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NIST AUTONOMOUS

Center for Academics and Research Excellence Since 1996

Institute Park, Pallur Hills, Berhampur, Odisha-761008, India



School of

ELECTRICAL SCIENCES

To be an elite engineer

 2022 72 nd All India Rank among Engineering Institutes	 2021 NIST is recognised in the band "PERFORMER"	 2020 119 th in All India Business School Rank	 2019 60 th All India Rank by OUTLOOK	 2018 25 th All India Rank by DATAQUEST	 2016 69 th All India Rank by NIRF
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NAAC (UGC) accredited With Grade 'A'



Accredited by National Board of Accreditation

(For CSE & ECE)

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ABOUT NIST

NIST is an autonomous institute, established in 1996 as the first NRI higher educational venture in the state of Odisha with an objective to be a center for academics and research excellence at par with international universities. It is promoted by SM Charitable Educational Trust established in 1995 by Dr. Sukant K. Mohapatra and Mrs. Sanjeeta Mohapatra as founder / donor trustees. Located at foothills of Pallur Hills in Berhampur, spanning over sixty acres of lush green campus, NIST is a premiere research institute in the country offering undergraduate, graduate, and Ph.D. program in Engineering, Science, and Management.



OUR VISION

Focused on high quality teaching, creative innovation, entrepreneurship, and universal partnership

OUR MISSION

A research institute committed to academic excellence, fundamental research and innovation, nurturing global citizens, and collaborative engagement.

School of Electrical Sciences

The School of Electrical Sciences is one of the oldest departments of the National Institute of Science and Technology, Berhampur. It is established as one of the major departments of the Institute, since its inception in 1996. The School of Electrical Sciences has two departments, Electrical Engineering (EE) and electrical and Electronics engineering (EEE). With excellent faculty, the School of Electrical Sciences offer Under Graduate (B.Tech) and Post Graduate (M.Tech) in Power Systems and research (Ph.D) programmes. The Department is strong with maximum faculty members holding PhD degrees and expertise in various fields of Electrical Engineering.

The Department of Electrical Engineering has been actively engaged in teaching and research in diverse fields of Electrical Engineering. The broad areas of expertise include State Estimation and Real Time Control of Power Systems, Applications of ANN and Fuzzy Logic in Power Systems, Application of Power Electronics to Power Quality Improvement and Industrial Drives, Hybrid Energy Storage Systems, Renewable Energy System, DSP controlled Drives, Simulation of Power Electronic Converters and Drives Systems and Control of Special Machines. The department has renewable energy centre of excellence labs with well furnished academic labs.

Why join EE & EEE @NIST

- Broad and strong academic and research programs in Smart Grid Technology, Renewable Energy systems, Control and Automation Technology etc. with large and diverse student community
- Academic excellence, research, and innovation with partnership of Global Universities such as IITs, NITs and highly reputed universities
- Career Opportunities spanning from Job Placement, Higher Education, and Entrepreneurship with average 60% students placed in various companies last 2 years
- Students work as interns and commercial projects with our industry collaborators/partners
- Significant Financial Scholarship and Assistantship are awarded to exceptional students on a merit basis by individual academic departments.
- Student community trained with Value, Ethics, Collaboration, and Social Services
- Excellent campus academics with high quality lab facilities

Highlights

- Faculties with 80% PhD scholars from the best institutes in the country like IITs and NITs
- Department includes Center of Research Excellence Labs such as centre of Excellence Renewable Energy lab, Synchro-Phasor lab, Power System lab etc.
- Active industry internship, partnership and collaboration – enabling student to the exposure of real-world solution, products and working environment
- Paid research and student assistance for eligible students beyond scholarship
- Opportunities for students to pursue their own interest though clubs (Music, Social Service, Photography, Robotics, renewable club) and sports facilities beyond academics
- In-person interaction with power industry and thought leaders around the globe during various talks, conferences, seminars and events
- Student counselling and mentoring from day one in campus till graduation
- Special coaching facility for PSUs and GATE exams in the department

