

***Thiagarajar College of Engineering, Madurai-625015***  
***Department of Mechanical Engineering***



<b>Name of the Supervisor</b>	<b>Name of the scholar</b>	<b>Research Area</b>	<b>Title of research</b>	<b>Status (Completed / Ongoing)</b>
Dr. N. Jawahar	Dr.S.Saravana Perumaal	Robotics	Trajectory Planning for Jerk Bounded Pick Place operation	Completed
Dr. N. Jawahar	Dr. G.Satish Pandian	Environmental Management	Models for analysis and selection of suitable program: A study in India Manufacturing industries.	Completed
Dr. N. Jawahar	Mr. Eswara Prasad	Tolerance Modeling	Quality engineering and management	Ongoing
Dr. N. Jawahar	Mr. Thangadurai	Flow Line balancing	Decision support system for flexible flow line assembly	Ongoing
Dr. N. Jawahar	Mr. M.Balamurali	Sheet Metal Cutting Optimisation	Intelligent algorithms for a vision guided robot in a Flexible Manufacturing Cell.	Ongoing
Dr. N. Jawahar	Mrs. R.Subhaa	Cellular Manufacturing System	Modelling and analysis of cellular manufacturing system.	Ongoing
Dr. N. Jawahar	Mr. P.Jayakumar	Reverse Engineering	Development of an algorithm for minimize the data loss & Improve the accuracy of Reverse Engineering Process.	Ongoing
Dr. N. Jawahar	Mr. G. Navakodi	Process plan optimization for CNC.	Optimization in CNC machines.	Ongoing
Dr.T.Sornakumar	Mr.G.Kumaragurparan	Mechanical Engineering	Design and Analysis of Micro Electronics / Micro Electro Mechanical Systems (MEMS)	Completed
Dr.T.Sornakumar	Mr. S.Chockalingam	Mechanical Engineering	A Study Of Safety System In Indian Construciton Industry	Completed
Dr.T.Sornakumar	Mr.I.Anguchamy	Mechanical Engineering	Advanced Composite Materials Technology	Ongoing
Dr.T.Sornakumar	Mr.V.Saravanakumar	Mechanical Engineering	Advanced Composite Materials Technology	Ongoing
Dr. V.Dhanalakshmi	Mr. S. Sivakumar	CAD/CAM/CAI	Integration of CAD, CAM & CAI stages of productive cycle through CAD Exchange file.	Completed
Dr. V.Dhanalakshmi	Mr. S. Arivukkarasan	Composite materials	Study on Interfacial Microstructures and effects on Mechanical properties of MMC.	Ongoing
Dr. V.Dhanalakshmi	Ms.A. Hemalatha	Advanced Materials	Studies on composite materials	Ongoing
Dr. K. Chockalingam	Mr. I. Vijay Arasu	Rapid prototyping	Rapid prototyping	Ongoing
Dr. K. Chockalingam	Mr. D. Sangupandy	Reverse Engineering	Rapid prototyping & Reverse Engineering	Ongoing
Dr. K. Chockalingam	Mr. N. Muralidharan	CNC-wire cut EDM.	Process parameters optimization and machining operation of composite material using CNC-wire cut EDM.	Ongoing

Dr. PL.K.Palaniappan	T. Kamachi	SCM in Healthcare	Exploring the effect of coordination and collaboration in health care supply chain.	Ongoing
Dr. PL.K.Palaniappan	Mr. B. Brucelee	SCM Risk Management	A study of supply chain vulnerability in Indian Manufacturing Industry.	Ongoing
Dr. PL.K.Palaniappan	Mr. Y. JeyasoundaraRajan	Industrial Engineering	Impact of Industrial noise on Indian Worker and productivity.	Ongoing
Dr. PL.K.Palaniappan	Mr. Calwin Parthibaraj	Logistics	Efficient auction based mechanism for part logistics.	Ongoing
Dr. PL.K.Palaniappan	Mr. P. Chithambaranathan	Supply Chain Management	Performance and capability analysis of supply chains	Ongoing
Dr. PL.K.Palaniappan	Mr. R. Jothi Basu	Supply Chain Management	Transportation service procurement	Ongoing
Dr. A. Valan Arasu	Mr. A. Samuel Raja	I.C. Engines	Experimental study on cold start emission control in motorcycle S.I. engine fuelled with gasoline-ethanol blends	Completed
Dr. A. Valan Arasu	Mr. R. Manikumar	Solar energy	Design, fabrication and heat transfer analysis of cavity absorber for a linear Fresnel reflector solar concentrator system	Completed
Dr. A. Valan Arasu	Mrs. N. Premalatha	Solar energy	Thermal Performance Prediction of Flat Plate Solar Collector by using Artificial Neural Networks	Ongoing
Dr. A. Valan Arasu	Mr. M. Babu	Solar energy	Design and Performance Analysis of CLFR Solar System	Ongoing
Dr. A. Valan Arasu	Mr. V.Mayilvelnathan	Solar energy	Numerical and Experimental analysis of Thermal energy storage by enhancing the thermal conductivity of PCM.	Ongoing
Dr. A. Valan Arasu	Mr. D. Dhinesh Kumar	Nanofluid Heat Transfer	Experimental investigation of shell and tube heat exchanger with nanofluids	Ongoing
Dr. A. Valan Arasu	Mr. B. Prabhu	Nanocomposite PCM Energy storage	Experimental study of Solar water heater with latent heat storage system.	Ongoing
Dr. K. Srithar	Mr. C. Muthusamy	Desalination	Humidification and dehumidification desalination system	Ongoing
Dr. K. Srithar	Mr. B. Karthikeyan	IC Engines	Alternate fuel and waste heat recovery	Ongoing
Dr. K. Srithar	Mr. V. Pavendan	Alternative fuels	Study of performance, emission and exergy analysis in a hybrid fuel combustion system on IC engine	Ongoing
Dr. K. Srithar	Mr. T. Rajaseenivasan	Desalination	Investigation on improving the performance of desalination systems.	Ongoing
Dr. C Paramasivam	Mr. P.Rameshkumar	Machining	Intelligence machining	Ongoing
Dr. C Paramasivam	Y. Linun Nihar	Robot path planning	Robot navigation for path planning	Ongoing

