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NIST AUTONOMOUS

Center for Academics and Research Excellence Since 1996

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

Department of ELECTRONICS AND COMMUNICATION ENGINEERING

Apex kernel for all innovations



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 academic 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.

Department of Electronics and Communication Engineering

Department of Electronics and Communication Engineering started as department of ECE in B. Tech. with establishment of NIST in 1996. The Department of Electronics and Communication Engineering now span with M. Tech. programme beside B. Tech. in different courses of VLSI & Embedded System Design, Electronics and Communication Engineering and Wireless Communication Technology with student strength over 500. In order to enhance the potential of our students to cope up with the today's trend of industries, department offers different summer training programs on emerging technologies like Basic and Advance VLSI Design, FPGA Based Design Course, IOT & Embedded Systems, Semiconductor Devices and Nano Science & Technology. Apart from above, department also offers specialized courses like Python for Machine Learning, Device Fabrication, Spice Simulation, MATLAB Simulation, etc. Every year department faculty members publish papers in high impact factor international journals like IEEE, Springer, Elsevier, Taylor & Francis, etc. More important, students also publish in international conferences and journals based on their third year and fourth year project work in association with department faculty members. As a mark of productive research works from students and faculty members, department has various Center of Excellence of industries like CADENCE, Texas Instruments, NI centre of excellence, e-Yantra, center of excellence in VLSI (Maven Silicon), Electronics centre of excellence (E-COE) and Electronics Sector Skill Council of India (ESSCI). Department also help its students for internship in India at reputed institutes like NIT Patna, NIT Arunachala, IISER BAM, IISER Bhopal, IIT Jammu, IIT Kanpur and CSIR Jorhat during their entire B. Tech. career.

Why join ECE @NIST

- Broad and strong academic and research programs on recent trends of industries
- Department association with Global Universities and Industries to enhance its academic excellence, research, and innovation
- Consistency in placement records over 85 percentages over the years.
- Excellent career opportunities with tremendous scope for Higher Education and Entrepreneurship
- Opportunities to work as an intern in commercial projects with our industry collaborators
- Department supports students to get financial scholarship, teaching assistantship and grants
- Training the student community to contribute to the society through values, ethics, collaboration and social services.

Highlights

- More than 70% Faculties with Doctorate Degrees from the best institutes in the country and abroad with huge experience in various fields of Electronics and Communication Engineering.
- State of the art infrastructure and facilities including Center of Excellence research Labs: Cadence Design Lab, Device Fabrication and Characterization, Synthesis and Photonics Laboratory, 3G/4G Lab, FPGA lab, Texas Instruments, NI, e-Yantra, E-COE and ESSCI
- Active industry internship, partnership and collaboration.
- Opportunities like paid research and student assistance beyond the scholarship for eligible students
- For enhancement of additional skills, our students are availed with different technical and non-technical clubs like Astronomy club, Robotics club, Electronics hobby club, Club excel, Eureka club, Club Innova, Multimedia club, NIST Musical society, Sports and Adventure club, Yoga and Fitness club, Cloud Computing club, Photography club, CAT club, Team NSS and Quizzards club
- Periodical organization of technical talks, conferences, seminars and events for students to provide In-person interaction with industry leaders
- Student counseling and mentoring from the day of joining the institute till graduation

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. M SURESH, HOD



BE, ME and PhD in Electronics (engineering). He has more than 23 years of teaching experience in PG and UG courses. His research interest includes low power VLSI arithmetic circuits, Embedded system. He has published several articles in reputed international journals and presented in international conferences. He guided students

for PG and UG projects. He has professional membership of IEEE, IETE, life member of ISTE. Currently he is serving as IQAC coordinator and HOD of Department of ECE.

Department of ECE runs the following programs:

B.Tech.

Electronics and
Communication Engineering

M.Tech.

Wireless
Communication Engineering

M.Tech.

VLSI &
Embedded System Design

M.Tech.

Electronics and
Communication Engineering

LABORATORIES

- Simulation Lab
- Communication Lab, Microprocessor Lab
- Digital Signal Processing Lab
- Microwave Lab, Innovation Lab
- Analog Electronics Circuits Lab
- Basic Electronics Lab



Project & Research Labs

- Innovation
- Texas Instrument Innovation / E-Yantra
- VLSI , FPGA, Device Fabrication and characterization
- Antenna Fabrication
- Microwave Measurement and Characterization
- Embedded System
- Cadence Design
- Device Fabrication and Characterization, Synthesis and Photonics Laboratory

CLUB ACTIVITIES

ASTRONOMY CLUB, ROBOTICS CLUB
ECO WALKERS, CLUB EXCEL, EUREKA
CLUB, CLUB INNOVA



STUDENT PLACEMENT



Prakash Panigrahi
Western digital, 19.15 LPA



Sital Padhi
Comviva, 6.5 LPA



Shubhangi Deepak
Comviva, 6.5 LPA

Many more...



Sheetikanta Mohanty
Persuing MS at National
Taiwan University, Taiwan
(#QS: 66)



Darsana Deo
Persuing MS at National
Taiwan University, Taiwan
(#QS: 66)



Shivendra P Singh
National Tsing Hua University,
Taiwan (#QS: 168)



Bishal K Nahak
National Tsing Hua University,
Taiwan (#QS: 168)



Dipun Jena
National Tsing Hua University,
Taiwan (#QS: 168)



Avi Arya
NYCU Taiwan (#QS: 240)



Debasish Panda (ECE 4th Year) got 1st Prize in Startup idea Pitching, organized by Entrepreneurship Cell, IIT Kharagpur on the theme "Health Tech and Wellness".

SUMMER COURSES

Cadence, VLSI, Embedded System, Nano Electronics & Design & Fabrication



MAJOR RESEARCH PROJECTS

- **98.47 lakhs** rupees of Research Projects : jointly funded by the Department of Science and Technology, Govt. of India and Intel (Indo-US Science and Technology Forum) with IIT Delhi, NEERI Nagpur, University of Hyderabad, CMET pune, University of California at Riverside, New Jersey Institute of Technology, Michigan State University, Stanford University in 2017 (**Total -9cr**)
- **36 lakhs** Rupees of Research Project fund was sanction by ECR SERB during Feb 2019
- **35.7 lakhs** Rupees of Research Project fund was sanction by SERB during June 2018

OUR ESTEEMED RECRUITERS

