

Summary of Internal Faculty Projects Funded by ARD

Academic Year	No. of Projects approved
2025 – 2026	4
2024 – 2025	6
2023 – 2024	6
2022 – 2023	2
2019 – 2020	5
2018 – 2019	9
2017 – 2018	7
2016 – 2017	10
2015 – 2016	3
2014 – 2015	5
2013 – 2014	3

2025-2026

S. No.	PI	Co-PI	Title	Dept.	Amount (Rs)
1	Dr. M.R.Thansekar Prof/MECH	Dr. D.Muthukrishnan AP/MECH Mr. M.Mohanraj, AP/MECH	Integrated CFD– Machine Learning Framework for Predicting Heat Transfer	MECH	41,000/-
2	Dr. P.Udayakumar, Prof. & Head/MECH	Mrs. B.Devi, AP/MECH	Analysis of Physio- Mechanical, Thermal, Optical, Water Barrier and Antimicrobial properties of PVA/Sapindus Mukorossi Seed Shell Powder Biofilm	MECH	29,100/-
3	Dr. P.Ganeshkumar, Prof. & Head/IT	Mr. J.Stalin, AP/IT	IntelliSpace: The Future of Smart Office Automation	IT	76,000/-
4	Mrs. T.Suganya, AP/CSE(CS)	Mrs. M.Fathima John, AP/CSE(CS) Dr. J.S.Kanchana, Prof. & Head/CSE(CS)	Modern Safety Device for Women	CSE (CS)	22,600/-

2024-2025

S. No.	PI	Co-PI	Title	Dept.	Amount (Rs)
1	Dr.D.MuthuKrishnan AP/Mech	Mr.M.Mohanraj, AP/Mech Dr.M.R.Thansekar Prof/Mech	Influence of short time post weld heat treatment and pre weld heat treatment on the performance of friction stir welded AA6101-T6 & AA1350 Aluminium sheets	MECH	24,900/-
2	Dr. D.Pradeep Kannan Prof/EIE	Mr. S. Nallathambi AP/Mech Dr. P. Sabarinath, AP/Mech	Design and development of various agro waste enriched fuel blocks for domestic and industrial applications	EIE/ MECH	22,000/-
3	Mrs. T.Sugumari AP/ECE	Mr.S.Ravisankar AP/ECE Mrs.R.Angayarkanni AP/ECE	Momordica charantia leaf disease detection and treatment using agricultural mobile robot	ECE	40,400/-

2024-2025

S. No.	PI	Co-PI	Title	Dept.	Amount (Rs)
4	Mr.S.Selvakumar, AP/ECE	Dr.S.C.Sivaprakash, Prof/ECE Mr.S.R.Naresh, ASP/ECE Prof.P.Balan, AP/ECE	Innovative ventilated Seats for Bike Comfort Enhancement	ECE	23,000/ -
5	Dr. B. Tamilselvi, AP/Chemistry	-	Electrochemical Approach of defending from deterioration of mild steel using microbial samples	CHEM	15,000/ -
6	Mrs. R. Seethalakshmi AP/Chemistry	Mrs. T.Kartheeswari AP/Chemistry	Synthesis characterization and photocatalytic activity of bare surface modified ZnO Nano particles.	CHEM	20,000/ -

2024-2025

S. No.	PI	Co-PI	Title	Dept.	Amount (Rs)
4	Mr.S.Selvakumar, AP/ECE	Dr.S.C.Sivaprakash, Prof/ECE Mr.S.R.Naresh, ASP/ECE Prof.P.Balan, AP/ECE	Innovative ventilated Seats for Bike Comfort Enhancement	ECE	23,000/-
5	Dr. B. Tamilselvi, AP/Chemistry	--	Electrochemical Approach of defending from deterioration of mild steel using microbial samples	CHEM	15,000/-
6	Mrs. R. Seethalakshmi AP/Chemistry	Mrs. T.Kartheeswari AP/Chemistry	Synthesis characterization and photocatalytic activity of bare surface modified Zno Nano particles.	CHEM	20,000/-

