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(Deemed to be University under section 3 of UGC Act, 1956)

## Centre for Nanotechnology Research

## Faculty Area of Research

| Sl. No | Emp. Id | Name of faculty | Designation | Area of Interest | Mobile No | Email Id |
|---|---|---|---|---|---|---|
| 1 | 11064 | Dr. Nirmala Grace A | Director & Professor HAG | • Materials Chemistry • Data-driven energy materials and devices: machine learning and materials-informatics-guided discovery of Nanomaterials, 2D Materials and composites (CNTs, Biomass-derived porous carbons, Metal chalcogenides, MXenes and related functional nanomaterials, MOFs), • Integrated with DFT and drift–diffusion modelling, • Dye-sensitized Solar Cells, • Perovskite and transparent solar cells • Flexible and printable supercapacitors and Batteries • Advanced electrochemical Sensors, • Flexible and 3D-printed biosensors, • Healthcare and environmental monitoring, • MOFs for Water vapour adsorption • Nanocoolants for Automobiles.<br>Emphasis is placed on interpretable ML models and multi-scale simulations to accelerate materials discovery from molecular design to device prototyping and real-world deployment in energy and biosensing platforms. | 9791322311 | anirmalagrace@vit.ac.in |

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| 2 | 12128 | Dr. Vimala R | Professor Grade 2 | Nanobiosensors • Healthcare diagnostics • Environmental Monitoring and Remediation • Flexible and Printed Devices | 9965204248 | vimala.r@vit.ac.in |
| 3 | 13980 | Dr. Raja Sellappan | Professor Grade 2 | Solar energy conversion (solar cells, Solar Fuels), 2D Materials, Electrocatalytic Water splitting and Photocatalysis, Photoelectrochemistry | 7708283159 | raja.sellappan@vit.ac.in |
| 4 | 13982 | Dr. Krishnamoorthi C | Professor Grade 1 | Development of: (i) Tactile and grip sensors, Neuromorphic tactile sensors for adaptive robotics. (ii) in-sensor, and near-sensor computing devices. | 9494460564 | krishnamoorthi.c@vit.ac.in |
| 5 | 14476 | Dr. Anand S | Professor Grade 1 | Flexible and Transparent Electronics: Energy storage devices, antennas, and EMI absorbers; Terahertz technology, optical antennas, and nano-communication | 7904421089 | anand.st@vit.ac.in |
| 6 | 16189 | Dr. Ashutosh Mahajan | Associate Professor Grade 2 | AI/ML and Physics-Informed Neural Networks (PINN) for Material Discovery and 2D Transition Metal Dichalcogenide (TMD) Devices | 9545489030 | ashutosh.mahajan@vit.ac.in |
| 7 | 16197 | Dr. Mangaiyarkarasi R | Associate Professor Grade 2 | Portable and Flexible Nanosensors for Healthcare Applications | 8438275739 | mangaiyarkarasi.r@vit.ac.in |

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| 8 | 11568 | Dr. George Jacob | Associate Professor Grade 1 | Synthesis of engineered nanomaterials and 2D materials for the fabrication of electrode materials in dye-sensitized solar cells. Design and fabrication of printed and flexible solar cells for indoor applications. Synthesis of high-entropy metal oxides, telluride-based nanocomposites, and pseudo-capacitive materials for energy storage applications. Synthesis and fabrication of electrodes for hydrogen ($H_2$) production. Preparation and characterization of functional inks for printed flexible devices. | 9994882510 | georgejacob@vit.ac.in |
| 9 | 16155 | Dr. Swati G | Associate Professor Grade 1 | Photonic materials and devices, Optomechanical sensing, Environmental remediation | 9818669339 | swati.g@vit.ac.in |