

nist CHRONICLE

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शिक्षा मंत्रालय
MINISTRY OF
EDUCATION

NEP -2020
A Vision for Inclusive and
Holistic Learning



www.nist.edu

NIST University

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The Odisha Gazette

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LAW DEPARTMENT

NOTIFICATION

The 20th January, 2024

No.966—I-Legis-52/2023/L.— The following Act of the Odisha Legislative Assembly having been assented to by the Governor on the 15th January, 2024 is hereby published for general information.

ODISHA ACT 1 OF 2024

THE NIST UNIVERSITY, ODISHA ACT, 2023

AN

ACT

FOR CONVERTING THE NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY, BERHAMPUR AS A SELF-FINANCED, PRIVATE UNITARY AND NON-AFFILIATING UNIVERSITY IN THE STATE IN THE NAME OF NIST UNIVERSITY, ODISHA FOR PROVIDING HIGH QUALITY EDUCATION AND FOR MATTERS CONNECTED THEREWITH OR INCIDENTAL THERETO.

CHAPTER I

PRELIMINARY

BE it enacted by the Legislature of the State in the seventy-fourth Year of the Republic of India as follows:

Short title and commencement.

(1) This Act may be called the NIST (National Institute of Science & Technology) University, Odisha Act, 2023.

**Now NIST became
NIST UNIVERSITY**

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MESSAGE FROM THE PRESIDENT

I appreciate NIST Chronicle team members' diligence and dedication for publishing the e-News with latest happening at NIST and focusing on key articles relevant to education, technology, time and society. It is indeed a great pleasure to know that, this particular issue of NIST Chronicle is focused on the featured article "National Education Policy (NEP) 2020". This article is very timely, as there is mass movement across the education community to implement NEP 2020 policy.

The National Education Policy (NEP 2020) was drafted under chairmanship of Dr. K. Kasturirangan and the Union Cabinet approved the proposal on 29th July 2020. It introduces several key and transformative changes that aim to revolutionize the Indian education system. It aims to address many growing developmental imperatives of our country. The NEP 2020 covers many diverse aspects of our education system starting from elementary school to higher education. Some of the key considerations are: expansion of the age of compulsory schooling, use of the mother tongue as the medium of instruction, ensuring that every student attains foundational literacy, development of the social, physical, intellectual, emotional, and moral capacities of students, reduction of curricular content to enhance critical thinking, focus on experiential learning, promotion of Indian languages through regular use, preparation of pedagogical materials, and training of teachers, and greater institutional autonomy and decentralization of decision-making in higher education.

Foundational changes like no rigid separation between academic streams will ensure inter-disciplinary learning and student can easily follow their passion and area of interest.

Nurturing child potential with ethical mooring and values is very critical, as the education is about building human soul with values rather than providing transcripts and certificates. The policy highlights the need for increased public investment in education and recommends the allocation of 6% of India's GDP to education. The choice-based credit system (CBCS) will instill innovation and flexibility. NEP 2020 recognizes the role of technology in enhancing the teaching-learning process.

It promotes the integration of technology in education through the establishment of digital infrastructure, the development of digital content, and the utilization of online platforms for learning and assessment. The policy is designed to create a learner-centric, inclusive, and future-ready education system.

By embracing the NEP 2020, India is poised to provide quality education that equips students with the necessary skills, knowledge, and competencies to thrive in the 21st century. However, any policy's effectiveness depends on its implementation. The implementation of NEP 2020 will certainly bring profound and qualitative changes for our educational system.

I congratulate the entire editorial team for their hard work, diligence and dedication for bringing out this wonderful edition of NIST Chronicle.



Sukant K. Mohapatra

Dr. Sukant K. Mohapatra



MESSAGE FROM THE VICE CHANCELLOR

As the Vice Chancellor of NIST University, I am honored to write this message for the "NIST Chronicles" featuring the theme of "NEP 2020: Implementation and Implications." Firstly, I like to thank the entire team for putting together yet another electrifying edition. Secondly, I observe that the aforementioned theme is particularly significant for our institution as a young university, as we have been at the forefront of implementing the National Education Policy 2020, striving to create a progressive, flexible, and inclusive educational experience that equips students with the skills to thrive in a rapidly evolving world while maintaining academic rigor and holistic growth.

NIST University was founded with the vision of creating a world-class institution that is committed to academic excellence, research innovation, and lifelong learning. Our Institutional Development Plan (IDP) is being meticulously crafted to ensure that we not only meet but exceed the expectations of NEP 2020. We are dedicated to fostering a holistic environment that nurtures student growth, faculty development, and institutional advancement while providing greater access and quality education to our region and state. At the heart of our IDP lies a strong emphasis on governance, financial sustainability, academic excellence, research innovation, and social impact. We recognize that effective governance is essential for ensuring transparency, accountability, and stakeholder engagement. Our leadership bodies, including the Board of Governors, Academic Council, and Board of Advisors, are committed to fostering a culture of excellence and innovation.

Academic excellence is our unwavering pursuit. We are committed to developing a curriculum that is relevant, rigorous, and aligned with the latest industry trends while providing ample disciplinary flexibility. Our faculty members are highly qualified and dedicated to providing a stimulating learning environment with a

We are also investing in state-of-the-art infrastructure and technology to enhance the student experience.

Research innovation is another area of focus for NIST University. We are committed to fostering a culture of research excellence through mechanisms such as our Global Innovation Centers and supporting our faculty members in their research endeavors. We are also investing in research infrastructure and collaborating with industry partners to ensure that our research has a real-world impact and brings prosperity to our region.

Financial sustainability is another key pillar. We are exploring diverse revenue streams, including tuition fees, government grants, research project overheads, endowments, translational innovation, and partnerships. By diversifying our sources of income and supporting translational research, we aim to create a sustainable financial foundation that will enable us to invest in our students, faculty, and infrastructure.

One of the significant challenges we face in implementing NEP 2020 is the rapid pace of technological advancements. The educational landscape is evolving at a breakneck speed, and it's critical to stay updated with the latest trends and technologies. To address this challenge, we are investing substantially in digital infrastructure, promoting online learning, and encouraging faculty and students to adopt innovative teaching and learning methods.

As we continue to navigate the challenges and opportunities presented by NEP 2020, we remain steadfast in our commitment to creating a best-of-class institution that is at the forefront of higher education. We believe that by working together, we can build a brighter future for NIST University and higher education in India. I invite you to join us on this journey as we strive to create a leading institution that is committed to excellence, innovation, and social impact.

Prof. Priyadarsan Patra

COMPETITION

SUCCESS

IMPROVEMENT

WISDOM

SCHOOL

EDUCATION

WISDOM

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EXPERIENCE

LEARNING

STRATEGY

MENT

EMPLOYMENT



MESSAGE FROM THE ADVISOR

As the whole society is experiencing a notable shift from the industrial age to the information age, an urgent need for a mindset change in education has been frequently discussed during the past decades.

The NEP 2020 is an initiative in the same direction that ushers in significant reforms, especially within higher education institutions (HEIs).

It is very apt and relevant that we must recognize the significance of the formative years in shaping the life of an individual. The strict division between Arts, Science and commerce is broken in the NEP marking a departure from the silos mentality towards education

Classroom learning of pure theory can hardly help the students in confronting the real life work challenges, unless they are skilled in the profession. The curriculum that encourages rote learning with no orientation on skill building is detrimental to the society. The NEP's focus on the confluence of

dynamic for learning and development. As the world is moving towards a digital transformation, it is natural that our education must bridge the digital divide in the society. If technology is a force-multiplier, with unequal access it can also expand the gap between the haves and have not's. Thus, the educational institutions and other stakeholders need to address the striking disparities in access to digital tools for universalization of education.

The current issue of NIST Chronicle discusses the various ramification of the NEP and nevertheless it advocates for a balanced regulatory approach for both public and private entities.

The new National Education Policy (NEP) 2020, is a good policy as it aims at making the education system holistic, flexible, multidisciplinary, aligned to the needs of the 21st century and the 2030 Sustainable Development Goals. The intent of policy seems to be ideal in many ways but it is the implementation where lies the key to success.

Dr. Sabyasachi Rath



LETTER FROM EDITOR

National Education Policy 2020

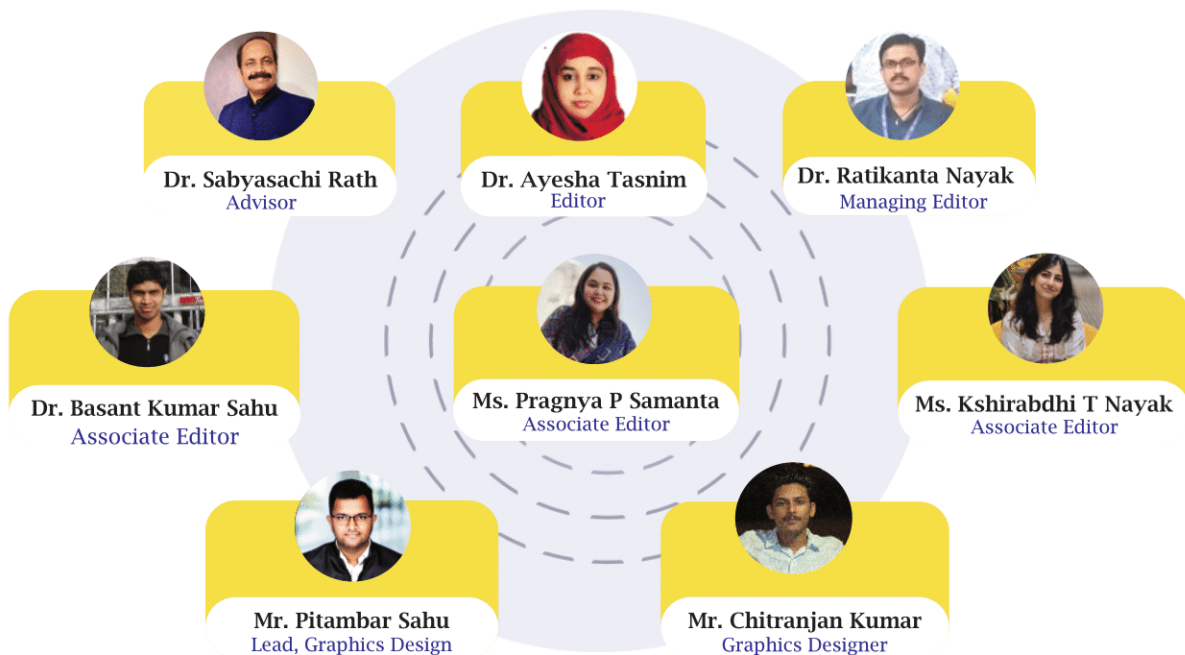
In the words of the Albert Einstein, "Education is not the learning of facts, but the training of the mind to think." NEP 2020 also aims and focuses at imparting skill based knowledge and nurturing critical thinking rather than just transmitting knowledge to the 'youngistans.' With an intention of the overall growth of students' right from their elementary years, the New Education Policy emphasizes on Social, Cognitive, Creative and Emotional development of the students. It proposes a multidisciplinary teaching approach in order to foster the creative and critical minds of the future citizens. Such teaching-learning approach will help the future generation by providing a quality based education. The crucial changes proposed by the NEP 2020 in the age-old Indian Education structure aims to transform Indian education system and make it one of the best in the world.

