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# NIST AUTONOMOUS

Center for Academics and Research Excellence Since 1996

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

# Department of MECHANICAL ENGINEERING

Profession for intelligent people

**TIMES**  
Ranking

**2021**

98<sup>th</sup> All India Rank  
among  
all institutes

**OUTLOOK**

**2019**

60<sup>th</sup> All India Rank  
by OUTLOOK



**2018**

25<sup>th</sup> All India Rank  
by DATAQUEST



**2016**

69<sup>th</sup> All India Rank  
by NIRF



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.

## Department of Mechanical Engineering

The Department of Mechanical Engineering was established in the year 2012 with a strength of 60 students. In order to enhance the potential of our students' to cope up with today's corporate trend, the department offers different training programs based on the needs of the industries like Auto-CAD, CNC, Ansys, NDT, Creo, HVAC, Welding inspection. The departments offer GATE classes for students to pursue higher studies as well as public sector jobs. Every year department faculty members published high impact factor journals in Elsevier, Taylor & Francis and Springer. More important, students are also publishing international conferences and journals based on their third year and fourth year project work in association with faculty members. Department maintains consistency in placement records over the years. Along with that, department also insists its students for higher studies in India and abroad like IIT Kanpur, IIT Mandi, and abroad universities like Taiwan, UK and USA.

### Why join Mechanical Engineering @NIST

- Broad and strong academic and research programs in Machine Design, Manufacturing Science, Industrial Engineering and Thermal Engineering with large and diverse student community.
- The department is associated with Global Universities to enhance its academic excellence, research, and innovation.
- Career Opportunities spanning from Job Placement, Higher Education, and Entrepreneurship with average 60% student placed in last 2 years.
- Students work as interns and commercial projects with our industry collaborators/partners.
- Department supports students to get financial scholarship, assistantship and grants.
- Along with strong academic activities our student community trained with value, ethics, collaboration and social services to serve the society better.



## Highlights

- Faculties with 70% Ph.D scholars from the best institutes in the country.
- State of the art infrastructure and facilities including Center of Research Excellence Labs: Mechatronic, Advanced Production Lab, Advanced research facility (wind tunnel)
- Active industry internship, partnership and collaboration – enabling student to the exposure of real-world solution, products and working environment.
- We as department provide opportunities for eligible students like paid research and student assistance beyond the scholarship.
- As an enhancement of additional skills of our student's department has been providing 12 different technical and non-technical clubs (Robotics, SAE India, Music, Social Service, Photography etc.).
- Department organizes periodically technical talks, conferences, seminars, webinars and events for its students to provide in-person interactions with industry leaders around the globe
- Department has association with student counseling and mentoring cell from the day one in campus 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. SOUREN MISHRA, HOD



Dr. Souren Misra received Ph.D degree from Indian Institute of Science (IISc), Bangalore, India under the Aerodynamics division of Dept. of Aerospace Engineering in 2014, Master of Engineering in mechanical engineering from M. S. University of Baroda, Badodora, India in 2005, B. Tech in mechanical engineering from Berhampur University, Odisha,

India in 2001, currently working as a associate professor in Department of Mechanical Engineering in NIST, Berhampur, Odisha, India. He has more than 7 years of teaching and 17 years research

## LABORATORIES

- Research & Development
- Heat Transfer, Material & Testing
- Fluid Mechanics and Hydraulic Machine
- Advanced Production
- Kinematics and Dynamics
- Refrigeration & Air Conditioning
- CAD/CAM , Engineering Drawing
- Engineering Thermodynamics
- Internal Combustion Engine
- Workshop

### Research & Development Groups

Research is given equal importance in addition to academics, in the Department of Mechanical Engineering, NIST. The faculty members of the department carry out both core and interdisciplinary research with other departments of the institute. Broadly, there are four research groups in the department, which are detailed below.

- Materials Research & Characterization Group
- Fluid Dynamics Scientific Computing Group
- Robotics & Mechatronics Group
- Smart Materials & Manufacturing Group

### Industry-Academia Partnership

Industry-Academia Partnership by RIII & NIST (Autonomous) for Nano-material Research Center at NIST, Berhampur on 2nd October 2020.

### Hi-end Equipment List

- Wind Tunnel
- Pin-on-Disc
- Vertical stircasting furnace
- CNC Milling & Turning
- Electrical discharge machining
- Injection Moulding Machine
- Radial Drill Machine
- 3D Scanner & 3D Printer
- Robot Arm
- Duct Type Air Conditioning

### CLUB ACTIVITIES

- SAE INDIA Club
- Robotics Club



### STUDENT PLACEMENT



**Ankit Kumar**

Cognizant  
4.5 LPA



**Mohit K Barnwal**

ACE Pipeline  
3.75 LPA



**Rishabh kumar**

Cognizant  
4.5 LPA



**Sayed Qaiser Ali**

TCS  
3.36 LPA



**Jasmeet Singh**

PhD, (IIT Mandi)



**Akshyay Srichandan Mahapatra**

MBA (University of Southampton, UK)

### STUDENT ACHIEVEMENTS

### SUMMER COURSES



### RESEARCH, CONSULTANCY PROJECTS & AWARDS

- **Dr. B. Sambhi Reddy:** Research project titled "Design of Orthopedic Material for Artificial Hip Prosthesis" The project grant is for a sum of Rs. 2.7 Lakhs for 2019-20 by Collaborative Research and Innovation Scheme (CRIS) Under TEQIP-III, BPUT Rourkela.
- **Dr. Souren Misra and Mr. Santosh Kumar Panda:** Research project titled "Low dissipative positivity preserving grid-free solver for Euler equation". The project grant is for a sum of Rs. 11.05 Lakhs for 2017-19 by Science and Engineering Research Board (SERB).
- **Mr. Santosh Kumar Panda and Mr. Achyuta Nanda Parida:** Awarded with "SANKARSAN JENA MEMORIAL AWARD" by the Institution of Engineers (India) on 28th March, 2021 for the paper entitled "Automatic Footstep for SUV and Trucks."

### OUR ESTEEMED RECRUITERS

