

Details of Seed Money/Research Grant Phase-II

| Sr. No | Project Title | Name of Faculty | Amount Sanctioned |
|---------------|--|---|--------------------------|
| 1 | Exploring the impact of global oil price and innovation for sustainability: Evidence from BRICS Economies | Dr. Chauhan Vaishaliben Harishkumar | 9,50,000 |
| 2 | Mathematical Treatment of Phenomenon arising in Fluid Flow through porous media including dynamic capillary pressure effect | Dr. Yadav Saroj Rajmani | 8,30,000 |
| 3 | Accelerator-based nuclear physics research | Dr. Patel Dipikaben Baldevbhai | 9,50,000 |
| 4 | Synthesis and characterization of Nano structural materials for photocatalytic and Gas Sensing Application | Dr. Himanshu Pandey | 9,65,000 |
| 5 | to study the structure of nucleon | Dr. Vikash Kumar Ojha | 5,35,000 |
| 6 | Entry mechanism of solar wind particles in lunar wake environment | Dr. Mithun Karmakar | 9,50,000 |
| 7 | Numerical Study of the Solar wind Plasma turbulence | Dr. Sharad Kumar Yadav | 9,10,000 |
| 8 | investigations of potential optoelectronic Material for Energy Harvesting/ Energy storage Application and device realization | Dr. Vivek Garg Dr. Shivendra Yadav Dr. Nithin Chatterji | 30,00,000 |
| 9 | Development of Low-cost experimental setup for performance evaluation of medium access control protocols and routing protocols for wireless as hoc network | Dr.Raghavendra Pal | 9,91,600 |
| 10 | Advanced MIMO GNSS receiver | Dr. Suresh Dahiya | 9,96,000 |
| 11 | Machine Learning-Based ETDS for Electric Vehicles Application | Dr. Sukanta Halder | 10,00,000 |
| 12 | Implementation of Efficient Switching Algorithms for Open-End Winding Induction Motor Drive for PV-Powered Electric Vehicles | Dr. Suresh Lakhimsetty | 10,00,000 |
| 13 | Development of impact assessment and voltage regulation approach for active distribution system embedded with EV fast Charging station | Dr. Akansha Shukla | 9,96,181 |
| 14 | Development of a health risk assessment tool | Dr.Samaranika Panda | 10,00,000 |
| 15 | Lateral-Torsional Response in Building with Different Plan Geometry under Earthquake Shaking | Dr. Tamizharasi Gandhi. | 10,00,000 |
| 16 | Design of Efficient code dissemination protocol for Internet of Things(IOT) | Dr. Alok Kumar | 9,50,000 |

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| 17 | Experimental and theoretical investigations on molecular interactions underlying atmospherically relevant compounds at temperatures ranging from ~78 K-400 K | Dr. Arup Kumar Ghose | 10,00,000 |
| 18 | Design, Synthesis, and characterization of dioxide molybdenum complex on functionalized graphene oxide for epoxidation of olefins | Dr.Lata Rana | 10,00,000 |
| 19 | Paper-based lateral flow assay to detect specific antibody | Dr. Subrata Dutta | 10,00,000 |
| 20 | Mimicking the Properties of Antifreeze Glycoproteins: synthesis and characterization of Glycoconjugates based Supramolecular System for Ice Growth Inhibition and Antifreeze Studies | Dr. Areti Sivaiah | 10,00,000 |
| 21 | Experimental study of turbulent convection in a rayleigh-bernard cavity filled with Nanofluid and biphasic catalyst | Dr. Rajesh Choudhary | 9,84,000 |
| 22 | Development of multivariate Electro-Chemical Discharge grinding Machine and Experimental Investigations | Dr. Ram Singh Yadav | 9,75,000 |
| 23 | Design and testing of aero elastically tailored curved composite CFRP panel with and without cut out under fatigue and static loading(experiment and numerical) | Dr. Rayasam Srilakshmi | 9,84,000 |
| 24 | Design and fabrication of wire arc additive Manufacturing system and investigate the deposition pattern on interlayer microstructure of Inconel and titanium alloys | Dr. Krishna Kishor Mugada | 9,85,000 |
| 25 | Numerical and Experimental investigation of refrigerator system for R134a and R1234f. | Dr. Yogendra Vasantrya Kuwar | 9,80,000 |
| 26 | Manufacturing and predications of the weld quality of Al-Ti alloys Bi-Metallic Clad Sheeds by Interlayer Assisted Friction Stir Welding | Dr. Raju Prasad Mahto | 9,80,000 |
| 27 | An integrated biorefinery approach through Cascadian of thermochemical and biochemical conversion processes for sustainable energy and value-added products | Dr. Sorate Kamlesh Arun | 9,78,000 |
| 28 | Design, Development, and performance evaluation of symmetric and asymmetric spur gears made of cooper powder-filled polymer composites. | Dr. Susanta Behera | 9,80,000 |
| 29 | development of Low-density high strength entropy alloys and their composites for automobile application | Dr. Neeraj Srivastava | 9,85,000 |
| 30 | Analysis of Deformation and recrystallization behaviour in two-Phase Fr-Cr-Ni alloy based on microstructure and texture evolution Experiment & Simulation | Dr. Amit Kumar | 9,80,000 |
| 31 | Characterization of Ultrafine-grain sample fabricated using modified serve plastic deformation techniques | Dr. Sunil Kumar | 9,70,000 |