Dr. Mahalingam College of Engineering and Technology, Pollachi-642 003
(An Autonomous Institution)

Office of Dean- Research & Innovation

Funded Projects, External Grants and Consultancy Details

December 2022

Funded Projects Details

S.No	Name of the Investigator & Department	Title of the Project	Funding Agency/ Scheme	Month & Year of Sanction	Project Duration	Sanctioned Amount (Rs.)	Status
1.	Dr.M. Selvakumar /Auto Ms.R. Nivetha /ECE Ms.C.Devipriya /CSE	1.Development of low cost Areca nut climbing and harvesting Machine with pesticide sprayer 2.Performance evaluation of LoRa LPWAN technology for mountain search and rescue 3.Plant disease recognition for farmers	TNSCST	11 March 2022	6 Months	₹ 22,500	In-progress
2.	Dr.M. Selvakumar /Auto	Development of Automatic Jeeva-Amirtham (Organic Manure) Preparation Machine	EDII	02 Feb 2021	1 Year	₹ 2,50,000	In-progress
3.	Dr.M. Selvakumar /Auto	Development of Coconut Dehusker and Fibre Separation Unit	EDII	22 Dec 2020	1 Year	₹ 2,50,000	In-progress
4.	Dr.M. Selvakumar /Auto	Multi-Rotor Tractor Rotavator and Roto-Tiller	EDII	17 Nov 2020	1 Year	₹ 2,50,000	In-progress
5.	Dr.M. Senthilarasi Dr.M.Bharathi, Dept. of ECE	Implementation of a Machine Learning Technique for Enhancing Women Safety at Public Women-only Spaces	DST	01 July 2020	2 Years	₹ 14,37,344	In-progress
6.	Dr.Ramathirumurugan /Mech	Coconut Husk Pre Crushing Machine	EDII	June 2020 to June 2021	1 Year	₹2,82,000	Completed

S.No	Name of the Investigator & Department	Title of the Project	Funding Agency/ Scheme	Month & Year of Sanction	Project Duration	Sanctioned Amount (Rs.)	Status
7.	T.Sathiyaprina/ ECE S.Arulkumar / Auto	1. Battery free IoT devices based on RF Energy harvesting technique 2. Smart stair climbing wheelchair	TNSCST	March to Sept 2020	6 Months	₹15,000	Completed
8.	Dr.M.Selvakumar / Auto	Multi-Rotor Tractor Rotavator and Roto-Tiller	EDII	December2021 to December 2022	1 Year	₹2,50,000	In-progress
9.	Dr.M.Selvakumar / Auto	Development of Automatic Jeeva-Amirtham (Organic Manure) Preparation Machine	EDII	April 2021 to April 2022	1 Year	₹2,50,000	In-progress
10.	Dr.M.Selvakumar / Auto	Development of Coconut Dehusker and Fibre Separation Unit	EDII	February 2021 toFebruary2022	1 Year	₹2,50,000	In-progress
11.	Dr.M. Senthilarasi Dr.M.Bharathi Dept of ECE	Implementation of a Machine Learning Technique for Enhancing Women Safety at Public Women-only Spaces	DST	July 2020 to July 2022	2 Year	₹11,37,344	In-progress
12	Dr.Ramathirumurugan / MECH	Coconut Husk Pre Crushing Machine	EDII	June 2020 to June 2021	1 Year	₹2,82,000	Completed
13.	T.Sathiyaprina/ECE S.Arulkumar/Auto	1) Battery free IoT devices based on RF Energy harvesting technique (2) Smart stair climbing wheelchair	TNSCST	March to Sept 2020	6 Months	₹15,000	Completed
14.	Dr.Rathinavelu /CSE	UGC scheme for mentoring NAAC Accreditation Aspirant Institutions to promote Quality Assurance in Higher Education under PARAMARSH scheme	UGC	Oct 2019 to Sept 2020	1 Year	₹30,00,000	Completed
15.	Dr.V.Lakshminarayanan/EEE	Modernization of Sensor and Instrumentation Laboratory	AICTE	February 2020 to February 2022	1Year	₹2,50,272	Completed

S.No	Name of the Investigator & Department	Title of the Project	Funding Agency/ Scheme	Month & Year of Sanction	Project Duration	Sanctioned Amount (Rs.)	Status
16.	Dr.K.N.Vijeyakumar/ECE	Design of High Slew Rate, Low Offset and Low Drift Operational Amplifier (OPAMP) in 180nm SCL's CMOS Fabrication Technology	ISRO	Nov 2019 to Nov 2021	1Year	₹17,04,000	In-progress
17.	Dr.A.Senthilkumar/EEE	Modernization of Power System Laboratory	AICTE	April 2019 to April 2021	2 Year	₹16,00,000	Completed
18.	Dr. I.Rajendran/ Mech	Grant for consultancy services for Research Studies in 'Evaluate the adoption of Green Manufacturing and 6S(5S+Safety) principles in motor and pump industries of Coimbatore through a system model 'Green-6S''	EDII	July 2018 to July 2019	1 Year	₹5,00,000	Completed
19.	Dr.V.Saravanan /Auto and Dr.S.Ramakrishnan/IT	PMKVY-TI (Pradhan Mantri Kaushal Vikas Yojana for Technical Institutions) scheme Automotive Sector – Automotive Service Technician Level 4 IT/ITeS sector – Junior Software Developer	AICTE	April 2018 to July 2018	4 Months	₹1,59,653	Completed
20.	Dr.M.Selvakumar / Auto	Tribological investigation of Titanium-Titanium Boride (Ti-TiB) composites processed through microwave sintering for Automobile disc brake applications	UGC	Nov 2017 to Nov 2019	2 Years	₹60,000	Completed
21.	Dr.D.Shanmugam/ Automobile	Feasibility study on natural/glass fiber reinforced polymer Nano composites materials for naval applications	NRB	Dec 2017 to March 2019	1 Year	₹5,00,000	Completed

