**National & International Conferences & Journals:**

**List of Publications (2011 – 2017)**

**Number of Research Publications: 47**

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| **S.No.** | **Faculty name** | **Year of publication** | **Title of the Paper** |
| 1 | Mr.N.MohanRaj / Assistant Professor | 2017 | Studies on Electro Mechanical Aspects in Ultrasonically Welded Al/Cu Joints. |
| 2 | Mr.Santhosh kumar / Assistant Professor | 2017 | An Exploration of the influence in Aluminium Metal Matrix composite reinforced with Graphene |
| 3 | Dr.A.Ramesh / Professor and Principal | 2016 | An investigation of material removal rate and surface roughness of squeeze casted A413 alloy on WEDM by multi response optimization using RSM. |
| 4 | Dr.N.Natarajan / Professor and Head | 2016 | "Experimental Investigation and Optimization of Dry Sliding Wear Parameters on Solid Lubricant Reinforced Bronze Matrix Composites-A Taguchi Approach. |
| 5 | Dr.S.Sundararaj / Professor | 2016 | The Effect of Refrigerant Pairs on Performance of Multi-Cycle Vapour Compression System |
| 6 | Mr.T.Pridhar / Assistant Professor | 2016 | The Effect Of Particle Hybridization On Micro Structure Analysis And Mechanical Behavior Of Metal Matrix Composites: An Experimental Approach |
| 7 | Mr.N.MohanRaj / Assistant Professor | 2016 | Investigations On The Parametric Effects Of Ultrasonic Welded Process On Metallographical Aspects Of Al-Al Alloys Dissimilar Joints |
| 8 | Mr.C.Boopathi / Assistant Professor | 2016 | The Effect Of Particle Hybridization On Micro Structure Analysis And Mechanical Behaviour Of Metal Matrix Composites: An Experimental Approach |
| 9 | Dr.N.Natarajan / Professor and Head | 2015 | Study of Cutting forces in Machining of Magnesium Composite by Response surface methodology |
| 10 | Dr.N.Gunesekar /  Assistant Professor | 2015 | Artificial neural network modelling of a Photovoltaic thermal evaporator of solar assisted heat pump |
| 11 | Dr.N.Gunesekar /  Assistant Professor | 2015 | Comparison of energy performance of heat pump using a photovoltaic thermal evaporator with circular  and triangular tube configurations. |
| 12 | N.MOHAN RAJ / Assistant Professor | 2015 | Investigations On The Parametric Effects Of Ultrasonic Welded Process On Metallographical Aspects Of Al-Al Alloys Joints |
| 13 | N.MOHAN RAJ / Assistant Professor | 2015 | Experimental studies and Finite element simulation of ultrasonic welding of Cu alloys |
| 14 | C.BOOPATHI / Assistant Professor | 2015 | Influence of Cooling Channel Position and Form on Polymer Solidification and Temperature in Injection Moulding Die |
| 15 | C.BOOPATHI / Assistant Professor | 2015 | Parametric analysis of mechanical properties of bagasse fiber-reinforced vinyl ester composites |
| 16 | R. SRINIVASAN / Assistant Professor | 2015 | Experimental Investigation on the Effect of Pressure on Microstructure and Mechanical Properties of Squeeze Cast Rectangular Plate of LM6 Aluminium Alloy |
| 17 | K.Nirmal Kumar /Assistant Professor | 2015 | Analysing Mechanical Properties of Natural fibres reinforced with Egg shell |
| 18 | T.Pridhar / Assistant Professor | 2014 | Effective process parameters in selective laser sintering |
| 19 | C.BOOPATHI / Assistant Professor | 2014 | Influence of Curing Temperature and Fiber Volume Fraction on the Mechanical Properties of Sisal Fiber Reinforced Polyester Composites |
| 20 | Dr.R.Saravanan / Professor | 2014 | Performance Evaluation of Differential Evolution and Particle Swarm Optimization Algorithms for the Optimal Design of Closed Coil Helical Spring |
| 21 | Dr.R.Saravanan / Professor | 2014 | Multi Objective Design Optimization of Two Bar Truss Using NSGA II and TOPSIS |
| 22 | Dr.R.Saravanan / Professor | 2014 | Scheduling optimization of a Flexible manufacturing system using a modified NSGA-II algorithm |