Some key changes to be implemented in the current education policy are introducing activity based learning in the initial years of education, flexible examination pattern, vocational education and first hand training to the students to fill the gap between education and employability. In short students are prepared to face the problems of life boldly and shine like a star wherever they go. To enhance teaching quality, teacher training and professional development programs are essential for equipping educators with the latest educational tools to deliver quality, learner-centric education. NEP 2020 also re structured the Higher Education system by promoting qualitative research and innovation training, incorporating credit-based system, flexible undergraduate and postgraduate programs into the curriculum.

"Intelligence is the ability to adapt to change", said the veteran scientist and writer Stephen Hawkins. Digitalization, exploration and innovation are the need of the hour and the implementation of NEP 2020 will definitely transform the Indian Education System to the next level. At the same time in order to embrace the changes we have to first encounter the challenges in the implementation of the new policies of education successfully. Some of the crucial obstacles are financial constrains, inadequate teaching and learning tools, outdated hardware systems, fragmented legacy-based software systems, limited technological interrogation and digital literacy among teachers and most important reluctance to change.

To overcome these hurdles we can rely on comprehensive digital platforms like Camp X. With modern platforms, advanced technologies, and dedicated efforts, the Indian education system can be transformed. NEP 2020 promises to build a learner-focused environment. After all, 'Where there is a will, there is a way.'

BOARD OF EDITORS



FEATURE STORY

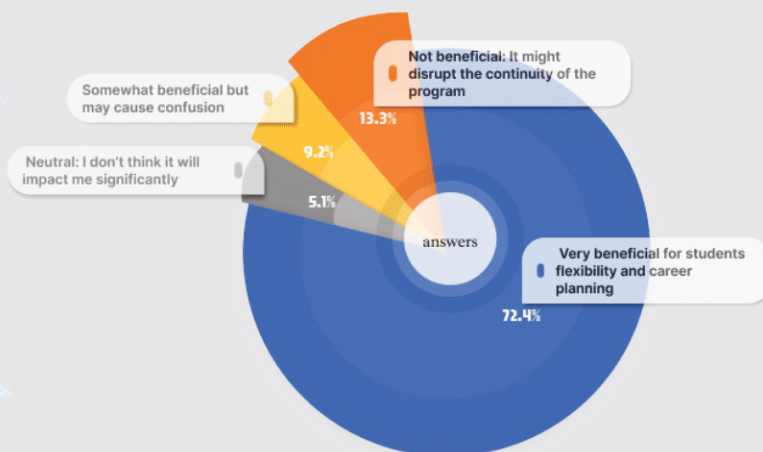
Traditional Wisdom With Modern Methodologies, NEP 2020

The ancient Indian education system was a holistic blend of knowledge, spirituality, and practical skills. Centers like Nalanda and Takshashila emphasized critical thinking and multidisciplinary learning, fostering creativity and inclusivity. Rooted in the gurukul tradition, students gained intellectual and moral growth through close mentorship. British colonial policies dismantled this system, prioritizing rote learning and clerical training through English-medium instruction, sidelining India's rich educational heritage.

The National Education Policy (NEP) 2020 seeks to revive this ethos, focusing on ethics, regional languages, and research while integrating modern methodologies to create thinkers and innovators, bridging ancient wisdom with contemporary needs. One of its most transformative aspects is the multiple entry-exit system, designed to accommodate diverse student needs and life circumstances. This system not only safeguards the academic journey against unforeseen disruptions but also ensures that learning remains a lifelong, adaptable process.

STUDENT SURVEY

How do you perceive the introduction of multiple entry and exit points in the program?



The survey received an overwhelming response, with students sharing diverse perspectives on this innovative approach. While many appreciated the system's adaptability, enabling them to balance the academics with personal or professional commitments, others raised concerns about its implementation and long-term outcomes.

Consider a scenario where a student named Rahul enrolls in a B.Tech program. After completing his first year, he receives a job offer that requires him to start immediately. Rather than dropping out without any qualification, Rahul can exit the program with a Certificate in Engineering, which he can present to his employer. A year later, Rahul decides to resume his education. Utilizing the "multiple entry" option, he re-enrolls in the program, continues from where he left off, and completes another year to earn a Diploma in Engineering. After completing three years, Rahul earns an Advanced Diploma in Engineering. Following this, he works for a while and gains more experience before returning once again to complete his B.Tech Degree in just one more year

To assess the impact of these changes, the NIST Chronicle, NIST University's official magazine, invites students to share their perspectives on the multiple entry-exit model. This survey will provide valuable insights into how the policy influences students' academic journeys and career aspirations, shaping a more adaptable and inclusive higher education ecosystem

As part of our exploration into the impact of the National Education Policy (NEP) 2020, we conducted a student survey to gather opinions on the Multiple Entry-Exit System with a question like:

FEATURE STORY

TRADITIONAL WISDOM WITH MODERN METHODOLOGIES, NEP 2020

Dr. Bharat, an Air Veteran and Management Doctorate, is a multi-faceted personality with triple Master's degrees in Political Science, Psychology, and Management. With over 30 years of experience, he has inspired 30,000 students and 1,000 professionals as an Author, Trainer, and Coach. A Management Teacher trained at IIMs and IITs, he is also a Consultant in Corporate Leadership, Strategy, and a Harvard-certified Case Instructor. He has authored three books and published research in renowned global journals. Beyond his academic achievements, Dr. Bharat is a fitness enthusiast and a Graphologist, emphasizing the importance of a success-driven mindset and embracing challenges. He is recognized for his profound insights and transformative teaching across India.



Prof (Dr.) Bharat Bhushan Singh
(Air Veteran, Author, Trainer & Coach)

Dr. Bharat is one of India's most versatile leaders. In this issue, NIST Chronicle features his perspectives on NEP 2020, shedding light on its importance and potential to reshape education for the future.

NIST Chronicle (NC): What is the main objective of NEP?

Dr. Bharat: NEP unshackles Indian education system, which was rigid, opaque and propagated exclusivity. It democratizes education by making it accessible to all, promotes flexibility, convenience and pace of learning. Further the focus on skills, integrated approach to teaching learning and academic bank of credit providing freedom to the learners are truly a game changer initiative envisaged in the NEP 2020.

Emphasis on collaboration, cooperation and co-creation in the learning process, leveraging technology for effective learning and multi-disciplinary thrust along with multiple entry and exit

life. It helps them upskill as technology and market changes and enhance their career life cycle and options enable learners to remain active learners through-out their contribute effectively to an aspiring and demanding economy.

NC: How will NEP transform Indian Education system? Can you please summarise?

Dr. Bharat: NEP will challenge the status quo. Opening of higher education for global players will bring a paradigm shift in how education was being viewed. With global competition, higher education institutions will be forced to compete with the best in the world. With Student getting choices to engage with the world's best using technology as an enabler has the potential to truly galvanise the higher education scenario. Focus on student's centric learning, outcome base curriculum, and skill focus programs will provide skilled talents to the country which will be able to meet the demand of the growing economy. Teachers on a continuous improvement frame work shall be forced to unlearn, and then relearn to remain relevant in NEP regime. Light but tight regulatory mechanism will provide enough opportunity for all but only the performers will survive the scrutiny of the learners and regulators.

NC: How do you think the NEP will address the inclusivity of education in the context of the wide diversity in Indian social system?

Digitalization of education, and making education affordable to all will bring more and more learners into the mainstream of education. Availability of Massive Open Online Courses (MOOCs), Strengthening of NPTEL and Swayam platform has the capacity to enable learners from all section of society. Focus on skill-based education will fuel employments as India will become net exporter of skilled workforce due to its demographic dividend. This will motivate more and more learners to invest in education and make their life better.

NC: What initiatives should Indian Educational institutions take to adopt the NEP?

Dr. Bharat: Indian educational institutions should embrace change to meet learners' aspirations and job market demands. Key steps include leveraging technology, establishing a strong administrative framework, and aligning programs with NEP provisions like the Academic Bank of Credit and Multiple Entry-Exit options. Continuous improvement through feedback mechanisms and MAA (Measurement, Attainment, and Assurance of Learning) will enhance responsiveness. Accreditation from relevant bodies is essential for effective NEP adoption.





NIST
UNIVERSITY



SANKALP

2024

Presents



Tatvam

ELEMENTS OF LIFE

21ST-22ND MARCH

SANKALP 2024

EVENTS FOR EVERY ONE

SANKALP 2024

The vibrant campus of NIST University in Southern Odisha came alive with excitement as SANKALP 2024, the university's first-ever Techno-Management Fest, concluded with resounding success. This grand event marked a significant milestone, being the inaugural SANKALP under the university banner, transitioning from its legacy as a fest of NIST Autonomous College. For two action-packed days, SANKALP 2024 celebrated the spirit of innovation, technical expertise, and cultural unity, offering participants a platform to showcase their talents and ideas.

