



MILLET MISSION



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MESSAGE FROM THE FOUNDER CHAIRMAN



I do appreciate NIST Chronicle team members' diligence and dedication to regularly publishing the eNews with the latest happening at NIST and focusing on key articles relevant to the 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: "*Millet Mission: Reviving Millet in Farm and Plates*". This article is very timely and aligns with the Millet Mission of our country. The year 2023 has also been declared as the "International Year of Millet" by the United Nations.

As many of you know, millet are small-seed cereal comprising various varieties like Jowar, Bajra, Ragi, and Cheena etc. Millets are known for their immense nutritional benefits and are rich in protein, vitamin B complex, fibre and minerals like iron, calcium, potassium, magnesium, and manganese etc. Millets are also healthier alternatives to rice and wheat, as these are gluten-free, have high fibre and contain low glycemic index. Thus it helps keep blood sugar levels steady and also lower diabetes symptoms. Millets are rich in antioxidants, which protect our cells from free radicals. The disadvantage is that they contain phytic acid which is an anti-nutrient that could reduce the absorption of other nutrients. But these disadvantages could be mitigated by soaking, sprouting or fermenting the millets which will break down the anti-nutrient and reduce its negative effects.

On Farm: Millets are incredibly resilient to harsh environmental conditions, making them a crucial

food source in regions with limited water resources. They require far less water than traditional grains like rice and wheat. Several innovations in research and development and the use of technology have been adopted for enhancing millet production and, the development of high-yielding varieties and value-added products from millets.

On Plates: You can enjoy millets as a breakfast porridge, side dish, salad, and cookie or cake ingredient. Millets are not only available as a whole grain but also a flour. Millet porridge is a traditional food in Russian, German, and Chinese cuisine.

Millets were an integral part of Indian diets, but have been almost forgotten due to various demand and supply challenges. Demand side factors include changes in consumer taste, lack of traditional knowledge to prepare millets-based recipes, lower shelf life of milled grains, and mainstreaming of rice and wheat over time. The supply-side issues include a weak value chain in production, processing of millets, lack of industrial demand for value-added millet products, low profitability, and inadequate research to improve production etc. However, there have been various initiatives (including specific missions at the state level) to promote and revive the production of millets. This will enable an increase in millet production and consumption benefitting from its nutritional value as well as having value-added product based on millet.

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

Dr. Sukant K. Mohapatra

MESSAGE FROM THE PRINCIPAL



It is a great pleasure and honour for me to serve as the Principal of NIST. NIST Institute of Science and Technology was established in 1996 to make it as a centre of academic excellence and research on par with international universities.

Today, NIST positioned itself as one of the top-ranked institutes in Odisha. NIST is committed to creating an ambience for nurturing innovation, creativity and entrepreneurship to its students. We at NIST, strongly support interdisciplinary projects and their development through MOU with prestigious institutes like National Taiwan University, University of Electro

Communication, Japan and New Jersey Institute of Technology. We emphasize on developing holistic leadership skills through the exhaustive support of professional societies like IEEE.

We are proud to say that NIST is placed to exploit the synergy between faculty and students for the development of technology to the benefit of industry and society. We are confident that all our efforts will grow into significant epitomes of achievements in the larger academic parlance. On a last note, I request all of us to re-dedicate ourselves to make NIST as one of the best academic destinations in Odisha state.

P. Rajesh Kumar

Dr. P. Rajesh Kumar

MESSAGE FROM THE ADVISOR

Rapid Development also brings with it random challenges. Often in the rat race of life, while trying to keep pace with the changing world outside we tend to ignore our self and focus more on the outer environment. The result: We get engulfed with mental health hazards. These hazards slowly affect adversely every aspect of our lives. Today, more than ever, the changes around us are so disrupting and demanding that most of us find it very challenging to cope with. Nevertheless, we must be strong enough to confront these challenges efficiently. It needs a lot of emotional strength to keep our mental health, which is so crucial for our survival.

Eating the right food is the secret to a healthy mind and heart. Diet and Nutrition affect mental well-being. Healthy nutrition is the foundation of a healthy lifestyle.

Indian kitchens have evolved a lot in recent years but at the same time have proudly gone back to their roots. Even while relishing our staples like rice and wheat, We

discover what our ancestors ate - millets. We have become very millet-aware in the last few years and suddenly these bland, gluten-free whole grains found their place back in our kitchen shelves.

The youth today must realise the value and significance of Eat Healthy; Think Better. They should realise that it is more than just satisfying the desire of the palate. Stay Healthy; Stay Stronger.

Happy Reading!!!



Sabyasachi Rath

Dr. Sabyasachi Rath

LETTER FROM CHIEF EDITOR

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MILLET MISSION:

In the face of escalating environmental challenges, our Millet Mission Issue is a call to revive millets on both farms and plates, advocating for their role in addressing global issues such as water scarcity, climate change, and food security. Millets, small-seeded grasses with a rich history as human consumption staples, stand out as an eco-friendly choice due to their lower water footprint compared to traditional grains.

Millets' adaptability to arid conditions and resilience to environmental stresses make them a resilient crop for farmers grappling with climate change impacts. Their minimal input requirements, resistance to diseases, and low reliance on synthetic fertilizers position millets as an ideal choice for small-scale family farmers, contributing not only to food security but also to economic well-being.

Considered "nutri-cereals," millets boast essential nutrients such as iron, calcium, protein, antioxidants, and dietary fibre. With a low glycemic index and gluten-free nature, millets offer diverse, nutritious options for health-conscious consumers. While millets have a deep-rooted history in Sub-Saharan Africa and Asia, recent global initiatives, including the declaration of "2023 as the International Year of Millets," signify a positive shift in awareness and consumption.

Millets emerge as an environmental champion, addressing critical issues such as water scarcity, resistance to pests, and soil health improvement. In India, where water scarcity is a pressing challenge, millets demonstrate their potential by requiring 70-80% less water than popular crops like wheat and rice. Their natural resistance to pests positions them as a key player in promoting organic agriculture and fostering a healthier environment.

The positive impact of millets extends to achieving Sustainable Development Goals (SDGs) set by United Nations (UN), particularly SDG 2 (Zero hunger), SDG 3 (Good health and well-being), SDG 12 (Sustainable consumption and production), and SDG 13 (Climate action). Millets offer a holistic approach to addressing global challenges while providing economic benefits to farmers.

In conclusion, millets represent a holistic package, offering nutritional density, environmental sustainability, and economic benefits. As global awareness continues to rise, concerted efforts are needed to propel millets into the mainstream. Embracing millets is a proactive step toward a brighter future for agriculture, nutrition, and the environment, heralding a sustainable, nutritious, and resilient global food landscape.



FEATURE STORY

Reviving Millets: Sustainable Nutrition For a Healthier Planet And Future

In the midst of the global push for sustainability and healthy living, the humble millet is making a strong comeback. Once a staple in traditional diets, millets are now being recognized for their numerous benefits, both for personal health and the environment. This ancient grain has the potential to transform rural economies and promote environmental sustainability, making it a crucial component in the fight against climate change and poverty. Millets are highly nutritious, offering a rich source of essential nutrients such as iron, calcium, and dietary fiber. Unlike modern high-yield crops, they are gluten-free and have a low glycemic index, making them suitable for people with dietary restrictions and those managing diabetes. Their resilience to harsh climates and minimal water requirements make millets an ideal crop in an era where water scarcity is becoming a pressing issue.

Environmentally, millets are a boon. They require significantly less water compared to rice and wheat, and they thrive without the need for chemical fertilizers or pesticides. This reduces the carbon footprint of agriculture and minimizes soil

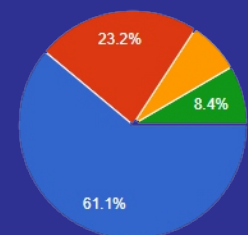
degradation, fostering healthier ecosystems. Additionally, millets can grow in poor soil conditions, which makes them perfect for arid and semi-arid regions, often home to some of the world's poorest farmers. Reviving millet cultivation can stimulate rural economies, particularly benefiting smallholder and tribal farmers. By promoting millet farming, we can provide these farmers with a stable income source and enhance food security in vulnerable regions. This can lead to improved living standards and reduce rural poverty, creating a positive cycle of economic growth and sustainability.

To better understand the perspective of young people on this issue, we conducted a survey among students. We asked them, "How strongly do you believe that the consumption of millets not only improves our health condition but will also enhance the sustainability and health of Mother Earth, contributing to the financial well-being of poor tribal farmers? The results were overwhelmingly positive, with a majority of students expressing strong support for the revival of millets. They recognized the dual benefits of health improvement and environmental sustainability, along with the socio-economic upliftment of rural communities. This response indicates a promising future for millet consumption, driven by a generation increasingly aware of their dietary choices' impact on the world.

STUDENT SURVEY

How strongly do you believe that the consumption of millets not only improves our health condition but will also enhance the sustainability and health of Mother Earth, contributing to the financial well-being of poor tribal farmers?

- **Strongly Agree:** Millets are a holistic solution, benefiting health, sustainability, and the economic empowerment of tribal farmers.
- **Agree:** I believe in the positive impact of millet consumption on health, sustainability, and the financial condition of tribal farmers.
- **Neutral:** I am unsure about the extent to which millet consumption can contribute to health, sustainability, and the financial condition of tribal farmers
- **Disagree:** I have doubts about the potential of millet consumption to significantly impact health, sustainability, and the financial condition of tribal farmers



FEATURE STORY

A CONVERSATION WITH MRS. KALPANA PRADHAN SCHEME OFFICER, ODISHA MILLETS MISSION

Mrs. Kalpana Pradhan is a dedicated professional with a rich background in agriculture. She graduated from Odisha University of Agriculture and Technology (OUAT) with a B.Sc. in Agriculture in 2011. Commencing her journey in the Department of Agriculture & Farmers' Empowerment in 2013 as an Assistant Agriculture Officer, Mrs. Pradhan has consistently demonstrated her commitment to agricultural development.

Since 2020, she has played a pivotal role as the Scheme Officer for the Odisha Millets Mission. Her contributions have been instrumental in the successful implementation of the Government of Odisha's Millet Mission, by showcasing her expertise and leadership at the Directorate of Agriculture & Food Production, Odisha, Bhubaneswar.



Mrs. Kalpana Pradhan
Scheme Officer, Odisha Millet Mission

The NIST Chronicle team had the privilege of engaging in a conversation with Mrs. Kalpana Pradhan concerning the necessity, commencement, and execution of the government's ambitious project, Millet Mission: Reviving millet in farms and on plates. She generously shared her insights and experiences for our readers.

NIST Chronicle (NC): What are the primary objectives of the Millet Mission, and how does the government envision the revival of millet in both farming practices and as a dietary staple?

