



DEPARTMENT OF ECE

Funding applied from Jan 2023 onwards

S.No	Faculty Name (along with Co Investigators)	Project Title	Agency Name	Duration	Amount	Date Of Submission	Reference Number/ File Number
1	Dr P Baraneedharan	Defects introduced activated porous carbon / Bi ₂ WO ₆ nanocomposites – An alternative materialistic strategy for photocatalytic nitrogen fixation	SERB - SURE	36 Months	29,88,840	Revised Submission - 7th Jan, 2023	SUR/2022/004034
2	Dr P Baraneedharan	Capacitive Deionization (CDI) using novel Mxene/nanocomposites for costeffective wastewater treatment	UGC - Dr. D. S. Kothari Research Grant for Newly Recruited Faculty Members	24 Months	10,00,000	2nd Jan, 2023	UGCES-22-OB-TAM-M-NRF-11155
3		Microwave based Breast Cancer detection	SERB -POWER GRANT		27,20,000	31st Jan 2023	SPG/2023/000458
4		Wireless charging using rectenna	SERB CRG GRANT		5000000	15/05/2023	
5		Innovation and entrepreneurship	DST TECHNOLOGY DEVELOPMENT PROGRAM FUND		300000	03/07/2023	
6		IIC Innovation Challenge-2 projects	AICTE-Yukti Innovation Challenge				Second stage of evaluation
7		Dr.K.Indhumathi	MSME Idea Hackathon				
8	Dr.Raji Pandurangan,	Deep Learning and Image	DST-ST FOR	36	21,30,000	7.7.2023	TPN / 95322



DEPARTMENT OF ECE

	Dr.Nirmala Devi.K, Dr.S.Asha	Processing Based System for Combating Online Harassment and Promoting Safe Digital Spaces for Women	WOMEN	MONTHS			
9	Dr.AK.Srivatsav, Dr.Mahendran, Dr.Renugadevi	Performance Evaluation Of 5G RF Materials	DST		41,80,000	15.03.2023	182023012793
10	Dr. A. J. Heiner, Dr. Imran Hussain	An Innovative Flexible Lab on Paper (LoP) as Wearable Device Based on 2-D Ti3C2 MXene – MO Layered Hetero-Junction to Detect Hazardous Gases	TNSCST	24 Months	4,80,000	17/08/2023	
11	Dr.Sivanandam S Dr.Baraneedharan P	Design of a non-invasive health screening device and physical endurance support system for the elderly population	TIDE-DST	3 Years	24,98,000/-	30/9/2023	TPN / 101039
12	Dr.K.Gokulkannan Dr.S.Sathishbabu	Autonomous Transporaation Eco System- Sensor Fusion, AI and Cyber Security for safe and Efficient Mobility	DST - BRICS	3 years	1,08,25,000/-	30/09/2023	TPN/102360
13	Dr.Sheeba joice	Proposal Title - Resilience Reinforced: Self-Healing Mechanisms for ECU Denial of Service (DoS) Attacks in Connected Autonomous Vehicles	SERB-SURE	3 years	5,00,000	15-Dec-2023	SUR/2023/004998



DEPARTMENT OF ECE

TNSCST 2023 PROJECT

	Coordinator/ STUDENT NAMES	Co-coordinator	Topic for TNSCST project	Amount
1	Dr.K.Mahendran	Dr.K.Nirmala devi	Performance Analysis of materials used for 5G antennas	4,80,000
2	Dr.K.Indhumathi		Magnetoresistive resonator for medical applications	5,00,750
3	Dr. A. J. Heiner	Dr. S. Imran Hussain	An Innovative Flexible Lab on Paper (LoP) as Wearable Device Based on 2-D Ti3C2 MXene – MO Layered Hetero-Junction to Detect Hazardous Gases	4,80,000
4	Dr.Sugitha N	Dr.A.Gandhimathinathan	Monitoring using LORA and machine learning algorithm	4,80,000

