

2025 ANNUAL REPORT

Annual Report 2025

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ABOUT NIST

NIST University, Institute Park, Berhampur, Odisha, was established in 1996 as the first NRI higher educational venture in the state of Odisha, promoted by SM Charitable Educational Trust. The Trust was established in 1995 by Dr. Sukant K. Mohapatra and Ms. Sanjeeta Mohapatra (both NRIs based in the US) as Founder/Donor Trustees. Dr. Sukant Mohapatra is the founder chairman of the Trust and NIST, providing visionary guidance for NIST to become a world-class institute. NIST is a premier research institute nestled in the green hills of Pallur, spread over 65 acres with world-class academic infrastructure, research excellence centers (CREs), global innovation centers (GIC), halls of residence, a sports complex, and other facilities. NIST offers undergraduate, graduate, and Ph.D. programs in Engineering, Science, and Management and has set benchmarks through outstanding academic programs, quality education, and cutting-edge multidisciplinary research. It has research collaborations with global universities and strong industry-academia partnerships. NIST has produced over 19,000 alumni contributing globally in technology, leadership, entrepreneurship, and public services and has been highly ranked by organizations like NIRF, ARIIA, and Times, including the 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



CORE VALUES

Belief: in respect, integrity, compassion, diversity, and teamwork

Excellence: in academics and research

Encouragement: for freedom of thought, expression, and view point

Spirit: of community, nation building, inclusive growth, and recognition of individual uniqueness

Truth: in the pursuit, dissemination, and application of knowledge

RANKING AND ACCREDITATION:

- NIST University is accredited with a NAAC "A" Grade and approved by UGC, AICTE, and PCI.
- NIST Ranked 28th among all Engineering Institutes in India by Times Engineering 2025
- NIST Ranked 119th among all Business Schools in India by Business Standard 2020
- NIST is ranked 66th among Engineering colleges in India by DATAQUEST in 2020
- NIST ranked 69th by NIRF, MHRD (Govt. of India) and 1st among all BPUT-affiliated engineering colleges (2016).
- NIST is ranked 60th in all of India by OUTLOOK in 2019
- BPUT Students has ranked NIST as the No.1 Engineering Institute among 100+ engineering institutes of Odisha through public voting.

NATIONAL LEVEL LABORATORIES:

- **DST-FIST Centre:** Vector network Analyzer (up to Ku - band), BENCHMARK WiCOMM-T Wireless Digital Communication Training System, ASIC Tester Model: Nikki ASIC, VEE Software, Microstrip Antenna Fabrication Unit, Power Supply, Measuring instruments, Fibre Optics trainers, Microwave Test bench , Antenna Trainers for communication Lab.
- **TIFAC CORE Centre:** LTE Laboratory, WiMAX Laboratory, SDR Laboratory, MIMO & WSN Laboratory, Embedded System & VLSI Laboratory, Device Fabrication Laboratory, Measurement and Testing Laboratory.
- **Advance Computing Center:** High-Performance Computing Laboratory with 1 Master+3 Slaves High-End Servers with 16 Core Processors in each server. Centers of Excellence was established in partnership industry such as CADENCE, IBM, SAP Asia Pacific, National Instruments, Texas Instruments, and ARM, WIPRO. Other .
- **Centers of Excellence:** Center of Mechatronics, Center of Image Processing & Cryptology, Center of Knowledge Engineering, Center of Industrial Automation Control, Center of Renewable Energy & Center of Nano Technology.

GLOBAL INNOVATION CENTERS (GICS)

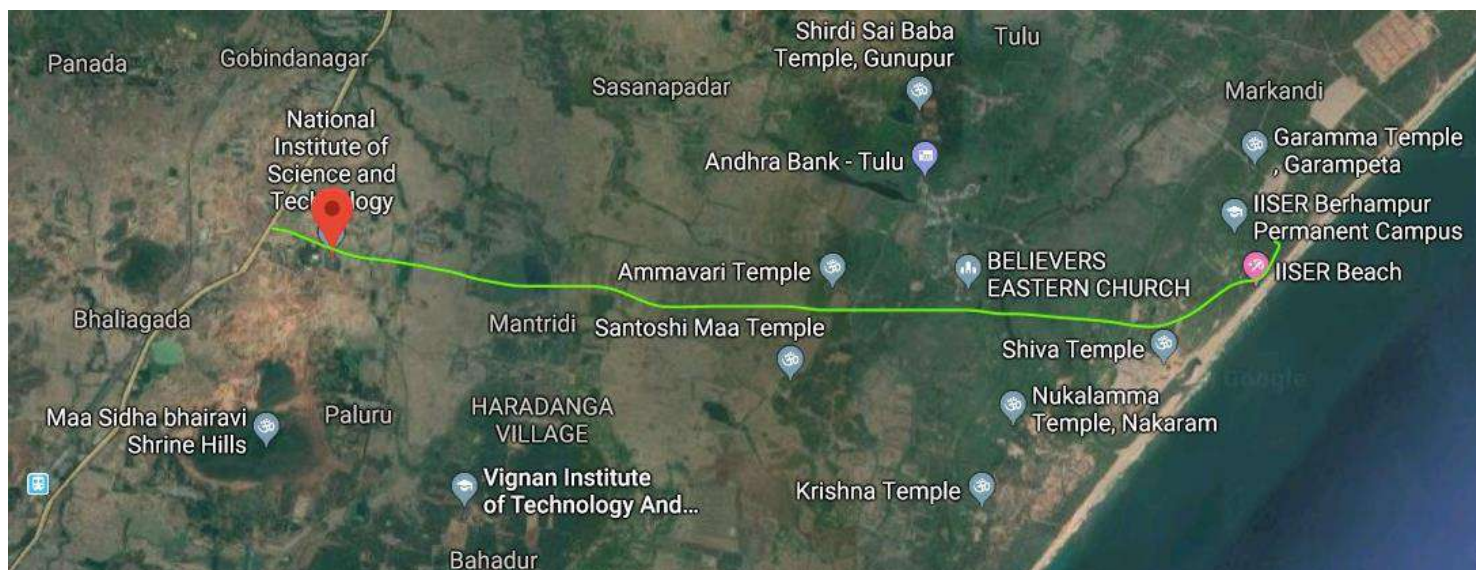
NIST University is in the process of building Global Innovation Centers (GICs) in four key areas:

- 5G and Future Communication
- Semiconductor using Advanced Materials
- Artificial Intelligence
- Biotechnology with a focus on Marine Biotech

The GICs are being built and/or developed with global collaboration of industries, labs, universities, and govt. The technical resourcing to support these GICs at NIST University is a three-tier approach:

- External subject matter experts (SMEs), Innovators, Researchers, Thought Leaders, and Policy Makers from different parts of the world (specifically from the USA and Europe)
- Faculty members led by senior professor/dean with focused applied research and innovation in the specific area
- Student community specifically PhD, M.Tech/M.Sc and Final Year B.Tech students who are passionate in the specific areas of research

The objective is to leverage research, innovation, and product prototype/PoC in those key technology areas. GICs are expected to attract companies for product development in those key segments and/or develop the startup/companies (Make in Odisha/India initiative) with commercial production. The near-term objective is to have a technology corridor in southern Odisha leveraging research universities/institutes (e.g., NIST University, IISER, etc.) and Tata SEZ facility. NIST University is expected to serve as the de-facto R&D facility and an epicenter of innovation for high-tech companies in different verticals. This will certainly help our state of Odisha to become a high-technology hub of national eminence in the near future.



5G AND FUTURE COMMUNICATION

The NIST University has already established the 5G and Future Communication Global Innovation Center (GIC). The GIC infrastructure is provided by Celona (www.celona.io), California, USA. The GIC has complete 5G infrastructure including core, radio (GNodeB), and antennas supporting Private Wireless Networks (PWN). NIST University campus is currently running a 5G network leveraging the mid-band spectrum provided by DoT.

NIST University is also working with the Institute of Electrical and Electronics Engineers (IEEE), USA in providing 5G/6G testbeds worldwide. This will enable access to 5G/6G testbed globally to industries, research labs, researchers, and the student community for collaborative innovation and evolution of 5G/6G technology. NIST University is working with Celona, USA collaboratively for publications, research grants, and patents. In addition, both NIST University and Celona are in discussion with mining sectors for the deployment of 5G technology in support of smart mining in India. This will differentiate mining

GLOBAL INNOVATION CENTERS (GICS)

sectors for not only using the latest communication technology (i.e., 5G) first-time in the mining vertical, but also for significant increases in productivity, safety, and security, and enabling automation in moving towards the era of smart mining. Given in Odisha there are around 1260 mines, this will be a game changer for the state and potentially Celona, USA opening a 5G production unit in the state.



SEMICONDUCTORS USING ADVANCED MATERIALS

NIST University is in the process of developing the Semiconductor Fabrication Global Innovation Center (GIC) leveraging advanced materials in a differentiated way.