The fest was a powerhouse of activities, including robotics, web designing, quizzes, coding challenges, and paper presentations, providing a stage for students to push the boundaries of creativity and skill. Each event brought best in young minds, forward the as participants

collaborated and competed with vigor and enthusiasm. Complementing the technical brilliance was the Cultural Night, a spectacular evening that united the NIST fraternity in celebration. Featuring mesmerizing performances and artistic displays, the night created an unforgettable atmosphere. The showstopper of the fest was undoubtedly the Star Night, an electrifying event that had everyone swaying to the rhythm of joy and camaraderie.

SANKALP 2024 stands out not just for its stellar lineup of events but also for its significance as the first fest under the NIST University banner. This year's edition blended the traditions of its past with the aspirations of its future, making it a truly unique experience for all involved. As the curtains closed on this remarkable fest, the memories lingered as a reminder of the innovation, creativity, and unity that define NIST University. SANKALP 2024 has set a new benchmark for excellence, leaving everyone eagerly awaiting the next edition of this.

TATVAM: THE ESSENCE OF EXISTENCE

Derived from the ancient Sanskrit language, Tatvam signifies the essence or fundamental principles that underpin existence. Rooted deeply in philosophical and spiritual traditions, Tatvam serves as a lens through which one can explore the profound truths that govern the universe and the individual self. At its core, Tatvam embodies an inquiry into the nature of reality, consciousness, and existence. It delves into the intricate interconnectedness of all things, seeking to unravel the mysteries that bind life and the cosmos. By embracing the concept of Tatvam, one embarks on a journey of introspection and self-discovery, gaining insights into the ultimate truths that transcend the confines of the material world.

Tatvam also offers a guiding light for seekers of spiritual enlightenment. It encourages contemplation and reflection, fostering a deeper understanding of the universe and the individual's unique place within it. By aligning with these core principles, individuals can navigate life with a heightened sense of purpose and awareness, striving for a harmonious balance between the material and the eternal. It challenges individuals to look beyond superficial appearances and embrace the profound unity that underlies all of creation, fostering a life of meaning, mindfulness, and spiritual growth. Tatvam invites us to question, to learn, and to grow, illuminating the path to self-realization and universal harmony. By embracing its timeless wisdom, we can cultivate inner peace and contribute to a world that thrives on compassion, understanding, and unity.

OFFICE BEARERS OF NIST ISTE SANKALP 2K24



Aditya Kumar Sahu
PRESIDENT



B Sanjeev Reddy
SECRETARY



Richa
TREASURER

SANKALP 2024

EVENTS FOR EVERY ONE

MESSAGE FROM ISTE FACULTY ADVISOR



In 2003, my journey as a student at NIST began, I was captivated by the atmosphere of creativity and innovation that SANKALP brought to campus. Over time, my perspective shifted, from sitting at a student desk during lectures to standing at the podium as a faculty member, imparting knowledge to a new generation. Today, as I write this message for SANKALP 2024, I am overwhelmed with pride and gratitude. This year is particularly special as a long-cherished dream has been realized, our beloved institution has transitioned from an autonomous college to NIST University. This monumental achievement is a proud moment for all of us, and it is fitting that SANKALP 2024 is the first edition under the university's banner.

It is an immense honor to serve as the ISTE Faculty Advisor of SANKALP 2024, the first such fest of NIST University. I am deeply grateful to the management for entrusting me with this responsibility and to the incredible team of students, faculty, and staff volunteers whose dedication has turned this event into a grand success. SANKALP 2024 is not just an event; it is a celebration of our collective spirit, brimming with techno-management events, cultural performances, and the much-anticipated Star Night. I am confident that this edition will leave behind cherished memories and set a benchmark for the future. To all NISTians, Past, Present, and Future: SANKALP is a testament to our shared legacy. May this year's fest inspire innovation, unity, and joy in all who participate.

With pride and gratitude,
Prof. Mitu Baral
 ISTE Faculty Advisor, SANKALP 2024



OUR LEGACY OF TRANSFORMATION

TRANSITION TO UNIVERSITY STATUS

Aspiring to set benchmarks as a world-renowned research university

*"The woods are lovely, dark, and deep,
But I have promises to keep,
And miles to go before I sleep,
And miles to go before I sleep"*

-Robert Frost-



NIST University
Notification No: 966-I-Legis-52/2023/L



INDOOR STADIUM

2019



CORE

2016



Tagore Hall of Residence

2014



ATRIUM

2012



TIFAC

2011



SWIMMING POOL

2010



Marie Curie Hall of Residence



Einstein Hall of Residence

2009



GALLERIA

2006



LHC

1997



OCTAGON

NIST (AUTONOMOUS): UGC Letter No.F.221-/2017(AC); Date:10/07 2018. BPUT Letter No. BPUT/XXII-CDC/06/19/4541;Date: 09/10/2018

NIST started in 1996 as Odisha's first NRI-led educational initiative, founded by Dr. Sukant K. Mohapatra and Ms. Sanjeeta Mohapatra under the SM Charitable Educational Trust.



FEEL THE BUZZ OF TRANSFORMATION

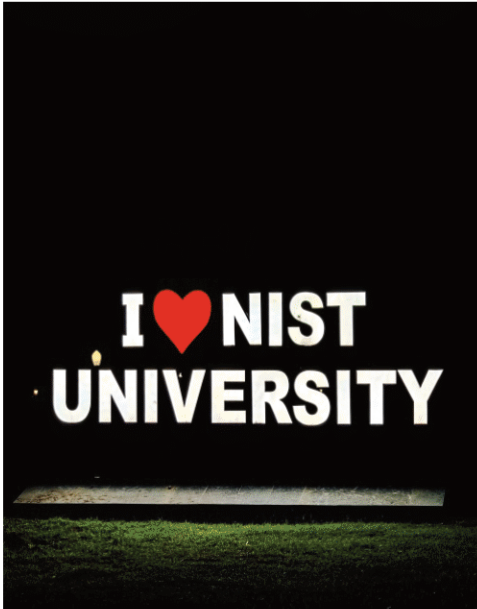


Photo Credit:
Mr. Srikant Kumar Sahu, (MBA 1st Yr)
Mr. Sabya Sachin Mohanta (BTECH, 2nd Yr)

WELCOME TO NEW FACES OF THE NIST FAMILY

Dr. Ashwini Kumar Behera



**Assistant Professor
(Physics)**

Dr. Ashwini Kumar Behera earned his Ph.D. in Theoretical Nuclear Physics from NIT Jamshedpur in 2023 with a thesis on "Low Energy Nucleon-Nucleus Scattering." Currently serving as an Assistant Professor at NIST University, he previously worked as Guest Faculty at Rajdhani College, Bhubaneswar. Dr. Behera's research interests include low-energy nuclear scatterings, screening effects in weakly coupled plasma environments, and electron-ion collisions. He has authored 25 research publications, six conference papers, and a book chapter on nuclear scattering. An accomplished scholar, he qualified GATE-2018 and JAM-2016, earning prestigious fellowships from MHRD and INSPIRE. Dr. Behera's dedication to advancing nuclear physics reflects his passion for both teaching and cutting-edge research.

Er. Panchanan Nath



**Assistant Professor
(Computer Science & Engineering)**

NIST University is delighted to welcome Er. Panchanan Nath as an

Assistant Professor in the Computer Science & Engineering Department. A recent M.Tech graduate from the Central Institute of Technology, Kokrajhar, he has excelled in network security, focusing on 5G and 6G technologies. Recognized in the EC-Council University Hall of Fame and awarded the Best Researcher Award 2024 under the Indian Scientists Award, he has also achieved international acclaim. He was among the top 20 selected for the 5th Scientific School on Blockchain and Distributed Technologies in Italy, from over 5,000 applicants. With six research publications, including two in prestigious SCI Q1 journals, Er. Nath brings exceptional expertise and a commitment to advancing academic excellence at NIST.

Dr. Biswajit Panda



**Assistant Professor
(Physics)**

NIST University is pleased to welcome Dr. Biswajit Panda as an Assistant Professor in the Physics Department. Dr. Panda earned his Ph.D. in 2024 from S N Bose National Centre for Basic Sciences under Calcutta University, specializing in "High-Resolution Spectroscopic Investigations of Various Trace Gases and Their Isotopologues Using Cavity Ring-Down Spectroscopy." He holds a Master's degree in Physics from Utkal University (2018). Prior to joining NIST, Dr. Panda gained valuable experience as a Senior Technical Services and Support

Engineer at New Age Instruments and Materials Pvt. Ltd. His research interests include molecular spectroscopy, atmospheric science, and environmental monitoring. Dr. Panda was awarded the Inspire Scholarship (2013-2018) and has qualified for exams like IIT JAM, JEST, and GATE. He also received the Best Oral Presentation award at IEMPHYS-2021. We are excited to have him on board to enhance the academic excellence at NIST.

Dr. Susanta Kumar Indrajitsingha



**Assistant Professor
(Mathematics)**

NIST University is pleased to welcome Dr. Susanta Kumar Indrajitsingha as an Assistant Professor in the Mathematics Department. Dr. Indrajitsingha completed his Ph.D. in 2018 from Berhampur University, specializing in "Some Aspects of Fuzzy Inventory Management Systems." He also holds an M.Phil. from Ravenshaw University and an M.Sc. in Mathematics from Berhampur University. Prior to joining NIST, he served as a Lecturer in Mathematics at Saraswati Degree Vidyamandir for over six years. With a strong research background, Dr. Indrajitsingha has published 21 research papers, including three book chapters and four book publications. He has received the prestigious DST Inspire Fellowship and several gold medals from Berhampur University for his academic excellence. We are excited to have him on board, where his

WELCOME TO NEW FACES OF THE NIST FAMILY

expertise in inventory modeling will enrich the academic experience at NIST University.

