



DEPARTMENT OF MECHANICAL ENGINEERING

DESIGNING THE FUTURE, ONE MECHANISM AT A TIME



CONTACT US AT
+91 720-532-6478

 Institute Park, Berhampur, Odisha-761008
 www.nist.edu

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@NISTUniversity

THIS IS NIST UNIVERSITY

NIST University, established in 1996 as the first NRI higher educational venture in the state of Odisha. NIST is a premier research institute in the country today, nestled in the green hills of Pallur, spread over 65 acres of lush green campus with world class academic infrastructure, CRES and GIC, Halls of residence, sport complex and other facilities. It is the dream and vision of the founding members to build NIST as a center of academics and research excellence at par with international research universities in their home state of Odisha. NIST has produced over 18000 alumni who contribute globally in the areas of technology, leadership, entrepreneurship, social and public services. NIST has been ranked highly in the country by various ranking organizations like NIRF, ARIIA, and Times etc including Govt. of India.



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

Dept. of Mechanical Engg.

Established in 2012 with 60 students, the Department of Mechanical Engineering has evolved to meet industry demands through specialized training in AutoCAD, CNC, Ansys, NDT, Creo, HVAC, and Welding Inspection. It offers GATE coaching to support higher studies and public sector careers. Faculty regularly publish in reputed journals like Elsevier, Springer, and Taylor & Francis, while students contribute to conferences and collaborate on final-year projects.

The department maintains strong placement records and encourages graduates to pursue advanced education in top institutions such as IIT Kanpur, IIT Mandi, and international universities in Taiwan, the UK, and the USA.

Why Join Dept. of Mechanical Engg.

- ✓ **Expert Faculty** - 50% Ph.D. holders; global university tie-ups.
- ✓ **Career Ready** - 90% placement; jobs, higher studies, entrepreneurship.
- ✓ **Industry Connect** - Internships, projects, and paid research roles.
- ✓ **Financial Support** - Scholarships, assistantships, and grants.
- ✓ **Hi-Tech Labs** - Mechatronics, Production, Wind Tunnel, and more.
- ✓ **Clubs & Events** - 12 active technical and cultural clubs.
- ✓ **Mentorship** - Full-time guidance from admission to graduation.



Dr. Souren Misra
(HoD, Dept. of ME)

Dr. Souren Misra obtained his Ph.D. in Aerodynamics from the prestigious Indian Institute of Science (IISc), Bangalore, India, in 2014, within the Department of Aerospace Engineering. He earned his Master of Engineering in Mechanical Engineering from M. S. University of Baroda, Vadodara, India, in 2005, and his B. Tech in Mechanical Engineering from Berhampur University, Odisha, India, in 2001. Currently, Dr. Misra is an Associate Professor in the Department of Mechanical Engineering at NIST, Berhampur, Odisha, India. With over 9 years of teaching experience and 19 years of research expertise, he remains committed to advancing the field. Additionally, he has successfully completed a SERB project, further contributing to his academic and research portfolio.

Program offered:

B. Tech

M. Tech

PhD

Academic & Research Laboratories:

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

Licensed Software

Ansys



Research Projects

- 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).

STUDENT PLACEMENTS



Choudhary Siddhu
BTech, ME (2022-26)
Zenus group



Pundi Biswaswaray
BTech, ME (2022-26)
Pie InfoTech



Salvi Kumari
BTech, ME (2022-26)
Saurabh Flexipack



Sima Sandeep
BTech, ME (2022-26)
Zenus group

& Many More...

ALUMNI ACHIEVEMENTS



Pramod Panda
Sterling Oil Exploration &
Energy Production Co. Ltd.



Md Faiz Ahmad
Trading & CFDs ,
DRA Infracon Ltd



Swagat Suman Dash
MBA-HRM,
XIM

OUR ESTEEMED RECRUITERS



& Many More...

JOURNALS & CONFERENCES

- Md. Rizuddin, G. Vasudev, Santosh Kumar Panda*, Achyutananda Parida, "Heat Transfer by Arc Welding for A Similar Material Joint", Journal of Materials & Metallurgical Engineering, 2025.
- Santosh Kumar Panda * , Aswini Kumar Khuntia , Biswajeet Mohanty, Characterization of flow phenomena in two-stage orifice systems, Flow Measurement and Instrumentation 107 (2026)
- Santosh Kumar Panda*, Alok Patra, Aswini Kumar Khuntia, Suresh Kumar Mohanty, Ansuman Muduli, Heat Transfer from Blower through Bend Pipe with Machine Learning Algorithm, WSEAS TRANSACTIONS on HEAT and MASS TRANSFER, 2025.
- Aswini Kumar Khuntia | Santosh Kumar Panda | Souren Misra | Alok Patra, Flow Measurement Through Orifice-Metre With Decision Tree Regression Method, Digital Twins and Applications, 2025
- Smitirupa Pradhan, Prajapati Naik, 12 Railway Track System, Railway Engineering Technology: Developments and Innovations, 2025

FACULTY AWARDS & RECOGNITIONS

Mr. Santosh Kumar Panda, Dr. Aswini Kumar Khuntia and Dr. Souren Misra: Awarded with "GOURI SANKAR SAHU MEMORIAL AWARD" by the Institution of Engineers (India) on 23rd March, 2024 for the paper entitled "vibrational analysis of Supra Vehicle".

