



**GRANT RECEIVED / APPLIED**  
**RESEARCH INITIATIVES TAKEN BY THE DEPARTMENT FACULTY MEMBERS**  
 Funding Proposals Applied and Sanctioned  
**ACADEMIC YEAR 2024-2025**

S.No	Name of the Funding Agencies	Type of the Event	Fund Proposed	Faculty Coordinator	Status
1.	TANSCST	EEG-Based Home Automation System Using Deep Neural Squeeze Adversarial Network	Rs.3.83 lakhs	Dr. K. Sivasankari, Professor/ECE	Applied
2.	TNSCST	Certain Investigations on Thermal Image Processing based Animal Recognition System to Resolve Wildlife Conflict	Rs.4.25 Lakhs	Dr. T. Surya, AP/ECE	Applied
3.	ICSSR	Real time speed synthesis with Generative Artificial Intelligence models	Rs.30 Lakhs	Dr. T. Ravichandran, Professor/AI&DS Dr. V. Nivedhitha, ASP/ AI&DS	Applied
4.	TANSCST	AI-Based Predictive Algorithms for bionic Hand action Recognition	Rs.5 lakhs	Dr. T. Ravichandran, Professor/AI&DS	Applied
5.	TANSCST	AI-Powered Analytics for Enhancing Precision Agriculture and Crop Yield Forecasting	Rs.4 lakhs	Dr. V. Nivedhitha, ASP/ AI&DS	Applied
6.	ICSSR	Empowering Communities for Safe Drinking Water Access in Kinathukadavu, Tamil Nadu: Sustainable Solutions and Key Challenges	Rs.27 Lakhs	Dr.P. Ravi Kumar, Professor/MCT Dr.R.Vignesh, ASP/Civil	Applied

7.	ICSSR	Integrating Artificial Intelligence for Spatiotemporal Assessment of Climate Change and its Impact on Vegetation	14 Lakhs	Dr. M. Malini, ASP/CS&BS	Applied
8.	ANRF (SERB)	Empowering Communities: A Holistic Framework for Children's Safety and Well-Being	Rs.14.4 lakhs	Dr. R. Mekala, Professor/AI&DS	Applied
9.	TANSCST	A hybrid Artificial Neural Network and Extreme Learning Machine driven Intrusion Detection System	Rs.3.50 Lakhs	Dr. R. Mekala, Professor/AI&DS	Applied
10.	ICSSR	Lightweight Protocols for Enhancing Security in IoT Networks	Rs.9 Lakhs	Dr. D. Deepa, ASP/Mech	Applied
11.	DST	Experimental Investigation of Mechanical Properties of Carbon Fiber Reinforced Polymer Nano Composite for Commercial and Automotive Applications	18.70 lakhs	Dr.A.Karthik, ASP/MCT Dr.P. Ravi Kumar, Professor/MCT	Applied
12.	TANSCST	Advances of Composite Materials in Automobile Applications	Rs.5 lakhs	Dr.A.Karthik, ASP/MCT Dr.P. Ravi Kumar, Professor/MCT	Applied
13.	Council of Scientific and Industrial Research	Precision Revolution: Exploring Cutting-Edge Advances in Engineering Metrology Techniques	Rs.1 lakhs	Dr.P. Ravikumar, Professor/MCT Dr.A.Karthik, Associate Professor/MCT	Applied
14.	TNSCST	A One Day National Seminar On Innovations and Challenges in Precision Measurement: Shaping the Future of Metrology.	Rs. 0.1 lakhs	Dr.P. Ravikumar, Professor/MCT Dr.A.Karthik, Associate Professor/MCT	Applied
15.	ATAL	Ground breaking 3D Manufacturing	Rs.1 lakhs	Dr.P. Ravikumar, Professor/MCT Dr.A.Karthik, Associate Professor/MCT	Applied