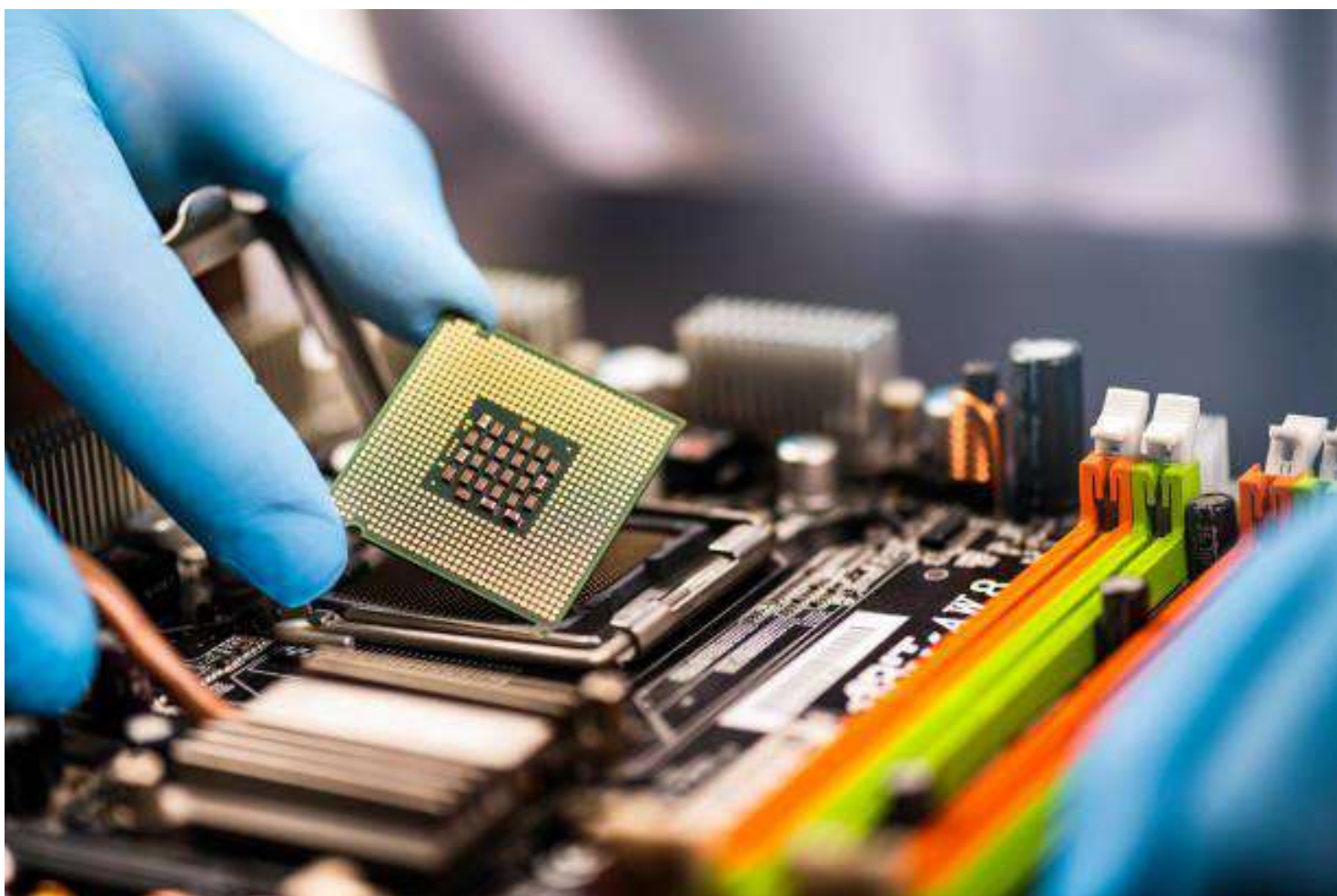
India needs to empower its semiconductor visions by propelling innovation infrastructure leading to productizations in emerging technologies that are most conducive for scale-up in India. Advanced compound semiconductor devices (Gallium Arsenide GaAs, Gallium Nitride GaN, Indium Phosphide InP, Silicon Carbide SiC, and Silicon Germanium Si-Ge) enabling drones, electric vehicles, advanced wireless (5G) and telecommunication (100 Gbps), renewable energy, smart power grid. These technologies can position India as the production hub of such immense value-added industries. The silicon-based semiconductor industry faces stiff competition and decreasing margins due to large capacity in China, Taiwan, Germany, and the USA, whereas compound semiconductor-based chipsets are in controlled technology regimes and ideal for pursuing in India with collaboration from the USA, as China has limited access to achieve dominance in these new generation and strategic sectors.

GLOBAL INNOVATION CENTERS (GICS)

“Make-in-India” technology developments by NIST University and USA Technology company/ University collaborated Center for India Advanced Compound Semiconductors (IACS) facility in GaN, InP, SiC, and SiGe will create an ecosystem of global-scale excellence in Berhampur/Odisha region that can replace existing Silicon Valley, and spur large scale product development in subsystems (power electronics, control devices, detectors) and eventual sectoral dominance in Drones, Unmanned Autonomous System, EV, 5G, ultrahigh-speed telecom, smart grids, and next generation telemedicine.

This advanced “Make-in-India” technology development facility will transform Berhampur /Chhatrapur (Southern Odisha) into a new cradle of advanced semiconductor technologies that will bring India into a global semiconductor leadership position. Once established, apart from R&D and product development, this facility will also train semiconductor manpower across Odisha/India as well as usher commercialization of developed chipsets across the country.

NIST University is in active discussion with companies in the US and semiconductor funding organizations in India to have the Semiconductor GIC at NIST University.



ARTIFICIAL INTELLIGENCE

The use of Artificial Intelligence (AI) is integrated into the work-life culture at NIST University. AI is now extensively used at the University from content creation, AI chatbots, translation service, advertising, and marketing to social media branding. NIST University has private cloud infrastructure, hardware, and software tools in support of state-of-the-art laboratories for research and innovation in AI and ML. We are now working with multiple industries (e.g., Saclit - www.saclit.in) collaboratively in this area to transform innovation into commercialization/productization. The key objective is to bring innovation in various focus areas to real-life products in collaboration with various industries. The areas of focus are:

- Healthcare (Predictive healthcare)
- Industries (Manufacturing focused)

GLOBAL INNOVATION CENTERS (GICS)

As per the Odisha Gazette Notification, No 192, January 25, 2024 (issued by the Department of Science and Technology) the Biotechnology Policy of Odisha encourages the Center of Research Excellence (CRE) in Biotechnology in different regions of Odisha. Southern Odisha (specifically Gopalpur region) is the most suitable location to have CRE on Marine Biotechnology. At the guidance/suggestion from "Make in Odisha Conclave 2022", the NIST and Indian Institute of Science Education and Research (IISER - Berhampur) have applied for a research grant for the Biotech CRE at Berhampur. The same may be supported by Govt. of Odisha for the realization of the envisioned Biotech Park in the State.

Scaling up for commercial development and IPR generation requires the identification of marine organisms and a list of potential biomaterials and bioactive natural products of health, cosmetics, and commercial value. Genomic and metagenomic analysis of marine species of high value or near extinction is to create a catalogue of the marine life of Odisha. Exploration of potential methods for sustainable cultivation and extraction of the shortlisted biomaterials and bioactive natural products to produce on a higher scale for further usage and commercialization is critical.

The facilities and grant for exploration and genomic sequencing of bio-diverse species of Odisha coastal belt not only shall make Odisha's Biotech Park a reality but also attract companies to Odisha with interest in health care and cosmetic product development. In addition, it will help ocean tourism, protection of endangered species, and targeted commercial fishing activities with huge financial and employment benefits to the state of Odisha.



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान बरहमपुर
Indian Institute of Science Education and Research Berhampur
Established by the Ministry of Education, Govt. of India

निदेशक का कार्यालय / Office of the Director
कार्यालय आदेश / Office Order

संख्या/No. IISERBPR/DO/2023/05

दिनांक/Date: January 19, 2023

TO WHOM IT MAY CONCERN

This is to state that the Indian Institute of Science Education and Research (IISER) Berhampur in collaboration with the National Institute of Science and Technology (NIST), Berhampur is pleased to propose a collaborative project entitled, "Berhampur Centre for Research Excellence in Biotechnology" to be co-located at both institutions.

On behalf of the IISER Berhampur, we commit to sharing necessary infrastructure and facilities as detailed in the proposal towards the successful completion of the project. Given the ecological, social and regional significance of the project to the State of Odisha, we are pleased to be the founding partner in this endeavour.

Signature & Seal of the Head of Institute

Prof. Yogendra Sharma

भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान बरहमपुर
Director / प्रिंसिपल
INDIAN INSTITUTE OF SCIENCE
EDUCATION AND RESEARCH BERHAMPUR
Transit Campus: Govt. ITI Premises
Berhampur, Ganjam-760 010 (Odisha)

Date: January 19, 2023
Place: Berhampur, Odisha



ACADEMIC PROGRAMS

At NIST University, our academic programs foster innovation, critical thinking, and lifelong learning. Spanning undergraduate to doctoral levels across diverse disciplines, each program blends academic rigor with hands-on experience, industry relevance, and research opportunities. We aim to develop not just graduates, but responsible professionals and global citizens equipped to shape the future. The sections below offer detailed insights into our academic offerings.

SCHOOL OF ENGINEERING

B.Tech

Computer Science and Engineering
 CSE (AI & ML)
 CSE (AI & DS)
 CSE (AI & Cyber Security)
 CS + Business Systems
 CS + Business Systems (TCS Supported)
 Electronics and Communication Engineering
 Electronics and Computer Science
 Engineering
 Electrical & Electronics Engineering
 Mechanical Engineering
 Mechanical Engineering (AI & Robotics)
 Electrical Engineering
 Civil Engineering

M.Tech

Computer Science Engineering
 Electronics and Communication Engineering
 VLSI Embedded System Design
 Electrical Engineering
 Mechanical and Automation Engineering

MCA

**BCA (Cyber Security & Forensics /
 Animation & Gaming / Web Designing)**

SCHOOL OF MANAGEMENT

BBA
 BBA (Hospital Management)
 MBA
 MBA - Business Analytics
 MBA - Hospital Administration

SCHOOL OF SCIENCE

B.Sc.

Biotechnology
 Computer Science
 Computer Science (AI & ML / AI & DS /
 Cyber Security)

M.Sc.