Mrs. Kalpana Pradhan (KP): The Odisha Millets Mission embodies a comprehensive and

ambitious strategy to revolutionize the cultivation, consumption, and cultural significance of millets in the region. The mission sets out to achieve a significant 25% increase in household millet consumption compared to the baseline, fostering a shift towards healthier dietary choices. At the core of this initiative is the revalorization of millet-based food cultures, transcending both urban and rural landscapes. The mission places a strong emphasis on preserving and celebrating traditional practices, thereby ensuring the cultural heritage associated with millets remains vibrant and integral to the community.

NC: Can you elaborate on the specific policies and strategies that the government is planning to implement to achieve the goals of the Millet Mission?

KP: The government has implemented a range of policies and strategies to advance its objectives in the agricultural sector. Firstly, a notable initiative involves a five-year incentive support program designed to encourage improved organic agronomic practices. Additionally, the government is leveraging Farmer Producer Organizations

(FPOs) to extend services, including the establishment of customer hiring centers including the establishment of customer hiring centers, seed centers, and the creation of enterprises through women's Self Help Groups (SHGs). Another pivotal aspect is the promotion of indigenous seeds, emphasizing their conservation, purification, selection, and multiplication. Furthermore, the government has eased the requirements for participation in demonstration programs by making Land Record/Patta non-mandatory, streamlining the process for farmers to avail program benefits. Collaborative efforts with a designated NGO partner at the block level aim to provide comprehensive knowledge and support to farmers. Lastly, the program is implemented at the block level through a community-based organization, reinforcing a grassroots approach for effective and widespread impact.

NC: Are there any plans for research and development initiatives to improve millet cultivation techniques, enhance crop yields, and address potential challenges in the production process?

KP: Yes, there is collaboration with ICAR-IIMR for carrying out the research and development aspects on Millets.

FEATURE STORY

NC: How does the government intend to integrate millet into mainstream markets, and what steps are being taken to promote millet-based products among consumers?

KP: The Odisha Millets Mission (OMM) has taken several steps to make millets mainstream:

Millets have been included in Integrated Child Development Services (ICDS) and the Public Distribution System (PDS) to encourage increased production. This integration aims to promote the consumption of millets and improve agricultural productivity. The OMM has focused on promoting millets through various means, such as introducing millet ladoos in Anganwadis, facilitating the export of millets and millet-based products, and supporting indigenous festivals to revitalize the demand for millets. Similarly, the following steps have been taken under the Odisha Millets Mission to promote millet-based products among consumers: The Odisha Millets Mission has organized training sessions on millet-based recipes and cooking competitions. Govt. of Odisha has organized food festivals at both district and state levels, millet-based food-tasting events at schools, hospitals and various other public places to promote millet-based products.

NC: What measures are in place to raise awareness among the public about the nutritional benefits of including millets in their diet?

KP: The Odisha Millet Mission (OMM) has taken several measures to raise awareness among the public about the nutritional benefits of including millets in their diet. Govt. of Odisha promote millet foods and raise awareness among the public about the nutritional benefits of millets as below:

Millet Shakti has strategically positioned canopy stalls in hotels, restaurants, jails, parks, and sports campuses, as well as at various Melas and Fairs. Promotional events are organized in malls located in district and state headquarters. Collaborative efforts have been

established with schools to conduct millet-themed quizzes, debates, tasting events, and more. Millet tasting and sale points have been set up in housing colonies and societies. The initiative extends its reach through the opening of Millet Shakti cafes, outlets, kiosks, and tiffin centers across Odisha. Moreover, the Odisha Millet Mission (OMM) has played a crucial role in empowering women by providing training in recipe formulation, packaging, quality control, marketing, and other essential skills. As a result, women are now actively participating in various aspects of the millet industry. The establishment of Millet Shakti Cafes, Tiffin Centres, and Outlets in diverse districts showcases a rich array of millet-based food items, contributing to the broader promotion and acceptance of millets in the region.

NC: Are there plans to involve private sector entities in the Millet Mission and how will such partnerships contribute to the overall success of the initiative?

KP: Many private players are interested in collaborating with Odisha Millets Mission. Private players like ITC, Reliance Retail, Reliance Fresh, Nashik Millet Association, Milk Mantra and Big Basket are collaborating with OMM for marketing of different millet-based products. We are also collaborating with many e-commerce companies like Amazon and Flipkart to place our products online. Apart from this many private institutes are there who are doing research activities, Nutritional profiling etc to contribute towards the success of OMM.

NC: In what ways does the Millet Mission address environmental

sustainability, considering millets are often considered more resilient to certain climatic conditions?

KP: In the past years, overall monsoon rainfall has decreased, with variability in rainfall, rise in temperature along with drought. Millets come as a climate resilient crop which is a group of small, seeded grasses that are cultivated in dry and semi-arid regions of the world. They are climate reliant due to their ability to tolerate extreme weather conditions, including drought, heat and flood. Another reason is their ability to fix nitrogen from the air which reduces the need for synthetic fertilizers. Synthetic fertilizers are a major contributor to greenhouse gas emissions, and the use of millets can help reduce the carbon footprint of agriculture. Millets are also a highly nutritious food source, rich in fibre, protein and essential vitamins and minerals. They are a good source of iron, zinc and B vitamins, making them an important dietary staple for many people around the world. As the world faces the challenges of climate change, the cultivation of millets may play an important role in promoting sustainable agriculture practices and ensuring food security for communities around the world.

NC: How does the government plan to monitor the progress of the Millet Mission, and what key performance indicators will be used to evaluate its success?

KP: Ground-level implementation of the program is done by facilitating agencies, which are local NGOs, familiar with agricultural practices and the communities. Collaboration with Mission Shakti Department, the objectives of OMM are being fulfilled by establishing millets enterprises, by providing

FEATURE STORY

training and fund support which help them empower and generate income. SHGs are also responsible for the community seed centers and customer hiring centers. Further, Mission Shakti Tiffin Centre, Millets on Wheel, Mission Shakti Outlets and Cafes, Convergence has also been undertaken with the Department of Women and Child Development for including millets in the Supplementary Nutrition Program and with the School & Mass Education Department for Mid-Day Meal, Convergence with the Food Supply and Consumer Welfare Department is taking place to supply millets in PDS. Tribal Development Cooperative Corporation of Odisha Limited (TDCCOL) manages procurement.

First phase of Odisha Millets Mission was evaluated in the post project period by Nabakrushna Choudhury Center for Development Studies (NCDS), the research partner for the program and a midterm evaluation study was submitted to the government in December of 2021. The report states that significant improvements are happening in increasing the income of farmers, yield and area of cultivation. During the pre-project situation, the amount of production of Ragi per farmer and per acre was at 1.7 and 2.6 quintals respectively,. And, during the post-project situation, the amount of production per farmer and per acre is improved to 5.6 and 6.0 quintals respectively. Average area in hectare per farmer household increased from 0.42 hectare to 0.60 hectare per household from 2018-19 to 2020-21 and the study shows recorded



215% increase in gross value of millet produced per farmer household from Rs 3,957 in 2016-17 to Rs 12,486 in 2018-19. The key component of the program is incentive structure that encourage farmers who follow the recommended practice are provided a conditional cash transfer, for which major fallow land convert to millet production areas year by year.

NC: What challenges does the government anticipate in implementing the Millet Mission, and what measures are in place to address and mitigate these challenges?

KP: Witnessing successful overcoming of issues and challenges in implementing the millets mission at different times and locations is attributed to timely state government support, effective collaboration between knowledge and implementation partners, and proactive measures taken at all levels. The Odisha Millet Mission (OMM) strategically addresses major challenges faced by field partners at the field level. The mission unfolds a comprehensive strategy, introducing a unique 5-year

incentive support system through Direct Benefit Transfer (DBT). This system offers Rs 26,500 per hectare for millet cultivation, prioritizing small and marginal farmers in rainfed areas. Notably, the initiative extends incentives to cultivators, including tenants, without the requirement of land ownership. OMM's proactive and collaborative approach reflects its commitment to overcoming challenges and ensuring the success of the millets mission.



FOUNDATION DAY

In the symphony of time, where every note carries the essence of beginnings, NIST University's Foundation Day emerges as a harmonious celebration. It stands as an ode to the visionaries who sculpted the institution's destiny, creating a foundation that reverberates through the corridors of academic excellence. Each passing year marks a convergence of the past, present, and future, fostering a commitment to elevate NIST to unparalleled heights.

On this sacred day, heartfelt gratitude extends to the luminaries who envisioned NIST's remarkable journey. The founders, architects of our intellectual haven, planted seeds of wisdom that blossomed into towering trees of knowledge. The dedicated teachers, steadfast companions since inception, have shaped not only scholars but also well-rounded individuals. NIST's legacy transcends academic brilliance, serving as a testament to holistic education—a guiding light for those on the path of enlightenment.

The 27th Foundation Day unfolded on September 18th, etching a memorable entry into NIST's chronicle. The campus transformed into a kaleidoscope of events — club festivities, student presentations, and a grand meeting with esteemed guests. Shri Bikram Kumar Panda, a luminary in the political realm, and academic stalwarts Professor Gitanjali Das and Professor Amiya Kumar Rath graced the occasion. Their resonant voices echoed in seminars and workshops, illuminating the path of knowledge and innovation. The day culminated in a spectacle of cultural events, academic accolades, and a sumptuous dinner, meticulously orchestrated by Vice-principal Prof. Bishnu Kar Nayak & his dedicated team.

In the twilight of Foundation Day, let the poetic verses echo in the hearts of the NIST fraternity, inspiring a bright future, heralding the ascent of NIST to unparalleled heights—a true celebration of knowledge, growth, and the undying spirit of academia.



FOUNDATION DAY

2023 AWARDS

27th FOUNDATION DAY



DISTINGUISHED ALUMNI
2023
DR. PARTHAJIT MOHAPATRA
(1999-2003 Batch)

STAR ALUMNI
2023



Asish Ranjan Subudhi
(1996-2000 Batch)



K Venketswar Reddy
(2007-11 Batch)



Rashmirekha Kalyani Mishra
(2014-18 Batch)

STAR ALUMNI AWARD

B.Tech

Gold

Pass out Year 2021-22

- AYUSH JENA (CE)

Silver

Pass out Year 2021-22

- PIYUSH KUMAR PRADHAN (IT)
- AKSHAT KUMAR (CSE)
- ASUTOSH PATNAIK (ECE)
- PRATYUSH KUMAR CHOUDHURY (ME)
- SUMANJIT PATTANAYAK (EEE)
- SAURAV RAJ (EE)

MBA

Gold

Pass out Year 2021-22

- P VYJAYANTI

M.Tech

Gold

Pass out Year 2021-22

- BAISHNOBI DASH

M.Sc

Gold

Pass out Year 2021-22

- AMAN KUMAR MAHARANA (Math)

Silver

Pass out Year 2021-22

- MONALISHA SAHU (Chemistry)
- ANURADHA PANDA (Physics)

B. Com

Gold

Pass out Year 2020-21

- SUBHRANSU PATNAIK (Commerce)

Pass out Year 2021-22

- AMAN PARIDA (Commerce)

MCA

Gold

Pass out Year 2021-22

- KOUSIK DAS
- B ALOK PATRO

FOUNDATION DAY

MESSAGE FROM ORGANIZING HEAD

On the enchanting day of September 18, 2023, the NIST Institute of Science and Technology orchestrated a symphony of jubilation and achievement to commemorate its 27th Foundation Day. The campus came alive with a blend of erudition, inspiration, and cultural richness, creating an unforgettable tapestry of celebration.

