



NIST UNIVERSITY

Institute Park, PALUR HILLS, BERHAMPUR, ODISHA -761 008



List of Faculty Members and Research Areas

NIST SUMMER RESEARCH INTERNSHIPS (NSRI) PROGRAM 2025

| Department/ Center | Name of the Faculty | Research Area/ Project Area/ Project Detail |
|-------------------------------------|-----------------------------|--|
| Applied Engineering Sciences | Dr. Manoj Ku pradhan | Design and synthesis of bio-compatible small organic molecules and it's bio-sensing applications |
| | Prof. Ratikanta Nayak | Low cost off-grid storage solution for small farmers |
| | Dr. Shrabani Mahata | Bio-sensing and energy applications of nano materials |
| | Dr. Manabendra Patra | Nanochemistry |
| | Dr. Duryodhan Sahu | Synthesis of organic and nano materials for solar energy and environmental applications |
| | Dr. Bishnukar Nayak | Cosmology |
| | Dr. Asish Kumar Mohapatra | Nanotechnology, Photocatalysis, Sensor, Quantum dot sensitized Solar cell |
| | Prof. Prasanta Kumar Behera | Polymer Chemistry, Smart materials, polymer nanocomposites |
| | Prof. Sarita Sahu | Nano materials in cosmetics |
| | Dr. Ashwini Kumar Behera | Low Energy Nuclear Interaction/Atomic collisions in weakly coupled plasma |
| | Dr. Yerra Shankar Rao | Nonlinear dynamics, Mathematical modelling in the real world problem |
| | Dr. Runu Sahu | Fluid Dynamics |
| Biotechnology | Dr. Amit Patnaik | Bioinformatics, Computational Biology and Drug discovery |
| | Dr. Abinash Dutta | Redox Biology, Developmental Biology, Epigenetics, Host-Pathogen Interaction |
| | Dr. Bibhudutta Mishra | Bioinformatics and Computational Biology |
| | | |
| Civil Engineering (CE) | Dr. Barada Prasad Sethy | Geotechnical Engineering, Foundation Engineering |
| | Prof. Sujit Kumar Rout | Geotechnical Engineering |
| | Prof. Akankshya | Environmental Science and Engineering |
| | Prof. Padmini Samal | Geographical Information System |
| | Prof. Ramakanta Choudhury | Structural Engineering |

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| | | |
| Computer Science /Technology /Application Information Technology(CST, IT) | Dr. Sudhir Ranjan Pattanaik | Wireless Sensor Network, IoT, ML |
| | Prof. Manoj Kumar Sahoo | IOT and Digital Design |
| | Dr. Susmita Mahato | Steganography and Steganalysis |
| | Dr. Manjushree Nayak | Bigdata, Machine Learning |
| | Dr. Brojo Kishore Mishra | Artificial Intelligence, Machine Learning |
| | Dr. Bhabani Sankar Gouda | Wireless Sensor Network, Data Analytics |
| | Prof. Swati Kanta Mishra | Data Analytics, Artificial Intelligence and Machine Learning |
| | Mr. Saubhagya Ranjan nath | Machine Learning ,IoT |
| | Prof. K Manoj Kumar | Artificial Intelligence, Machine Learning And Iot |
| | Prof. Dr. Arun Kumar Marandi | Software Engineering, IoT, AI and ML |
| | Prof. Bhabani Prasad Mishra | Machine Learning, vehicular platooning |
| | Dr. Ashalata Panigrahi | Information Security, Machine Learning, Artificial Intelligence |
| | Prof. Manoj Kumar Sahoo | IOT,WSN, Digital Design |
| | Prof. Soumya Ranjan Mohapatra | Android Aap development |
| | Dr. Charulata Palai | Image Processing, Soft Computing, Computer Graphics |
| | Dr. Pradeep Jena | Biometric Pattern Recognition, Data Mining, Machine Intelligence, Computer Networking |
| | | |
| Electronics and Communication Engineering (ECE) | Dr. Rajesh Kumar Patjoshi | Artificial Intelligence with VLSI, Digital VLSI Design |
| | Dr. Satya Sopan Mahato | Artificial intelligence and Solar Cells |
| | Dr. Sandipan Mallik | Semiconductor Devices, Photovoltaic, Sensors |
| | Prof. Durga Prasad Dash | Neuromorphic Architecture |
| | Prof. Mitu Baral | VLSI Design |
| | Prof. Manoj Kumar Senapati | IoT and Digital Design |
| | Dr. Asit Kumar Panda | AI based MINO antenna for 5G, ML-Enhanced IoT System |
| | | |
| Electrical Engineering | Dr. Basant Sumar Sahu | Control system, Robotics, Drone Technology, Intelligent System |
| | Dr. Preeti Ranjan Sahu | Power system |
| | Dr. Kunjabihari Swain | Biomedical, IoT, Virtual Instrumentation, Embedded System |
| | Dr. Murthy Cherukuri | Smart Grid, Power System Reliability |

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|---|---------------------------|---|
| (EE, EEE) | Dr. Sasmita Padhy | Frequency stability in microgrid |
| | Dr. Ashwini Kumar Nayak | Renewable energy |
| | Dr. Amruta Patnaik | Power system, Electric drives |
| | | |
| Master of Business Administration (MBA) | Dr. Pramath Nath Acharya | Finance |
| | Dr. Gayatri Panda | Competency management, Training and Development practices using MCDM techniques |
| | Dr. Amarnath Padhi | HRM Analytics |
| | Dr. Akankshya Patnaik | Behavior studies, Leadership, Entrepreneurship and Sustainable business practices |
| | Dr. Bhanu Prasad Behera | Multi Criteria Decision Making (MCDM) |
| | | |
| Mechanical Engineering (ME) | Dr. B. Sambi Reddy | Composite Materials and 3D Printing |
| | Dr. Prajapati Naik | Composite, Tribology |
| | Prof. Achyutananda Parida | Automobile Design |
| | Dr. Souren Misra | Computational Fluid Dynamics |
| | Dr. Sushanta Kumar Sahu | Computer Vision |
| | Dr. Parameswar Dash | Robotics, Computer integrated Manufacturing, Advanced manufacturing process. |
| | Dr. Aswini Kumar Khuntia | Heat Transfer, Robotics |