MSME 2023 PROJECT

S.No	Faculty Name (along with Co Investigators)	Project Title	Date
1	Dr.K.Indhumathi	RF Shielding Paint for domestic/commercial applications	Sep 2023
2	Dr.Kanagamalliga S	Automated Vehicle Motion Detection System for Surveillance Video Analysis	Sep 2023
3	Dr.Latha R	Wireless Body Area Network Based Telemedicine	Sep 2023
4	Dr.Vanitha M	AgriBuddy AI-Driven Chatbot for Sustainable Plant Care. Embrace Precision Farming with Real-Time Insights and Personalized Plant Care Tips.	Sep 2023
5	Ms.Sakthi	Application of hand detection in ppt and motion detection in unity for animation using python and c in raspberry pi	Sep 2023
6	Dr.M Sowmiya Manoj	Enhanced dual authentication using multimodal biometric framework and deep learning technique	Sep 2023
7	Ms.A.Anjaline Jayapraba	An Infrared High Accuracy Hand Held Device for Early Breast Cancer Detection.	Sep 2023



DEPARTMENT OF ECE

8	Dr.N.Sugitha	Rician noise reduction using combined bilateral filter and multiresolution transforms in magnetic resonance images	Sep 2023
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Funding applied from June 2022 onwards									
<u>S.N</u> <u>o</u>	Faculty Name (along with Co Investigators)	Designatio n	Departmen t	Project Title	Agency Name	Duratio n	Amount	Date Of Submissio n	Reference Number/ File Number
1	Dr.K.Indhumathi	Associate Professor	ECE	Surface Acoustic Wave Filters for UHF and L-Band frequencies	ISRO	2 Years	1,694,880.0 0	10/06/2022	RESPOND-URSC- 2022-026-003
				Wireless Charging Device	MSME Idea Hackatho n	1 year	15,00,000	14.11.2022	
2	Dr. S. Imran Hussain (PI), Dr. R. Indhu (Co-PI)	Assistant Professor	ECE	Bifunctional Nanoencapsulate d Phase Change Materials with Carbon based Metal Oxide Nanostructures for Energy Storage Applications	TNSCST	2 Years	4,95,000	10.03.2022	



DEPARTMENT OF ECE

3	Dr.M.Selvi	Professor	ECE	Data Storage and Optical computing utilizing new Optically Stimulated Luminescence OSL phosphors	DST TMD AMEST		43, 79,830/-	03/10/2022	DST/TMD/AMEST-2022/2022/29
4	Dr. Sheeba Joice C Mr. Srinivasan	Associate Dean/STLC Asst. Professor/ECE	ECE	An Embedded System for Vegetable Cultivation using IoT	MSME	1 Year	Rs. 15,00,000	14.11.2022	
5	Dr.P.Baraneedharan	Assistant Professor	ECE	Defects introduced activated porous carbon / Bi ₂ WO ₆ nanocomposites – An alternative materialistic strategy for photocatalytic nitrogen fixation	UGC - Dr D S Kothari Research Grant for newly recruited faculty		Rs: 10,00,000/-	10.10.2022	UGCES-22-OB-TAM-M-NRF-11155
6	Dr.P.Baraneedharan	Assistant Professor	ECE	Defects introduced activated porous carbon / Bi ₂ WO ₆ nanocomposites – An alternative materialistic strategy for photocatalytic	SERB - SURE		Rs: 29,88,840/-	7.10.2022	SUR/2022/004034



DEPARTMENT OF ECE

			nitrogen fixation					
Intramural funding applied								
<u>S.No</u>	Faculty Name (along with Co Investigators)	Designation	Project Title	Agency Name	Duration	Amount	Date Of Submission	Reference Number/ File Number
1	Dr.Sheeba Joice	Associate Dean	An Embedded System for Vegetable Cultivation using IoT	SEC	1	4,70,000	24.09.2022	
2	Dr.Raji Pandurangan	Associate Professor	Development of Low-Cost, Remotely Operated Platform for Bathymetry Survey of Surface Water Bodies	SEC	1	3 lakhs	24.09.2022	
3	PI-Dr M.Selvi CoPI Dr.AR Lakshmanan Dr.L.Sangeetha	Associate Dean	Development of OSL phosphor for High Capacity Optical Data Storage.	SEC	1	3 lakhs	24.09.2022	