The inaugural ceremony unfolded with grace and grandeur, graced by notable figures such as Shri Bikram Kumar Panda, Hon'ble MLA, Berhampur, Prof Amiya Kumar Rath, Hon'ble Vice Chancellor, BPUT Rourkela, and Prof Geetanjali Dash, Hon'ble Vice Chancellor, Berhampur University. Their august presence bestowed a distinctive aura upon the event, commending the college's tireless endeavors and emphasizing the pivotal role of science, management, and technical education in shaping the nation's destiny.

Dr. Sukanta K. Mohapatra, the visionary founder and chairman of NIST, added to the celebration with his presence, acknowledging the institution's journey of academic achievements and holistic development. His visionary leadership has been a guiding force, steering NIST towards excellence. The inaugural ceremony served as a fitting tribute to the foundation that has paved the way for NIST's remarkable journey, celebrating its rich legacy and offering a glimpse into its promising future.

The heart of the exhibition showcased products and prototypes resulting from groundbreaking research and innovation nurtured within NIST's corridors. It underscored NIST's commitment to staying at the forefront of technological advancements, providing a panoramic view of the institution's active role in driving transformative ideas. The exhibition also highlighted strategic collaborations with startups and industries, displaying successful partnerships and collaborative projects. The "NIST Legacy: Now and Future" exhibition was a visual narrative of NIST's commitment to excellence, innovation, and holistic development, setting the stage for an exciting future where knowledge meets innovation. The distinguished lecture series featured renowned personalities, and an alumni meet, themed "Connect with Alma Mater," brought together over 100 esteemed alumni. The illustrious day concluded with a resplendent award ceremony, acknowledging excellence within the NIST community, and a Cultural Extravaganza that celebrated the cultural identity of NIST, promising a return in 2024 and signaling the anticipation of more accomplishments and milestones. The event wasn't just a conclusion but a prelude to the ongoing journey of excellence, unity, and cultural vibrancy that defines the spirit of NIST.



Dr. Bishnukar Nayak

Associate Professor, Department of Mathematics
Organising Head: Foundation Day Celebration Committee



WELCOME TO NEW FACES OF THE NIST FAMILY

Dr. Ratnakar Mishra



**Professor & Head
(Dept. of Management Studies)**

Dr. Ratnakar Mishra is a distinguished faculty member in the MBA department, serving as Professor and Head of the Department. With a Ph.D. in Human Rights perspectives of Industrial displacements from Berhampur University, Odisha (awarded in 2011), Dr. Mishra brings a wealth of knowledge cultivated through 25 years of combined industry and teaching experience. His master's degree in MBA from Devi Ahilya University, Indore, focused on Training needs analysis of Grindwell Norton Ltd, Mumbai.

Dr. Mishra's field of interest lies in Organizational Behavior (OB) and Human Resource Management (HRM). Notably, he holds the prestigious title of Accredited Management Teacher from AIMA, New Delhi.

Dr. Soumya Basu



**Assistant Professor
(Biotechnology)**

Dr. Soumya Basu, Assistant Professor in Biotechnology, holds a Ph.D. from VIT (2023). His research delves into genomics and structural bioinformatics, focusing on antimicrobial drugs and multi-drug resistant bacterial pathogens. With

resistant bacterial pathogens. With a Master's from Utkal University, he explored curcumin and ellagic acid synergy in TLR4/MyD88 response in human cervical carcinoma cells. Dr. Basu's diverse experience includes roles at VIT, Christian Medical College, and expertise in Antimicrobial Resistance, Microbial Genomics, Drug Design, Infectious Diseases, and Microbial Bioprocessing. Achievements encompass top honors in international conferences, plus prestigious research assistantships and fellowships from ICMR, ICFRE,

Dr. Lalit Kumar Behera



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

Dr. Lalit Kumar Behera, an Assistant Professor in the Computer Science & Engineering Department, holds a Ph.D. from Berhampur University. His Master's in Information Technology from Utkal University involved a project on the application of QCAR method for polyherbal drug design using Genetic algorithms, completed in 2013. With over 15 years of experience in both industry and teaching, his expertise spans Soft Computing, Data Mining, Artificial Intelligence, Machine Learning, and Deep Learning. Dr. Behera's commitment to research is evident through notable achievements, including published papers and participation in conferences. Notably, his recent publications explore topics like deep learning for pneumonia detection and explainable AI in designing

engages in continuous learning, attending national faculty development programs and contributing to the academic community.

Dr. Sunil Kumar Nahak



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

Dr. Sunil Kumar Nahak is an esteemed member of our Computer Science and Engineering Department, serving as an Assistant Professor. He obtained his Ph.D. in 2021 from Berhampur University, specializing in the development of test strategies for Service Oriented Systems. Dr. Nahak holds a Master's degree in Computer Science from Berhampur University, where he completed his Master's Project on Role-Based Access Control System in 2008. With a remarkable 18 years of combined industry and teaching experience, his expertise lies in the fields of Machine Learning and IoT. Dr. Nahak's dedication to research and his contributions to academia make him an invaluable asset to our college community.

Dr. Sujith A.



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

WELCOME TO NEW FACES OF THE NIST FAMILY

Dr. Sujith A., Assistant Professor in Computer Science and Engineering, earned his Ph.D. in 2023 from the University of Kerala, specializing in "Knowledge Based Approaches for Plant Analysis Using Digital Images." He completed his MCA in 2010 at V.M.K.V Engineering College, Salem. With 5 years of teaching experience, his expertise spans Image Processing, Machine Learning, Explainable AI (XAI), and Bioinformatics. Dr. Sujith holds additional qualifications, including an MBA, MPhil, SET(TN), and UGC NET. In 2023, he received the InSc Young Researcher Award and has authored four publications, including two in Scopus, one in SCIE, and another in the UGC care List. He has also presented a poster and contributed a Popular Science Article.

Dr. Soumitra Chowdhury



Assistant Professor (Mathematics)

Dr. Soumitra Chowdhury, Assistant Professor in the Department of Mathematics, is a dedicated educator with a Ph.D. in Theoretical Seismology expected in 2024 from IIT (ISM) Dhanbad. He also holds a Master's degree in Mathematics from the same institute, where his Master's Project delved into the realm of Theoretical Seismology, completed in 2016. Despite having limited industry experience, Mr. Chowdhury brings over two years of teaching expertise to our institution. His profound interest lies in Applied Mathematics, Solid

Solid Mechanics, and Theoretical Seismology, showcasing a passion for exploring mathematical principles in practical applications.

Dr. Ayesha Tasnim



Assistant Professor (Dept. of English)

Dr. Ayesha Tasnim is an Assistant Professor in the Department of English at our institute. She earned her Ph.D. in 2022 from Berhampur University, Odisha, focusing on the female protagonists in the writings of Shashi Deshpande, Anita Desai, and Shobhaa De. Her master's degree in English from Utkal University, Bhubaneswar, Odisha, was completed in 2007, with a project on the dynamics between men and women in Tennessee Williams' "A Street Car Named Desire." With thirteen years of teaching experience in both U.G and P.G courses, Dr. Tasnim's expertise spans Indian Feminism, Postcolonial Feminism, Feminist Criticism, American Literature, Poetry, Soft Skills and Creative writing.

Dr. L. Ponoop Prasad Patro



Assistant Professor (Biotechnology)

Dr. L. Ponoop Prasad Patro, Assistant Professor in Biotechnology, earned his Ph.D. in 2022 from IIT Hyderabad, focusing on characterizing global pathogens and developing web tools for biomacromolecular modeling. His 2016 Master's degree from the same institute explored computational tools for biomolecular analysis. With interests in Bioinformatics, Microbial genomics, and Molecular basis of diseases, Patro received the "BIRAC-SRISTI GYTI appreciation award (MLM)-2018" for 3D-NuS development. He's a two-time recipient of the "Excellence in Research" Award at IIT Hyderabad (2018 and 2022), and he qualified GATE 2014.

Mr. Ravi Singh



Assistant Professor (Dept. of Computer Science and Engg.)

Mr. Ravi Singh is an Assistant Professor in the Dept. of Computer Science and Engineering. Mr. Singh holds a Master's degree in Computer Science and Engineering from Pondicherry University, completed in 2023, with a thesis on "Accessibility Evaluation of Multilingual Websites." His current field of interest is Machine Learning applied to healthcare. Mr. Singh has no prior industry experience but has shown dedication to academia.



WELCOME TO NEW FACES OF THE NIST FAMILY

Ms. Barsha Rani Khadanga



Lab Instructor
(Computer Science & Engineering)

Ms. Barsha Rani Khadanga, a diligent Lab Assistant in the Computer Science and Engineering Department, holds a Master's degree in Computer Applications from Roland Institution of Technology, specializing in her Master's project on the innovative topic of Biometric Voting System, completed in 2023. Despite being a fresher in both industry and teaching, her enthusiasm and commitment make her a valuable addition to the academic environment.

Ms. Pritirani Pradhan



Lab Instructor
(Computer Science & Engineering)

Ms. Pritirani Pradhan, an accomplished Lab Instructor in the Computer Science and Engineering department. Pritirani earned her Master's degree in Computer Applications from Roland Institute of Technology, specializing in her Master's project on the innovative topic of Online Passport System, completed in 2023. While she may be a fresher in both industry and teaching, Pritirani's keen interest lies in the realm of education

, making her a dedicated professional ready to impart knowledge and contribute to the academic growth of the institution.

Mr. Dhaneshwar Nanda



Lab Instructor
(Mechanical Engineering)

Mr. Dhaneshwar Nanda, Lab Assistant in the Mechanical Department, holds a Diploma in Engineering. Although a fresher, he exhibits a keen interest in the mechanical workshop, contributing valuable insights to our academic environment.



