

List of Ongoing Projects

Investigators	Dept	Project Title	Agency	Scheme	Collaborator	Project Start Year	Amount in Lakhs
Dr.C.Bhagyanathan, Dr.P.Karuppuswamy, Dr.V.Rukkumani	Mech/EIE	Technology Development of sustainable homogenizes aluminium alloy production using AI- Collaborative robot integration in advanced recycling process to suit SMEs	Ministry of Mines	Science and Technology Programme	NA	December 2025	99.8
Dr.P.Karuppuswamy	Mechanical	Installation of digester for conversion of vegetable and agro waste into bio-gas along with distribution system for rural community	Unnat Bharat Abhiyan	-	-	-	1.0
Dr. Anuradha, Dr.A Grace Selvarani	M.Tech CSE	Developing a Techno-Managerial Framework to Accelerate MSMEs Transition from Conventional to Contemporary Technologies through Academia-Industry Partnerships towards a Resilient, Sustainable, and Smart Innovation Ecosystem	ANRF/SS H/2025/00 0078/CE	-	Dr. Vidya kala K	May 2025	150
Dr. R. Raveen	M.Tech CSE	Predictive Food Safety Monitoring Using Smart Sensors	IDEATN0 29112	-	Abhiraami SP	April 2026	15.04
Dr.G.Gopu	ECE	Smart Blood Circulation Booster	Frontier Technology in MSME	Frontier Technology	-	Sep 2026	15
Dr.B.Sharmila, Dr.D.Devasena	EIE	Cutting Edge Artificial Intelligence for Textile Fabric Quality Inspection System	CSIR-EMR-II	ASPIRE	-	June 2024	28.38
Dr.K.Srinivasan, Dr.V.Rukkumani, Dr.M.Nagarajapandian	EIE	Development of IoT based Power Generation System using Smart Hybrid Energy Generation Tree	UBA	Rural Development	-	Oct 2025	1
Dr.A.Murugarajan, Dr.R.Sudhakar	RA	Smart Autonomous Ground Vehicle (AGV/AMR) for Multi-Domain Material Transport in Industrial Environments	AICTE Research Promotion Scheme (RPS)	RPS	NA	June 2026	32.48
Dr.A.Murugarajan, Dr.R.Sudhakar	RA	Industrial Robotics	CSR	CSR	SREC-Craftsman Automation, Coimbatore	July 2025	43.37
Dr.A.Murugarajan, Dr.R.Sudhakar	RA	Hirotec - Industrial Robotics workcell	CSR	CSR	SREC-Hirotec, Coimbatore	Jan-Feb 2026	55.0 (Phase 1 and 2)

List of Completed Projects

Investigators	Dept	Project Title	Agency	Scheme	Collaborator	Project Start Year	Amount in Lakhs	Duration
Dr.C.Bhagyanathan, Dr.P.Karuppuswamy	Mech	Technology Development of Recycling of Aluminium Alloys for Industrial Applications	DST	AMT	CSIR-NIIST, Trivendram	June 2015	118.32	2
Dr.C.Bhagyanathan, Dr.P.Karuppuswamy	Mech	Technology development to recycle assorted aluminium alloy scraps with a capacity of 1 ton/day of aluminium alloy ingots to suit SME's	DST	WMT	-	Aug 2021	53.82	2
Dr.C.Bhagyanathan, Dr.P.Karuppuswamy	Mech	Un-diluted recycling of cast aluminium alloys containing high Fe impurity suitable for SMEs	Ministry of Mines Science and Technology	-	JNARDDC, Nagpur & Dr.BML Munjal University	May 2022	88.57	2
Dr.C.Bhagyanathan, Dr.P.Karuppuswamy	Mech	An optimal approach for the retrieval of value-added substances from secondary aluminum black dross	Ministry of Mines Science and Technology	-	JNARDDC, Nagpur	December 2025	56.64	2
Dr.P.Chandramohan, Dr.R.Raghu	Mech	Alleviation of black skin formation on anodizing of additive manufactured (AM) AISi10Mg alloy components and enhancement of corrosion performance	Aeronautics Research and Development Board	Grants in Aid	-	May 2023	25.04	2
Dr.M.RM.Krishnappa, Dr.Anuradha	Physics and CSE	Premenstrual Syndrome's Detection Using Brain Waves And Recommending Suitable Yoga Theraphy	TNSCST	TNSCST	-	-	1.8	2
Dr. Deepa. B. Prabhu, Dr. K. Uthayarani	Physics and BME	Rapid manufacture of Biodegradable nanofibers for wound healing applications	DST	AMT	-	Oct 2023	41.8	2

