

BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

YELAHANKA BENGALURU - 560 064

Date: 30.06.2023

Research Projects - Ongoing

Sl. No.	Name of the PI/Co-PI	Department	Title of the Project	Sponsoring agency	Amount Rs. in lakhs	Date and Financial Year of sanction
1	Dr. Daruka Prasad (PI)	Physics	Zinc oxide Nanocomposites preparation using modified sono chemical method suitable for solar cells and battery applications	VGST-RFTT	5.00	30-01-2018 2017-18
2	Dr. Ramakrishnappa (PI)	Chemistry	Chemical functionalization of Si with 2Dstructures: Anode materials for lithium ion battery with significantly improved volumetric capacity	Department of Science and Technology-Materials for Energy Storage (DST-MES)	35.508	29-06-2018 2019-22
3	Dr Jyoti Roy Choudhuri (PI)	Chemistry	Application of substitutionally doped graphyne, graphdiyne and pentagraphene nanomaterials in Lithiumion battery: An ab initio study	DST-TARE	18.30	14-03-2019 2019-22
4	Dr. Bharathi M.A (PI)	AI&ML	Establishment of centre for design and research of health care applications using Artificial Intelligence	VGST-K-FIST	20.00	27-12-2019 2019-20
5	Dr. Jyoti Roy Choudhuri (Co-PI)	Chemistry	New 2-D carbon-based anode materials in Na-ion battery: Effects of heteroatom doping on Na storage capacity, charge mobility and open circuit voltage via ab initio simulation study	DST-CRG	5.00	29-01-2020 2020-23
6	Dr. Jyothi C Abbar (PI)	Chemistry	Organic Electroactive Materials for High Performance Mg-Ion Rechargeable batteries	DST-TARE	18.30	15-12-2020 2019-22

7	Dr. Kiran M.D (PI) (Dr. Sangamesh)	ME	Infrastructure development for synthesis and fabrication of lead-free	VGST-K-FIST(L1)		19-02-2021
	(D1. Sungamesii)		piezoelectric materials and it's devices		15.00	2020-21
8	Dr. C Kavitha	Physics	Efficiency improvement of ultra-	VGST-K-FIST(L2)		19-11-2021
	(PI)		capacitors using binary metal oxide nano composites		20.00	2021-22
9	Dr. Suresh Kumar	Chemistry	Edge functionalized graphene	DST-SERB-Teachers Associateship		26-01-2022
	(PI)		nanoplatelets with quinones as	for Research Excellence (TARE)	18.30	
			cathode materials for Li-ion battery applications			2021-24
10	Dr. Bharathi	AI&ML	A product of Risk Estimation in	VTU – Research Grant Scheme -		
	Malakreddy A (PI)		Neurocognitive Disorders, Enabled with radio genomics and Digitised	2021		02-03-2022
	Dr. G. Lohtin (CoPI)		Neurocognitive Test Batteries		15.00	02 03 2022
			(Development of Imaging Analytics			2021-22
			Pipeline for oncological medical			
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11	Dr. Seema Singh (PI)	ETE	An Automated Support System for	VTU – Research Grant Scheme - 2021		02-03-2022
	Mrs. Chandra Prabha		Diagnosis of Cervical Cancer deep learning based artificial intelligence	2021	11.00	
	R (CoPI)		for mass screening			2021-22
12	Dr. Deepak M S	Civil Engg.	Advancement and Applications of High-	DST-SERB-Teachers Associateship		
			Strength High-Performance Concrete	for Research Excellence (TARE)		31-10-2022
			Utilising Electrical Arc Furnace Steel		18.30	2022 25
			Slag Residue and Copper Slag Aggregates			2022-25
13	Dr. Sabina Rahaman	ECE	Fabrication of low-cost	DST-SERB-Teachers Associateship		31-10-2022
			Cu3BiS3/ZnS - based thin film solar	for Research Excellence (TARE)	18.30	
			cell using ultrasonic spray pyrolysis			2022-23
14	Dr. Basavaraj R B	Physics	Inorganic Organic Hybrid Core/Shell	VGST-K-FIST(L1)		21-01-2023
			Materials for Optoelectronic and		15.00	2022-23
			Security ink Applications Total INR (Lakhs)			
		233.008	-			