INNOVATION & RESEARCH FRONTIER

PATENT PUBLISHED

- **Prof. Alok Patra, Dr. Souren Misra and Prof. Santosh Kumar Panda** faculties of Dept. of Mechanical Engineering have published a research article entitled “Heat transfer and Psychometric analysis of a counter flow wet cooling tower” in the Journal of Heat Transfer Research in 2023. The researchers are. Alok Patra, Souren Misra and Santosh Kumar Panda.
- **Dr. Aswini Kumar Khuntia, Dr. Souren Misra, Prof. Alok Patra, Prof. Santosh Kumar Panda**, Faculties, Dept. of Mechanical Engineering have published a research article entitled “Determination of pressure drop through a circular orifice for two- phase flow with Machine learning technique” , in the Journal of Flow Measurement and Instrumentation with vol. 9 and pp. 102478 in Oct. 2023. The authors are Dr. Aswini Kumar Khuntia, Dr. Souren Misra, Prof. Alok Patra, Prof. Santosh Kumar Panda.
- **Dr. B. Sambhi Reddy**, Associate Professor, Department of Mechanical Engineering has published a research article entitled “Study the consequence of raster angle on the charpy Impact strength of fdp 3d printed polylactic acid” in Journal of Industrial Engineering, vol 52, pp. 7-15, in 21 Dec. 2023.
- **Dr. Deepak Acharya**, Asst.Prof, and **Dr. Subrata Kumar Sahu**, Associate Professor, Dept. of Mathematics, have published a research article entitled “On Generalized Riesz Summability of Factored Fourier Series” in the Journal of Classical Analysis vol. 21, pp. 187-191, in Oct.2023. The authors are Deepak Acharya, Subrata Kumar Sahu, Purna Chandra Nayak And Umakanta Misra.
- **Prof. Manjushree Nayak**, faculties of Computer Science has published a research article entitled “Smart Energy Efficient Techniques for IOT Enabled Wireless Node” in the Journal of Theoretical and Applied Information Technology, HBRB Publication, vol. 101, no. 18, pp.7331-7346, in Sept. 2023. The researchers are Sangam Malla, Prabhat Kumar Sahu, Srikanta Patnaik, Manjushree Nayak.
- **Dr. Murthy Cherukuri** Professor, Dept. of Electrical Engineering has published a research article entitled “Modified Differential Evolution Algorithm for Governing Virtual Inertia of an isolated Microgrid Integrating Electric Vehicles” in the “International Transactions on Electrical Energy Systems” in 12 Sept. 2023. The authors are Debayani Mishra, Manoj Kumar Maharana, Manoj Kumar Kar, Anurekha Nayak, Murthy Cherukuri.
- **Dr. Preeti Ranjan Sahu**, Associate Professor, Department of Electrical Engineering has published a research article entitled “Influence of ultra capacitor on AGC of five-area hybrid power system with multi-type generations utilizing sine cosine adopted dingo optimization algorithm”, in the Journal of Electric Power Systems Research in Oct. 2023. The researchers are Smruti Ranjan Nayak, Rajendra Kumar Khadanga, Yogendra Arya, Sidhartha Panda and Preeti Ranjan Sahu.
- **Prof. Ranjan Kumar Padhi**, and **Prof. Sarita Sahu** Faculty, Dept. of Chemistry, of NIST have published a research article entitled “Interfacial and surface adsorption phenomenon in the dissolution behavior of 8-hydroxy quinoline” in the Journal of Materials Today: Proceedings in Sept. 2023. The authors are Ranjan Kumar Padhy, Aditya Prasad Padhi, Ramanand Patro, Bishnupriya Mahapatra, Snigdhamayi Dash, and Sarita Sahu.
- **Dr. Yerra Shankar Rao**, Assistant Professor, Dept. of Mathematics has published a article entitled, “Mathematical Model on Distributed Denial of Service Attack in the Computer Network”, in Wseas Transactions on Communications, (Vol-22), in December, 2023, Page 183-191. The authors are Y. S. Rao, A. K. Rauta, S. N. Kund, B. Sethi, J. Behera.
- **Dr. Ratikanta Nayak**, Assistant Professor, Dept. of Physics, has published a research article entitled “Interfacial interaction of controlled poly (ether-imide)(PEI)- titanium dioxide- based nanocomposites” in the Journal of “Materials Today: Proceedings” in Aug. 2023. The other researchers are Mr. Sushil Kumar Verma, Mr. Gyaneshwar Sharma and Mr. Gopikishan Sabavath.
- **Prof. Santosh Kumar Panda**, Assistant Professor, Dept. of Mechanical Engineering have published a research article entitled, “An Orifice Flow Analysis on the Basis of Density and Viscosity Effects of Fluids,” WSEAS Transactions on Heat and Mass Transfer, vol. 18, pp. 140-146, 2023, DOI:10.37394/232012.2023.18.12. The researcher is Santosh Kumar Panda
- **Dr. Yerra Shankar Rao**, Assistant Professor, Dept. of Mathematics has published a article entitled, “Mathematical Model on Distributed Denial of Service Attack in the Computer Network”, in Wseas Transactions on Communications, (Vol-22), in December, 2023, Page 183-191. The authors are Y. S. Rao, A. K. Rauta, S. N. Kund, B. Sethi, J. Behera.

INNOVATION & RESEARCH FRONTIER

- **Prof R Roshan, Dr. Satya Sopan Mahata and Dr. Shrabani mahata**, faculties of NIST haspublished a research article entitled “Study on Photoinduced Charge Transfer betweenCitrus Limon capped CdS Quantum dots with Natural dyes” in the Journal Surfaces andInterfaces, on 2 nd Sept., 2023. The researchers are B K Nahak; R. Roshan, N Jhariya, S Bolloju,Bidhan Pandit, S. S. Mahato and S. Mahata.
- **Dr. Preeti Ranjan Sahu**, Associate Professor, Department of Electrical Engineering has published a research article entitled “Influence of ultra capacitor on AGC of five-area hybrid power system with multi-type generations utilizing sine cosine adopted dingo optimization algorithm” in the journal of Electric Power Systems Research in 20 th November 2023.

CONFERENCE

- **Dr. Akankshya Patnaik**, Associate Professor, Dept. of Management. Presented a paper entitled “ A Systematic Literature Review of Virtual Try-on-A User-Centric Evolution” in the international Conference ICBPS-2023 organised by PGDepartment of Commerce, Berhampur University on 14 th and 15 th Oct, 2023. The other researchers are Truptimayee Panigrahy, Shreya Satapathy..
- **Dr. Akankshya Patnaik**, Associate Professor, Dept. of Management. Presented a paper entitled “Application of Artificial Intelligence for Sustainable Human Resource Management” in the International Conference ICBPS-2023 organised by PG Department of Commerce, Berhampur University on 14 th and 15 th Oct, 2023. The other researchers are Mr. Priyabrat Dash.
- **Dr. Akankshya Patnaik**, Associate Professor, Dept. of Management. Presented a paper entitled “Green product leverage the brand value” in the International Conference organized by PG Department of Economics, Berhampur University on 10 th and 11 th Nov, 2023. The other researchers are Mr. Subrat Panigrahi and Mr. Shivananda sahu.
- **Dr. Akankshya Patnaik**, Associate Professor, Dept. of Management. Presented a paperentitled “Exploring the Impact of Eco-Innovation Strategy on Bran- Value” at the international Conference held at Berhampur University by the Department of Economics on December 10th and 11th, 2023.
- **Dr. Akankshya Patnaik**, Associate Professor, Dept. of Management. Presented a paper entitled “The Impact of Leadership on Sustainable Performance: Trends, Themes, and insights” at the International Conference held at Berhampur University by the Department of Business Administration on December 10th and 11th, 2023. The other researchers are Mr. Samir Ku Mahapatro and Dr. Gayatri Panda.
- **Dr. Akankshya Patnaik**, Associate Professor, Dept. of Management. Presented a paper entitled “Sustainable Practices in Eco-Fashion Industry: A Comprehensive Analysis Using SLR and Bibliometric Techniques” awarded 2 nd best paper in the International Conference CSBPIG-2023 organised by PG Department of Business Administration, Berhampur University on 10 th and 11 th Dec, 2023. The other researchers are Truptimayee Panigrahy, Shreya Satapathy.
- **Prof. Lalit Kumar Behera**, Dept. of Computer Science and Engineering and **Mr. Pradeep Kumar Jena**, Assistant Professor has presented a research article entitled “Explainability: an important dimension of artificial intelligence” in National Seminar on Emerging applications of Artificial Intelligence & Data science, NSEAAIDS-2023,Berhampur University, in 26 th October 2023.
- **Prof. Manjushree Nayak**, associate Professor Dept. of Computer Science Participated and Presented a Paper entitled “Detection and Analysis of gene functioning and manipulationb using deep learning” in international conference on Smart Electronics and Communication (ICOSEC), held on 20-22 Sept., 2023.
- **Dr. Murthy Cherukuri** Professor and **Dr Kunjabihari Swain**, Associate Professor, Departmentof Electrical Engineering have presented a research article entitled “Compatibility Analysis of IoT with 5G and 6G Communication” in 2023 1st International Conference on Circuits, Power and Intelligent Systems (CCPIS), in 1 st Sept. 2023. The authors are Indu Sekhar Samanta, Pravat Kumar Rout, Manas Ranjan Lenka, Murthy Cherukuri, Kunjabihari Swain.
- **Prof. Ranjan Kumar**, and **Prof. Sarita Sahu** Faculty, Dept. of Chemistry, of NIST havepublished a research article entitled “Heterogeneous Oxidation of Alcohols Catalyzed by Titania Supported Palladium Nanoparticles in Aqueous Micellar Solution” in the International Conference on Nanotechnology: Opportunity and ChallengesProceedings in Sept. 2023. Conference on Nanotechnology: Opportunity and ChallengesProceedings in Sept. 2023.

INNOVATION & RESEARCH FRONTIER

- **Dr. Sabyasachi Rath**, Professor, Dept. of Management Studies, has presented a research article entitled “Brand Resonance and Sustainable Marketing: Impact and Implication” in international Conference on Towards a carbon-neutral, circular, and sustainable economy, (ICESBA 2023), in Bucharest, Romania. during 22-23 November 2023.
- **Dr. Sabyasachi Rath**, Professor, Dept. of Management Studies, has presented a research article entitled “Implementing Design Thinking: Agility for Design Thinking Select Indian cases” in a Seminar on How to Implement Design Thinking: Agility for Design Thinking: international Experiences, organised by Azerbaijan State Oil and Industry University, Baku, Azerbaijan on 11 th May 2023..
- **Dr. Satya Sopan Mahata** and **Dr. Shrabani mahata**, faculties of NIST has Presented a Paper entitled “A New Insight on Low- Temperature Synthesis of Peptized Anatase TiO₂ hydrosol with Tunable Surface Charges for Enhanced Photocatalytic Activity” in National Conference on Emerging Frontiers in Chemical Sciences (NCeFCS-2023); P. G. Department of Chemistry, Berhampur University, Odisha, held on 5-6 Nov., 2023. The other researchers are A Dash , N Sahu , S Panda.
- **Dr. Satya Sopan Mahata** and **Dr. Shrabani mahata**, faculties of NIST has Presented a Paper entitled “Study of Charge Transfer Dynamics Between Surface Passivated CdS quantum Dots and Natural Dyes” in National Conference on Emerging Frontiers in Chemical Sciences (NCeFCS- 2023); P. G. Department of Chemistry, Berhampur University, Odisha, held on 5-6 Nov., 2023. The other researchers are A K Nayak, B S Padhy, S Panda.