2023-2024

S. No	PI	Co-PI	Title	Dept.	Amount (Rs)
1	Mr. D. Pravin Kumar, ASP / CSE	Mr. M. Arul Selvan AP / CSE	Shop Smarter	CSE	59,000/-
2	Dr. R. Karthick, ASP / CSE	Dr. R. Lakshmi, ASP / CSE	Intelligent helmet violation system	CSE	39,600/-
3	Mrs. S. Venkatalakshmi, AP / CSE Mrs.V.Karpagam, AP / CSE	Dr. S. Miruna Joe Amali, Prof. & Head/CSE Mrs. R. Kirubahari, AP / CSE Mrs. G. Rajeswari, AP / CSE	Automatic Traffic Congestion control system	CSE	23,200/-
4	Dr. V. Kejalakshmi, Prof. & HOD / ECE	Ms. L. Meenakshi, AP / ECE Ms. R. Pavithra, AP / ECE Ms. C. Sasirekha, AP / ECE	Automatic Food Dispenser	ECE	40,000/-
5	Dr. R. Jeyanthi, Prof. /ECE	Dr. P. Karpagavalli, ASP / ECE Mrs. R. Thilagavathy, AP (Sr. Gr.) / ECE Mrs. S. Indumathi, AP / ECE	IoT Based Smart Poultry Form	ECE	37,500/-
6	Dr. T. R.Muthu, ASP / ECE Dr. B. Buvaneswari, ASP / ECE		Smart Shopping Cart	ECE	13,100/-

2022-2023

S. No	PI	Co-PI	Title	Dept.	Amount (Rs)
1	Dr. K. Gnanambal, Prof. / EEE	Dr. C. Vimalarani, ASP / EEE, Dr. S. Manoharan, AP (Sr .Gr.) / EEE, Dr. M. Ganeshkumari, AP (Sr. Gr.) / EEE	Intelligent Power Factor Controller	EEE	80,000/-
2	Dr. S. M. Kannan, Prof. & Head / EEE	Dr. S. Venkateshan, Prof. / EEE Dr. P. Loganthurai, ASP / EEE	Design and Analysis of Quadrupler DC-DC High Gain Boost Converter for Electric Vehicle Battery Charging Applications	EEE	61,000/-

2019-2020

S. No	PI	Co-PI	Title	Dept.	Amount (Rs)
1	Dr. S. Venkatesan, Prof. / EEE	Dr. C. Vimala Rani, ASP / EEE Mr. A. Marimuthu, ASP / EEE	A Fully Portable IoT Controller based Innovative Cleaning Technique for PV Modules	EEE	22,000/-
2	Dr. R. MohanKumar, ASP / ECE	Mr. D. Anand, AP / ECE Mr. V. Muthu Ganesh, AP / ECE	Intelligent Based Health Monitoring System and Disease Prediction using Internet of Things	ECE	45,000/-
3	Dr. V. Kejalakshmi, Prof. & Head / ECE Mrs. K. R. Shanthi, ASP / ECE	Mrs. R. Thilagavathy, AP (Sr. Gr.)	Digital Voice Broadcasting using Hack RF	ECE	48,000/-

2019-2020

S. No	PI	Co-PI	Title	Dept.	Amount (Rs)
4	Dr. B. Buvaneswari, ASP / ECE Dr.M.R.Thansekhar, Prof. / Mech.	Mrs. S. Nagammai, Prof. & Head / EIE Dr. A. Uma Rani, Prof. / EIE Dr. S. Balamurugan, AP (SG) / EIE Prof. T. R. Muthu, AP (SG) / ECE	Design and Development of a novel Personal Assistive System (PAS) using harmless Light Fidelity (Li-Fi) Technology for Elderly people suffering from Dementia Syndrome	ECE EIE MECH	1,04,980/-
5	Dr. A. Uma Rani, Prof. / EIE Dr. S. Balamurugan, AP (SG) / EIE	Dr. M. R. Thansekhar, Prof. / Mech Mrs. S. Nagammai, Prof. & Head / EIE Mrs. N. Vishnu Devi, AP / EIE Mr. R. Naveeth kumar, AP / EIE Mrs. M. Malarvizhi, AP / EIE	IoT Embedded Drone for Harvesting of Honey to Empower the Tribal People for their Sustained Livelihood	EIE MECH	1,06,960/-