Physics
 Chemistry
 Mathematics
 Data Science
 Biotechnology
 Cyber Security

SCHOOL OF HEALTH SCIENCE

B.Pharma

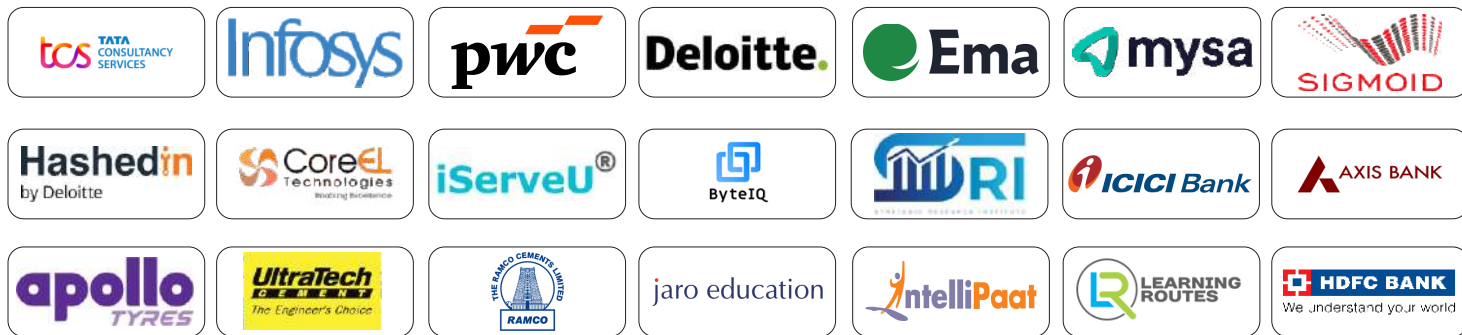
Ph. D

CAREER DEVELOPMENT AND PLACEMENT

NIST has a dedicated placement cell that not only does placements, but also help students in career planning with higher studies abroad.

- Since 2021, this year has seen the largest number of students who opted for placements - **765 from as low as 506**. This is 40% more than the figure of 546 students and largely consists of students from BTech, MCA and MBA.
- Number of companies that participated in Placement opportunities stands at 144 as on 25th Feb. By the end of the year (June 2026) it is expected to surpass the highest ever hiring company participations till date, viz. 161 in 2022. The number of companies which participated for placements in 2025 is 113.
- Over the last 6 years, YTD 2026 has already placed the most students at 299, barring the exception of 379 in 2022. **Total offers in 2026 till date stands at 409**. Only 619 offers in 2022 and 446 in 2024 have exceeded this number.
- As on date, 39% of opted-in/registered students have been placed. If we consider 60% cut-off as the eligibility criteria for placement, then 50% of students have been placed so far in YTD 2026.
- **TCS returned to campus after 11 years.**
- The percentage placement could have been significantly higher had more number of students participated in mass-hiring companies like TCS.
- **The highest salary this year was Rs. 21 LPA (Mysa).**

Companies that considered / are considering our students include:

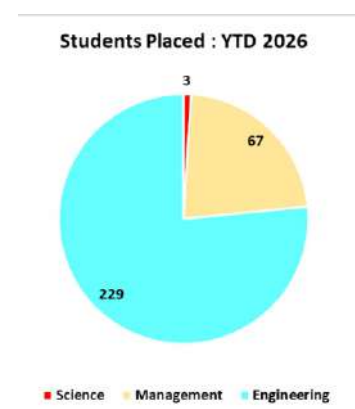
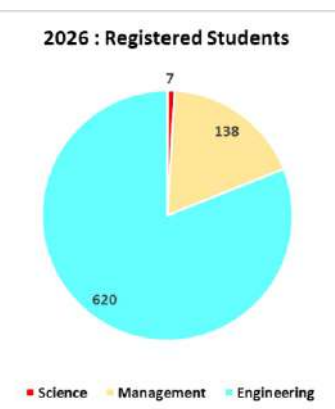
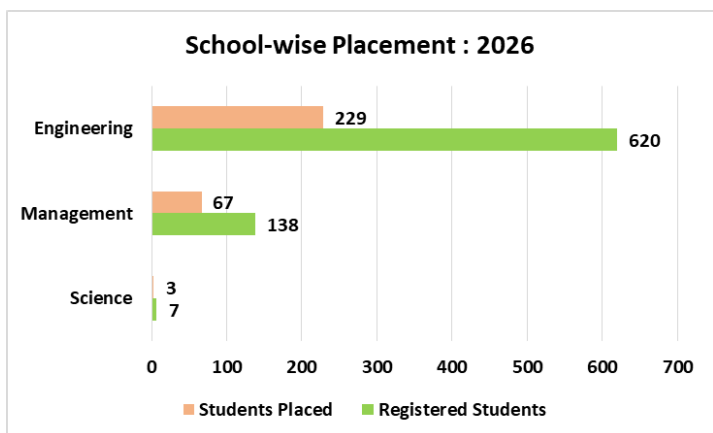
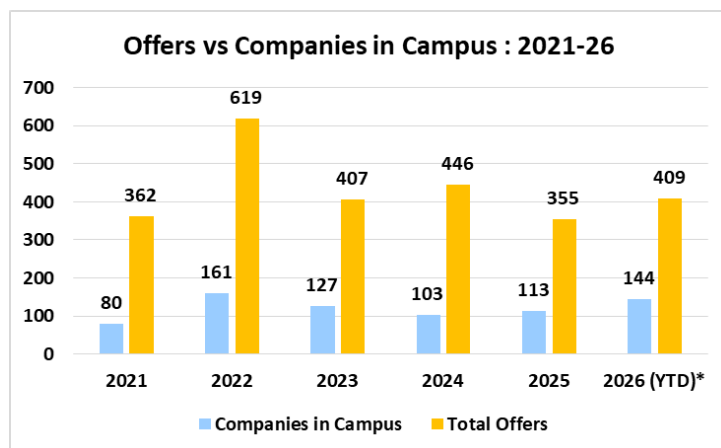
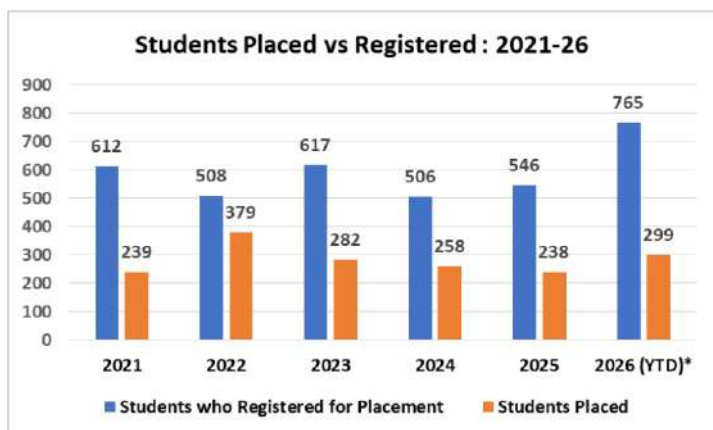


Many More...

HIGHLIGHTS IN CAREER DEVELOPMENT AND PLACEMENT FOR 2025-26

2025-26 season started with the creation of the role of Dean of Career Development, a new leadership position, with Shounak Biswas as the Founding Dean.

With more schools coming up and a much larger number of students requiring to be developed and placed, the department is going to hire two additional resources in the immediate short term and more, as required, in the medium term.



TRAINING

Aptitude and Soft Skills Training (Pre-Placement training) have been provided to the outgoing BTech and MCA batch in Apr 2025. Similar training has been provided to outgoing MBA students in Nov 2025.

We started Aptitude Training early in 2026 with both 4th and 6th semester (2028 and 2027 passing out batches) from the 1st week of Feb 2026. These consist of 30-36 hours of intensive classroom and workshop sessions with regular assessments and has academic credits attached to it.

OSDA will provide 400 hours of free SAP Training through their partners EME. This started late in April last year. This year, we are going to start it from the 1st week of Mar 2026, so that students become job-ready sooner.

Technical Training in the form of online, offline and hybrid sessions were offered to graduating BTech and MCA students in Oct and Nov 2025. These were conducted by seasoned industry professionals.

An intensive Technical and Behavioural Training Boot Camp was organized for BTech and MCA students (and only Behavioural for MBA students) between 3rd to 8th Jan 2026 with a special focus on placement-readiness for TCS and Infosys.

HIGHER STUDIES

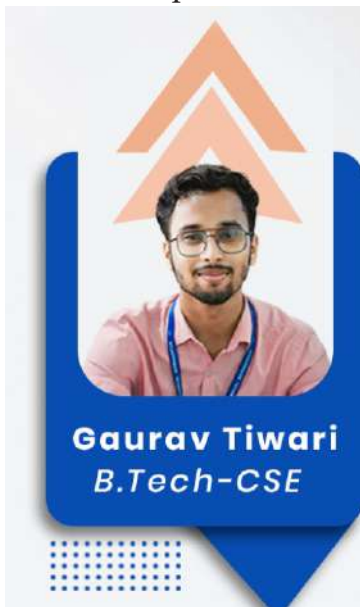
We are planning to give more focused attention towards motivating students to appear for GATE and prepare them for the same. Career Development department will play a more active and collaborative role with various HODs towards this objective and work towards a goal for better chances of success at Government or PSU jobs.

ENTREPRENEURSHIP

The Career Development Department has started proactively engaging with the Startup and Incubation cell, trying to understand and contribute in required areas of development for students who want to become Entrepreneurs or join their Family Business.

ALUMNI RELATIONS

The Career Development department has been working very closely with the Alumni Relations office and has developed good relations with alumni from the Bangalore Chapter, which has also resulted in successful placements. We intend to develop similar close relations with the Hyderabad, Bhubaneswar,



Highest Package

21 Lakhs
Per Annum

Placed in



SCHOLARSHIPS:

1. Best B. Tech Project Award

Each year best B.Tech Projects are selected under different categories like Software Development, Hardware Development, Renewable Energy etc., and awarded with a cash prize of Rs. 5000 each.

2. Gold Medal

Each year, it is the tradition of NIST to reward the toppers (of the final year), for exemplary academic performances. It is applicable to the toppers of B. Tech, MBA, MCA, M. Tech, M.Sc. and B.Sc. program.

3. Teaching Assistantship Scholarship

Each year few meritorious students are selected as Teaching Assistants to assist the faculty members in their academic work. Students receive a scholarship of Rs.1000/- per month for this work. Students from 2nd, 3rd, and 4th year are eligible for TA ship in the department where 80% seats are filled. One student shall assist evaluation for max of 50 students.