BOOK CHAPTER

- **Prof. Santosh K. Panda**, Assistant Professor, Department of Mechanical Engineering, Mathematics has published a book chapter entitled “Smart Manufacturing: Transforming the Future of Supply Chain Management” in the book “Smart Manufacturing and Supply Chain Management System” by World Leadership Academy Emerging Technology for sustainable development in 2023.
- **Dr. Yerra Shankar Rao**, Assistant Professor, Department of Mathematics has published a book chapter entitled “Implementation of Vaccination in an Epidemic Model for COVID-19” in the book “Computational Methods for Biological Models” by Springer Nature Singapor on 5 th October 2023.
- **Dr. Yerra Shankar Rao**, Assistant Professor, Department of Mathematics has published a book chapter entitled “Application of Artificial Intelligence in Healthcare System Management with Dynamic Modeling of COVID-19 Diagnosis” in the book “AI-Centric Modeling and Analytics” by CRC PRESS, Singapore on 14 th November 2023.
- **Dr. Kunjabihari Swain**, Associate Professor, Department of Electrical Engineering and **Dr. Murthy Cherukuri** Professor, Dept. of Electrical Engineering have Published a book chapter entitled “Machine Learning-Based Approaches for Transmission Line Fault Detection Using Synchrophasor Measurements in a Smart Grid” in the book entitles “Smart Grid 3.0” having DOI: 10.1007/978-3-031-38506-3_4, published by Springer International Publishing in 14 th Sept. 2023. The authors are Kunjabihari Swain, Ankit Anand, Indu Sekhar Samanta, Murthy Cherukuri.
- **Prof. Manjushree Nayak**, associate Professor Dept. of Computer Science has published a book chapter entitled “An AI -Based Efficient Model for the Classification of Traffic Signal Using Convolutional Neural Network” in the book entitles “Building Secure Business Models Through Blockchain Technology: Tactics, Methods, Limitations, and Performance” published by IGI Global in 2023.
- **Prof. Manjushree Nayak**, associate Professor Dept. of Computer Science has published a book chapter entitled “19 Intelligent Analytics in Cyber-Physical Systems” in the book entitles “Intelligent Analytics for Industry 4.0 Applications” published by CRC Press in 2023.

INNOVATION & RESEARCH FRONTIER

WORKSHOP ATTENDED

- **Dr. Akankshya Patnaik**, successfully completed AICTE training and Learning (ATAL) academy Faculty Development program on Role of MSDM techniques in data driven supply chain for Sustainability at Kalinga Institute of Industrial technology, Bhubaneswar from 18/12/2023 to 23/12/2023.

INVITED TALK

- **Dr. Basant Kumar Sahu**, Associated Professor of Dept. of Electrical Engineering invited as the key speaker and a Resource Person in the Seminar and presented on the Topic “Introduction to MATLAB and its Application” organized by PG Department of Mathematics of S.K.C.G (Autonomous) College, Paralakhemundi, Gajapati, Odisha, on 22 nd December 2023.
- **Dr. Akankshya Patnaik**, Associate Professor, Dept. of Management was the key note speaker at plenary session Department of Economics, Berhampur University on 10 th and 11 th Nov, 2023 and has presented a paper on “Green Innovation”.

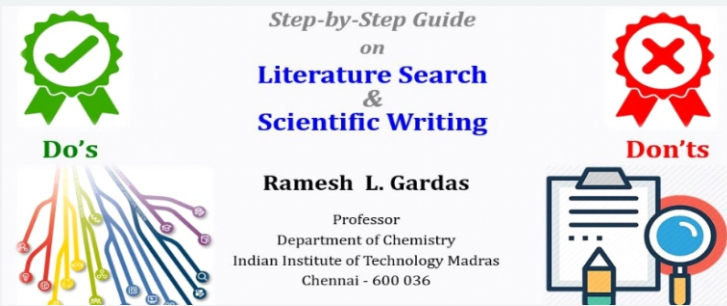
STUDENT ACCOMPLISHMENT

- **Mr. Priyabrata Dash**, Research Scholar, Department of Management successfully completed AICTE training and Learning (ATAL) academy Faculty Development program on Role of MSDM techniques in data driven supply chain for sustainability at Kalinga Institute of Industrial technology, Bhubaneswar from 18/12/2023 to 23/12/2023.
- **Mr. Samir kumar Mohapatro**, Research Scholar, Department of Management successfully completed AICTE training and Learning (ATAL) academy Faculty Development program on Role of MSDM techniques in data driven supply chain for sustainability at Kalinga Institute of Industrial technology, Bhubaneswar from 18/12/2023 to 23/12/2023



WORKSHOP, SEMINAR & TALK

Enlightenment Through Expertise: Prof Ramesh L. Gardas' Talk on Literature Search and Scientific Writing



On November 25th, 2023, Professor Ramesh L. Gardas from the Indian Institute of Technology, Madras, delivered a captivating expert talk on "Literature Search and Scientific Writing." His presentation was not only informative but also highly engaging, leaving a profound impact on our faculties, research scholars, and students. Professor Gardas demonstrated a depth of knowledge and communicated complex concepts with exceptional clarity, ensuring that everyone in attendance thoroughly enjoyed and benefitted from the talk. We extend our heartfelt thanks to Prof. Gardas for his time, dedication, and the invaluable insights he shared with NISTians.

Empowering Entrepreneurship: Insights from 'AmritKala Bimarsa' at NIST



A significant event titled "Amrit Kala Bimarsa" unfolded at NIST, under the initiative of the Ministry of Education and the All India Council for Technical Education, as part of the visionary program "Vikasita Bharat-2047," spearheaded by the Hon'ble Prime Minister, Narendra Modi. Focused on exploring "Opportunities for Entrepreneurship in Odisha," Dr. Bishnukar Nayak, our principal-in-charge, warmly welcoming Er. Ali Kishore Patnaik, Managing Director

, Managing Director of Odisha Diesel Engines, recognizing the significance of his insights in fostering an entrepreneurial spirit. The event's seamless coordination was overseen by Dr. Sushanta Sahu, ensuring its success, while Dr. Preeti Ranjan Sahu delivered the vote of thanks, acknowledging the collaborative efforts that made the program impactful and enriching for all participants.

Empowering MBA Students: Enhancing Decision-Making Skills through Case Study Workshop



The Department of Management recently organized a dynamic one-day workshop themed "Utilizing Case Studies for Effective Managerial Decision-Making." Led by Prof. Ratnakar Mishra, HoD, MBA, the event provided a knowledge-rich platform for MBA students to explore case studies' role in managerial decision making. Aimed at refining analytical skills and navigating managerial challenges, the workshop empowered students with practical insights. Prof. Mishra's expertise and engaging teaching style ensured a holistic learning experience, equipping students for success in the dynamic field of management.

Empowering Tomorrow's Cloud Experts: Highlights From Cloud connect Workshop



WORKSHOP, SEMINAR & TALK

The NIST Cloud Computing Club successfully concluded the Cloud Connect workshop on November 14th and 15th, 2023. Esteemed alumni, including Debarshi Mondal, Shubha Prasad Mohanty, and Rajlaxmi Hota, actively engaged with students, sharing insights into awsec2 and the evolving landscape of cloud computing. They provided enriching hands-on experiences. Over 130 enthusiastic NISTians participated, showcasing their commitment to expanding knowledge in Cloud Computing. The workshop fostered meaningful interactions, promoted collaborative learning, and empowered students with practical skills essential in the dynamic world of cloud technology.

Empowering NISTians:GDSC NIST Hosts Exclusive Server Less Workshops Collaboration With AWS User Group Bhubaneswar



GDSC NIST, in collaboration with AWS User Group Bhubaneswar, orchestrated an exclusive Server less Workshop for NISTians on November 8th at NIST Campus. Mr. Sayed Imran, an alumnus from the 2023 pass out batch and a certified expert in multi-cloud, delivered a technical talk on AWS Server less services. The workshop delved into the enchanting features of Lambda, Dynamo DB, and API Gateway, with active participation from the incredible GDSC team. A total of 230 students from various disciplines enthusiastically engaged in this hands-on experience, immersing themselves in the world of server less computing and harnessing the potential of AWS services. The session commenced with an inauguration by Dr. Sandipan Mallik, GDSC mentor, and concluded with remarks from Brojo Kishore Mishra, HoD, CSE.

Empowering Tommorrow's Leaders:Insightful Interaction With Commanding Officer 1(O) NU NCC



Commanding Officer 1(O) NU NCC, Commander DJ Singh, engaged in an insightful interaction with the NIST NCC Cadets. Welcoming him, Dr. Bishnukar Nayak, the Principal in charge, set the tone for the interaction. During the session, he shed light on diverse career opportunities within the defence sector, emphasizing pathways to join as an Officer Cadet, Soldier, Short Service Commission officer, and through prestigious avenues like NDA and NA, among others. The discourse provided valuable insights into the multifaceted journey one can embark upon in the defence forces.

Empowring Citizenship:Sub-Collector Ashutosh Kulkarni Addresses #NISTians on Voter ID Importance



Shri Ashutosh Kulkarni, the Sub-Collector of Berhampur, addressed the NISTians, highlighting the importance of possessing a Voter ID. He emphasized that having a Voter ID is a fundamental requirement for all citizens, crucial for participating in the democratic process. Mr. Kulkarni underscored the pivotal role of youth in shaping the nation's future through the electoral process.

WORKSHOP, SEMINAR & TALK

Inspiring Minds: Dr. Ranjan K Behera's Lecture on Technological Mind Secrets



Dr. Ranjan K Behera, Associate Professor at the Dept. of Electrical Engineering, Indian Institute of Technology, Patna, delivered an insightful lecture on Technological Innovation and Mind Secrets. Dr. Bishnukar Nayak, Vice Principal, warmly welcomed the speakers and participants. Dr. Behera shared his life journey, urging students to prioritize academic pursuits during their BTech journey. He discussed future technology, Smart Grids, Artificial Intelligence (AI), and Industry4.0, highlighting challenges faced by living entities and emphasizing success through positive thinking, responsibility, inspiration, knowledge, and discipline. Dr. Behera also explored the coexistence of spirituality and materialism. His notable work in rural electrification in Bihar was lauded, concluding with a vote of thanks by Dr. Preeti Ranjan Sahu.

