USA



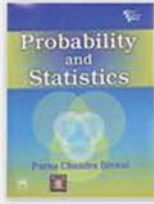
## Faculty Hall of Fame

- ❖ 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 65
- ❖ Faculty with Post Doctorates 25
- ❖ Faculty from IITs, IISc & ISI 45
- ❖ Faculty from Foreign Universities 21
- ❖ Humboldt Fellowship 1

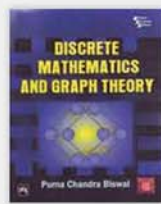
## Books Published by NIST Faculty



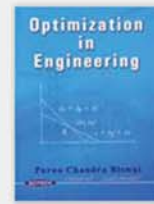
**Physics of Semiconductor Devices**  
Dr. Ajit Kumar Panda



**Probability and Statistics**  
Dr. Purna Ch. Biswal



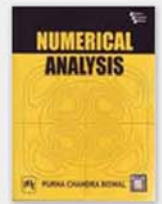
**Discrete Mathematics & Graph Theory**  
Dr. Purna Ch. Biswal



**Optimization in Engineering**  
Dr. Purna Ch. Biswal



**Material Science**  
Dr. Sukanta K. Tripathy & Dr. Arun K. Padhy



**Numerical Analysis**  
Dr. Purna Ch. Biswal



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