Mr. Saubhagya Ranjan Nath



**Assistant Professor
(Computer Science & Engineering)**

NIST University is delighted to welcome Saubhagya Ranjan Nath as an Assistant Professor in the Computer Science and Engineering (CSE) department. Saubhagya holds a Master's degree in CSE from Utkal University and brings a wealth of experience. He previously served as a Production Supervisor at Bajaj Automobile for five years, where his leadership initiatives reduced production downtime by 15% and boosted efficiency by 20%. He then worked as a Senior Programmer at the National Informatics Centre for six years, contributing to impactful e-governance projects and earning the "Excellence in IT Service" award. His consulting experience at Genius Consultant further refined his expertise in optimizing business processes. With a keen interest in integrating Robotics, AI, Data Science, and Sensor Technology, Saubhagya is eager to innovate in automated systems. We are excited to have him join NIST University, enriching our academic community with his expertise and practical experience.

Mr. K Manoj Kumar



**Assistant Professor
(Computer Science & Engineering)**

NIST University is pleased to welcome K. Manoj Kumar as an Assistant Professor in the Computer Science Department. He holds an M.Tech in Computer Science and Engineering from NIST University, where he completed his Master's project on mobile robot path planning. With over 12 years of experience in both industry and academia, Manoj brings extensive expertise in Artificial Intelligence, Robotics, Machine Learning, Cryptography, and the Internet of Things (IoT). His diverse knowledge will enhance the learning experience for students and support the university's dedication to advancing research and innovation. We are excited to have him join our faculty and look forward to the valuable contributions he will make to the NIST community.

Dr. Ashalata Panigrahi



**Associate Professor
(Computer Science & Engineering)**

Dr. Ashalata Panigrahi has joined the Department of Computer Science and Engineering at NIST University as an Associate

Professor. She holds a Ph.D. in Computer Science from Berhampur University, with research focused on the application of soft computing techniques to network intrusion detection, demonstrating her expertise in the field. Additionally, she has an M.Tech in Computer Science and over 17 years of academic experience. Dr. Panigrahi has published more than 30 research papers in national and international journals. Her research interests span artificial intelligence, information security, and machine learning, making her a valuable addition to the department's academic and research initiatives.

Dr. Krishna Prasad Ponnekanti



**Professor
(Computer Science & Engineering)**

NIST University is pleased to welcome Dr. Krishna Prasad Ponnekanti as a Professor in the School of Computer Science and Engineering. With a Ph.D. in Computer Science from Rayalaseema University, focusing on Cognitive Neural Networks and Machine Intelligence, Dr. Ponnekanti brings 17 years of research experience and 48 publications. He has held leadership roles, including Professor and Head of the Department at Anil Neerukonda Institute of Technology and Sciences and Associate Professor at GITAM Institute of Technology. Dr. Ponnekanti has mentored over 55 student innovations and actively contributed to professional organizations, serving as Secretary

WELCOME TO NEW FACES OF THE NIST FAMILY

of the IEEE Computer Society Chapter in Hyderabad. His extensive expertise and commitment to academic excellence will greatly enhance the learning environment at NIST University. We are thrilled to have him join our faculty.

Mr. Bandhan Panda



**Assistant Professor
(Computer Science & Engineering)**

We are excited to welcome Mr. Bandhan Panda as an Assistant Professor in the Department of Computer Science at NIST University. A recent graduate with a Master's degree in Computer Science and Engineering from Odisha University of Technology

and Research (O U T R), Bhubaneswar, Mr. Panda specializes in cutting-edge fields such as Machine Learning, 5G Networking, Artificial Intelligence (AI), and Fractional-Order Modeling. His master's project, "Modeling and Optimal Analysis of Lung Cancer Cell Growth and Apoptosis with Fractional-Order Dynamics," highlights his dedication to impactful research in computational biology. With one year of teaching experience, Mr. Panda is eager to apply his expertise in the classroom and contribute to NIST University's academic community.

Mr. Debashis Biswal



**Assistant Professor
(Computer Science & Engineering)**

We are pleased to introduce Mr. Debashis Biswal, who has joined NIST University as an Assistant Professor in the Department of Computer Science and Engineering.

With 15 years of teaching experience, Mr. Biswal is currently pursuing his Ph.D. at VSSUT, Burla, focusing on the analysis and prediction of financial time series data. He holds an M.Tech in Computer Science from Berhampur University and has a strong interest in data mining, time series data, and machine learning. We are excited to welcome him to the NIST community and look forward to his contributions in research and academics.



INNOVATION & RESEARCH FRONTIER

PATENT PUBLISHED

- **Dr. Manjushree Nayak** published a patent entitled “Computational framework for predictive modeling of molecular interactions using artificial intelligence”, having application no. 202411009507 A in 2024. The inventors are Manjushree Nayak, Dr Shafqat Alauddin Dr. Kavita Khatana Mr. Balaji M Ravi Kishore Veluri Dr. Chinmaya Guru Dr. V. Sabari Dolly Jinu & R Dr. Sajith. S.

JOURNAL PUBLICATION

- **Dr. Souren Misra, Prof. Alok Patra, and Prof. Santosh Kumar Panda** faculties of Dept. of Mechanical Engineering have published a research article entitled “Positivity preserving analysis of central schemes for compressible Euler equations” in the Journal of Computational Thermal Science in 2024.
- **Prof. Santosh Kumar Panda**, faculty of Dept. of Mechanical Engineering have published a research article entitled “Sector orifice analysis with a correlation to determine flow coefficient” in the Journal of Engineering and Thermal Science in 2024.
- **Prof. Durgamadhab Padhy**, Assistant Professor, School of Management Studies has published a research article entitled “Prioritizing the Dimensions of Organizational Support: Perspective from Indian Logistic Companies” in the Journal of Annals of the Bhandarkar Oriental Research Institute in 2024. The researchers are Durgamadhab Padhy, Dr. Sadanand Sahoo & Dr. Santanu Kumar Dash.
- **Dr. Manjushree Nayak**, Assistant Professor, Dept. of CSE published a research article entitled “An Optimized Recurrent Neural Network for re-modernize food dining bowls and estimating food capacity from images”, in the Journal of Entertainment Computing in 2024. The researchers are N Veena, M Prasad, S Aruna Deepthi, B Swaroopa Rani, Manjushree Nayak & Siddi Someshwar.
- **Prof. Swadhin Kumar Mishra** Assistant Professor, Dept. of Electronics Engineering published a research article entitled “Meta-heuristic optimization techniques for scheduling in multiple-input multiple-output multiple-access channel system”, in International Journal of Communication Systems in 2024. The researchers are Swadhin Kumar Mishra, Aruananshu Mahapatro & Prabina Pattanayak.
- **Prof. Krishna Prasad E S N Ponnekanti** Professor, Dept. of CSE published a research article entitled “Deep interpolation based hyperspectral-multispectral image fusion via anisotropic dependent principal component analysis”, in the Journal of Multimedia Tools and Applications in 2024. The researchers are Gunnam Suryanarayana, K. Shri Ramtej, D. Srinivasulu Reddy, P. E. S. N. Krishna Prasad & Avagaddi Prasad.
- **Prof. Krishna Prasad E S N Ponnekanti** Professor, Dept. of CSE published a research article entitled “Ensemble Recognition Model with Optimal Training for Multimodal Biometric Authentication”, in the Journal of Multimedia Tools and Applications in 2024. The researchers are K Pavan Kumar, P E S N Krishna Prasad, Sureah Y, M Rajesh Babu and M Jendra Kumar.
- **Prof. Sandipan Mallik**, Associate Professor, Dept. of Electronics Engineering published a research article entitled “Asymmetric Doping-Dependent Electron Transport Mobility in $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{GaAs}$ Quantum Well Field-Effect Transistor Structure”, in the Journal of Physica Status Solid (B) in 2024. The researchers are S R Panda, M Pradhan, S Mallik, T Sahu.
- **Prof. Sandipan Mallik**, Associate Professor, Dept. of Electronics Engineering published a research article entitled “Performance characterization of Ferroelectric GaN HEMT based biosensor”, in the Journal of Microsystem Technologies in 2024. The researchers are N. Topno, V. Hemaja, D.K. Panda, D K Dash, R Swain, S Mallik & J K Dash.
- **Prof. Sandipan Mallik**, Associate Professor, Dept. of Electronics Engineering published a research article entitled “Design prospect of CdTe solar cell using NW-CdS window layer and 3D graphene as back electrode from numerical approach”, in the Journal of Indian J Physics in 2024. The researchers are L. Vandana, S. Guhathakurata, G. Ahamed and S Mallik.
- **Prof. Sandipan Mallik**, Associate Professor, Dept. of Electronics Engineering published a research article entitled “Fabrication of Highly Transparent Substrates from Waste Materials for Electronic Device Applications”, in the Journal of ACS Applied Electronic Materials in 2024. The researchers are S Guhathakurata, D Pal, B S Reddy, N B Manik, S Mallik.

INNOVATION & RESEARCH FRONTIER

- **Prof. Sandipan Mallik**, Associate Professor, Dept. of Electronics Engineering published a research article entitled “Enhancement of photon absorption in thin film CdTe solar cell with microtextured quartz substrate”, in the Journal of Materials Today: Proceedings in 2024. The researchers are LaxmiVandana, Gufran Ahmad, SMallik.
- **Prof. Sumanta Kumar Patnaik**, Assistant Professor, Dept. of Physics published a research article entitled “Modeling the optoelectronic properties of quantum dot based perovskite structure for efficient solar cell”, in the Journal of Opticsin 2024. The researchers are Sumanta Kumar Patnaik, Sukanta Kumar Tripathy, Gopinath Palai, Santosh Kumar Sahoo, Rabinarayan Satpathy.