Empowering Through Art and Literature: Mrs. Manorama choudhury's Inspirational Talk



Mrs. Manorama Choudhury, a renowned poet and social entrepreneur, delivered an inspiring talk today, highlighting the importance of art and literature in nurturing humanity. Advocating for habits of reading, writing, and physical fitness, she proposed reframing the role of a homemaker as "Houseengineer." Mrs. Choudhury shared her journey through a poignant poem, urging students to pursue passions and

and entrepreneurship. Recognized among the top influential women in 2023, she balances her love for poetry with professional achievements, producing musical videos and receiving accolades, including the Outstanding Woman of the Year for Art and Literature.

Empowering Students: Nasscom Regional Head Advocates Upskilling Academia Integration



Mr. Subhasish Sarkar, Regional Head for the Eastern region at Nasscom, delivered an enlightening presentation on upskilling aligned with industry trends and fostering academia-industry integration for students. Dr. Sushanta Sahu, Head of Startup and Innovation, warmly welcomed the esteemed guests. Mr. Sarkar elaborated on skill development, Talent Enhancement, and bridging the gap between industry and academia. He highlighted Nasscom's mission to establish India as a Digital Hub and shared compelling digital trend statistics. Encouraging active learning and personal growth he stressed learning agility, internships, hackathons, and real-time projects. Mr. Sarkar outlined abundant job opportunities in AI, datascience, and cybersecurity, reassuring that AI knowledge holders would fill these roles, not replace them.

Exploring Cultural Anthropology: Lecture by Dr. Annapurna Devi Pandey:

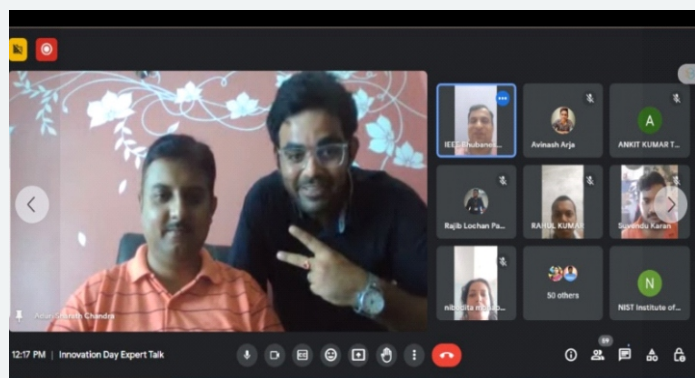
Dr. Annapurna Devi Pandey, Professor of Cultural Anthropology at the University of California, Santa Cruz, USA, delivered a distinguished lecture on "Weaver's Voices in Civil Society: New Technologies & Opportunities," accompanied by Dr. Triloki Nath Pandey, Professor Emeritus of Cultural Anthropology,

WORKSHOP, SEMINAR & TALK



, University of California, USA. The session was warmly welcomed by Dr. Bishnukar Nayak, Vice Principal, Er. Sayad Suleman Ali, Head of HR & Administration, expressed gratitude to the dignitaries for their presence. Dr. Pandey emphasized her Odia roots, encouraging the audience to be role models. She highlighted India's diversity and the contributions of village weavers, underscoring anthropology's role in understanding humanity. Dr. Pandey stressed the practical application of knowledge amid rapid global changes, connecting past, present, and future. Dr. Sabyasachi Rath, Dean, CMLA, delivered the vote of thanks.

Empowering Innovation: IEEE EDS NIST Celebrates National Innovation Day with Informative Webinar



National Innovation Day was celebrated with an informative Webinar on October 15th, 2023, by IEEE EDS at NIST Berhampur. Featuring distinguished speakers Dr. R. Hafeez Basha, CEO of Osmania Technology Business Incubator, and Dr. Sharath Chandra Aduri, an Innovation Fellow from Osmania University, the webinar was a platform for valuable

insights. Dr. Sandipan Mallik, IEEE EDS STB Advisor, welcomed speakers and participants, setting the stage for an enriching session. Dr. Basha shared leadership insights on IEEE student branches' role in research advancement, while Dr. Aduri explored innovation's crucial importance. The webinar concluded with a vote of thanks from Dr. Brojo Kishore Mishra, IEEE Bhubaneswar Sub-section's Joint Secretary.

Advancing Sustainability: Dr. Ratikanta Nayak's Membrane Technology Presentation at MemDEW Workshop at IIT Roorkee



During the Internationalworkshop on Membrane Technologies for Desalination, Energy, and Water (MemDEW) organized by the Department of Hydrology in association with the Centre for Nanotechnology, Indian Institute of Technology, Roorkee from October 18th to 20th, 2023, Dr. Ratikanta Nayak, Assistant Professor in the Department of Physics at NIST, delivered a presentation focusing on the significance of membranes in fuel cells and electrolyzers. Dr. Nayak emphasized Earth's ability to provide for needs, but not insatiable desires, highlighting climate change, water scarcity, and emerging diseases as consequences of human actions, with energy at the core. He underscored the role of membrane-technology in advancing vanadium flow batteries as a sustainable solution benefiting the environment and the economy. Dr. Nayak envisioned a future where children can thrive in a habitable environment, emphasizing our role as custodians and architects of Earth's destiny.

GUEST INTERVIEW



Mr. Mouttou Viramouttou
 Founder: GAIPP Private limited & Entrily,
 Serial Entrepreneur

Prof. Mouttou Viramouttou is a prominent entrepreneur and early-stage tech investor specializing in blockchain, cryptocurrencies, Artificial Intelligence, and digital marketing. He is the Founder Chairman of Gaipp Private Limited, which encompasses companies like AIACME, UniDirect, Advanced Digital Marketing Institute (ADMI), WeAlwin Technologies Pvt. Ltd., and Kinal Media Private Limited with its gaming division Vazrh Studios Private Limited. He also co-founded Brugu Software Solutions Private Ltd., a leading blockchain company aiming for a US\$ 1 billion valuation by 2024. Outside his professional pursuits, Prof. Viramouttou practices meditation and yoga, believing that true strength arises from spiritual awakening. His innovative vision and spiritual grounding position him as a leader in both the tech and entrepreneurial realms.

In this context, Prof. Sabyasachi Rath (Dean of the College of Management & Liberal Arts), advisor of NIST Chronicle, had a brief conversation with him about his remarkable journey. We believe that our readers will gain valuable insights from his experiences, learning new things and finding motivation in his inspiring tale.

1. From a Salaried Job to an Techpreneur in Business: What was the trigger?

Its strong feeling inside to break to normal routine life to adventure and profitable. Business transform the way I live and the people around me.

2. As a seasoned IT professional and a Consultant how do you see Business in the coming time, in terms of the Scope, nature and Challenges?

Its important we keep it up to date with the futuristic technology and keep the mind open and thirsty learn new things and implement. AI, Machine Learning, Cloud computing, Blockchain, Cyber security and Edutech are some of the important area to focus.

3. If a student prefers to be an entrepreneur, what

fundamental factors should they understand to confront the entrepreneurial challenges?

Need to understand who we are in spiritual aspect, identify a guru, meditate, choose right technology, and industry to focus. Its always good to start with family business. Being humble, open to learn, always listen will help.

4. What would be your words of wisdom for the Young students pursuing career in Management and Engineering in terms of preparing for career 5.0?

Learn practical management skills, take an internship, learn technologies that play a role in management, learn tools which is necessary to make decisions, work for companies for some time and then get on to business while you are ready. Remember to nurture what I mentioned in point 3 above.

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Leadership Team



Mouttou Viramouttou
 GROUP MD & CHAIRMAN



Prof Rath
 DIRECTOR STRATEGY CONSULTING



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 CO-FOUNDER



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 CO-FOUNDER

ARTICLE : SCIENCE/ ENGINEERING/ MANAGEMENT

BIOTECHNOLOGY'S PEREGRINATION: CRAFTING A NEW NARRATIVE FOR HEALTHCARE AND BEYOND

Introduction:

Within the intricate tapestry of human advancement, the narrative woven by biotechnology stands as a masterpiece of profound transformation. Radiating as a beacon of innovation and scientific marvel, biotechnology's sweeping influence transcends sectors, moulding the landscapes of healthcare, agriculture, environmental sustainability, and far beyond. It stands not only as a testament to human curiosity but as a symphony of our unwavering resolve to unravel the enigma of life itself.

At its core, biotechnology embodies the convergence of biology, technology, and engineering. This dynamic field has unfurled the intricacies of genes and molecules, unravelling the blueprints that orchestrate life's myriad processes. With insights garnered from genomics, proteomics, and bioinformatics, biotechnology has illuminated the pathways of diseases, making formerly inscrutable disorders intelligible. This newfound comprehension has birthed personalized medicine, where treatments are artfully tailored to an individual's genetic makeup, promising improved efficacy and fewer side effects.

The canvas of biotechnology extends beyond medicine, permeating the fields of agriculture and environmental stewardship. Genetic modification of crops heralds a new era of sustenance, as plants are engineered to thrive amidst adversity, fortify their nutritional value, and circumvent the challenges of a burgeoning global population. Simultaneously, bioremediation techniques leverage nature's microscopic custodians to cleanse polluted landscapes, while synthetic biology crafts sustainable alternatives to fossil fuels and environmentally detrimental materials.

Yet, as biotechnology's transformative capabilities burgeon, so too do questions of ethics and governance. The power to manipulate genes needs a delicate dance between innovation and responsibility, demanding comprehensive frameworks to navigate uncharted ethical waters.

In this age of biotechnological revolution, we find ourselves at a crossroads, poised between the known and the unknown, the ethical and the experimental. This feature embarks on a journey through biotechnology's annals, tracing its evolution from a nascent promise to a formidable force, and glimpsing into the horizon where it continues to shape human destiny.

Biotechnology in Healthcare: Pioneering Personalized Medicine

Biotechnology has ushered in a new era of healthcare by enabling personalized medicine. Advances in genomics, proteomics, and bioinformatics have empowered scientists to understand the intricate molecular mechanisms underlying diseases. This knowledge has led to the development of targeted therapies and precision medicine, where treatments are tailored to an individual's genetic makeup, leading to improved outcomes, and minimized side effects.

Gene editing technologies like CRISPR-Cas9 have provided unprecedented tools for changing DNA with a high degree of accuracy. This has opened doors to potential cures for genetic disorders and has the potential to reshape the future of organ transplantation through xenotransplantation, where animal organs are genetically modified for human compatibility.