Dr. M. Kathiresan	Mr. A. Alagarsamy	Composite Materials.	Manufacturing studies of advanced composite materials	Ongoing
Dr. M. Kathiresan	Mr. P.G. Baskaran.	Natural fibre composite materials	Production studies of advanced composite materials	Ongoing
Dr. M. Kathiresan	Mr. P. Pandiarajan	Composite Materials.	Manufacturing studies of advanced composite materials	Ongoing
Dr. M. Kathiresan	Mr. G. Kannan	Metal Matrix Composites	An Experimental investigation of Nano Composites	Ongoing
Dr. M. Kathiresan	Mr. Sivaraj	Natural Fibre Composites	Manufacturing and Characterization and optimization of Natural Fibre Reinforced Polymer Composites.	Ongoing
Dr. M. Kathiresan	Mr. Muthurasu	Friction Stir Welding	Effect of welding processes on High strength Low Alloy (HSLA) Steel Joints	Ongoing
Dr. M. Kathiresan	Mr. Theerkatharisanan	Composite Materials	Machining of Metal Matrix Composites Using Taguchi approach with grey relational analysis	Ongoing
Dr. P. Maran	Mr. S. Boopathi	Propellant combustion	Spray and combustion characteristics of methane fired gas turbine after burner.	Ongoing
Dr. P. Maran	Mr. K. Arumugam	Bio Fuel and combustion	Studies on performance and emission characteristics of combustion systems by using Straight and Transesterified vegetable oil.	Ongoing
Dr. P. Maran	Mr. R. Pandiyarajan	Composite Materials.	Metal matrix composites of friction – stir welding using on Aluminium Alloys Magnesium Based alloys	Ongoing
Dr. P. Maran	Mr. R. Raja Sekar	Bio Fuel and combustion	Development of Combustion systems for raw vegetable oil and blended vegetable oil.	Ongoing
Dr. S. Karthikeyan	Mr. M.C.Pravin	Composite Materials.	Non Destructive Testing (NDT) of Composite Materials using texture and morphology based Scanned Electron Microscope (SEM) image Analysis	Ongoing
Dr. S. Saravana Perumaal	Mr. P. Nagarajan	Robotics	Online trajectory planner for precise handling applications.	Ongoing
Dr. G. Kumaraguruparan	Mr. V. Saravanan	Heat sink for TR modules	Thermal management of microwave radar system.	Ongoing
Dr. G. Kumaraguruparan	Mr. M.S. Govardhanan	Heat pipes	Performance enhancement of heat pipes	Ongoing
Dr. G.	Mr. B. Jegan	Heat Transfer Enhancement in microchannel	Development of Micro/ Mini Channel Heat sinks with heat transfer Enhancement Features.	Ongoing

Kumaraguruparan		heat sinks		
Dr. G. Kumaraguruparan	Mr. R.Muthu sundara srinivasan	Thermal management of electronics	Design and Development of multi channel Heat sinks for cooling application	Ongoing
Dr. G. Kumaraguruparan	Mr. Maheswaran (alias) Pradeep	Minichannel heat sink	Cooling of Electronics Equipments	Ongoing
Dr. G. Kanagaraj	Mr. S Satheesh kumar	Design and analysis of plastic gears	Polymer matrix composites	Ongoing