CONFERENCE

- **Prof. Santosh Kumar Panda, Pankaj Kumar, Subham Bala** Presented a paper entitled “Experimental and numerical analysis of drag force over stepped cylinder at super-critical flow regime” a conference organized by SRM University, Chennai on 20-22nd March 2024.
- **Prof. Aswini Kumar Khuntia, Prof. Alok Patra, Prof. Souren Misra, Prof. Santosh Kumar Panda**, Presented a paper entitled “Analysis of a flow through a Crescent orifice by using Machine Learning” a conference ICMMSE 2024 on 16th August 2024.
- **Prof. Santosh Kumar Panda**, Presented a paper entitled “Two-Phase Multiplier and slip analysis of a circular orifice” in a conference ICMMSE 2024 on 20-22nd March 2024.
- **Prof. Alok Patra, Prof. Aswini Kumar Khuntia, Prof. Souren Misra, Prof. Santosh Kumar Panda** Presented a paper entitled “Flow measurement by using Vortex Strength Method” in a conference IC3SEA 2024 on 26th July 2024.
- **Prof. Aruna Kumar Samantaray, Prof. Aswini Kumar Khuntia, Prof. Souren Misra, Prof. Santosh Kumar Panda** Presented a paper entitled “A decision tree regression based performance analysis of a duct air-conditioning test rig” in a conference IC3SEA 2024 on 26th July 2024.
- **Prof. Souren Misra, Prof. Arun Kumar Samantary, Prof. Aswini Kumar Khuntia, Prof. Santosh Kumar Panda** Presented a paper entitled “Machine learning based approach for the heat transfer analysis of circular fin” in a conference ICMMSE 2024 on 16th August 2024.
- **Prof. Sabyasachi Rath, Truptimayee Panigrahi and Shreya Satapathy** Presented a paper entitled “Brand Resonance and Sustainability Marketing: Impact and Implications” in the conference “International Conference on Managerial Excellence & Sustainable Growth: IT & Operational Issues (ICMESG’24)” on 17th Feb, 2024.
- **Prof. Durgamadhab Padhy, Assistant Professor**, School of Management Studies has Presented a research article entitled “Financial Planning of Youngsters for Sustainable Future” in the International Conference on Sports Science & Management on 23 April 2024. The researchers are Truptimayee Panigrahy and Durgamadhab Padhy.
- **Dr. Manjushree Nayak**, Assistant Professor, Dept. of CSE has Presented a research article entitled “Integrating Eye Gaze Estimation with the Internet of Medical Things (IoMT) for Individualized and Efficient Healthcare”, in an IEEE conference during 12-14 July 2024. The authors are S Chandel, R Bhattacharya, M Nayak.
- **Dr. Manjushree Nayak**, Assistant Professor, Dept. of CSE has Presented a research article entitled “Revolutionizing Healthcare Management: IoT-Based Medicine Dispenser and Temperature Monitoring Systems”, in an IEEE conference on 3rd September 2024. The authors are Manjushree Nayak, Jiten Kumar Gardia, Umashankar Ghugar, Amit Jain, Rakesh Nayak.

BOOK CHAPTER

- **Prof. Sabyasachi Rath**, Professor, Department of Management Studies has published a book chapter entitled, "Patient Satisfaction and Marketing Effectiveness in Selected Large Hospitals", in the book entitled "Futuristic Trends in Management", by Iterative International Publishers (IIP) in 2024.
- **Dr. Manjushree Nayak**, Assistant Professor, Dept. of CSE published a book chapter entitled "Image denoising using wavelet thresholding technique in Python", in the book entitled "Image Processing with Python: A practical approach" by IOP Publisher in 2024. The authors are Devanand Bhonsle, Shruti Tiwari, Roshni Rahangdale, Manjushree Nayak, Ruhi Uzma Sheikh & Anu G Pillai.
- **Dr. Manjushree Nayak**, Assistant Professor, Dept. of CSE published a book chapter entitled "Empowering Safety: A Deep Dive Into AI and Machine Learning Solutions for Women's Security", in the book entitled "AI and Application tools for women safety" by IG IPublisher in 2024. The authors are Omkar Pattnaik, Manjushree Nayak, Sasmita Pani, Rahul Kumar, Bisham Sharma.
- **Dr. Manjushree Nayak**, Assistant Professor, Dept. of CSE published a book chapter entitled "Precision Profiling: The Microeconomic Dynamics of Small Business Tax Optimization Through Digital Twins and Blockchain", in the book entitled "Ensuring security & End to end visibility through Blockchain & Digital Twin" by IGI Publisher in 2024. The authors are Manjushree Nayak, Shreeka Pattnayak, Subham Sharma, Omkar Pattnaik.
- **Prof. Swadhin Kumar Mishra** Assistant Professor, Dept. of Electronics Engineering published a book chapter entitled "Modified grey wolf optimization in user scheduling and antenna selection in MU-MIMO uplink system", in the book entitled "Advances in Computers Applications of Nature-Inspired Computing and Optimization Techniques" by Advances in Computers, Elsevier in 2024. The authors are Swadhin Kumar Mishra, Aruananshu Mahapatro, Prabina Pattanayak.
- **Dr. Ayesha Tansim**, Asst. Professor, Department of English has published a book chapter "Shashi Deshpande's The Long Silence : An agony of Indian women" in the book entitled "Gender, Society and Minority : New Perspectives" by Empyreal Publishing house in April 2024.
- **Dr. Ayesha Tansim**, Asst. Professor, Department of English has published a book chapter "Shashi Deshpande's Novels: A Poignant reflection of complex relationships" in the book entitled "Voices Unveiled: Women in Literary Landscape" by Author's Press in April 2024

WORKSHOP ATTENDED

- **Dr. Basant Kumar Sahu**, Associate Professor, Department of Electrical Engineering organised A hands-on workshop on "Protecting Your Innovations: A Comprehensive Overview of Patenting in India and International Jurisdictions" conducted on 5th February, 2024, incorporated by IPR Cell of NIST University.
- **Dr. Prajapati Nayak** Assistant Professor, Department of Mechanical Engineering and **Dr. Basant Kumar Sahu** Associate Professor, Department of Electrical Engineering organised an AICTE Sponsored Three Days Workshop under AICTE-VAANI On "Industry 4.0 and Smart Manufacturing (Additive manufacturing, Lean Manufacturing, Reverse Engineering, Advanced Robotics and Automation, IoT, 3D Printing) (Theme: Industry 4.0 and Smart Manufacturing) on 10th -12th July, 2024. Workshop was conducted at NIST University.

FDP ATTENDED

- **Dr. Basant Kumar Sahu**, Associate Professor, Department of Electrical Engineering has attended a FDP entitled " AI/ML Solutions for Industry 4.0: Applications Spanning from Embedded Systems to VLSI Technology " Organized by Silicon University, Bhubaneswar during from 19th August to 24th August 2024.
- **Dr. Aswini Kumar Nayak**, Assistant Professor, Department of Electrical Engineering has attended a FDP entitled " AI/ML Solutions for Industry 4.0: Applications Spanning from Embedded Systems to VLSI Technology " Organized by Silicon University, Bhubaneswar during from 19th August to 24th August 2024.

WORKSHOP, SEMINAR & TALK

Induction Program for B.Tech 2024 Batch



NIST University organized a two-week induction program for the B.Tech 2024 batch, starting on 16th August 2024. Designed to aid new students' transition, the program emphasized life skills, social and emotional intelligence, health, and hygiene. In the inaugural session, Shri Bhabani Shankar Mishra, a Life Coach, encouraged students to value of health, fitness, and Indian values. Shri Mishra was later honored by Dr. P. Rajesh Kumar, Vice Chancellor I/C, for his contributions.

NIST University IEEE Hosts 'Tinker to Tech' Innovation Event Series



The IEEE Student Chapter at NIST University hosted "Tinker to Tech - A Hands-On Journey from Idea to Innovation," sponsored by the IEEE Sensors Council with support from the NIST Renewable Energy Club. This event allowed students to explore sensor-based technology, using TinkerCad for design and simulation on Day 1. In the second day, participants created 16 live projects. Heartfelt thanks to IEEE, volunteers, faculty, and students for making this event a success.

Workshop on 5G Communication Systems and Applications



NIST University's Department of Electronics and Communication Engineering organised a 3-day workshop on "5G Communication Systems and Applications" from July 29-31, 2024. Experts from BSNL, Dr. M. Satya Prasad and Mr. B. S. S. Rao, led sessions on 5G technology and its applications. Students explored 5G architecture, implementation, and potential sectoral impact, culminating in a BSNL office visit for hands-on exposure to telecommunications infrastructure and real-world applications.

Google DeepMind Scientist Inspires NIST Students on AI Innovations



Dr. Swaroop Mishra from Google DeepMind's Gemini team visited NIST University to present on "Key Methods Powering ChatGPT, Gemini & LLMs." He shared insights on their work, including the BHASKAR model and LILA benchmark, and emphasized the importance of passion over a 9.00AM - 5.00PM mentality. The event ended with a Q&A session, felicitation, and an interactive meet with the Google Developer Group on Campus. Thanks to GDSC, IIC, and IEEE for organizing this informative event.

WORKSHOP, SEMINAR & TALK

International Conference on Technology Advances for Green Solutions and Sustainable Development



The Department of Computer Science and Engineering, NIST University organized the International Conference on Technology Advances for Green Solutions and Sustainable Development on August 9-10, 2024, in hybrid format, sponsored by Canara Bank with Springer Publication house as Co-sponsor of event. The event featured notable speakers, including Chief Guest Er. P. K. Pattanaik and Guest of Honour Dr. Sandeep Poddar. With over 119 abstracts submitted, 39 were accepted for publication. The conference concluded with a Vote of thanks from Dr. Bishnukar Nayak.

Faculty Development Program on Python Programming



The Department of Mathematics at NIST University held a Faculty Development Program (FDP) on Python Programming from August 2-6, 2024. Dr. Venkateswara Rao Tirumalasetty from Web Synergies led expert sessions and hands-on training, emphasizing Python's significance in research. The five-day program explored Python applications in Engineering, Management, and Sciences, aiming to enhance faculty skills for academic and research endeavors. Gratitude was extended to participants, speakers, and organizers for their contributions to the program's success.