DR. PRIYADARSHI TRIPATHY, PRINCIPAL



Ph.D in Electrical Engineering from Concordia University, Montreal, Canada and M. Math. in Computer Science from University of Waterloo, Waterloo, Canada. Dr. Tripathy has a strong Academic career with 17 years of software industry experience in Canada and USA at Nortel Networks, Cisco Systems, Airvana Inc. and NEC Labsat Princeton. Before

joining NIST, he worked as a Dean, School of Information & Computer Sciences (SICS), Ravenshaw University. He has co-authored two textbooks on Software Evolution and Software Testing and Quality Assurance which are being adopted as course text. His research interest is in the area of software engineering and computer networks.

DR. SACHIDANANDA PRASAD, HOD



Associate Professor in the School of Electrical Sciences. He received his PhD from National Institute of Technology, Warangal (NITW), Telangana state in Electrical Engineering. He has more than 10 years of teaching and research experience. He has received POSOCO Power System Awards in 2018 at the doctoral level by IIT Delhi and Indian Power Grid

Corporation. His research interests include distribution system state estimation, Smart Grids and application of artificial intelligence techniques to power systems. He has published reputed international journals like IEEE Transactions and IETs in his research areas. Currently, heading the School of Electrical Sciences.

The School of Electrical Sciences runs the following programs:

B.Tech.

Electrical Engineering

B.Tech.

Electrical and Electronics engineering

M.Tech.

Electrical Engineering (Power systems)

LABORATORIES

- Basic Electrical Engineering, Network Device
- Electrical Machine, Control System, Power Electronics
- Electric Drives, Power System Simulation
- Electrical Power Transmission and Distribution
- Renewable Energy, SERB sponsored Synchro-phasor

Research Labs

- Renewable Energy Laboratory
- Power system Simulation Laboratory
- Synchro-Phasor Laboratory



High-end Equipment List

- Siemens PLC
- DC shunt Motor Control Module
- Class E Chopper Module
- Grid connected Induction Generator
- Three phase Alternators (5 sets)
- Electrical Machine Trainer (Turbo Model)
- PV Cells with grid model (Eco-Sense Solar Set)
- Hybrid Vehicle (Motor based Automobile)
- Solar Thermal Systems
- Tetrixprime Mobile Robots

Licensed Software

Snyder PLC Firmware, siemens C2000 plc firmware, Labview 2017 development version, MATLAB with add on tool boxes like optimization, statistical machine learning, embedded system, IoT etc, Power System Computer Aided Design (PSCAD) software, Electrical Transient Analyser Program (ETAP) software

CLUB ACTIVITIES

- Renewable Energy Club
- Control Automation Club
- Robotics Club



STUDENT PLACEMENT



Sudeshna Behera
Cognizant



Banisetty Manohar
Infosys



S. Satyavani Manasa
Infosys



Rahul Sharma
Capgemini



Nepolean Senapati
Wipro



Saurav Raj
Corel technologies



Anoushka Singh
Capgemini



Aniket Padhy
Wipro



Tayaba Nikhat
Capgemini



Aparajita Pradhan
Spikewell

SUMMER COURSES

- Computer Aided Simulation in Electrical Engineering & Renewable Energy System
- Surya Mitra Skill Development Program (Training Program)

FUNDED RESEARCH PROJECTS

Dr. Murthy Cherukuri: Research project titled "Wide Area Situational Awareness Assessment Using Phasor Measurement Units" The project grant is for a sum of Rs. 36.9 Lakhs for 2017-18 by Science and Engineering Research Board (SERB).

Dr. Santanu Kumar Pradhan: Research project titled "Development of Adaptive Cooperation Motion Control Algorithms for Multiple Autonomous Ground Vehicles". The project grant is for a sum of Rs. 26.6 Lakhs for 2017-18 by Science and Engineering Research Board (SERB).

OUR ESTEEMED RECRUITERS

