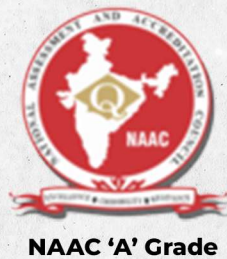




DEPARTMENT OF CHEMISTRY

FROM MATTER TO MASTERY - SHAPING THE FUTURE



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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

Department of Chemistry

The Department of Chemistry at NIST University is dedicated to academic excellence, innovation, and research. Initially focused on Engineering Chemistry since 1996, the department expanded to offer M.Sc. in 2017 and B.Sc. in 2018, and after achieving unitary university status in 2024, it implemented its own curriculum. Faculty members engage in cutting-edge research and actively guide Ph.D. and M.Sc. students.

The department hosts regular seminars, conferences, and workshops, promoting student research, publications, and collaboration with national and international institutes, contributing to advancements in global scientific fields.

Why Join Dept. of Chemistry

- ✓ **Expert Faculty** - Highly distinguished professors committed to innovative teaching, mentorship, and hands-on training.
- ✓ **Pioneering Research** - Focus on advancing energy, materials science, environmental sustainability, and polymer technology through interdisciplinary collaboration.
- ✓ **State-of-the-Art Facilities** - Modern laboratories equipped with advanced instruments for scientific exploration and experimental learning.
- ✓ **Global Exposure** - International conferences & workshops.
- ✓ **Successful Careers** - Graduates thrive in academia, industry, and research, backed by a robust alumni network and career services.



Dr. Duryodhan Sahu
(HoD, Dept. of Chemistry)

Dr. Duryodhan Sahu earned his Ph.D. from National Chiao Tung University, Taiwan, in 2010. He then pursued postdoctoral research at the Research Center for Applied Sciences, Academia Sinica, Taiwan, in 2011. In 2016, he was a visiting researcher at Brunel University London, UK. With 20 years of teaching and research experience, Dr. Sahu has published 31 peer-reviewed journal articles, holds one patent, and has contributed four book chapters. He has also co-authored a book with an international publisher. He has received the best researcher award twice in the year 2019 & 2022 by BPUT for his excellence in research in the field of chemistry. His research focuses on the synthesis of organic, Bio and nanomaterials for electro-optical and environmental applications.

Programs Offered:

MSc

PhD

Academic & Research Laboratories

Organic Synthesis Lab

A state-of-the-art facility focused on designing, developing, and optimizing organic molecules for pharmaceuticals, materials science, and sustainable chemistry, driving innovation and real-world impact. Equipped with advanced instruments, the lab supports exploration of synthesis pathways and molecular interactions, preparing students for careers in drug discovery, green chemistry, and material innovation.



Physical & Analytical Lab

A cutting-edge facility for hands-on experiments in physical and analytical chemistry, equipped with instruments like polarimeters, conductivity meters, colorimeters, and pH meters. It also supports advanced material synthesis for research and learning. The lab fosters critical thinking and precision, preparing students for careers in research, industry, and higher education.



Career Opportunity:

- Internships across private, public, and government sectors.
- Placement support for private sector careers.
- Guidance for government roles (e.g., BARC, ISRO) with GATE preparation.
- Preparation for higher education, including Ph.D. programs.
- Training for well-paying school teaching roles.
- Support for competitive exam preparation (service commissions).

STUDENT INTERNSHIPS



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IREL (India) Ltd.



M Sahu
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S Panigrahi
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M Samyukta
IREL (India) Ltd.

ALUMNI ACHIEVEMENTS



M Sahu
Jr. Asst, S & M Edu. Dept.
Govt Odisha



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Cuttack



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P Dash
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OAV Buguda



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A Tripathy
Hr. Executive



A Patro
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A P Padhy
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MacLeods pharma Ltd.



R Patro
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L Sathapathy
QC, process optim.offc,
IREL



A L Patro
PGT Chemistry,
OAV



B. Mahapatra
Lecturer,
RCM college



B S Padhy
Lecturer,
Vignan H.S. school

Student Achievement

Ms. Aswi Rani, an M.Sc. 1st year student, was selected for the IASc-INSa-NASI Summer Research Fellowship (2025). She will carry out her research at the Indian Institute of Technology (IIT), Palakkad. This fellowship provides an opportunity to gain valuable research experience under expert mentorship.



Faculty Achievement

Dr. Shrabani Mahata has received a fund of 10.58 lakh by AICTE for the project, "Development of surface passivated quantum dot sensitized frontier technology based semiconducting photoelectrode for H₂ generation for artificial photosynthesis" (2017-2020).