

## Seed Grant for Interdisciplinary Research (2023-24)

S. No	Name	Designation & Dept.	Project Title	Duration (Months)	Sanctioned Amount (Lakhs)
1.	Dr. D. Prabhu	Asst.Prof. / Biotech	Discovery of potent anti-filarial agents towards the treatment of Lymphatic filariasis	12	2.60
2.	Dr. C. Rajkuberan	Asst.Prof. / Biotech	Enhanced Anticancer activity of polymeric betanin nanostructures functionalized with Graphene oxide	12	1.00
3.	Dr. S. Rajamanikandan	Asso. Prof. / Biochem	Design of Anti-quorum sensing molecules: a computational approach to combat Acinetobacter baumannii infections	12	2.60
4.	Dr. M. Gomathi	Asst.Prof. / Biotech	Effect of Triterpenoids from Centella asiatica using Valproic Acid Induced Autism Rat Model	12	2.00
5.	Dr. V. Dhivya	Asst.Prof. / Biotech	Identification of DJ-1 mutation and its implication on ROS and ATP levels in Parkinson's disease (PD) patients of Tamil Nadu population	12	2.60
6.	Dr. M. Bharathi	Asst. Prof. / Biochem	Identification of lead compounds from sea weeds using computational tools and ascertaining the therapeutic effects in inhibiting the growth of lung cancer cells in vitro	12	2.60
7.	Dr. V. Siva	Asst.Prof. / Physics	A search for high energy density with improved cycle life electrode for advanced storage systems from porous ZIF-67/PEDOT/Metal sulphide nanocomposites	12	2.00
8.	Dr. R. Suresh	Asso. Prof. / Chemistry	Fabrication of metal ion ( $M^{n+} = Fe, Mo$ and $Zn$ )-doped $BiVO_4$ yellow cool pigments	12	1.50
9.	Dr. G. Kalaiarasi	Asst.Prof. / Chemistry	Synergistic Engineering of pincer based chelators appended Ni(II) and Zn(II) complexes towards their biological, Catalytic and sensor applications	12	2.60

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10.	Dr. D. Manoj	Asst.Prof. / Chemistry	Engineering Hetero - nanoparticles encapsulated within porous graphene as High - Performance Electrode for detection of toxic metal ion sensing	12	2.00
11.	Dr. A. Shameem	Asst.Prof. / S & H(Phy)	Investigations on reduced grapheme oxide / rare earth metal doped metal molybdate nanocomposites prepared by microwave-assisted combustion method for enhanced environmental and energy storage applications	12	1.90
12.	Dr. N. Dineshababu	Asst.Prof. / S & H(Phy)	Novel Z-Scheme Magnetic Retrievable NiFe <sub>2</sub> O <sub>4</sub> Based Binary and Ternary Nanocomposites for visible - Light - Driven Photocatalytic Applications	12	1.60
13.	Dr. K. Manikandan	Asst.Prof. / Physics	Designing Metal Decorated Noble Carbon Nanostructures (Graphyne, Biphenylene) and Transition metal Carbo-Chalcogenides (TMCC) for High- Capacity Hydrogen Storage Devices	12	2.60
14.	Dr. A. Manikandan	Asso. Prof. / Chemistry	Simple combustion synthesis and characterization of metal molybdate nano-catalysts for supercapacitor application	12	2.60
15.	Dr. B. Lanitha	Asso.Prof. / CSE	AI-Powered System for Early Detection and Treatment of Plant Diseases	12	1.00
16.	Dr. J Alfred Daniel	Asst.Prof. / CSE	Wearable Assistive Devices for Gait Analysis	12	1.00
17.	Dr. M. Mohan Kumar	Asso.Prof. / Computer Science	Indigenous software to avoid unauthorized access of data from smart device	12	2.60
<b>TOTAL</b>					<b>32.80</b>