4. Industry Collaboration Honorarium

Students who will work on the funded industry collaboration project shall be awarded with an honorarium based on the agreement with the concerned organization/client/industry.

5. Research Assistantship Scholarship

Through the Research Assistantship program UG and PG students get involved with faculty members to carry out joint research work. For this each student gets a stipend of Rs.2000/- per month for 2 months.

6. M. Tech Scholarship

M. Tech scholarship/stipend is given to meritorious students taking admission to NIST. A monthly scholarship of Rs.4000 is awarded to non-GATE students under this scheme. Students with a valid GATE score will get a stipend that is set by the MHRD, Govt. of India.

7. Ph.D. Scholarship

Ph.D. scholarships/stipends are awarded to the meritorious candidates admitted to NIST. Under this programme, candidates are offered a monthly scholarship of Rs 15,000.

RESEARCH PUBLICATION:

Journal Publication

- **Dr. Abinash Dutta**, Assistant Professor, Department of Biotechnology, published a research article entitled "Immunopathology of psoriasis: A focus on Th17/Treg dynamics & their potential impact on disease recurrence" in the Journal of Solid Waste Technology and Management, Dec. 2024. Authors: R. G. Kerry, A. Ray, P.C. Panda, V. Nayak, S. Patra, R. Pandey, B. S. Mohanty, A. Dutta, G. K. Maurya, J. R. Rout, S. Nayak.
- **Dr. Sasmita Padhy and Dr. Preeti Ranjan Sahu**, Faculty, Department of Electrical and Electronics Engineering, published "MSOA-optimized FOPID controller for frequency stability of distributed power system under the influence of cyber-attacks" in the Journal of Electric Power Systems Research, Jan. 2025, p. 111736. Researchers: S. Padhy, P. R. Sahu, R. K. Khadanga, Y. Arya, S. Panda.
- **Dr. Preeti Ranjan Sahu**, Associate Professor, Department of Electrical and Electronics Engineering, published "Application of Enhanced Self-Adaptive Virtual Inertia Control for Efficient Frequency Control of Renewable Energy-Based Microgrid System Integrated with Electric Vehicles" in IEEE Access, Mar. 2025, pp. 43520-43531. Researchers: Sonalika Mishra, Preeti Ranjan Sahu, Ramesh Chandra Prusty, Sidhartha Panda, Taha Selim Ustun, Ahmet Onen.
- **Dr. Barada Prasad Sethy**, Assistant Professor, Department of civil Engineering, published "Artificial intelligence models for predicting unconfined compressive strength of mixed soil types: focusing on clay and sand" in Asian Journal of Civil Engineering, Mar. 2025, pp. 1955-1972. Authors: Barada Prasad Sethy, Umashankar Prajapati, Neelashetty K, Debendra Maharana, Nageswara Rao Lakkimsetty, Sudhanshu Maurya.

RESEARCH PUBLICATION:

Journal Publication

- **Dr. Biswajit Panda**, Assistant Professor, Departments of Physics, published "Simultaneous measurement of NO₂ and NH₃ using a quantum cascade laser coupled wavelength modulation spectrometer in the mid-IR region" in Laser Physics, May 2025, p. 055701. Authors: Indrayani Patra, Soumyadipta Chakraborty, Biswajit Panda, Manik Pradhan.
- **Prof. Padminee Samal**, Assistant Professor, Department of Civil Engineering, published "Flood analysis using HEC-RAS 1D model for the delta of Brahmani river, Odisha, India" in Natural Hazards, Jan. 2025, pp. 7941-7966. Authors: Padminee Samal, Prakash Chandra Swain, Sandeep Samantaray.
- **Prof. Md. Rizuddin**, Prof. Santosh Kumar Panda, and Prof. Achyutananda Parida, Department of Mechanical Engineering, published "Heat transfer analysis of a mild-steel based arc welding" in Materials & Metallurgical Engineering, Mar. 11, 2025, DOI: 10.37591/JOMME.v15i02.0. Authors: Md. Rizuddin, Santosh Kumar Panda, Achyutananda Parida, G. Vasudev.
- **Dr. Sasanka Sekhar Bishoyi**, Associate Professor, Department of Mathematics, published "MOPSO-driven optimization for sustainable retrofitting: balancing time, cost, and environmental impacts" in Asian Journal of Civil Engineering, Mar. 18, 2025, DOI: 10.1007/s42107-025-01305-y. Authors: Rekha Singh, Viswanadham Sangeeta, T. C. Manjunath, Prachi Singh, Sasanka Sekhar Bishoyi, Aditya Kumar Pati.
- **Dr. Trinath Sahu, Professor**, Department of Physics, published "Effect of asymmetric doping on electron transport mobility in In_{0.53}Ga_{0.47}As/In_{0.52}Al_{0.48}As wide quantum well FET structure" in Physica B: Condensed Matter, Apr. 2025, DOI: 10.1016/j.physb.2025.417207. Authors: Sangita R. Panda, Trinath Sahu.
- **Dr. Yerra Shankar Rao**, Assistant Professor, Department of Mathematics, published "Mathematical Modeling for Virus Immunization and Vaccination" in Engineered Science, Mar. 7, 2025, pp. 1-16, DOI: 10.30919/es1440. Authors: Ashish Kumar, Dinesh Kumar Saini, Yerra Shankar Rao.
- **Dr. Susanta Kumar Indrajitsingha**, Assistant Professor, Department of Mathematics has published research article "A Green Inventory Model for a Green house Firm System with Controllable Deterioration under Stock Dependent Demand" in the journal of "Process Integration and Optimisation for Sustainability". The other authors are Dr. UK Mishra and W A Jauhari.
- **Dr. Sarita Sahu, along with Ranjan kumar Padhy** published "Catalytic Role of Cu(II) on the Oxidation of Biologically Active 3-Mercapto-L-Alanine in Borate Buffer" in the Journal of Biotechnology and Applied Biochemistry (Wiley), Nov. 30, 2025, pp. 1-10, DOI: 10.1002/bab.70101.
- **Dr. Susanta Kumar Indrajitsingha**, along with Dr. L K Raju and others published "A Sustainable Circular Economy Inventory Model of Deteriorating Items with Logistic Demand Using Preservation Technology" in the Process Integration and Optimization for Sustainability, Sept. 25, 2025, pp. 1-13, DOI: 10.1007/s41660-025-00581-0.
- **Dr. Jagannath Panda**, along with co-authors, published a research article entitled "Defect-engineered activated bimetallic MOFs on laser-induced graphene for enhanced NO₂ sensing" in the Journal of Environmental Chemical Engineering. The article was published online on 27 November 2025, Volume 14, Page 12484, with an Impact Factor of 7.2. DOI: 10.1016/j.jece.2025.120484. ISSN: 2213-3437.
- **Dr. Jagannath Panda**, along with co-authors, published a research article entitled "Constructing Z-Scheme ZIF- 67/Bi₂O₃ Heterojunction: A Superior Photocatalyst for Doxycycline Degradation" in the journal Ionics. The article was published online on 03 December 2025, Volume 202, Pages 1-24, with an Impact Factor of 2.6. DOI:10.1007/s11581-025-06842-9. ISSN: 1862-0760.
- **Dr. Preeti Ranjan Sahu**, along with Sasmita Padhy and co-authors, published a research article entitled "MSOA-Optimized FOPID Controller for Frequency Stability of Distributed Power System under the Influence of Cyber-Attacks" in the journal Electric Power Systems Research. The article was published online on 01 October 2025, Volume 247, Page 111736, with an Impact Factor of 4.2. DOI: 10.1016/j.epsr.2025.111736. ISSN: 1873-2046.

RESEARCH PUBLICATION:

Journal Publication

- **Dr. Ashwini Kumar Behera**, published a research article entitled "Studies of Low Energy Proton-Deuteron Elastic Scattering Using Deng-Fan Like Interaction" in the International Journal of Theoretical Physics, Vol. 64, p. 330, published online on 20 November 2025. The journal has an Impact Factor of 1.7. DOI: 10.1007/s10773-025-06203-2. ISSN: 1572 9575.
- **Dr. Ashwini Kumar Behera**, along with co-authors published a research article entitled "All Partial Wave Solutions for Combined q Deformed Hulthen Potentials and Off Shell Scattering" in the International Journal of Geometric Methods in Modern Physics, published online on 18 October 2025. The journal has an Impact Factor of 2.2. DOI: 10.1142/S0219887826500167. ISSN: 1793 6977.
- **Dr. Duryodhan Sahu**, along with co-authors published a research article entitled "Evaluation of Shape Recovery Stress and Motion Derivatives in 4D Printed Shape Memory Polymers for Actuator Application" in the International Journal of Polymer Analysis and Characterization, published online on 08 September 2025. The journal has an Impact Factor of 1.71. DOI: 10.1080/023666X.2025.2454903. ISSN: 1023-666X.
- **Dr. Ratikanta Nayak**, published a research article entitled "Recent advances in optimized polybenzimidazole-based membranes for vanadium redox flow battery applications" in the "Journal of Energy Storage" Volume 129, Page 117372. Authors:Subhrakali Swain, Kamakshi Brahma, Ratikanta Nayak.
- **Dr. Ratikanta Nayak**, published a research article entitled " Evaluating Cost-Effective and Scalable Storage Solutions for Reducing Post-Harvest Losses in Fruits and Vegetables: A Review" in the "The Journal of Food Process Engineering" Volume 48, Issue 12, Page 70294. Authors:Parimita Tripathy, Kamakshi Brahma, Ratikanta Nayak
- **Ms Minakhi Dash**, published a research article entitled "Literature as Cultural Dialogue: Revisiting Verses, Legends and Folklore on Shree Jagannath of Puri" in the journal "Rock Pebbles" December 2025, Vol: XXIX, Issue No:IV. Authors:Dr. Minakhi Dash & Dr. Kalikinkar Pattanayak.