Biopharmaceuticals: Redefining Drug Development

The field of biopharmaceuticals has seen remarkable growth, with biologically derived drugs such as monoclonal antibodies becoming central to treating various diseases, including cancer, autoimmune disorders, and infectious diseases like COVID-19. These drugs are designed to target specific molecules, resulting in enhanced efficacy and reduced side effects compared to traditional pharmaceuticals.

Furthermore, biotechnology has transformed vaccine development. The rapid response to the COVID-19 pandemic highlighted the agility of the biotech industry, as companies used mRNA technology to create vaccines with unprecedented speed. This achievement not only proved the power of innovation but also set a precedent for addressing future viral threats.

Agricultural Biotechnology: Feeding a Growing Planet

As the global population continues to expand, biotechnology has appeared as a key player in ensuring food security. Through genetic modification, crops can be engineered to withstand harsh environmental conditions, resist pests, and

ARTICLE : SCIENCE/ ENGINEERING/ MANAGEMENT

BIOTECHNOLOGY'S PEREGRINATION: CRAFTING A NEW NARRATIVE FOR HEALTHCARE AND BEYOND

have improved nutritional profiles. Critics voice concerns about the potential risks of genetically modified organisms (GMOs), emphasizing the need for rigorous safety assessments and transparent regulations.

Environmental Applications: Bioremediation and Sustainable Practices

Biotechnology holds promise for addressing pressing environmental challenges. Bioremediation, for instance, employs microorganisms to break down pollutants and contaminants in soil and water, offering a natural and cost-effective solution for cleaning up polluted sites. Additionally, synthetic biology is being explored for the development of biofuels, bio-based materials, and renewable chemicals, reducing our reliance on fossil fuels, and mitigating the impact of climate change.

Ethical and Regulatory Considerations

As biotechnology continues to reshape industries and societies, ethical and regulatory considerations come to the forefront. The power to manipulate genes and organisms demands careful oversight to ensure responsible innovation and prevent unintended consequences. Striking a balance between scientific progress and ethical boundaries is still a complex challenge.

Conclusion

In the mosaic of human progress, biotechnology appears as an artist of transformation, redefining our approach to medicine, agriculture, and environmental stewardship. This evolving discipline transcends the boundaries of traditional science, propelling us towards a revolutionary era.

Delving into genomics and molecular biology has empowered us to unravel the essence of life. From decoding disease origins to sculpting organisms with precision, biotechnology's reach extends beyond imagination. The dawn of personalized medicine promises treatments sculpted to everyone's genetic makeup, fostering initiative-taking health solutions.

Biopharmaceuticals, born from biotechnology's ingenuity, rewrite the narratives of disease. Derived from living cells, these advanced drugs redefine the battle against ailments, instilling hope where options were once limited. Swift COVID-19 vaccine development displays biotech's prowess in global health crises.



Biotechnology's tendrils touch agriculture's core, amplifying food security efforts. Through genetic manipulation, crops become resilient, nourishing, and pest resistant. While GMO debates linger, the promise of sustainable agriculture stands strong.

In environmental realms, biotechnology pioneers' solutions tread lightly. Microbial allies cleanse polluted sites through bioremediation, echoing nature's power. Biofuels, green materials, and renewable chemistry chart a course towards an eco-friendly future.

Yet, wielding this transformative power demands ethical compasses. Striking harmony between innovation and ethics is imperative, calling for scientists, policymakers, and societies to collaborate vigilantly.

As we peer into biotechnology's unfolding narrative, its tale of conquering once considered unconquerable diseases, forging sustainability in a changing world, and pushing the boundaries of existence itself, inspires. With steadfast dedication, ethical fortitude, and a commitment to the greater good, biotechnology propels us into a future painted with unparalleled scientific discovery and human advancement.



Dr. Amit Patnaik
Assistant Professor
Department of Biotechnology, NIST

EVENTS & CLUB ACTIVITIES

NIST and Where U Elevate Forge Innovation Partnership



NIST has announced a strategic partnership with Where U Elevate as its Innovation Partner, marking a significant milestone in the quest for cutting-edge advancements in technology and scientific research. Under the terms of the MOU, NIST and Where U Elevate will collaborate closely to promote innovation, drive technological progress, and promote excellence in various domains. The agreement highlights the shared commitment of NIST and Where U Elevate to cultivate a culture of innovation that will pave the way for a brighter and more technologically advanced future. The partnership will enable NISTians to explore new frontiers, develop novel technologies, and make continuing contributions to the advancement of science and technology on a global scale.

NIST and FutureSkills Prime Forge Pathways to Professional Success



NIST has embarked on a transformative journey of skill development by partnering with FutureSkills Prime, an initiative led by Nasscom and the Ministry of Information Technology, Government of India. Through a Memorandum of Understanding (MoU), this strategic alliance aims to equip students with essential skills vital for thriving in the competitive job market. Beyond skill development, the collaboration offers internships and career placement avenues, bridging the gap between education and industry demands. Empowering students to navigate the evolving job landscape, this partnership paves the way for their professional growth and success.

Innovative Power Generations Wins NIST Science Talent Search



Team Averren_Maverick from Vidya Vihar-The Educational Academy in Banka, Bihar, clinched the top spot in the senior category at the NIST Science Talent Search Grand Finale. Comprising Lata Rakhi, Simran Bharti, and mentor Mr. Sonu Kumar Singh, their project, "Power Generation from Wasted Vehicle Energy," impressed the judges. They devised a system utilizing vehicle-powered regenerative braking, a vertical-axis wind turbine, and speed bump

systems to convert kinetic energy into electricity. This innovation holds promise for sustainable energy usage, earning Team Averren_Maverick well-deserved recognition from NIST.

Commemorating S.Ramanujan: A Celebration of Mathematical Brilliance



The Department of Mathematics at NIST celebrated National Mathematics Day with a National Seminar titled "Honoring S. Ramanujan" and a quiz named "Ramanujan's Riddle" on December 22, 2023. Dr. Purna Chandra Biswal, Associate Professor from Parala Maharaja Engineering College (PMEC), Berhampur, graced the occasion as the Chief Guest. Dr. Bishnukar Nayak, Vice Principal of NIST, commenced the event with an overview of S. Ramanujan's life and his significant contributions to mathematics. Er. Sayad Suleman Ali, Head of HR & Administration, shared insights into Ramanujan's mathematical prowess, while Dr. Simancholo Panigrahi and Dr. Bhaskar Bhaulo, Heads of Physics and Mathematics Departments respectively, added their presence. Dr. Brundaban Sahu from NISER Bhubaneswar and Dr. Prem Prakash Pandey from IISER Berhampur delivered enlightening talks, enriching the seminar with perspectives on Ramanujan's mathematical legacy.

The event attracted enthusiastic participation from students of neighbouring colleges.

EVENTS & CLUB ACTIVITIES

Driving Sustainable Energy Solution: Highlights from NCECM-2023 Conference



The National Conference on Energy Conservation and Management (NCECM-2023): A Foundation for Sustainable Society, organized by the Indian Energy Congress in collaboration with NIST Berhampur, was held over two days, from December 4th to 5th, 2023, at IIT Delhi. Shri Dharmendra Pradhan, Hon'ble Union Minister of Education and Skill Development & Entrepreneurship, graced the event as the Chief Guest. Prof. Rangan Banerjee, Director of IIT Delhi, attended as the Guest of Honour, and Dr. Sukant K. Mohapatra, Founder Chairman of NIST, joined as a Distinguished Guest of the conference. The primary focus of the conference was to expose participants to cutting-edge research in energy conservation and management, aiming to foster research and development activities across all facets of energy production. Shri Pradhan stressed the vital role of energy conservation and management in reducing current energy consumption. Prof. Banerjee emphasized the significance of upgrading and redesigning energy systems and processes to achieve efficient and cost-effective solutions for controlling greenhouse gas (GHG) emissions. Dr. Mohapatra highlighted that sustainable economic development, coupled with a green environment, was a global priority. He referred to discussions held in

the Madrid Climate and Energy Summit, with the goal of mobilizing...international efforts to meet the ambitious target of limiting global warming to 1.5°C, as outlined in the Paris.

Honouring the Indian Navy: NIST Naval NCC Celebrates 52nd Navy Day



NIST Naval NCC recently observed the 52nd Navy Day within its campus, expressing profound admiration for the Indian Navy's unwavering dedication to safeguarding our nation's maritime heritage and ensuring our future security. This celebration serves as a poignant tribute to the Indian Navy, a symbol of immense pride, strength, and the steadfast shield protecting our shores. As we pay homage to their service, let us also extend heartfelt gratitude for their sacrifices and unwavering commitment to defending and advancing the prosperity of our great Nation.

MANDIA DIVAS: Celebrating Millet at NIST



On November 10, 2023, NIST Berhampur joyously commemorated Mandia Dibasa, celebrating the nutritional powerhouse that is millets! Recognizing millets as a rich source of protein, dietary fiber, vitamins, and essential minerals, we embraced their goodness in the heart of Odia cuisine. Taking a flavorful initiative towards promoting a healthy lifestyle, a millet-based dish was proudly introduced in the lunch menu. The response exceeded expectations, highlighting the undeniable appeal of millets and their wholesome benefits.

NIST PR Cell Forges Strategic Partnership with A4Conserv for Digital Marketing Excellence



Under the adept leadership of its Head, Dr. Sabyasachi Rath, Professor and Dean of CMLA, NIST's Public Relations Cell formalized a strategic partnership by signing a business service agreement with A4ConServ (A4Con Service Pvt Ltd), an edutech company from Hyderabad. The collaboration aims to elevate A4ConServ's digital marketing efforts, with NIST's PR Cell providing brand promotion and market expansion support to enhance the brand's online presence and outreach. Committed to achieving measurable success, crafting a compelling narrative to increase brand visibility and engagement.

EVENTS & CLUB ACTIVITIES

This collaboration marks a significant milestone as NIST PR Cell ventures into offering Marketing and PR consulting Services for external clients. The team expresses gratitude to Chairman, Dr. Sukant K. Mohapatra, for his continuous motivation and support, and to Principal-in-charge Dr. Bishnukar Nayak and the Leadership Team for their unwavering support and cooperation.

NISTians Unite for a Cause: Successful Blood Donation Camp Organized by Team NSS



On November 6, 2023, TEAM NSS NIST orchestrated a remarkable Blood Donation Camp at NIST Campus, in collaboration with HDFC Bank, Sambad, and AMA ODISHA. The event commenced with an inauguration by Shri Ashutosh Kulkarni, Hon'ble Sub-Collector, Berhampur, setting a positive tone for the day. This

admirable initiative resulted in the collection of an impressive 122 units of blood, showcasing the NISTians' generosity and sense of community. The event was graced by Shri Satyashri Mohanty and Shri Madhusudan Patra from HDFC Bank, Dr. Manu Mangat Marandi from Sambad Ama Odisha, and journalist Basant Kumar Panda, all of whom contributed to the success of this meaningful endeavor. The event was organized under the leadership of NSS Program Officer, Shri N. P. Tripathy, and the dedicated Team NSS.