| 23 | Dr.R.Saravanan / Professor | 2014 | Evolutionary Optimum Design for a Task Specified 6-Link Planar Robot |
| 24 | Dr.R.Saravanan / Professor | 2014 | Manufacturing Optimization of Reclaimed, Rubber using Taguchi Method |
| 25 | Dr.R.Saravanan / Professor | 2014 | Optimization of relative positioning in a two wheeled differential drive robot |
| 26 | Dr.R.Saravanan / Professor | 2014 | Scheduling optimization of FMS using NSGA II, |
| 27 | Dr.R.Saravanan / Professor | 2014 | Reduction of odometry error in a two wheeled differential drive robot |
| 28 | Dr.R.Saravanan / Professor | 2014 | Experimental investigation for better relative localization of a mobile robot using Taguchi method |
| 29 | Dr.G.Chandramohan / Professor | 2014 | Study on Fabrication processes and Machinability of Metal Matrix composites- A review on advanced Applications |
| 30 | Mr.W.Ruban / Assistant Professor | 2014 | Process Parameters Optimization in Selective Laser Sintering |
| 31 | Mr.W.Ruban / Assistant Professor | 2014 | Effective Process Parameters in Selective Laser Sintering |
| 32 | Mr.K.Manikanda Prasath / Assistant Professor | 2014 | Barriers in Green Supply Chain management: An Indian Foundry Perspective |
| 33 | Mr.K.Manikanda Prasath / Assistant Professor | 2014 | Optimal Riser design in sand Casting process using Genetic Algorithm |
| 34 | T.Pridhar / Assistant Professor | 2013 | Design And Structural Analysis Of Perforated Sheet Metals |
| 35 | N.Mohan Raj / Assistant Professor | 2013 | High speed Infra red furnace |
| 36 | Dr.R.Saravanan / Professor | 2013 | Performance evaluation of practice swarm optimization algorithm for optimal design of belt pulley system |
| 37 | L.Sankar / Assistant Professor | 2013 | Comparison Study Of Al-Fly Ash Composites In Automobile Clutch Plates |
| 38 | R.Baskar / Assistant Professor | 2013 | Design Of Inner Hood Of Bell Annealing Furnace For Better Heating Efficiency |
| 39 | Dr.G.Ramesh /  Professor | 2013 | Effects Of Aspiration Methods And Alternative Renewable Fuels In An Internal Combustion Engine – An Overview |
| .40 | Dr.G.Ramesh /  Professor | 2013 | Measurement Of Exhaust Gas In Diesel Engine Based On Data Acquisition System Monitoring |
| 41 | Dr.G.Ramesh /  Professor | 2013 | Investigating The Performance Of A Diesel Engine Fuelled With Preheated Biogas And Its Emission Monitoring Using Lab View |
| 42 | J.K.Suresh / Assistant Professor | 2013 | Analysis Of Passenger Car Suspension System Using Adams |
| 43 | Dr.G.Chandramohan /  Professor | 2013 | Lean Manufacturing In Small And Medium Enterprises |
| 44 | N.Mohan raj /  Assistant Professor | 2013 | Design of Contact Stress Analysis in Straight Bevel Gear |
| 45 | Dr.G.Ramesh / Professor | 2012 | Turbo Charging on the performance of Diesel Engine with Biodiesel – A Technical Review |
| 46 | Dr.G.Ramesh / Professor | 2012 | Investigation of Bio-Wastes and Methods for the Production of Bio-Hydrogen- A Review |
| 47 | Mr. Adiyamaan Arivazhagan /  Assistant Professor | 2012 | Dynamic Mechanical Properties of ABS Material Processed by Fused Deposition Modelling |

**Research Projects undertaken (2011-2017)**

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| **Title of theProject** | **Funding agency** | **Investigator/Co- Investigator** | **Total Grant** |
| Studies on Mechanical Properties of Friction Stir and Plasma Arc Weldment in Aluminium based hybrid MMC | DST | Dr.A.Ramesh,  Mr.R.Srinivasan | 10,40,000 |
| Study on Mixing of Cellulose with Water Using Venturi-Jet Mixer for Paper Manufacturing | UGC | Dr.S.Sundararaj | 2,30,000 |
| Application of Au-CNT composite nanoparticles for eco-friendly and clean technology refrigeration system | TNSCST | Dr.S.Sundararaj | 10,000 |
| Hybrid solar and wind system | IIT - Chennai | Dr.S.Sundararaj | 2,00,000 |