CONFERENCE

- **Prof. Santosh Kumar Panda**, Assistant Professor, Dept. of Mechanical Engineering, presented a paper entitled "Geometry Driven Optimization of Orifices for Multidisciplinary Engineering Applications" in the International Conference on Innovations in Thermo Fluid Engineering and Sciences (ICITFES-2025) on 8th Feb. 2025.
- **Dr. Yerra Shankar Rao**, Assistant Professor, Department of Mathematics, presented a research article entitled "Mathematical Model for the Spreading of Computer Virus and Its Stability Analysis" in the International Meet on Computational Mathematics and Applications & 52nd Annual Conference of the Odisha Mathematical Society (online), held from 11th 12th Jan. 2025.
- **Dr. Shrabani Mahata**, Associate Professor, Department of Chemistry, presented a research article entitled "pH Dependent Potent Cocktail Approach of EDTA Ligand for CdS QD's Surface Passivation: A New Insight on Effective Passivation and Enhanced Photocatalytic Activity" in the 11th International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering (AFTMME-2025) on 15th Feb. 2025. The researchers are B. Padhy, S. S. Mahato, and S. Mahata.
- **Dr. Shrabani Mahata**, Associate Professor, Department of Chemistry, presented a research article entitled "Exploring Dramatic J Aggregation of Butea Monosperma Dye on Citrus Limon Extract Capped CdS QD's Surface for Artificial Photosynthesis" in the 11th International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering (AFTMME-2025) on 15th Feb. 2025. The researchers are B. Padhy, S. S. Mahato, and S. Mahata.

- **Dr. Shrabani Mahata**, Associate Professor, Department of Chemistry, presented a research article entitled “Investigation of the Interaction Between Chlorophyll and TMA Capped CdS Quantum Dots: A Detailed Study on Chlorophyll Fluorescence Quenching” in the 5th International Conference on Current Trends in Materials Science and Engineering (CTMSE-2025) on 18th Feb. 2025. The researchers are T. Sahu, M. Suresh, S. S. Mahato, and S. Mahata.
- **Dr. Shrabani Mahata**, Associate Professor, Department of Chemistry, presented a research article entitled “Introducing Zingiber Officinale Extract as a Novel Passivating Agent for the Synthesis of CdS QD’s” in the 5th International Conference on Current Trends in Materials Science and Engineering (CTMSE-2025) on 18th Feb. 2025. The researchers are N. Deepa Rao, S. Mahato, and S. Mahata.
- **Dr. Shrabani Mahata**, Associate Professor, Department of Chemistry, presented a research article entitled “Spectroscopic Investigation of the Interaction Between β -Carotene and EDTA Capped CdS Quantum Dots” in the 5th International Conference on Current Trends in Materials Science and Engineering (CTMSE-2025) on 18th Feb. 2025. The researchers are J. Satapathy, S. S. Mahato, and S. Mahata..
- **Dr. Sabyasachi Rath**, Professor, Department of Management Studies, presented a research article entitled “The Impact of Artificial Intelligence on Marketing and Strategy Innovation in Startup Enterprises” in CEN 2025, National Conference on Economics, Bucharest, Romania, on 14th-15th May 2025.
- **Dr. Akankshya Patnaik**, Associate Professor, Department of Management Studies, presented a research article entitled “Application of Artificial Intelligence for Sustainable Human Resource Management” in the Proceedings of Data Analytics and Management on 9th July 2025.
- **Dr. Susanta Kumar Indrajitsingha**, Assistant Professor, Department of Mathematics, has presented research work on “Optimal pricing inventory model for deteriorating seasonal food products with time and selling price sensitive demand ” in the proceedings of the International Conference on Recent Development in Mathematical Research and Artificial Intelligence on 25th December 2025.
- **Dr. Susanta Kumar Indrajitsingha**, Assistant Professor, Department of Mathematics, has presented research work on “A circular economy inventory model deteriorating item using preservation technology cost” in International conference of Pure and Applied Mathematics organized by Department of mathematics, Berhampur University on 13-14Feb 2025.
- **Dr. Susanta Kumar Indrajitsingha**, Assistant Professor, Department of Mathematics, has presented research work on “A sustainable supply chain circular economy inventory model” in a “National Seminar on Partial Differential Equation: An application to optimization Technique” organized by Khallikote University on 22-23 Feb 2025.
- **Dr. Susanta Kumar Indrajitsingha**, Assistant Professor, Department of Mathematics, has presented research work on “A sustainable economic order quantity inventory model with circular indicator” in an international conference on Mathematical and OR model for sustainable VIKSIT BHARAT” organized by Parala maharaja Engineering College, Berhampur on 21-22 Feb 2025.
- **Dr. Preeti Ranjan Sahu**, along with Padarbindo Panda and Sasmita Padhy, presented a research paper entitled “An Approach for Dual Stage-Frequency Control Using Running City Game Optimizer” at the International Conference on Renewable Energy, Green Computing, and Sustainable Development (REGS-2025).
- **Dr. Preeti Ranjan Sahu**, along with Padarbindo Panda and Sasmita Padhy, presented a research paper entitled “A Novel Two-Stage Frequency Control Strategy for Microgrid Integrated Power System Using Election Optimizer Algorithm” at the International Conference on Smart & Sustainable Technology (INCSST-2025).
- **Dr. Anwesweta Panigrahi**, presented a research paper entitled “Workforce 2.0 in Bio-Medical Labs: Innovating HRM for Precision, Productivity and Progress”, at a Two-Day International Conference held at MAHE, Dubai, in collaboration with Confab 360 Degree on the theme Innovation for Impact: Digital and Mobile Technologies for Sustainable Business Management, Teaching & Learning, Environmental Protection, Healthcare, Tourism and Engineering Applications on 10th and 11th December 2025.
- **Dr. Sarita Sahu**, along with Ranjan Kumar Padhy presented a research paper entitled “Synergetic Impact of Metal Surfactant Catalyst Pair in the Oxidation of HBA: Interfacial-Surface Adsorption Kinetic View” at the ICGTEDD-2025 conference on 4th September 2025.
- **Dr. Ayesha Tasnim**, presented a research paper entitled “Re-imagining Indian Identity: A Post-colonial Reading of Kanthapura” at the National Seminar on Multi-theoretical Approaches to Ten Select Colonial and Post-Colonial Novels across the World, held on 13 April 2025.
- **Dr. Sarita Sahu**, and Ranjan kumar Padhy presented a research paper entitled “Impact of SDS and CTAB Micelle in the Bi Phasic Oxidation of DL 2 Amino 3 Hydroxybutanoic Acid” at the ICCI-2025 conference on 15th September 2025.

BOOK CHAPTER

- **Dr. Ratikanta Nayak**, Assistant Professor, Department of Physics has published book chapter “Evaluation of a novel biopolymer matrix: A sustainable biomass packing” in book “Sustainable Packaging Strengthened by Biomass” with page 375-406. The authors of this book chapter are, Kamakshi Brahma, Smita Sameekhya Mishra, Bibhuti Bhusan Sahu, Sushil Kumar Verma
- **Dr. Jagannath Panda**, along with co-authors published a technical book chapter entitled “Environmental Footprint and Green Design of Nanocomposites for Wastewater Remediation” in the book Nanocomposites for Sustainable Wastewater Treatment: Performance Evaluation and Future Perspective, published by Springer Nature. The chapter was published online on 14 Nov. 2025. DOI: 10.1007/978-981-95-1369-7_8. ISBN: 978-981-95-1369-7.
- **Dr. Duryodhan Sahu**, along with Amit Patnaik, Titrisha Kayal, Soumya Basu and Ponoop L. Kumar Patro, contributed a technical book chapter entitled “Microbial Dynamics” in the book Harnessing Microbes for Sustainable Food Systems, published by Taylor & Francis, published online on 16 December 2025. DOI: 10.1201/9781003540113. ISBN: 978103540113.

WORKSHOP ATTENDED

- **Dr. Yerra Shankar Rao**, Assistant Professor, Department of Mathematics has attended Two day workshop on Latex for Technical writing, organized by JNU New Delhi, held from 29th Apr. 2025 to 30th Apr. 2025.
- **Dr. Basant Kumar Sahu**, Associate Professor, Department of Electrical and Electronics Engineering has attended National Seminar on “Energy access and security in emerging energy transition” organised by Indian Energy Congress, Indian Institute of Technology, and NIST University Berhampur, held at IIT Bhubaneswar, from 17th to 18th March 2025.
- **Dr. Shrabani Mahata**, Assoc. Professor, Department of Chemistry, has attended Two Days workshop on Structural Analysis using Powder X ray diffraction, Rietveld Refinement, HRTEM & SAED Analysis” organized by Centre for Nanoscience and Nanotechnology, International Research Centre & Advanced Characterization Facility, Sathyabama Centre for Advanced Studies, SATHYABAMA Institute of Science and Technology, Chennai, held from February 24-25, 2025.
- **Dr. Shrabani Mahata**, Assoc. Professor, Department of Chemistry, has attended NPTEL online workshop on “Computational Chemistry Techniques” organized by Dept. of Chemistry, Ashoka University in collaboration with NPTEL Coordinator IIT , Madras., held from 18th to 19th January, 2025.
- **Dr. Abinash Dutta**, Assistant Professor, Department of Biotechnology has attended a National level virtual workshop titled as “AI tools for effective research writing and publishing” Organized by DIGI Skill Development Centre and Training Institute, during 26th April.2025 to 27th April 2025.
- **Dr. Abinash Dutta**, Assistant Professor, Department of Biotechnology has attended a National level virtual workshop titled as “Data visualization using Power BI and Tableau” Organized by Digi Skill Development Centre and Training Institute, Mumbai, India, during 30th May.2025 to 1st June 2025.
- **Dr. Abinash Dutta**, Assistant Professor, Department of Biotechnology has attended Two days National level workshop titled as “Unlocking the power of Tex Studio on scientific writing” held on 29.05.2025 to 30.05.2025 organized by Digi Skill Development Centre and Training Institute, Mumbai, India.