NIST Welcomes Alumnus Sudeep Misra for Career Talk



NIST University proudly hosted Mr. Sudeep Misra, an esteemed alumnus from the 2001-05 batch and Director of Global Marketing at ServiceNow, on July 31, 2024. He delivered an engaging talk titled "From Campus to Career: Excelling in Interviews and Group Discussions," providing students with valuable strategies for transitioning from academia to the professional world. With expertise in growth marketing and B2B enterprise SaaS, Sudeep emphasized the importance of leveraging data and insights for marketing success.

NIST Welcomes Alumnus Sidharth Ranjan Panda from Intel



Mr. Sidharth Ranjan Panda, an esteemed alumnus of the BTech ECE 2008-12 batch and currently a Senior Engineering Manager at Intel, Texas, delivered an insightful talk on July 31, 2024, titled "Campus to Corporate: Navigating a Career in Semiconductor Technology." Drawing from his 12 years of experience in backend VLSI chip design, he shared valuable insights into transitioning from academia to industry. Sidharth detailed his professional journey, emphasizing the critical role of technical expertise in semiconductor technology and offering guidance to aspiring engineers. The event, a blend of inspiration and practical advice, was organized by Prof. Mitu Baral.

WORKSHOP, SEMINAR & TALK

AICTE-VAANI workshop on Manufacturing and Industry 4.0



NIST University inaugurated a three-day workshop on Manufacturing and Industry 4.0 on July 10, 2024, with Dr. Subrata Panda from NIT Rourkela leading the session. Dr. Sukant K. Mohapatra emphasized the impact of AI and Data Science on modern industry. This workshop was sponsored by AICTE-VAANI scheme and co-ordinated by Dr. Prajapati Naik. Participants from various institutes engaged in sessions on 3D printing and reverse engineering led by Prof. Susanta Tripathy and Dr. Swayam Bikas Mishra. The workshop aimed to enhance technical education and industry readiness.

NIST Summer Courses Enhance Student Skills and Knowledge



NIST University's Summer Courses along with invaluable hands-on experience were offered by industry professionals to students. These courses bridged the gap between academic learning and practical application, ensuring students could equip to face real-world challenges. Alongside technical expertise, participants developed essential soft skills like teamwork, communication, and problem-solving. The enthusiastic engagement reflected their commitment to personal and professional growth, as students accessed cutting-edge resources and mentorship to invest in their future.

Celebrating World Intellectual Property Day



NIST University commemorated World Intellectual Property Day on April 26, organized by its Innovation and Incubation Cell (IIC). The event highlighted the crucial role of Intellectual Property Rights (IPR) in fostering innovation and driving economic growth. Dr. Sandipan Mallik and Dr. Krishna Prasad Ponnekanti discussed the importance of IPR in modern society, with Dr. Mallik explaining IP protection methods and benefits for students, while Dr. Prasad emphasized the value of innovative thinking for future progress.

NIST University Hosts Lecture on Tobacco Awareness with Rotary International



NIST University, in collaboration with Rotary International Berhampur, organized an impactful lecture on tobacco awareness led by renowned pulmonologist Prof. Dr. Narayana Mishra. The event commenced with Ch. Mohan Subudhi, President of Rotary Central Berhampur, outlining the workshop's objectives, followed by Er. Sayad Suleman Ali, who emphasized the importance of willpower in overcoming tobacco addiction. Dr. Mishra delivered an engaging presentation on the health risks of tobacco and addressed queries from NISTians. The event concluded with a heartfelt vote of thanks by Shri V. Jayram Raju.

START-UP & INDUSTRY COLLABORATION

D2C Innovation Summit 2024: Fostering Collaboration in Jaipur



The D2C Innovation Summit 2024, hosted by Innovher in partnership with FORHEX and supported by I-Start & MeitY, took place from August 9th to 12th at the Forhex Fair in Jaipur. As Rajasthan's first event dedicated to the Direct-to-Consumer (D2C) sector, it brought together industry leaders, skilled artisans, and aspiring entrepreneurs. Prabhass Raj Panigrahi from the NIST Incubation Center attended, inspiring small entrepreneurs to pursue incubation opportunities at NIST University.

NIST Incubation Center Team Engages with DST for Start-Up Support



A team from the NIST Incubation Center, led by Mr. Prabhass Raj Panigrahi and Dr. Sushanta Kumar Sahoo, visited the Department of Science & Technology in New Delhi. They had an in-depth discussion with Dr. Praveen Roy (Scientist "G") on developing incubation centers and encouraging youth participation in India's growing startup culture. Dr. Roy assured full support from DST to enhance the startup ecosystem in South Odisha, fostering positive expectations for NIST University's entrepreneurial initiatives.



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NEP 2020: A VISION FOR INCLUSIVE AND HOLISTIC LEARNING

The National Education Policy (NEP) 2020 is one of the most comprehensive education reforms undertaken in India, aiming to overhaul the entire education system and align it with 21st-century needs. NEP 2020, which was approved by the Indian government in July 2020, aims to make education more inclusive, accessible, holistic, and interesting for all students. The goal of the policy is to establish India as a worldwide knowledge center by emphasizing critical thinking, lifelong learning, and technological integration. Here is a closer look at NEP 2020's main objectives and tenets, as well as its creative teaching methodology and possible future effects on India.

Restructuring School Education:

The new school education system in NEP 2020, which substitutes a 5+3+3+4 framework for the conventional 10+2 format, is one of the biggest changes. Children's cognitive and developmental stages are in line with this structure:

- Foundational Stage (5 years): Grades 1 and 2 are followed by three years of pre-primary education with an emphasis on play-based, multisensory learning.
 - Preparatory Stage (3 years): Grades 3–5, with a focus on fundamental reading, numeracy, and discovery-based learning.
 - Grades 6–8 comprise the Middle Stage (3 years), which introduces increasingly abstract ideas and disciplines including science, arithmetic, social studies, and the arts.
 - Grades 9 -12 comprise the Secondary Stage (4 years), which offers a comprehensive approach and lets students customize their education according to their interests. This new framework is intended to foster a child's innate creativity, curiosity, and critical thinking from a young age, establishing the groundwork for lifelong learning.
- **Focus on Foundational Literacy and Numeracy:**

With the supercilious goal of guaranteeing that all children possess fundamental reading, writing, and math skills by Grade 3, NEP 2020 places a high value on foundational literacy and numeracy. The policy encourages governments and school districts to put in place specific initiatives to overcome learning gaps, acknowledging that

millions of youngsters lack these skills. It also suggests a National Mission on Foundational Literacy and Numeracy.

Vocational Education from an Early Age:

In NEP 2020, the innovative idea of beginning vocational education in Grade 6 was presented. Students can identify their interests and acquire real-world skills at a young age by being exposed to a variety of practical talents, such as electronics, woodworking, and coding. This practical method aims to increase employability by moving the emphasis from rote memorizing to experiential learning.

Multilingualism and Promotion of Regional Languages

NEP 2020 promotes instruction in the mother tongue or regional languages. At least until Grade 5 (and ideally until Grade 8). This policy seeks to increase children's access to and engagement with education, particularly in rural areas. It also supports studies that show early exposure to one's mother tongue enhances understanding and memory. The multilingual approach honors language diversity and cultural integration, even if English will still be taught as a subject.

Reforming Higher Education to Promote Multidisciplinary Learning and Flexibility

A flexible, comprehensive, and multidisciplinary approach to higher education is what the NEP 2020 aims to achieve. Important points to note are:

- **Multidisciplinary Undergraduate Education:**
- The policy emphasizes wide, multidisciplinary undergraduate degrees where students can pursue different areas across Sciences, Humanities, and vocational courses. For instance, biology and philosophy, engineering and history, or economics and music could all be studied by students. The policy emphasizes wide, multidisciplinary undergraduate degrees where students can pursue different areas across Sciences, Humanities, and vocational courses. For instance, biology and philosophy, engineering and history, or economics and music could all be studied by students.
- **Various Options for Entry and Exit:**
- Students have the flexibility to exit a degree program at various stages while earning certifications along the way. This unique initiative allows learners to balance education with their professional commitments. A certificate can be obtained after one year, a diploma after two, a bachelor's degree after three, and a bachelor's with research after four years. The goal of this strategy is to increase educational accessibility and

ARTICLE : SCIENCE/ ENGINEERING/ MANAGEMENT

adaptability to personal requirements and circumstances.

Academic Bank of Credits (ABC)

A cutting-edge credit transfer system that enables students to save their credits for future use in the event that they change schools or return to school after a pause. ABC is intended to offer flexibility and lower the dangers of dropping out.

The Higher Education Commission of India (HECI)

The Higher Education Commission of India (HECI), a single regulatory body that would include four distinct verticals—the National Higher Education Regulatory Council (NHERC) for regulation, the National Accreditation Council (NAC) for accreditation, the Higher Education Grants Council (HEGC) for funding, and the General Education Council (GEC) for standard-setting—is proposed by NEP 2020 as a way to simplify and enhance governance.

The goals of this reform are to guarantee transparency, cut down on corruption, and minimize bureaucracy in the higher education industry.

Professional Development and Teacher Education

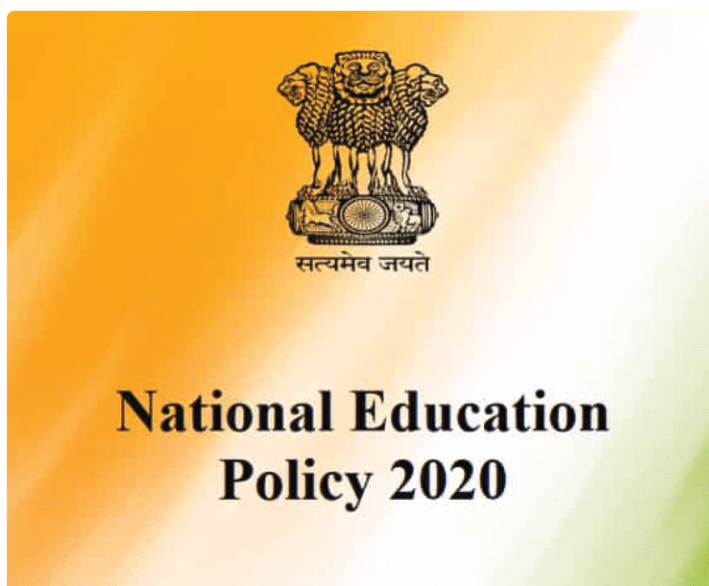
By reforming teacher education, NEP 2020 seeks to raise the capability of teachers. According to the policy, a four-year integrated Bachelor of Education (B.Ed.) degree should be the minimum requirement for teachers by 2030.