S.No	Name of the Investigator & Department	Title of the Project	Funding Agency/ Scheme	Month & Year of Sanction	Project Duration	Sanctioned Amount (Rs.)	Status
22.	Dr.RamaThirumurugan/ Mechanical	Effect of Cryogenic Treatment on the Hardness, Dimensional Stability, and Wear Resistance of 440C Gear Steel	The Institution of Engineers (India), Kolkata	Aug 2017 to Aug 2018	1 Year	₹50,000	Completed
23.	Dr.S.Ramakrishnan/IT	Development of Wireless system using Machine Learning Technique for Epileptic Seizure Detection and Patient Monitoring	CSIR	July 2017 to July 2019	2 years	₹9,90,500	Completed

Seminar/Conference Grants

S.No	Name of the Co-ordinator & Department	Title	Funding Agency/ Scheme	Month & Year	Duration	Sanctioned Amount (Rs.)	Status
1.	Dr.K.Murali /Civil	Fundamentals and applications of textile reinforced concrete construction in India	Indian National Science Academy	August 2022	2 Days 28th-29th Oct 2022	₹ 50,000	Completed
2.	Dr.D.Nathan / Mech	1.Expert Talk on Process of Innovation Development & Technology Readiness level & Commercialization of lab Technologies & Tech-Transfer 2.Workshop on Design Thinking 3.Workshop on Entrepreneurship skill, attitude and behavior Development 4.Workshop on IPR 5.Workshop on Business Plan Preparation	CIBIE	Feb to Mar 2022	2 Months	₹ 10,000	In-Progress
3.	Dr.S.Ramakrishnan / IT	Two days Virtual International workshop on Privacy Preserving Artificial Intelligence Techniques for machine learning	CSIR	Nov 2021	2 Days 26th-27th Nov 2021	₹ 10,000	Completed
4.	Dr.A.Sakthivel, Mr.J.Senthilkumar, Dept. of S&H	Scheme for promoting interests, creativity, and ethics among students (SPICES)	AICTE-SPICES	Sep 2021 to Aug 2022	1 Year	₹1,00,000	Completed
5.	Dr.I.Rajendran	ATAL program online FDP on '3D Printing and Design'	AICTE ATAL	July 2021	5 Days 06th -10th Jul 2021	₹93,000	Completed
6.	Dr.A.Rathinavelu / CSE	ATAL program online FDP on 'Augmented Reality (AR) / Virtual Reality (VR)'	AICTE ATAL	December 2020	5 Days 15th -19th Dec 2020	₹93,000	Completed
7.	Dr.S.Ramakrishnan/IT	International Conference on Data Analytics, Intelligent Systems and Information Security (ICDIIS'20)	AICTE	December 2020	2 Days 11th-12th Dec 2020	₹1,66,667	Completed
8.	Dr. A. Senthilkumar/EEE	ATAL program online FDP on 'Internet of Things IOT'	AICTE ATAL	September 2020	5 Days 14th -18th Sep 2020	₹93,000	Completed