2018-2019

S. No	PI	Co-PI	Title	Dept.	Amount (Rs)
1	Dr. S. Raja Lingam, AP / EEE	Mr. N. Vimal Radha Vignesh, AP / EEE Mr. A. Manoj, AP / EEE	IOT Based Security and Energy Management System in Buildings	EEE	25,000/-
2	Dr. C. Vimalarani, ASP / EEE	Mr. M. Jeyamurugan, AP (Sr.Gr) / EEE Mr. R. Jeyapandiprathap, AP / EEE	A Variable Speed Wind Energy Harvesting Scheme using the Induction Generator with a Variable Voltage Variable Frequency Drive Interface	EEE	64,500/-
3	Dr. A.P.S. Ramalakshmi, AP / EEE	Dr. S.Venkatanarayanan, Prof. / EEE Mr. M.Balamurugan, AP / EEE	IoT Based Energy Monitoring System	EEE	25,000/-

2018-2019

S. No	PI	Co-PI	Title	Dept.	Amount (Rs)
4	Dr. P. Karpagavalli, ASP / ECE	Dr. A. V. Ramprasad, Principal, Dr. V. Kejalakshmi, Prof. & Head / ECE Mrs. P. Selvi, AP (Sr.Gr) / ECE	Automatic Multi-Human detection on night vision video surveillance for providing security in public places	ECE	25,000/-
5	Dr. M. Raghini, AP (Sr.Gr) / CSE Ms.S. Brindha, AP / CSE	Dr. S. Miruna joe Amali, Prof. / CSE	Stock Verification In Library using Line Follower Robot	CSE	20,000/-
6	Dr. V.Akilandesewari, AP / CSE	Dr. P. R. Vijayalakshmi, Prof. / CSE Mr. D. Prabhu, AP / CSE Mrs. K. Arunasakthi, AP / CSE	Securing Internet of Things (IoT) with Software Defined Networking (SDN)	CSE	11,599/-

2018-2019

S. No	PI	Co-PI	Title	Dept.	Amount (Rs)
7	Dr. G. Ramesh, Prof. / IT	Dr. J. S. Kanchana, ASP / IT Mr. S. Ilankumaran, ASP / IT	IoT Based Smart Traffic Management System	IT	29,500/-
8	Dr. A. Raviykkumar, Prof. & Head / English		The use of I-Pad to support vocabulary development and communication skills for English language learners	English	10,000/-
9	Dr. A.Umarani, Prof. / EIE	Mrs. B. Buvanewari, ASP / CSE	Eco Friendly Sanitary Napkin Incinerator	WEC	50,000/-

2017-2018

S. No	PI	Title	Dept.	Amount (Rs)
1	T. D. Kishorilal, AP / Chem.	Studies of solid polymer blended electrolytes	Chem.	45,000/-
2	Dr. S. Miruna JoeAmali Dr. M.Raghini S.Brindha	Design of an IoT based health monitoring and awareness system	CSE	18,990/-
3	Dr. R. Alageswaran Dr.S.MirunaJoeAmali R. Anandhamurugan	Design of IoT based Secure and Smart E-Campus (SSE) using deep learning	IT CSE	2,20,000/-
4	Dr. S. P. Rajaram Dr. A. S. S. Murugan M. Jegadeesan	Intelligent speed control with variable frequency drive for Commercial applications using IoT	EEE	41,800/-
5	Dr. A.P.S. Ramalakshmi Dr.M. Mahalakshmi	Multi inverter interfacing with solar photo voltaic system for research application	EEE	64,000/-
6	M. Ganeshkumari Dr.K.Gnanambal A.Manoj	Voltage sag compensation device for power quality enhancement	EEE	32,000/-
7	Dr. A.N.Balaji D. Muthukrishnan G.R.Raghav	Effect of grapheme nanoparticle sand grapheme nanoplate let son mechanical, wear and corrosion behavior of aluminum based surface composite fabricated by Friction stir processing	Mech.	64,000/-