INVITED SESSION CHAIR

- **Dr. Basant Kumar Sahu**, Associate Professor, Department of Electrical and Electronics Engineering was invited as session chair at the “3rd IEEE International Conference on Industrial Electronics: Developments & Applications (ICIDEA 2025)”, scheduled during February 21-22, 2025, at the School of Electrical Engineering, KIIT Deemed to be University, Bhubaneswar, India.

FDP ATTENDED

- **Dr. Basant Kumar Sahu**, Associate Professor, Department of Electrical and Electronics Engineering, attended an AICTE-recognized Faculty Development Programme (ATAL FDP) on “Smart Communication in IoT: Security & Future Applications and Possibilities” conducted by the CSE Dept., St. Joseph College of Engineering, from 24th February to 1st March 2025.
- **Dr. Basant Kumar Sahu**, Associate Professor, Department of Electrical and Electronics Engineering, attended an AICTE-recognized Faculty Development Programme (ATAL FDP) on “Supercomputing (High-Performance Computing, AI, Quantum Computing)” conducted by the CSE Dept., Amrita Vishwa Vidyapeetham, Coimbatore Campus, from 17th-22nd February 2025 (One Week).

- **Dr. Sasanka Sekhar Bishoyi**, Associate Professor, Dept. of Mathematics, attended a National level virtual workshop titled “Theory and Applications of Optimization in Machine Learning” organized by VIT-AP University from 4th–8th April 2025.
- **Dr. Basant Kumar Sahu**, Associate Professor, Department of Electrical and Electronics Engineering, attended an AICTE recognized Faculty Development Programme (ATAL FDP) on “Power-Efficient VLSI Based Hardware Accelerators in High Performance Computing (HPC)” conducted by the Electrical and Electronics Engineering Dept., BITS Pilani, Hyderabad Campus, from 20th–25th January 2025 (One Week).
- **Dr. Basant Kumar Sahu**, Associate Professor, Department of Electrical and Electronics Engineering, attended an AICTE recognized Faculty Development Programme (ATAL FDP) on “Advanced Materials Processing, Characterization and Optimization Techniques” conducted by the Mechanical Engineering Dept., NIST University, Berhampur, from 6th–11th January 2025 (One Week).
- **Dr. Yerra Shankar Rao**, Assistant Professor, Department of Mathematics, attended an ATAL FDP on “Advanced Manufacturing in the Context of Industry 4.0 and Industry 5.0” organized by GIET Ghangapatana, from 17th–22nd February 2025.
- **Dr. Yerra Shankar Rao**, Assistant Professor, Department of Mathematics, attended an ATAL FDP on “Cyber Security” organized by EXCELR, from 14th–20th February 2025.
- **Dr. Shrabani Mahata**, Associate Professor, Department of Chemistry, attended an ATAL Online 6 Day Faculty Development Programme (FDP) on “Recent Advancements in Solar Photovoltaic Technology & Research Opportunities” organized by Government Polytechnic Nagpur, from 13th–18th January 2025.
- **Dr. Shrabani Mahata**, Associate Professor, Department of Chemistry, attended a One Week Online FDP on “Electric Vehicles: Advanced Charging Technologies, Solar Powered Charging Infrastructure Design & Optimization (EVS-2025)” organized by Annant Gyan Knowledge and Skills Pvt. Ltd., from 20th–25th January 2025.
- **Dr. Ayesha Tasnim**, Assistant Professor, Department of English, attended FDP at the National Seminar on Multi-theoretical Approaches to Ten Select Colonial and Post-Colonial Novels across the World.
- **Dr. Shrabani Mahata**, Associate Professor, Department of Chemistry, attended an AICTE-sponsored ATAL Online 6 Day Faculty Development Programme (FDP) on “Vacuum Technology in Semiconductor Manufacturing and Packaging” organized by the Department of Multidisciplinary Engineering (MDE), The NorthCap University, Gurugram, Delhi, from 24th February–1st March 2025.
- **Dr. Abinash Dutta**, Assistant Professor, Department of Biotechnology, attended a One Week International Faculty Development Programme titled “Research Methodology, AI Tools, and Publication Strategies” organized by GIET, Bhubaneswar, India, from 21st–26th July 2025.
- **Dr. Abinash Dutta**, Assistant Professor, Department of Biotechnology, attended a Five-Day National Faculty Development Programme titled “Smart Biomedical Processing: Leveraging IoT, Edge Computing, and ML” organized by the Electronics and ICT Academy, IIT Roorkee, India, from 12th–16th July 2025.
- **Dr. Abinash Dutta**, Assistant Professor, Department of Biotechnology, attended a Seven Day National Faculty Development Programme titled “Research Methodology with a Focus on Qualitative Data Analysis Using SPSS” organized by Digi Skill Development Centre and Training Institute, Mumbai, India, from 4th–10th June 2025.
- **Dr. Ratikanta Nayak**, Department of Physics, attended an AICTE sponsored 8-Day UHV-II Residential Faculty Development Programme (FDP) at Biju Patnaik University of Technology, Rourkela, from 3rd–10th July 2025.
- **Prof. Manoj Kumar Sahoo**, Department of Computer Science & Engineering, has attended AICTE sponsored 8 day UHV-II Residential Faculty Development Programme (FDP) at Biju Patnaik University of Technology, Rourkela, from 3rd July to 10th July 2025

FDP AND WORKSHOPS ORGANIZED

- **Dr. Basant Kumar Sahu and Dr. Aswini Kumar Nayak**, faculty members, Dept. of Electrical and Electronics Engineering, organized an AICTE sponsored Six Day Faculty Development Programme under ATAL FDP on “Manufacturing and Industry 4.0 (Robotic Applications using Artificial Intelligence)” (Theme: Manufacturing and Industry 4.0) from 9th–15th July 2025. Application ID: 1744185793. The FDP was conducted at NIST University, Institute Park, Pallur Hills, Berhampur, Odisha, India - 761008.
- **Dr. Basant Kumar Sahu and Dr. Amruta Pattnaik**, faculty members, Dept. of Electrical and Electronics Engineering, organized an AICTE sponsored Three Day Workshop under AICTE VAANI on “Manufacturing and Industry 4.0 (Robotic Applications using Artificial Intelligence)” (Theme: Manufacturing and Industry 4.0) from 18th–21st July 2025. Application ID: 2827683744, F. No. AICTE/A VAANI Scheme/2025. The workshop was conducted at NIST University, Institute Park, Pallur Hills, Berhampur, Odisha, India - 761008.

- **Dr. Akankshya Patnaik**, Dept. of MBA, and **Dr. Prajapati Naik**, Dept. of Mechanical Engineering, organized an AICTE sponsored Three Day Workshop under AICTE VAANI, F. No. AICTE/VAANI/2.0/2025-26/130/2726759507. The workshop was conducted at NIST University, Institute Park, Pallur Hills, Berhampur, Odisha, India - 761008.

INVITED TALKS

- **Dr. Abinash Dutta**, Department of Biotechnology, was invited as a resource person at the 5th ICEACBS 2025, held from 07.06.2025 to 08.06.2025, organized by Voice of Indian Concern for the Environment (VOICE), Society for Microbiology, Biochemistry, and Biotechnology (SMBB), Somnogen Canada Inc., Toronto, Canada, and All India Institute of Training and Education (AIITE), New Delhi, India.
- **Dr. Ayesha Tasnim**, Assistant Professor, Department of English, delivered a talk on “Blended Learning and Flipped Classroom: Redesigning Teaching” during the Five Day International Faculty Development Programme on “Teaching in the Age of Technology”, organized by the Department of Visual Communication, S.A. College of Arts & Science, Chennai.

WORKSHOP, SEMINAR & TALK:

SEMINAR/WEBINAR

Program	Resource Person
Invited Talk on Research and Innovation	Prof. (Dr.) Ganapati Panda, Former Deputy Director of IIT Bhubaneswar & Former Director, NIT Jamshedpur
Invited Talk on Crafting Impactful Research Proposals	Dr. Sibarama Panigrahi, Assistant Professor, Dept. of CSE, NIT Rourkela
Invited talk on Private 5G: the future of enterprise connectivity, its transformative role in industries and its impact on digital transformation.	Manan Shah, Director of Technology Sales, Celona
Expert Talk on Harnessing IoT for Smart and Sustainable Innovations	Dr. Sukant K. Mohapatra, Founder & President, NIST University
Institute Innovation Council (IIC), NIST University hosted an engaging session on “Idea to Impact”	A. Surendra Nath, CEO of Vaisali Dairy, Kukudakhandi, Odisha
Invited Talk on Advanced Materials by the Department of Physics,School of Science	Dr. Ananta Prasad Chakraverty and Dr. Rakesh Kumar Sahu
Invited talk on How Quantum Mechanics Predicts Your Destiny.”	Shri Anurag Agarwal, Founder of NewLeaf Oynamic Tech Pvt. Ltd.,
Insightful spiritual talk on “Success Senets from Sacred Wisdom	HG Manikishore Das, General Manager of ISKCON Berhampur
International Conference on Smart Computing and Communication (ICSCC-2025) (CSE Dept., NIST University in collaboration with DRIEMS University & Next Generation Research and Innovation Hub)	Faculty Members from Host Institutions and Invited Industry Experts from IT and Allied Areas
National Seminar on Energy Access & Security in Emerging Energy Transition 2025 (Jointly organized by IEC, IIT Bhubaneswar & NIST University)	Experts from Industry and Academia

WORKSHOP, SEMINAR & TALK:

WORKSHOP/FDP & MDP

WORKSHOP/FDP & MDP	Resource Person
Workshop on Network Architecture (Dept. of Electronics & Communication Engineering, NIST University)	Dr. Sukant K. Mohapatra, Founder & President, NIST University
Three-Day FDP on Next Generation Networks & Digital Cryptography (ECE Dept. in collaboration with BSNL India)	Experts from BSNL Training Center, Visakhapatnam
AICTE Sponsored ATAL FDP on Manufacturing & Industry 4.0: Robotics Applications using Artificial Intelligence (Dept. of Electrical & Electronics Engineering)	Experts from Industry and Academia
Workshop on Industry 4.0 and Smart Manufacturing: Robotic Applications using AI (Dept. of Electrical Engineering, under AICTE VAANI Initiative)	Dr. Kanungo Barada Mohanty (Professor, NIT Rourkela), Shri Balaram Behera (DGM, Rail Services, Paradip Port Trust), and other Experts
Two-Day Workshop on Story of Innovation (NIST University)	Distinguished Prof. Viswas Chauhan



ACADEMICS COLLABORATION



Research Collaboration with Academia Sinica, Taiwan



Brunel University London, UK



Indian Institute of Technology, Kanpur



Myongji University, Seoul, South Korea



Research collaboration with National Taiwan University, Taiwan



New Jersey Institute of Technology, NJ, USA



Stanford University, CA, USA



University of California at Riverside, CA, USA



Signed MoU with University of Electro-Communication, Japan

ACADEMIC COLLABORATION (LOCAL):



SBRG (Auto./Jr.) Women's College
Sashi Bhushan Rath Govt. Autonomous/Junior Women's College
Berhampur, Ganjam-760001
(NAAC Accredited B++)



ବରଭାଙ୍ଗା ବିଜ୍ଞାନ ମହାବିଦ୍ୟାଳୟ, ଛତ୍ରପୁର, ଗଞ୍ଜାମ, ଓଡ଼ିଶା
Government Science College, Chatrapur, Ganjam, Odisha



Ganjam College
Ganjam



BERHAMPUR CITY COLLEGE
BERHAMPUR

NEW PHD AWARDED

Dr. Pradeep K. Jena was awarded with PhD from Berhampur University for his research on "Image Pattern Analysis Using Machine Learning."

Dr. Charulata Palai was awarded with PhD in March 2025 from Biju Patnaik University of Technology (BPUT), Rourkela, Odisha for her research on "Image Pattern Analysis Using Hybrid Feature Descriptors for Content Based Image Retrieval."

Dr. Swadhin Mishra was awarded with PhD in December 2025 from VSSUT, Burla for his research on "Bioinspired Computing-based Spectral Efficiency Enhancement and Complexity Reduction in Next Generation Wireless Systems."

Dr. Harikrushna Gantayat was awarded with PhD from Biju Patnaik University of Technology (BPUT), Rourkela, Odisha for his research on "Development of Robust and Efficient Direction of Arrival Estimation Algorithm in Multipath/Impulsive Noise Wireless Environment."

Dr. Sarita Sahu was awarded with PhD in June 2025 from Centurion University of Technology and Management, Odisha for her research on "Oxidation of Organic Molecules by Metal Ions in Micro Heterogeneous Medium."

Dr. Padmaja Mishra was awarded with PhD in December 2025 from C.V. Raman Global University, Bhubaneswar, Odisha for her research on "Delay Analysis of an IoT-Enabled Network Employing Different Network Control Methodologies."

Dr. Bhabani Shankar Gouda was awarded with PhD from Biju Patnaik University of Technology (BPUT), Rourkela, Odisha.

Dr. Aashhis Mohanty was awarded with PhD in September 2025 from the University of Science and Technology, Meghalaya for his research on "Student Perception Towards Higher Education: A Study of Select Private North Eastern Universities of India."

Dr. Santosh Kar was awarded with PhD from CMJ University.

Dr. Anwesweta Panigrahi was awarded with PhD in April 2025 from KIIT School of Economics and Commerce (KSEC), KIIT University, Bhubaneswar for her research on "Analyzing the Link Between Employee Engagement, Organizational Citizenship Behaviour and Life Satisfaction."

STUDENTS ACHIEVEMENTS:

Team MetaAchievers secured the 2nd Runners Up position at the Infosys Global Hackathon 2025 with their groundbreaking project SkillBridge, an AI and AR/VR powered skill development platform

Mr. Subhasish Das, a third year B.Tech student from the ECE branch, secured a fully funded summer research internship at the Department of Physics, National Taiwan Normal University (NTNU).

Ms. Subhrakali Swain, a 2nd-year M.Sc. student's Article "Recent Advances in Optimized Polybenzimidazole Based Membranes for Vanadium Redox Flow Battery Applications" got published in the prestigious Journal of Energy Storage (Vol. 129, Page, 117372, Impact Factor: 8.9).

Ms. Smita Sameekshya Mishra (M.Sc Physics, 2nd year) and Mr. Bibhuti Bhusan Sahu (B.Tech, CST, 3rd year) from the Novel Material Research Laboratory, Department of Physics, published their first book chapter titled "Evaluation of Novel Biopolymer Matrix: A Sustainable Biomass packing." The chapter has been featured in Elsevier's renowned publication, Sustainable Packing Strengthened by Biomass,

Aayushman Bhava Padhy, a fourth-year CSE undergraduate at NIST University, presented his research titled "A Secure Job Application Verification System using OpenID4VC, OpenID4VP, and Blockchain" at the 19th International Conference on Complex, Intelligent, and Software Intensive Systems (CISIS-2025).

Suryakanta Mahanta, Sujata Kumari, Shreya Kumari, and Bikash Bisoyi for their achievements at the T\$0 Gen AI Hackathon organized by JAZZEE Technologies at IIT Bhubaneswar from July 3-5, 2025. The team received the Certificate of Excellence, the People's Choice Award, and the Finalist Award in recognition of their innovation, problem-solving skills, and dedication.

NIST University NCC Cadet Captain A Pratik Kumar successfully represented India at the prestigious Overseas Deployment Camp.

Ms Aditi Padhi became a finalist on Sa Re Ga Ma Pa Ustadnka Ustad aired on ZEE Sarthak.

Abhisekh Padhy, Amisha Sukla, Aswi Rani Sahu, Bidya Sahu, Rajkumari Padhi, and Subhashree Sahu got selected for the Indian National Science Academy (INSA) Summer Research Internship 2025.

Team Augmentors Creators comprising Dr. Santosh Kumar Kar (Mentor), Suryakanta Mahanta (Team Lead), Shreya Kumari, Bikash Bisoyi, Sujata Kumari, Biraja Nayak, and Saurav Krishna. from BTech 3rd Year won the Smart India Hackathon 2025 (Software Edition).

Ms. Bidya Sahu, BTech CSE 4th year, got selected for the prestigious ACM-W Scholarship to attend the 27th International Conference on Distributed Computing and Networking (ICDCN 2026) in Nara, Japan, from January 6-9, 2026

Ms. Deepti Manjari Nayak, BTech CSE (4th Year), secured a fully funded Summer Research Internship at the Department of Electro-Optical Engineering, National Taiwan Normal University, Taiwan, from July to September 2025. She earned this prestigious opportunity through the Taiwan Experience Education Program (TEEP), supported by the Ministry of Education, Taiwan.

Team MargDarshak comprising of Subham Kumar Sahu (Team Leader), Manab Behera, Suvam Mishra, Sodi Surya Rao, and Akanksha Rani securing 1st Prize at the OCIT SUMMIT CubeX Ideathon held at KIIT University.

CLUBS AND PROGRAMS AT NIST



NIST INTEGRATED CLUB COUNCIL

Uniting Diverse Passions: Introducing the NIST Integrated Club Council.



THE MEDIAMOVERS

"Create. Connect. Collaborate"

The MediaMovers is a vibrant and inclusive student society, launched by the NIST PR Cell exclusively for NISTians. Our mission is to build a strong community focused on learning, networking, and personal growth through social media. The society provides a platform for students to enhance their digital presence, develop creative content, and engage with a wider audience. Through interactive sessions and collaborations, MediaMovers empowers students to showcase their talents and stay ahead in the evolving digital landscape.



NATIONAL CADET CORPS (NCC)

The National Cadets Corps came into existence under the National Cadet Corps Act XXXI of 1948. The NCC aims at developing comradeship, discipline, a secular outlook, the spirit



of adventure and ideals of selfless service amongst young citizens. NIST NCC unit was started its journey in 2021. It is functioning under 1(0) Naval Unit NCC, which comes under group head quarter Berhampur with strength of 70 cadets.



ELECTRONICS HOBBY CLUB

"Innovate to Implement"

EHC has been the platform for those who have ventured to go beyond the conventional theory in the field of electronics. Be it the Hardware competition in 'Sankalp' or the celebration of 'Electronics Month' or the performance in 'Tech fests' across India, EHC has always carried the tag of success.



ASTRONOMY CLUB

"Gazing Beyond the Limits..."

The NIST Astronomy club aims to create interest amongst the students to observe the sky through telescope and popularize astronomy among them. The club wants to establish a planetarium inside the campus in future to motivate the students to gaze beyond the limits.



CLUBS AND PROGRAMS AT NIST



CLUB INNOVA

"Dare to Dream, strive to excel"

Doing something different has been the desire of great minds. Desire needs to be tailored and guided by a proper counsellor to produce a constructive outcome. In order to



understand the term "INNOVATION" and resurrect every mind with the essence of innovation, the Club Innova was pioneered at NIST. The Club Innova have attracted the freshers the most as it is a multi-genres club and they make art & craft, content and poetry writing, guitar performance, singing, and fun game event like electric quiz board which attracts all the freshers towards the club. This club welcomes students from all genres which makes this club one of the favourites among all others. This is also known as the 1st club in NIST.



CLUB EXCEL

"Lets go and excel in the field of programming for creating efficient and innovative solutions o the real world problems"

Club Excel enhances the creativity of the students and acquaints them with the current industry and real world problems. Innovative thinking is the only factor that decides



one's survival in the corporate life. CLUB EXCEL organizes mega programming events in each semester. No wonder its members bagged 7 awards in Top 10 in Wipro's "Code Zap Guru" contest, 2010.