S.No	Name of the Co-ordinator & Department	Title	Funding Agency/ Scheme	Month & Year	Duration	Sanctioned Amount (Rs.)	Status
9.	Dr.B.Saravanakumar/ S&H	Nanomaterials for Clean Energy and Environmental Applications	AICTE	Nov 2020	3 Slots 02nd -07th Nov 2020, 16th -21st Nov 2020, 23rd -28th Nov 2020	₹3,34,500	Completed
10.	Dr.G.Anupriya/ CSE	Federated Identity Management System in Cyberspace: Research Perspectives	AICTE	Aug & Sep 2020	3 Slots 17th -22nd Aug 2020, 07th -12th Sep 2020, 21st -26th Sep 2020	₹3,57,266	Completed
11.	Dr.R.Venkatasubramani/Civil	Special Topics in Geotechnical Engineering	AICTE	Aug & Sep 2020	2 Slots 24th -29th Aug 2020, 07th -12th Sept 2020	₹2,47,833	Completed
12.	Dr.K.Vijeyakumar/EIE	STTP on Internet of Things for Healthcare	AICTE	Aug & Sep 2020	3 Slots 24th -29th Aug 2020, 07th -12th Sept 2020, 21st -26th Sept 2020	₹3,16,666	Completed
13.	Dr.A.Senthilkumar/EEE	International conference on "Renewable Energy and Sustainable Environment (RESE 2019)"	AICTE	December 2019	3 Days 12th -14th Dec 2019	₹5,50,000	Completed
14.	Dr.Sunil S R Gangolli /Auto	Design for Manufacture, Assembly & Environment for Product Innovation and Optimization	AICTE	November 2019 to December 2019	2 weeks 25th Nov -07th Dec 2019	₹4,26,000	Completed
15.	Dr.V.Lakshminarayanan, Dr.S.Anthony Jesudurai, Mr.P.Kathirvel Dept. of EIE	MODROBS Funding - Modernization of "Sensors and Instrumentation laboratory"	AICTE	May 2019	1 Year	₹16,00,000	Completed
16.	Dr.R.Sudhakar/ECE	Network Security and CMOS Mixed signal architectures	AICTE	May 2019 to June 2019	2 weeks 27th May – 9th Jun 2019	₹4,74,000	Completed
17.	S.Sugunavathy/ECE and Dr.M.Selvakumar/Automobile	1)Reconfigurable microstrip patch antenna for mobile devices (2) Solar powered hoverboard	TNSCST	March 2019 to April 2019	2 Months Mar 2019 – Apr 2019	₹15,000	Completed
18.	Dr.S.Maruthamuthu/ Physics	Advances in Materials Research for Armaments Applications - AMRA	DRDO	February 2019	2 Days 15th Feb- 16th Feb 2019	₹50,000	Completed

S.No	Name of the Co-ordinator & Department	Title	Funding Agency/ Scheme	Month & Year	Duration	Sanctioned Amount (Rs.)	Status
19.	Dr.L.Chitra/EEE	Recent Technological Developments in Energy Conservation and Storage	BRNS (DAE), Mumbai	Aug 2018	2 days 14th -15th Sep 2019	₹30,000	Completed
20.	Dr.A.Senthilkumar/EEE	Artificial Intelligent Techniques and its Application in Medical Diagnosis	ICMR	July 2018	2 Days 13th -14th Jul 2018	₹40,000	Completed
21.	Dr.K.Vijayakumar / EIE	Intelligent Automation using Industry 4.0	CSIR	June 2018	2 Days 13th -14th Jun 2018	₹30,000	Completed
22.	Dr.D.Shanmugam/ Auto	Short Term Skill Training submitted by new empanelled training providers: Automotive Sector: Basic Automotive Servicing four wheeler Rs.5,31,000/- Fabrication sector: Arc & Gas Welding Rs.7,35,000/-	TNSDC	Nov 2017 to Feb 2018	3 months	₹12,66,000	Completed
23.	Dr. I.Rajendran/Mechanical	Behavioural Skills for holistic development	AICTE	Nov 2017 to Dec 2017	2 Weeks 27th Nov- 10th Dec 2017	₹5,62,770	Completed
24.	Dr.A.Rathinavelu/ CSE	Machine Learning Techniques in Information Retrieval	AICTE	Nov 2017 to Nov 2017	2 Weeks 13th Nov-26th Nov 2017	₹4,80,000	Completed
25.	Dr.S.Ramakrishnan/IT	Mobile Application Development using open source for Cyber Secure Application	AICTE	Oct 2017 to Oct 2017	2 Days 6th -7th Oct 2017	₹1,00,000	Completed
26.	Dr. I.Rajendran/Mechanical	Vibration and Noise Engineering	AICTE	Nov 2017 to Nov 2017	2 Days 10th -11th Nov 2017	₹1,00,000	Utilize
27.	Dr.Ranga Palaniswamy/Civil	International Conference on "Renewable Energy and Sustainable Environment (RESE 2017)	DRDO	July 2017 to July 2017	2 Days	₹2,00,000	Completed
28.	Dr.A.Senthilkumar/EEE	International conference on "Renewable Energy and Sustainable Environment (RESE 2017)	AICTE	July 2017 to July 2017	3 Days 20th-22nd Jul 2017	₹5,00,000	Completed

S.No	Name of the Co-ordinator & Department	Title	Funding Agency/ Scheme	Month & Year	Duration	Sanctioned Amount (Rs.)	Status
29.	Dr.A.Senthilkumar/ EEE	International conference on "Renewable Energy and Sustainable Environment (RESE 2017)'	CSIR	July 2017 to July 2017	3 days 20th-22nd Jul 2017	₹50,000	Completed
30.	Dr.A.Senthilkumar/EEE	International conference on "Renewable Energy and Sustainable Environment (RESE 2017)'	DST-SERB	July 2017 to July 2017	3 days 20th-22nd Jul 2017	₹1,50,000	Completed
31.	B.Kishore S.Dinesh Dept of EEE	(1) Device for monitoring kinesiotheraphy in rheumatic patients (2) Design of automated robot for garbage collection and smart segregation using wireless communication in beaches	TNSCST	Apr 2017 to May 2017	1 Month	₹20,000	Completed
32.	Dr.A.Senthilkumar/EEE	Recent Advancements in Energy Storage Technologies for Smart Grid Application	MNRE	Dec 2016	2 Days 16th -17th Dec 2016	₹30,500	Completed