2016-2017

S. No	PI	Title	Dept.	Amount (Rs)
1	Mr. A. Marimuthu, Dr. S. Venkatesan, Dr.K.Gnanambal	Prototype Hardware Implementation of Facts Controller Using STATCOM Device for Voltage regulation and compensation	EEE	25,000/-
2	Mr. M. Jegadeesan, Dr. A. S. S. Murugan	Maximization of the Efficiency of Photovoltaic (PV) systems	EEE	70,000/-
3	Dr. S. Venkatanarayanan	Design And Development of Maximum demand cutter for small scale Industries to save the energy bills	EEE	75,000/-
4	Mr. S. Nallathambi	Heat Transfer Enhancement Of Automatic Radiators Using Heat Pipes With Nanofluids	Mech	40,000/-
5	Mr. N. Nagasubramanian	Performance improvement of Concentrating Photovoltaic (CPV) Module	Mech	1,99,000/-

2016-2017

S. No	PI	Title	Dept.	Amount (Rs)
6	Mr. R. Ashokkumar	Enhancing the properties of friction stir welded dissimilar AA6101-T6 and AA1350 Aluminium alloys through Reinforcement by abrasive particles in weld zone	Mech	40,000/-
7	Prof.S.Nagammai, Dr.A.Umarani	DC-DC convertor with Photovoltaic Cell for DC Power distribution	EIE	40,000/-
8	Dr. R. Alageswaran, Dr.S.Miruna Joe Amali, R. AnandhaMurugan	RFID based object tracking using Beacon for Indoor Map Generation	CSE	85,500/-
9	Dr. N. Janakiraman, Mr. V. Muthu Ganesh	Surveillance Quadcopter	ECE	30,000/-
10	Ms. T. R. Muthu, Ms. L. Meenakshi, Mr. A. Anandhan	Wearable antenna for women safety aids	ECE	20,000/-

2015-2016

S. No	PI	Title	Dept.	Amount (Rs)
1	Dr. K. Gnanambal Mr. S. Manoharan	DC and AC power distribution for the house and commercial buildings	EEE	1,15,000/-
2	Dr. V. Kejalakshmi Mrs. Indumathi	Wireless public addressing system	ECE	50,000/-
3	Prof. S. C. Sivaprakash Mr. R. Mohan Kumar Dr. S. Venkateshan	Intelligent based automatic wind mill tracking for maximum power generation	ECE	85,000/-

2014-2015

S. No	PI	Title	Dept.	Amount (Rs)
1	Mrs. C. AnbuMeenakshi	Heat Transfer studies in microchannels	Mech.	2,60,000/-
2	Ms. S. Angelin Grace Stella, Dr. V. Kejalakshmi Ms.L. Meenakshi	Design and Development of Low cost irradiance Estimation	ECE	2,00,000/-
3	Mr. S. Parthasarathy	Harmonic elimination using DSP based Active Power filter	EEE	1,75,000/-
4	Ms. M. Revathi, Dr. T. P. Srinivasan	Water treatment	Phy	25,000/-
5	Dr. N. Balaji & Dr. P. Ganesh Kumar	Automatic irrigation for Precision agriculture using wireless sensor network	IT	1,76,000/-

2013-2014

S. No	PI	Title	Dept.	Amount (Rs)
1	Mrs. C. AnbuMeenakshi	Microchannel heat sink	Mech.	1,00,000/-
2	Mrs. G. J. Deeparani	Removal of chromium and nickel from waste water using coconut shell as adsorbent	Chem.	75,000/-
3	Mrs. M. S. Revathy	Preparation and characterization of Mn:Cds, Pb:Cds and Zn:Cds thin film	Phy	50,000/-