Recognizing that teachers are crucial to attaining educational excellence, it also places a strong emphasis on improved career routes, teacher autonomy, and ongoing professional development.

Leveraging Technology for Digital and Inclusive Learning

The National Educational Technology Forum (NETF) was established by NEP 2020 to encourage the use of technology in education in light of the global shift towards digital learning.

This organization will promote the sharing of best practices and ideas to improve online learning. In order to close the digital divide and provide fair access to resources, NEP also highlights the significance of digital infrastructure in underserved and rural areas.



Research and Innovation: The Role of the National Research Foundation (NRF)

To cultivate a strong research culture in India, the National Education Policy (NEP) 2020 introduces the National Research Foundation (NRF). The NRF will provide funding and support for research across a wide range of disciplines, including Science, Technology, Social sciences, and Humanities. By promoting research initiatives in these areas, the NRF aims to establish India as a global leader in innovation.

The National Education Policy (NEP) 2020 is a forward-thinking initiative aimed at shaping India's future by fostering a holistic, adaptable, and inclusive education system. By integrating digital learning, research, vocational training, and cultural diversity, the policy strives to equip students with the skills, values, and knowledge required to succeed in an increasingly globalized world. If effectively implemented, NEP 2020 has the potential to be a transformative milestone, empowering future generations, driving societal change, and positioning India as an innovative, resilient, and knowledge-driven economy.



Dr. Akankshya Patnaik
Associate Professor
Dept. of Management Studies
NIST University

EVENTS & CLUB ACTIVITIES

Club Multimedia Hosts Three Successful Events



Club Multimedia organized three impactful events that engaged 650 students and fostered learning and fun. The Blender Workshop on February 24th empowered 250 students with 3D modeling skills. Techno Mind on March 21st attracted 200 students, promoting teamwork through technical quizzes. Fall Mania, held the next day, invited 200 participants for obstacle courses, enhancing community spirit. Each event received positive feedback, showcasing the club's commitment to creativity and collaboration.

Celebrating Creativity: The Arts and Dramatics Club



The Arts and Dramatics Club of NIST celebrated a dynamic year filled with vibrant events that fostered creativity, collaboration, and a sense of community. The club hosted diverse activities ranging from scriptwriting workshops and art swaps to spirited competitions such as Art-O-Rama and Sankalp 2K24, where members explored the realms of storytelling, visual art, and drama. Signature initiatives like

Inspire to Aspire, Create-a-Play, and the Artistic Arena brought students together, enriching campus life with opportunities for self-expression. Through these events, the club not only nurtured artistic talent but also inspired students to embrace their creative potential.

Club Excel's Vibrant Year of Growth and Innovation



Club Excel organized impactful events this year, enhancing technical skills and community spirit. Highlights included coding competitions like "Code Crusade" during Sankalp 2023, hands-on Git and GitHub workshops, and a React.js session boosting employability. Awareness campaigns, like an anti-ragging poster competition, ensured a safer campus. Orientation, induction, and Foundation Day celebrated creativity and collaboration, while Sankalp 2024 blended learning with fun through interactive showcases and games.

Club Innova: A Celebration of Talent and Unity



Club Innova recently hosted vibrant events showcasing college talent and spirit. Rangmanch 7 (March 16) celebrated cultural expression with captivating performances, while Provoke Board (August 28)

highlighted creative displays on Ram Mandir and Durga Puja themes. Sandhaan (March 22) thrilled with interactive games, and Bingo Wingo (March 23) united the campus through Human Bingo. These events fostered cultural appreciation and camaraderie, amplified via social media, enhancing community excitement.

PCB Design Workshop by Electronics Hobby Club



On August 31, 2024, the Electronics Hobby Club organized a hands-on PCB Design workshop for 4th-semester B.Tech ECE students. Led by the club's faculty advisor, the session introduced participants to electronics basics, PCB design, and fabrication using EasyEDA software. Students designed and built an LED flasher circuit with a 555 timer IC, learning practical circuit-building techniques through chemical etching. The workshop was highly appreciated for its engaging approach, providing invaluable technical experience and fostering innovation among aspiring engineers.

Club Eureka's Vibrant 2024 Events



EVENTS & CLUB ACTIVITIES

Club Eureka enriched campus life in 2024 with diverse events. Republic Day and Independence Day celebrations highlighted national pride. February's Visionary Vistas competition inspired creativity, while the SANKALP 2k24 festival showcased cultural talents and the popular Mr. and Ms. Sankalp contest. August's Knock Out debate fostered critical thinking, and October's Paschatap roadshow delivered powerful social messages. Every event showcased the students' unwavering dedication and the club's dynamic and enthusiastic spirit.

Capturing Moments: Club Fotofolks



In 2024, Club Fotofolks organized engaging events to cultivate a passion for photography. Notable highlights included Photo Pocket in March, offering professional portraits, and Shutter Sprint, a campus treasure hunt. Workshops such as Nikon's in April, along with induction programs for MBA and B.Tech students, introduced photography basics and sparked creative exploration. These events not only enriched campus life but also inspired aspiring photographers, reflecting the club's commitment to fostering artistic talent and creativity.

Inspiring Events by NIST Astronomy Club (NAC)

The Astronomy Club at NIST hosted engaging events in 2024, promoting space sciences and sparking curiosity



across the university. Highlights included National Space Day (Aug 23) with 90 participants exploring space via demos, lectures, and stargazing, and National Science Day (Feb 29), which engaged 150 students through hands-on science activities. The Lunar Glimpse event, held on September 17, provided 50 enthusiastic students with an incredible opportunity for practical lunar observation. This initiative fostered scientific curiosity and reinforced the NAC's pivotal role in promoting science education and exploration.

CAT Club: Fostering Knowledge and Inclusivity



In 2024, the CAT Club at NIST University organized impactful events promoting knowledge and inclusivity. Highlights included the engaging Knowledge Knight quiz, creative Women's Day activities like Rangoli Royale, and the exciting Beat the Bidder cricket bidding event. The Grandmaster chess tournament and a webinar on democracy further engaged over 700 participants. These events enriched academic culture, promoted strategic thinking, and celebrated diversity, leaving a lasting impact on the

vibrant NIST campus community, while inspiring students to actively participate in extracurricular endeavors.

Team NCS: Building Connections



Team NCS at NIST University hosted impactful events, enhancing student engagement and mental health awareness. Key highlights included a mental health exchange at Saheed Bhagat Singh College, the Neighborhood Youth Parliament with 300 participants, and "The Maze Runner," promoting wellness for 250 students. "SAKSHAM 2024" and an orientation for 300 new students fostered skills and connections. These events reinforced a supportive and vibrant campus community, reflecting NCS's commitment to student well-being.

NDC Talent Showcase



In March, NDC showcased their talent at prestigious events like Mini Flashmob, Chiasma 2024 (AIIMS Bhubaneswar), Mahanagar Mahotsav 2024, and Sankalp Flashmob, followed by dynamic performances at Beat Breakers participants.

EVENTS & CLUB ACTIVITIES

Battle and Sankalp Stage Performance. In April, the motivational Inspire to Aspire event engaged students in creative expressions, fostering enthusiasm and artistic exploration among In August, NDC welcomed new members during the Orientation Induction, setting the stage for an exciting year ahead.

REC at NIST: Driving Sustainability and Innovation



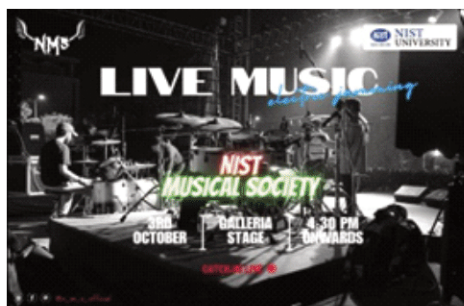
REC at NIST University organized impactful events, promoting learning and innovation. Highlights included “Decode and Dodge” on World Sustainable Energy Day, with 300+ participants, and National Science Day showcasing advanced projects. During Sankalp 2K24, “NavotthanPrastuti” and “Gyanam Pratispardha” tested problem-solving and presentation skills. The “Tinker to Tech” workshop, in collaboration with IEEE, built practical electronics skills. REC continues to inspire sustainable technology and creative problem-solving among students.

NCC at NIST University: Building Leadership and Awareness:



The National Cadet Corps (NCC) at NIST University organized impactful events in 2024, focusing on environmental awareness, patriotism, and skill development. Activities included the "Awareness on Environment" session, Republic Day Parade, Boat Pulling Simulator training, and firing practice. Cadets also promoted water conservation, celebrated International Yoga Day, and participated in a naval camp in Mumbai. These initiatives fostered discipline, environmental stewardship, and leadership among cadets, shaping them into service-oriented leaders.

NIST Musical Society: A Year of Harmony and Talent



The NIST Musical Society (NMS) delivered an outstanding year filled with diverse and memorable events. Highlights included patriotic performances on Republic and Independence Days, participation in the Mahanagar Mahotsav, and the signature event, NIST Idol, showcasing top talent. Orientation programs, jam sessions, and festive collaborations like Diwali celebrations brought joy and fostered a vibrant musical culture. With steadfast support from Dr. Preeti Ranjan Sahu, NMS continues to inspire creativity at NIST.

Empowering Change: NSS at NIST Drives Environmental and Wellness Initiatives in 2024

The National Service Scheme (NSS) at NIST University,



led by Programme Officer Md. Riazuddin, launched impactful initiatives in 2024 to promote environmental responsibility and wellness. Activities included a Campus Cleanliness Drive, Beach Cleaning, International Yoga Day celebrations, and a Plantation Programme. With over 100 saplings planted, these events emphasized sustainability, mindfulness, and community service, strengthening NSS's commitment to making a positive impact on campus and beyond.