CAT CLUB

"Let's bell the cat"

The CAT Club helps club members and all the students in placement activities. It provides test series for cracking competitive exams such as CAT (Common



Admission Test), organises events such as Grand Master, an inter college chess tournament and analytical events such as Devil's Advocate and Senator. It gives students an opportunity to nurture their talent and reach the zenith of success. CAT club of NIST conducted the mega event of the club, The Grand Master 2.0. Many colleges of Odisha participated in this Inter College Chess Tournament to win the title of the Grand Master. The event was a huge success.



EUREKA CLUB

"EUREKA: Rediscover Yourself"

With a quest for literary brilliance, EUREKA organizes inter-school and inter-college literary competitions every year. Apart from this, the club also performs skits and plays in



English, and offers students Business English Certificate (BEC) courses in collaboration with British Council.



ART AND DRAMATIC CLUB

"Creation from Recreation..."

NIST AD Club promotes events where students hone their real time management skills and accelerate their personality growth in true terms. It takes up socio-cultural problems as



events and exposes the members to the other side of civil society. If filmmaking and coining slogans excite you then this club is definitely for you.



CLOUD COMPUTING CLUB

The NIST Cloud Computing Club is a vibrant, student-driven platform designed to immerse learners in the fast-evolving world of cloud technology. The club fosters a culture of



collaboration, innovation, and continuous learning, enabling members to explore cloud infrastructure, services, and real-world solutions to contemporary challenges. Whether you're a beginner or an experienced developer, the club offers hands-on opportunities to advance your skills in cloud architecture, data management, and distributed computing. With guidance from expert mentors and access to state-of-the-art cloud platforms, students can experiment, innovate, and build scalable, cloud-native applications. The club regularly organizes workshops, hackathons, and certification drives to enhance practical learning and industry readiness. It actively collaborates with industry partners and cloud service providers to offer real-world exposure and internship pathways. Members graduate with a solid foundation in cloud computing—ready to tackle the demands of tomorrow's tech landscape.

CLUBS AND PROGRAMS AT NIST



NIST MUSICAL SOCIETY

"Culture is the widening of the mind and of the spirit"

In the whispers of the wind or the swirl of the ripples, the rhythm of the river or the chorus of the birds, music is everywhere. Music is cherished without inhibitions or prohibitions. It is the universal language which knows no boundaries yet has the strength to cleanse the malaise of any soul. It can bring a whole new meaning to this journey called life. This is what NMS dreams to achieve. Its first album "Phoenix" was a super hit.



MULTIMEDIA CLUB

"So, what are you waiting for? Grab the opportunity... Welcome to the clan of MULTIMEDIA DESIGNERS"

The multimedia club of NIST invites students of all disciplines to be part of their multimedia club. They learn from their mistake and always tries to create something new. They provide the platform to exploit one's creative instincts. It is said that "the liberty to make mistakes provides the best environment for creativity". The club guides new members from scratch, also they tutor the freshers and facilitating them to reach the zenith of their creativity.



ROBOTICS CLUB

"Integration of Innovation and Intelligence"

NIST Robotics Club (NRC) aims at energizing young engineering minds towards the next era of technological evolution. It is a multidisciplinary club incorporating Computer Science, Electronics, Electrical, and Mechanical Engineering. NRC is a known face in Robotics in India and has won many national and state level accolades truly standing to its mission integrating innovation and intelligence.



CIVENG'S CLUB

"You see the world, The way we built.."

NIST CIVENG'S CLUB, a club from the Department of Civil Engineering, aims to encourage the development of a professional consciousness, provide an opportunity for the students to become acquainted with effective team skills and promote a spirit of congeniality among them. Every year, the club conducts fun and strategic events like:



PHOTOGRAPHY CLUB

Foto Folks is a club of like-minded NIST students and faculty members who say it better through pictures. A group of amateurs, they sacrifice their moments to make the others' memorable. The club is an integral part of every event held in the campus. It's tough to spot them, nobody knows where they are lurking; they shot with the precision of a hitman and present NISTians the most candid moments. Besides, they take part in photo exhibitions and competitions. They have often been felicitated for their passion and creativity.



DEFECTOGRAPHY: This event is nothing but a presentation of photographs clicked by the participants which shows the damaged structure or things which can be cured by applying the engineering knowledge.

JENGA: A game where players take turns to remove wooden blocks from a stack formed brickwise, the loser being the player whose actions cause the tower to fall. Once the tower is built, the person who built the tower gets the first move.

SETUBANDHAN: This is the major events that this club conducted both sankalp. It the most participated - event in the history of two year of all competition conducted in sankalp by the virtue of number of participants.

REKHACHITRA: This event is generally conducted during Sankalp. It is a major event, & as the name says it's an Auto CAD 3D model drawing competition. The one who draws the most complicated model using the largest number of different commands of the application, is declared as the winner.



CLUBS AND PROGRAMS AT NIST



TEAM NSS

"Not Me But You"

National Service Scheme (NSS) was launched in Gandhi Ji's Centenary year, 1969. It is a government-sponsored public service program under the Ministry of Youth Affairs and Sports of the Government of India.



NIST Renewable Energy Club

"Innovation heals the future"

The Renewable Energy Club was established in 2007 in collaboration with OREDA (Odisha Renewable Energy Development Agency), a Government of India



undertaking, with the motto of spreading awareness about nature and its resources. It works towards making the world a healthier, cleaner, and better place to live in.

CLUBS AND PROGRAMS AT NIST

DATE/DETAILS	CLUBS	ACTIVITIES
February 6, 2025 April 26, 2025	Club NMS	Performed at Berhampur Mahotsav 2025 Acoustic Jamming Event
Showcased participants' talents March 8, 2025	NIST Fashion and Cultural Club (NFCC)	Poster Making Competition Debate Competition
February 6, 2025	NIST Dance Club (NDC)	Performed at Brahmapur Mahotsav 2025 Solo Showcase at AIIMS Charisma Fest
February 18, 2025 (80+ participants) April 19, 2025 (30+ participants, guest artist session)	Art & Dramatic Club (ADC)	"The Cabaret" (Performance Arts Event) "Art O Rama"
January 17-24, 2025 February 24-28, 2025	NCC	Trekking Camp at Nabarangpur Parasailing at Jeypore
August 19, 2025	Fotofolks Club	World Photography Day was celebrated

FLAGSHIP EVENTS

DATE/DETAILS	Major Events
Jan 20-21, 2025	28th NIST Foundation Day was celebrated
Feb 10-15, 2025	KURUKSHETRA - The Inter College Annual Sports Meet was organised
Feb 28-Mar 01, 2025	SANKALP 2K25, the flagship event of NIST University, was celebrated
May 19, 2025	First Convocation of NIST University was held
June 29 - July 2, 2025	NIST University hosted the 65th Odisha State Junior Basketball Championship
October 18, 2025	IEEE Day was celebrated
December 19, 2025	Second Convocation of NIST University was held

FLAGSHIP EVENTS

DATE/DETAILS	Major Events
Nov 06-07, 2025	SANKALP 2K25-26, the flagship event of NIST University, was celebrated
Feb 28, 2025	National Science Day Celebrated
Nov 09, 2025	Alumni meet in Bangalore

NEWLY JOINED FACULTIES & STAFF

Name	DOJ	Position	Qualification
Purna Chandra Biswal	Mar, 2025	Professor Emeritus	PhD
Sanjit Kumar Acharya	Mar, 2025	Assistant Professor	PhD
Pujarani Gouda	Apr, 2025	Lab Supervisor	Msc
Chandrani Ray Choudhury	Apr, 2025	Asst. Professor CSE	PhD
Swetaleena Panda	Apr, 2025	Visiting faculty	Mtech
Pasupureddy Deepika	May, 2025	Asst.Admission	Btech
Bineeta Panigrahi	May, 2025	Asst.Admission	BA
Soumya Ranjan Mohapatra	May, 2025	Assistant Professor CSE	Mtech
Ajay Kumar Kedia	May, 2025	Director IT	ICWAI (Inter)
Debendra Maharana	May, 2025	Assistant Professor CSE	Mtech
Aashhis Mohanty	May, 2025	Dean of Admission	MBA
Vishwas Chavan	May, 2025	Distinguished Professor	PhD
Jagannath Panda	Jun, 2025	Assistant Professor	PhD
Subham Kumar Sahu	Jun, 2025	Programmer	Btech
Mahasweta Majhi	Jun, 2025	Asst.Admission	BSc
Madhusudan Mishra	Jun, 2025	Asst. Professor ECE	PhD
Sobhana Behera	Jun, 2025	Assistant Professor CSE	Mtech
N. Tayaad Kumar Reddy	Jun, 2025	Assistant Professor CSE	Mtech
SHUBHASRI PRADHAN	Jun, 2025	Assistant Professor CSE	Mtech
Shounak Biswas	Jul, 2025	Dean of Career Development	MBA
Niranjan Behera	Jul, 2025	Care Taker	matric
Preeti Priya	Jul, 2025	Research Associate	MCA
Priyanka Patro	Jul, 2025	Lab Supervisor	MCA
Sumita Acharya	Jul, 2025	Lab Supervisor	MCA
Pranaya Kumar Rath	Jul, 2025	Maintainance Engineer	
Sainik Bibhutiray	Aug, 2025	Finance Officer	CA
Kotha Domburudhara Rao	Sept, 2025	PA to President	Graduate
Sarswati Kumari Singh	Sept, 2025	Admission Representative	MBA
Subaneswar Charan Behera	Oct, 2025	Lab Supervisor ECE	Mtech
Kishan Kumar Maharana	Oct, 2025	Civil Engineer	Btech
Rupak Kumar Swain	Nov, 2025	Assistant Professor Pharmacy	M.Pharma
Debashish Ghose	Nov, 2025	Associate Professor Pharmacy	PhD
Alekha Chandra Patro	Nov, 2025	Canteen Staff	matric
Susanta Nayak	Nov, 2025	Canteen Staff	matric
Arta Bandhu Sahoo	Nov, 2025	Canteen Staff	matric

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NIST UNIVERSITY



SCAN ME



2025
ANNUAL
REPORT

Officially documenting the **life** of current students at campus
and reviving the campus **memories** for alumni.