



**NIST UNIVERSITY**

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



## List of Faculty Members and Research Areas

### **NIST UNIVERSITY SUMMER RESEARCH INTERNSHIPS (NUSRI) PROGRAM 2024**

| Department/ Center  | Name of the Faculty                      | Research Area/ Project Area/ Project Detail   |
|---|--|---|
| <b>Applied Engineering Sciences</b>   | 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. Chinmay Kumar Giri                 | Numerical Linear Algebra  |
|   | Prof. Sarita Sahu                        | Nano materials in cosmetics   |
|   | Dr. Manoj Kumar Pradhan                  | Organic Synthesis, Organic Photophysical Study, DNA detection                           |
|   | Dr. Subrata Kumar Sahu                   | Summability theory and its applications   |
| Prof Simanchalo Panigrahi   | Material Science and Quantum Computation |   |
| <b>Civil Engineering (CE)</b>   | Dr. Barada Prasad Sethy                  | Geotechnical Engineering, Foundation Engineering  |
| <b>Computer Science /Technology /Application Information Technology (CST, IT)</b> | Dr. Sudhir Ranjan Pattanaik              | Wireless Sensor Network, IoT, ML  |
|   | Prof. Manoj Kumar Sahoo                  | IOT and Digital Design  |
|   | Dr. Susmita Mahato                       | Information Security  |

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|--|-------------------------------|--|
|  | Dr. Manjushree Nayak          | Bigdata, Machine Learning  |
|  | Prof. Bhabani Sankar Gouda    | Distributed Wireless Sensor Network, Edge computing , Machine Learning   |
|  | Prof. Swati KantaMishra       | Data Analytics, Artificial Intelligence and Machine Learning   |
|  | Dr. Krishna Prasad Ponneaknti | IoT, AI and ML, Deep Learning, Computer Vision   |
|  | Prof. Ruchika Padhi           | Wireless Sensor Network  |
|  |                               |  |
| <b>Electronics and<br/>Communication<br/>Engineering (ECE)</b> | Dr. Rajesh Kumar Patjoshi     | VLSI, AI and IoT   |
|  | 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 Embedded System Design   |
|  | Dr. Asit Panda                | Antenna for 5G , AI based smart IoT system   |
|  | Prof. Swadhin Mishra          | Wireless Communication   |
|  |                               |  |
| <b>Electrical Engineering<br/>(EE, EEE)</b>                    | Dr. Basant Kumar Sahu         | Advanced Control system, Robotics, Intelligent System, Autonomous Vehicles   |
|  | Dr. Preeti Ranjan Sahu        | Power system   |
|  | Dr. Kunjabihari Swain         | Biomedical, IoT, Virtual Instrumentation, Embedded System  |
|  | Dr. Murthy Cherukuri          | Smart Grid, Power System Reliability   |
|  | Dr. Sasmita Padhy             | Application of AI in Power System stability and control  |
|  | Dr. Ashwini Kumar Nayak       | Renewable energy   |
|  |                               |  |
| <b>Master of Business<br/>Administration (MBA)</b>             | Dr. Pramath Nath Acharya      | Finance  |
|  | Dr. Gayatri Panda             | Agile HR Practices, Workplace sprituality, Social cohesion, Metavers in Business management, Human Resource Resilience |
|  | Dr. Amarnath Padhi            | Human Resource Management  |
|  | Dr. Akankshya Patnaik         | Marketing, Leadership, Entrepreneurship  |

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|--|---------------------------|--|
|  | Dr. Bhanu Prasad Behera   | Multi Criteria Decision Making (MCDM)  |
|  |                           |  |
| <b>Mechanical Engineering<br/>(ME)</b> | Dr. B. Sambhi Reddy       | Composite Materials and Product Design and Development   |
|  | 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       | Robotic assembly sequence generation, Computer integrated Manufacturing, modern manufacturing process and polymer composite. |