Investigators	Dept	Project Title	Agency	Scheme	Collaborator	Project Start Year	Amount in Lakhs	Duration
Dr. J. Selvakumar	M.Tech CSE	-	AUCFR	Seed Research Grant	Dr. P. Pabitha	April 2024	1	1
Dr. Moorthi Pichumani, Mr.A.Dinesh	Nano and CIVIL	Applications of self-sensing cement nano-composite developed using conductive materials for real time structural health monitoring	DST-TDP	DSTTDP	-	Feb 2023	25.53	3
Dr.S.Hema	CIVIL	Self treating sustainable rainwater harvest pipe	IIT Madras	Idea to Impact Challenge	-	March 2025	0.5	1
Dr. J. Selvakumar	M.Tech CSE	Agentic AI (Thrust Area: Artificial Intelligence and Data Science)	AICTE/VAANI/2.0/2025-26/143/2374716314	-	Dr. J. Selvakumar, Dr. R. Anuradha	June 2025	2	1
Ms. Hamithra Jothi.D	M.Tech CSE	Q-SENTINEL (A Hybrid Quantum Classical Federated Learning Framework for Real-Time Prediction)	Reference Track: HDFCH00960557783	-	Ms. Hamithra Jothi.D, Ms. J. Jeba Prathicka	March 2026	0.5	-
Shanthini E., Dr.R.Karthikamani	ECE	AI based Diagnosis and Therapy for Autism using VR	Chanakya Fellow Application	-	-	July 2022 (2023)	2.4	-
Dr. S. Jayanthi	ECE	Digital Solutions to Combat Covid-19	AICTE-ISTE	-	-	Sep 2021	0.93	-
Mrs. E. Shanthini	ECE	Exploring Ancient Poompuhar using Virtual Reality	TNSCST	-	-	March 2022	0.075	-
Dr.G.Gopu	ECE	Predictive Analytics on Early Diagnosis and Progression of Alzheimer's Disease using Deep Learning	SERB	TARE	-	Nov 2022	18.3	-
Dr.G.Gopu	ECE	Epidemiologic Study on Persistent Organic Pollutants as a Cause of Type II Diabetes and High-Performance Algorithms for Diagnosis Using CPL	AICTE-RPS	-	-	Nov 2011	12	-

Investigators	Dept	Project Title	Agency	Scheme	Collaborator	Project Start Year	Amount in Lakhs	Duration
Dr.N.Sathish Kumar	ECE	Implementation of MIMO-OFDM Receiver for 5G Real-Time Wireless Video Streaming	AICTE-RPS	-	-	Aug 2020	13.51	-
Dr.Y.Dhashan, Dr.D.Devasena	EIE	Development of Self Cut-off socket for conversation of energy and safety of home appliances and Humans (Let me Turn OFF)	MSME	-	-	June 2025	15	-
Dr.A.Murugarajan, Dr.R.Sudhakar	RA	byteFactory BI (Smart Manufacturing)	-	-	SREC-Maxbyte	-	25.20	1
Dr.A.Murugarajan, Dr.S.Krishnakumar	RA	Machine Vision System procured under CSR Fund; Final Year students undertaking project	CSR	CSR	Craftman Automation Pvt. Ltd, Coimbatore	April 2025	0.80	1
Dr.A.Kishore Kumar	RA	PS BOT	Anna University	TNSCST	-	October 2023	0.075	1
Dr.A.Kishore Kumar	RA	Marine Plastic Retrieval System: A Remote Operated Vehicle Approach	Anna University	Naan Mudhalvan	-	January 2025	0.10	1
Dr Hemalatha G	RA	Innovative Drone Systems for Disaster Response	Anna University	Naan Mudhalvan	-	Jan 2024	0.10	1
Dr.K.Sukkiramathi	Maths	Curriculum-based math-lab for school students	UBA	-	-	July 2024	0.5	1
Dr.R.Santhi	Maths	Implementation of Vedic mathematical concepts and their Application in Rural Government School Children	UBA	-	-	July 2024	0.5	1