

**Dr. Mahalingam College of Engineering and Technology, Pollachi -03  
(An Autonomous Institution)**

**Office of Dean Research & Innovation**

**In-house R&D Details**

<b>Academic year</b>	<b>Number of projects sanctioned</b>	<b>Seed Money Provided (in Rs.)</b>
2024-2025	13	8,52,650
2019- 2024	14	15,95,500
2017- 2019	17	13,91,000
<b>Total</b>	<b>44</b>	<b>38,39,150</b>

**In-house R&D (June 2019- Nov 2024)**

**Nov 2024**

<b>S.No.</b>	<b>Name of the teacher &amp; Students provided with seed money</b>	<b>Title of the Project</b>	<b>Seed Money Provided (in Rs)</b>	<b>Duration</b>	<b>Year of receiving</b>
1.	Dr.T.Ramkumar	Interfacial phase transformation and element diffusion mechanism of high speed laser cladding titanium alloy coated with High Entropy Alloy (HEA) in high temperature environment	1,00,000	1 Year	2023-24
2.	Dr.N.Shanmugasundaram	Fabrication of OKRA fiber reinforced polymer composites using vacuum assisted resin transfer molding and study on Mechanical, Dynamic mechanical properties of composites	98,000	1 Year	2023-24
3.	Mr.R.Muthubharathi	Smart campus IoT infrastructure: Integrating Edge, Fog, and cloud technologies for efficient monitoring and management	1,28,800	1 Year	2023-24
4.	Ms.C.Jayashree	Enhancing MCET Website Access: A voice recognition-based hands free approach integrated with Chat-bot functionality.	1,37,000	1 Year	2023-24
5.	Ms.M. Jotheeswari	LibroBot: Revolutionizing Library Services with AI- powered assistance	90,500	1 Year	2023-24
6.	Dr.K.Vivekanandan	Supplier Bot	1,14,050	1 Year	2023-24
7.	Mr.J. Arthur Vasanth	Development of virtual reality (A New system of educative method)	61,900	1 Year	2023-24

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8.	Chandru S (727623BME303) Sandeep V S (727622BME067) Kabilesh M(727623BME305) Balaaswin S (727622BME073) Manoj M (727622BME057) Pranesh L R (727623BME307) <b>Faculty Mentor:</b> Mr.S.Naveen Kumar- AP/MECH	Design of intelligent door closing system	24,400	1 Year	2023-24
9.	Hari Pradap V (727622BIT026) Surya N (727622BIT014) Uthaya kumarV(727622BIT094) Gayathri M(727622BIT060) Abdhul Razaak (727622BIT036) Aarthy K(727622BIT054) <b>Faculty Mentor:</b> Mr.R. Govindaraj – AP/IT	Skillvista: AI Driven career development system	15,000	3 Months	2023-24
10.	Saran S (727622BAD010) Kathirvel D(727622BAD024) Venkatesh K P (727622BAD026) Shanmuga Vishnu G(727622BAD084) Gokul prasath M (727622BAD086) <b>Faculty Mentor:</b> Dr.N. Suba Rani –Asso. Prof/CSE	LLMs: Revolutionizing communication and ethical considerations	22,000	1 Year	2023-24
11.	Kaviya K (727621BAD030) Harshini S (727621BAD039) Suganath P 727621BAD049) <b>Faculty Mentor:</b> Mr.M.Arun – AP(SS)/AIDS	Revolutionizing hostel attendance : face & location based tracking system	35,000	3 Months	2023-24
12.	Godwin Jacob J (727622BCS096) Roshan Akthar M R (727622BCS004) <b>Faculty Mentor:</b> Ms.S.C.Lavanya- AP(SS)/CSE	Smart Cane	8,000	6 Months	2023-24

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13.	Abinesh R (727622BEC094) Kavipriya A(727622BEC104) Varsha S(727622BEC108) Navanika M L (727622BEC005) Nithin S M(727622BEC045) Loganath K(727622BEC025) <b>Faculty Mentor:</b> Ms.S.Thiagavathi-AP(SS)/ECE	Development of microstrip patch antenna using frequency selective surface (FSS) for 5G/6G Applications	18,000	6 Months	2023-24
14.	Mr. S. Syed Masoodhu	Hydraulic Performance of Geosynthetic Clay Liner with Modified Clay by Polymeric Hydrogels	1,10,000	1 year	2022-23
15.	Dr.A.Noble Mary Juliet	Web/Mobile Application for Multi modal Mark entry and Hall booking service automation	1,15,000	1.5 years	2022-23
16.	Mr.K.R.Gokul Anand	Customized Cultivation using Smart Aeroponics System	1,04,500	1 year	2022-23
17.	Dr.K.Rameshkumar	Design and Development of Solar Photovoltaic fed Electric Vehicle Charging Station with Improved Power Quality using Virtual Active Power Filter	1,15,000	2 years	2022-23
18.	Mr.M.Gideon Ganesh	Design and fabrication of polymer-based 3D printing	1,10,000	1 year	2022-23
19.	Dr.T.Ramkumar	Design and Development of PCM-Nano Composite for Solar Water Heater Application	1,15,000	1 year	2022-23

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20.	Mr.C.Radhakrishnan	Experimental Investigation of Bio-oil Produced from continuous Flash Pyrolysis of Biomasses	1,10,000	2 years	2022-23
21.	Dr.A.Shanmugapriya	Synthesis and anticancer activity of binuclear Ni(II) & Pd(II) complexes	1,07,600	1.5 Years	2022-23
22.	Dr.J.Johnson William	Microwave Engineering of Binary Metal Compounds and its carbon composites as Electrode Materials for Energy Storage and Photocatalytic Applications	1,15,000	1 year	2022-23
23.	Dr.M.Mariyappan	Silver Nanoparticles Embedded Rare Earth Doped Borophosphate Glasses for Lasers, Wleds and Amplifiers	1,14,400	1 year	2022-23
24.	Dr.S.Ponni@Sathya	Work smart at villages	70,000	1 year	2021-22
25.	Dr.K.Umamaheshwari	Brain frequency controlled handicapWheelchair	31,000	6 months	2021-22
26.	Dr.Rama Thirumurugan	Coconut Husk pre Crushing machine	2,82,000	1 year	2020-21
27.	Mr.P.Kathirvel	Life saving Mobility	96,000	6 months	2019-20