16.	DIT	Harnessing Digital Innovations for Sustainable Agricultural Growth: A Roadmap to 2030	Rs. 0.5 lakhs	Dr.P. Ravikumar, Professor/MCT	Applied
17.	AICTE	National Conference on Association of Collaborative Engineering and Technology (ACET 2025)	Rs.2 lakh	Dr.P. Ravikumar, Professor/MCT	Applied
18.	TNSCST	Harnessing Digital Innovations for Sustainable Agricultural Growth: A Roadmap to 2030”	Rs. 0.2 lakhs	Dr.P. Ravikumar, Professor/MCT	Applied
19.	ATAL	AI-Driven Innovations: Machine Learning for Next-Generation Vehicles	Rs.3.5 lakhs -	Dr. S. P. Udayakumar, Profeso/CSE Mr. V. Balamurugan, Assistant Professor / CSE	Applied
20.	TNSCST	Generative AI in Drug Design and Development: Bridging the gap between Machine Learning Models and Clinical Decision Making	Rs. 0.7 lakhs	Mrs. M. Nisha, Assistant Professor / CSE Mrs. S. Jeevitha, Assistant Professor / CSE	Applied
21.	SERB	Predictive Analytics in Research AI Tools for Enhanced Research Papers And Grant	Rs.1.5 lakhs	Mrs. M. Nisha, Assistant Professor / CSE Mrs. K. Gomathi, Assistant Professor / CSE	Applied
22.	IEI Technical Webinar	Harmonizing Innovation: Integrating Generative Design Principles with AI-Powered Personalization in Engineering and Software	-	Mrs. M. Nisha, Assistant Professor / CSE Mrs. S. Jeevitha, Assistant Professor / CSE	Applied
23.	AICTE-National Conference	Association of Collaborative Engineering and technology	Rs.6 lakhs	Mrs. M. Nisha, Assistant Professor / CSE Mrs. S. Jeevitha, Assistant Professor / CSE	Applied
24.	DST	Forensic Analysis of Non Linear Filtering Based Artificial Neural Networks	Rs.78 lakhs	Dr. M. Jenifer, Associate Professor/CSE Mrs. K. Gomathi, Assistant Professor / CSE	Applied
25.	DST	SmartSat-Farm360-A Policy Framework for Integrating	Rs.41.05 lakhs	Dr. K. Sivasankari, Professor/ECE Mrs. M. Nisha, Assistant Professor / CSE	Applied

		Satellite, IoT, AR/VR and Quantum Technologies into Sustainable and Inclusive Precision Agri-Tech Adoption in India			
26.	The Institute of Engineers	From prototyping to production: Embedded system Development for IoT products.	Rs. 0.3 lakhs	Dr. K. Sivasankari, Professor/ECE	Applied
27.	IEI	A National level one Day workshop on Accelerating AI in data driven 5G cloud and Virtualization	Rs. 0.3 lakhs	Dr. K. Sivasankari, Professor/ECE	Applied
28.	ICSSR-RMM	Human Animal Conflict	Rs. 0.9 lakhs	Dr.D.Deepa, Associate Professor / Mech	Applied
29.	TNSCST	AI-Based Predictive Algorithms for bionic Hand Action Recognition	Rs. 5 lakhs	Dr.T.Ravichandran, Professor /AIDS	Applied
30.	ATAL	Shaping the Future of Production with 3D Printing and Additive Techniques	Rs.3.5 lakhs	Dr.P. Ravikumar, Professor/MCT Dr.A.Karthik, Associate Professor/MCT	<b>Received</b>
31.	TNSCST	EEG-Controlled Smart Home System for Disabled People	0.075Lakhs	Dr. K. Sivasankari, Professor/ECE	<b>Received</b>
32.	TNSCST	AI based Ocean Cleanup of Debris and Micro Plastics	0.075Lakhs	Mrs.V.Krithika, Assistant Professor/CSE	<b>Received</b>
33.	TNSCST	Low cost Myoelectric Hand	0.075Lakhs	Dr.A.Karthik, Associate Professor/MCT	<b>Received</b>
34.	AU-Naan-Mudhalvan	Smart Fish: AI-Driven Fish Resource Identification System	0.10 lakhs	Mrs. K. Gomathi, Assistant Professor / CSE	<b>Received</b>
35.	AU-Naan-Mudhalvan	Public Toilet Navigator	0.10 lakhs	Mr.C.Rajasekar, Assistant Professor / MCT	<b>Received</b>