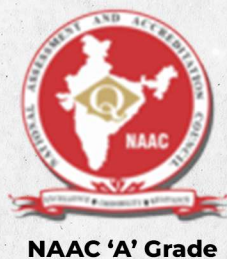




DEPARTMENT OF PHYSICS

UNRAVELING THE LAWS THAT SHAPE THE UNIVERSE



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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 University 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

Department of Physics

The Department of Physics at NIST University is committed to academic excellence, innovation, and research. Established in 1996 as part of the core engineering curriculum, it expanded with M.Sc. in 2017. With the university gaining unitary status in 2024, it now follows its own independent curriculum.

Faculty members are engaged in advanced research in nano-electronics, optics, and nano technology, while mentoring Ph.D. and M.Sc. students. The department organizes seminars, conferences, and workshops to promote student involvement in research, publications, and collaborations with national and international institutions.

Why Join Dept. of Physics

- ✓ **Expert Faculty** - 70%+ Ph.D. holders from IITs/NITs with strong academic & research backgrounds.
- ✓ **Funded Research** - ₹50+ Lakhs in DST/SERB projects completed in 3 years.
- ✓ **Future-Focused Curriculum** - Includes Python & Quantum Computing in M.Sc. program.
- ✓ **Free GATE/NET Coaching** - In-house support for competitive exam success.
- ✓ **Student Publications** - M. Sc students are publishing research papers in reputed journals.
- ✓ **Career Support** - Placement assistance in core, software & hardware sectors.

FACULTY EXCELLENCE



Dr. Deepak Kumar Swain
Ph.D (IIT Bhubaneswar)
Research Area:
Metal Nano cluster



Dr. Asish Kumar Mohapatra
Ph.D (IIT Dhanbad)
M.Tech (IIT Kharagpur)
Research Area:
Nanomaterials, Photocatalysis,
Super capacitor & Bio Sensor



Dr. Ratikanta Nayak
Ph.D (IIT Bombay)
M.Tech: (CIPET BBSR)
Research Area:
Fuel cell, Flow battery &
AI in material Science



Mr. Sumanta K. Pattnaik
M.Sc (Berhampur University)
Research Area:
Optoelectronics



Dr. Ashwini Kumar Behera
Ph.D (NIT Jamshedpur)
Research Area:
Theoretical Nuclear Physics
(On & Off-shell Nuclear Interactions)



Dr. Biswajit Panda
Ph.D (SN Bose national
Center for Basic Science)
Research Area :
LASER & Molecular Spectroscopy



Prof. Rankanidhi Sahoo
(Professor Emeritus)
Ph.D (Berhampur University)
Former Professor
(Berhampur University)
Research Area:
Theoretical Nuclear Physics



Prof. Simanchalo Panigrahi
Ph.D (Berhampur University)
Former Director (NIT Rourkela)
Research Area:
Magnetic material &
Quantum Computing



Prof. Simanchalo Panigrahi
(HoD, Dept. of Physics)

The Department of Physics is known for its academic excellence and forward-thinking approach. With faculty from IITs and NITs, we ensure high-quality teaching, mentoring, and research. Our integrated PG programs promote interdisciplinary learning through collaborative projects. We maintain strict academic discipline and support internships and NET/GATE preparation. A strong research culture has led to rare achievements, including M.Sc. student publications in international journals. The curriculum, aligned with NEP 2020, includes emerging fields like Quantum Computing and AI.

Programs offered:

Postgraduate

MSc in Physics

Doctoral

PhD in Physics

ACADEMIC LABORATORY

- Modern Physics Laboratory
- Engineering Physics Laboratory
- Optics Laboratory
- Electronics Laboratory

RESEARCH LABORATORY

- Novel Materials Research Laboratory
- Material Synthesis Laboratory



STUDENT ACHIEVEMENTS



Ms Subhrakali Swain
M.Sc Physics (2023-25)



Research Milestone Unlocked!

Ms. Subhrakali Swain, a second-year M.Sc. student, has published her research paper in the prestigious Journal of Energy Storage (Q1, Impact Factor 8.9), just two weeks after completing her final lab.

This rare achievement of Students reflects the department's strong research culture, dedicated mentorship, and the exceptional potential of our students. She is an inspiration for aspiring young researchers in the department.

ALUMNI ACHIEVEMENTS



Sibananda Das
Physics Teacher (PGT)
KV, Malkangiri



Suman Dash
Science teacher (TGT)
Sanskar International
School, Bargarh



Rajendra Chattei
Physics Teacher (PGT)
Mother's International HS,
Berhampur



Amina Panda
Guest faculty (Dept. of Phy.)
SBP Mahavidyalaya
Samantipalli, Ganjam



Umakanta Padhi
APR constable, Odisha
Police, Berhampur
Organisation: Govt. of Odisha



Hara Prasad Behera
Software Developer
Company: Covalence
Digital Bengaluru



Jyotirmayee Barik
CEI (Civilian Education
Instructor)
Company: Indian Navy,
Chilika, Odisha



Kiran Sahu
Trained Graduate Teacher
Govt. UGHS, Angul
Organisation: Mass
Education, Govt of odisha



Rojalin Panda
Ph.D student (Dept. of Physics)
Organisation: SOA University,
Bhubaneswar



Ishaneswari Maharana
System Associate
Company: Infosys (Mysore)



Kamakshi Brahma
Ph.D student (Dept. of Physics)
Organisation: NIST University,
Berhampur



Mukesh Kumar Swain
Project Manager
Company: Dev On, Bengaluru

ALUMNI CORNER



Sibananda Das
Batch-(2022-24)
M.Sc Physics

“My post-graduation journey at NIST, Berhampur (M.Sc. Physics) was truly enriching. The green campus fostered focus and growth, with supportive staff and excellent facilities. Our faculty, especially the HOD, was knowledgeable, kind, and always guided us with patience. Well-equipped labs, vibrant events, and a cooperative environment shaped both academic and personal development. The friendships I built made those two years unforgettable. Now, as a PGT Physics teacher at Kendriya Vidyalaya, I cherish NIST's vital role in my journey with deep gratitude.”

“My two years at NIST (2020–2022) during my M.Sc. in Physics were truly memorable. The faculty made complex concepts easy to grasp, and the labs were well-equipped for real learning. Regular seminars, Physics Day, and events like Fresher's and Farewell helped us bond beyond classrooms. What stood out most was the constant student-teacher interaction and encouragement to grow. NIST didn't just shape my academics, it helped me evolve personally and professionally. I'll always cherish those days.”



Mukesh Kumar Swain
Batch-(2020-22)
M.Sc Physics

RESEARCH & INNOVATION

The Department of Physics actively secures funded projects from agencies like DST, AICTE, BRNS, and DRDO.

Prof. R. Sahu completed a SERB project (₹21.23L, 2021–24) on deformed shell models.

Dr. R. Nayak completed a DST-SERB project (₹17.19L, 2022–24) on ion exchange membranes.