Empowering Innovation: Data Science Club



The Data Science Club, guided by Ch. Shree Kumar, hosted impactful events throughout 2024, enhancing technical skills and fostering collaboration. Key highlights included Sankalp's Project Showcase, a Generative AI Workshop, and inductions for BTech and MCA students. These events attracted over 700 participants, encouraging innovation and strengthening the data science community at NIST, while also connecting with external institutions to inspire a broader interest in technology and AI. The club's initiatives effectively bridged academia and industry trends.

EVENTS & CLUB ACTIVITIES

Farewell for the Class of 2024



NIST University proudly bid farewell to the accomplished Class of 2024 in a heartwarming commencement ceremony. Dr. Sukant K. Mohapatra, President of NIST, inaugurated the event, congratulating graduates on their remarkable achievements and assuring the enduring support of the NISTFamily. Dr. P Rajesh Kumar, VC In-Charge, extended his best wishes, while Er. Sayad Suleman Ali, Head of HR & Admin, reflected on cherished college memories and inspired graduates to pave paths of success. Dr. Bishnukar Nayak, Registrar In-Charge, expressed gratitude for their unwavering commitment over four transformative years.

As they step into the world, graduates join NIST's 18,000+ strong Alumni Community, excelling in public service, IT, entrepreneurship, and business. This expansive network offers guidance and inspiration as they face future challenges. To the Class of 2024, may your journey ahead be marked by success and fulfilment, supported by the enduring bond of the NIST legacy.

Decoding the Human Mind: Dr. Jayshri Bansal

Dr. Jayshri Bansal, Associate Professor at HRDC, Devi Ahilya Vishwavidyalaya, Indore, recently delivered an enlightening talk at NIST University



titled "Understanding the Human Mind: States and Solutions." She explained the complexities of the human mind, highlighting its 60,000 daily thoughts and the importance of emotional intelligence to navigate these. Dr. Bansal distinguished the mind, ego, intellect, and memory, likening the mind to a biological computer processing sensory impressions. She described the ego as an illusion and wisdom as accumulated life knowledge. The session emphasized engaging students through visual stimuli over verbal cues, enabling impactful learning. Faculty members across departments participated in interactive discussions on how actions, behavior, and cognition form the core of human thought. Dr. Bansal's talk offered profound insights, fostering strategies to enhance teaching and emotional understanding in education.

Celebrates Family Values at the Workplace



NIST University hosted an inspiring event titled "Come with Your Children to Workplace: Inspire to Aspire Program" for the children of its employees. The initiative aimed to familiarize children with their parents' work environment while promoting the philosophy of

(the world is one family). Chief Guest Shri Pradipta Kishore Panigrahi shared valuable tips on fostering meaningful parent-child interactions during summer vacations. Dr. P Rajesh Kumar, Vice Chancellor In-charge, emphasized NIST's core values, while Dr. Bishnukar Nayak, Registrar In-charge, explained the event's objectives. Participants enjoyed engaging activities like games, poster-making, and drawing, fostering creativity and bonding. Coordinated by AD Club and NDC, with support from the NIST PR Cell, Fotofolks, and The MediaMovers, the event concluded with a vote of thanks by Dr. Sabyasachi Rath, Dean of CMLA. The initiative garnered positive feedback, reinforcing NIST's commitment to family and community

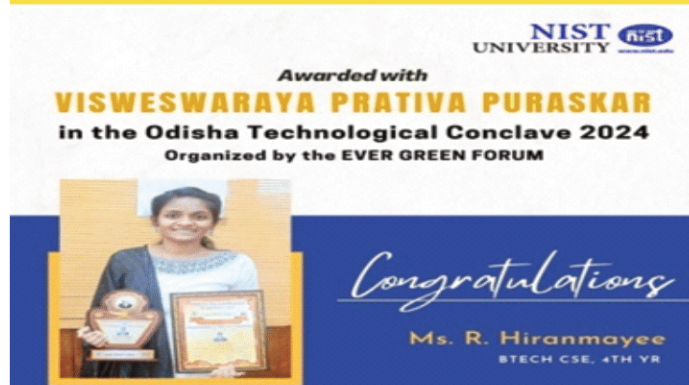
Insights from a Visionary Leader: Dr. Keshab Panda



Dr. Keshab Panda, a distinguished Non-Executive Director at L&T Technology Services and Senior Advisor for PE & Startups, recently visited NIST University, engaging with faculty members to share his profound industry insights. With an illustrious career spanning over 31 years, A prominent figure in industry forums such as NASSCOM, CII, and the Indo-American Chamber of Commerce, his visit underscored the value of collaboration in driving technological and entrepreneurial advancements.

STUDENT SUCESS STORY

Ms R Hiranmayee Wins VISWESWARAYA PRATIVA AWARD



NIST University congratulates R Hiranmayee, a B.Tech final year student in Computer Science & Engineering, for receiving the prestigious "VISWESWARAYA PRATIVA AWARD" at the Odisha Technological Conclave 2024. Presented by the EVER GREEN FORUM during the Engineers' Day 2024 celebrations, this award honors her exceptional achievement in academic. Hiranmayee's achievement highlights her dedication and hard work, bringing pride to the NIST community and reinforcing the university's commitment towards academic excellence.

Ms Kamakshi Brahma Selected for Odisha's MRIP Research Fellowship Program



Congratulations to Ms. Kamakshi Brahma, a distinguished alumna of the Department of Physics at NIST University, for her remarkable achievement of being selected for the prestigious Mukhyamantri Research & Innovation Fellowship Program (MRIP) by the Government of Odisha, recognizing her exceptional dedication to research and innovation. Currently She is working as a Project

Associate in the "Novel Material Research Laboratory", Department of Physics. Kamakshi achieved third rank in Material Science across the state. Her dedication and hard work reflect the high standards of academic and research excellence at NIST University. We wish her continued success!

NIST Students Published Research Paper at International Conference



Heartiest congratulations to Mr. Swarup Mohapatra and Mr. Sitaram Nayak, final-year BTech students at NIST University, on successfully completing a prestigious summer research internship at NIT Rourkela. Their dedication and hard work during this internship culminated in the publication of a groundbreaking research paper titled 'A Fragmentation and Crosstalk-aware RMSCA Framework for SDM-EONs.' This significant work was presented at the 24th International Conference on Transparent Optical Networks, held in Italy, showcasing their talent on an international platform.

The paper delves into innovative approaches to tackling critical challenges in optical networks, representing a significant contribution to the evolving field of optical communication technologies. Published in the prestigious IEEE Xplore digital library, this achievement underscores the authors' exceptional academic prowess and dedication to advancing scientific knowledge. It also reflects the thriving research culture and intellectual curiosity nurtured at NIST University. We take immense pride in their accomplishment and extend our heartfelt wishes for their continued success and impactful contributions to the scientific community.

LITERATURE, ART & PHOTOGRAPHY

Literature

Poetry

Celestial Encounter

I can't define her, or maybe never, Saw a girl in town, looking prettier than ever. For a while, I blinked and whispered, "Damn, is this really earth or heaven either!"

Beautifully crafted by God's hand, Eyes shinier and broad, a masterpiece so grand. Lost in the desert, falling and crawling around, A vision of beauty, in awe, I found.

The cool breeze I felt in the month of November, Was not like the same; we felt in past Decembers, I remember. Her dancing barefoot in a maroon frock, Perfect around the clock, like a masterpiece on the block

Bending down beside the glowing bars, Striving for her, like chasing distant stars. As every night comes to an end, She walked down the streets, a mysterious blend.

And hid her face amid a crowd of stars, I was lost in the desert, following her from afar. Love at first sight is not a myth, Anymore, as her presence was a divine gift.

Swayam Subham Tarini
BTech,CSE 4th year

LITERATURE, ART & PHOTOGRAPHY

Art & Photography



ALUMNI SPEAK



Mr. Prabhat Kumar Tripathy is a skilled dancer, choreographer, and YouTube influencer with 15k Instagram and 3k YouTube followers. Excelling in popping, locking, Hip-Hop, and Bollywood, he has won accolades like Best of Berhampur Season 3, IIT Kharagpur Tech Fest, IIIT Bhubaneswar Dance Delight, and more. A Dance India Dance Season 2 Top 50 finalist, he has trained with international artists. Professionally, he is an IT Analyst at TCS, Pune, and a NIST topper, blending creativity with technical expertise.

NIST Chronicle proudly presents this inspiring interview with Mr. Prabhat Kumar Tripathy, showcasing his remarkable journey and cherished campus memories.

Mr. Prabhat Kumar Tripathy
Batch - 2013
M. Tech (Computer Science & Engineering)
Current Engagement: Technology Lead
(Tata Consultancy Service)
Home Town: Berhampur, Ganjam, Odisha

NIST Chronicle (NC): What is your story related to joining NIST?

PKT: A dream comes true.

NC: What is one remarkable memory with friends that you made while you were at NIST?

PKT: I was selected as Sankalp Coordinator in dance and was a topper of my batch.

NC: Do you recall any location at NIST reminds you of getting motivated or changing your course of action?

PKT: Yoga center

You must be remembering your teachers. Who were the key influencers and why?

PKT: Shom P Das, Debanand Kanhar, Bhawani Patnaik

What are your college friends doing now a days? Are you in touch with them?

PKT: Some are in IT, some into business

NC: What is your take on earning? Desk job, field job, research, entrepreneurship, or even free loading: what works best?

PKT: Depends on our expertise and interest

NC: Any message that you would like to give to the new students.

PKT: Keep it simple, follow your dreams along with passion

NC: If a student of +2 or high school would seek your advice on making a career, what would be your advice? Or may be you would like to give them a mantra or a few thumb rules. Anything?

PKT: Follow your gut feeling and prioritize your instincts

NC: Lets, say we have invented time machine. And you have been authorized to do a time travel (round trip) once. What would be that, which you would like to change if possible?

PKT: Not sure but i want some more time at NIST with my friends



Prabhat Kumar Tripathy

nist Chronicle

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