NIST Berhampur Witnesses Inaugural Address of Viksit Bharat 2047 by Hon'ble Prime Minister Narendra Modi



Voice of Youth by our Hon'ble Prime Minister, Shri Narendra Modi, at NIST Berhampur, were witnessed by students and faculty members who gathered to watch the webcast at the Galaxy Auditorium, NIST. Viksit Bharat 2047 represents the Government of India's vision to transform India into a developed

nation by 2047, marking the centenary of its independence. This comprehensive vision addresses multiple facets of development, such as economic advancement, social well-being, environmental sustainability, and good

Combatting Cybercrime: Berhampur Police Organizes Cyber Safety Awareness Program



Amidst the rising instances of cybercrime in the state, Berhampur Police Administration, led by Dy. SP Sri Akshaya Kumar Nayak, OPS, organized a cybersafety awareness program. Alongside IIC Mr. Bibekananda Mahanta and S.I.s Dipti Ranjan Pradhan and Ranjit Dash, Mr. Nayak engaged with students to underscore the risks associated with modern mobile devices and social media usage. The event aimed to equip students with valuable insights to ensure their safety online. As part of the Cyber Safety Campaign 2023 by Odisha Police, the initiative seeks to raise public awareness about cybercrime and promote the helpline 1930.



STUDENT SUCESS STORY

Team Destination Designers Triumphs at Smart India Hackathon 2023 Grand Finale



In a momentous victory, Team Destination Designers, comprising second-year students from the BTech CSE program - Gaurav Tiwari, Abhimanyu Kumar, U Sriya Reddy, Payal Bhattamisra, K Sai Kalyan, and Rudransh Dash - emerged victorious at the prestigious Smart India Hackathon 2023. The event, focusing on the software edition, unfolded at Rungta College of Engineering and Technology, Bhilai, on December 19-20, 2023. Their innovative concept showcased remarkable potential to revolutionize the tourism industry landscape. Encompassing various facets of Travel & Tourism, including hotels and travel logistics, their comprehensive solution underscored a deep understanding of the sector's challenges and opportunities. NIST extends warm congratulations to Team Destination Designers, recognizing their dedication, creativity, and the transformative potential of their solution in reshaping the tourism industry.

Celebrating Excellence: NISTians Shine at BPUT Tech Carnival



Heartfelt congratulations to the NISTians for their outstanding achievements at the BPUT Tech Carnival hosted by BPUT Odisha. V. Someswar Rao from ECE and Rahul Kumar from IT showcased their brilliance by emerging victorious in the techinnovation challenge. In the pitchdeck category, R. Hiranmayee from CSE and Anmol Bisoyi from ECE shone brightly with their Canva Video presentation. Madhurima Sit from CSE and Ayush Behera from EE demonstrated excellence as runners-up in the technical poster presentation. Anupoju Asish Kumar from ECE and Rahul Kumar Behera from CSE claimed the title of 2nd Runners-up in the documentary movie category, while Aditya Kumar Sahu from ECE stood tall as the 2nd Runners-up in the ideathon competition. These remarkable accomplishments underscore the dedication, hard work, and commitment of our NISTians toward fostering research and innovation. We applaud each student for their stellar performances and eagerly anticipate witnessing their continued success in future endeavors.



SUCCESS

LITERATURE, ART & PHOTOGRAPHY

Literature

Poetry

Reflections in the Divine Mirror!

In my heart, there's a sacred corner
Where every other day, I sit in prayers.

In conversation with God,
I dump all my unwanted heavy baggage
He, being He, all-merciful,
Out of my dump, creates a pretty message.

About day-to-day things,
Life's mundane quests, whatever rings,
For hours, we talk.
I ask, and in His answers, he lays the chalk.

I say, 'I love you.'
He responds, 'I love you too.'

I say, 'But I don't like when you ignore my quests.'
He says, 'I don't like how you ignore my answers.'

I ask, 'I wish you to hold me at the lowest of my plight.'
He smiles and says, 'Don't you feel then I push you upright?'

I ask, 'God, what do you think about hate?'
He says, 'It takes a lot from you to reflect.'

I ask, 'I sing for you, do you ever hear?'
He responds, 'Those words I whisper in your ear.'

I ask, 'Why do you expect so much from me?'
He responds, 'Didn't you expect that of thee?'

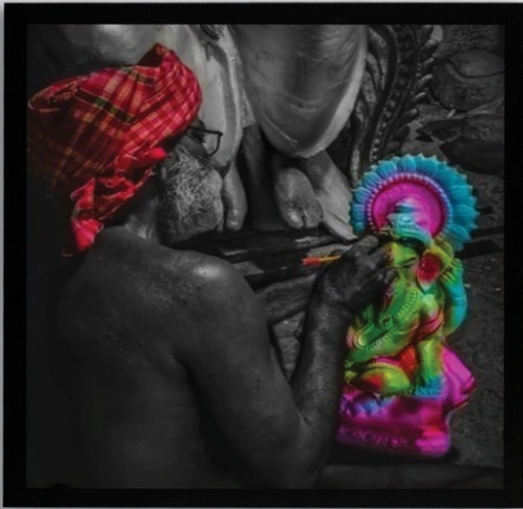
I say, 'I would like to see you, up close and near.'
He smiles and says, 'Oh dear, have you not seen the mirror?'

I feel His presence, surreal but there for sure
Then God whispers, 'In LOVE, I am always near.'

Ms. Manorama Choudhury
Boston, USA

LITERATURE, ART & PHOTOGRAPHY

Art & Photography



Swarup Sahu, BTech, CSE (3rd Yr)



Mohammad Ehsan khan, BTech, CSE (2nd Yr)



Anmol Bisoyi, BTech, ECE (4th Yr)



ALUMNI SPEAK

Swetaleena Panda

B.Tech Electronics and Instrumentation
Admission Year: 2008-12
Senior Business Analyst/Product Owner
Brahmapur, Ganjam, Odisha



Swetaleena Panda, often called "Sweta," is a resilient entrepreneur from Odisha. Raised as the eldest and only daughter in a supportive yet authoritative family, she embraced independence early. Her journey from mastering karate and biking to pursuing an MTech in Power

Electronics reflects her diverse interests and ambitions. After over four years at Siemens, she ventured into entrepreneurship in 2019, founding SANISA Research and Development Center. Sweta's vision is to revolutionize research and innovation, making them accessible and engaging. Despite challenges, she finds unwavering support from her mother and draws inspiration from mentors, guiding her path with determination and passion.

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

Swetaleena Panda (SP): NIST was one of the prestigious institute in our time. Especially who were opting for Engineering and belong to Brahmipur, NIST was a dream comes true option. I remember during counselling time my mother was praying so hard for me to get into NIST so that she doesn't need to let me go far from her. Another interesting fact was that NIST was the only college that time which didn't have uniform and it was feeling quite different that time. You know like you are special, grown up type feeling! So when I got the admission it was really an exciting moment for me. And it was the first time that I had to take bus and go out of city for study and there was nervousness also, so my mother had come to drop me at bus stop. Yeah, small cute memories!!

NC: Can you share one remarkable memory with friends that you made while you were at NIST?

SP: Oh! There are so many! But one thing I believe is definitely memorable for all of our gang finding bus number for different bus routes and reserving seats for friends! That was like treasure hunt for us! Waiting for class to finish early, waiting near Sagar Xerox to find the

bus number, running to bus, especially to open the bus door and just through books, notes to occupy seats as much as possible. And once mission accomplished, sitting at the wooden benches and having chit chats. I believe most of our happiest conversations would have happened there! Another would be Internal exam times. Especially the break time between two exams in the day. That's where group study will be at peak. The excitement could cover any syllabus just in that couple of hours which you couldn't have completed in days!

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

SP: Library. It was the place where me with my other two close friends used to prepare for GATE exam and no day was boring. Silly jokes, funny questions, laughter - Can't explain further!!

NC: Among your Faculty Members, Who were the key influencers (if any) and why?

SP: First I would mention about Abhro Mukherjee Sir whose energy used to always refreshing and feel alive. Working with him on project was really a good experience Then I can remember on Murthy Sir. He was our control system professor. I had admired his sincerity on his efforts as I remember he had taken around 54 classes to complete the course and so far I know that was the highest number of classes that time.

NC: Can you name at least two of your batchmates, who are your best friends? Please share about them.*

SP: None other than Ipsita Panigrahi Subhendu Sekhar Paika Ipsita was my project partner. We are still in touch. She and her husband Ashutosh pati is also our batch mate only. We 3 are still having same close bonding and we were called as IAS group like Ipsita, Ashutosh and Sweta Preparing for GATE exam! Talking about Subhendu, he was from different branch. I mention about him because he used to be volunteer for an NGO with which I have been associated with. Apart from that he was doing PhD but he was more interested into spirituality and now he is completely dedicated disciple of Swami Premanand.

NC: If a student of +2 or high school would seek your advice on making a career, what would be your advice?

SP: I would advise that " You are fortunate that you are in an era where you can make a career in any skill if you Excel in it! You may be hearing about recession or

ALUMNI SPEAK

replacment of job due to technology but believe me your intellectual ability can't be replaced. Hence strengthen your knowledge, skill in whatever domain you want to and create a career out of it by following right career guidance.

NC: Let's 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?

SP: If I would go in time travel, I would like to change the perspective that I used to have for career earlier. Honestly, I was not much aware of difference between job and career. For me I was just thinking of to have a job which could be used to pay my bill and yeah having some regards for knowledge. But career is much more that that..It should be your aim, goal and your dedication to build an identity out of it.

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

SP: Definitely it depends on personality and preferences. And whatever you do, giving your best is what makes it special. But if you are someone who wants to create an identity with your skill and knowledge I would say it research, entrepreneurship especially to contribute to bigger community apart from your or your family welfare.

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

SP: Yeah , I would like to mention only one thing! Whatever the reason, if you are choosing a job, or work or career- Do it with passion, dedication. That gives a different confidence and help you to build stronger portfolio!





A CORDIAL MEETING

DR. SUKANT K MOHAPATRA & SMT. SANJEETA MOHAPATRA

FOUNDER OF NIST UNIVERSITY MEETS THE HON'BLE PRESIDENT OF INDIA, SMT. DRAUPADI MURMU ON DT 05/12/2023

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SCAN ME

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