


FACULTY PROFILE

Name of Teaching Staff / RMK ID	RAJESH S / T0978		
Designation	ASSISTANT PROFESSOR		
Department	MECHANICAL ENGINEERING		
Date of Joining the Institution	25.05.2018 (Regular)		
Qualifications	B.E (Mechanical Engineering)	M.E (Manufacturing Engineering)	(Ph.D)
Total Experience	Overall : 6.5	in RMK : 5.5	
Papers Published in Journal	Overall : 23	After Joining RMK : 13	
List of Papers Published	<ol style="list-style-type: none"> 1. Design of Automatic Headlamp Control using Light-Dependent Resistor Sensors and Night Vision Camera 2. An empirical study of the impacts of parameters in micro electrochemical drilling of Al 7075 alloy composites with SiC and fly-ash 3. Electrical discharge Machining process variable assessment on Al 7075 mixed composite materials utilizing multi-criteria optimization method 4. Taguchi-based grey relational study for multiple criterion optimization on process variables for micro Electro-Chemical Machining of Inconel Super-alloy 5. Electrochemical machining of aluminium 7075 alloy, silicon carbide, and fly ash composites: An experimental investigation of the effects of variables on material removal rate 6. Surface roughness assessments and comparative study of Inconel 625 and Inconel 718 alloys after micro electrochemical machining 7. Mechanical Characterization of Glass Fiber Resin Reinforced with Sugarcane 8. Study of the Mechanical Properties of Al7075 Alloy, Silicon Carbide and Fly Ash Composites Manufactured by Stir Casting Technique 9. Fabrication of Al6063 alloy, silicon carbide and boron glass powder metal matrix composites in stir casting process and analysis the impact of process variables on mechanical properties 10. Optimization of Material Removal Rate and Surface Roughness for Micro ECM of Inconel 718 alloy utilizing Grey Relational 		

	<p>Technique</p> <p>10. Design and Modelling of L-type Bi-directional Roller Conveyers for Glass Hauling</p> <p>11. Design and Modelling of Self Balancing Electric Two-Wheeler using Gyroscope</p> <p>12. Investigations on austenitic nickel-chromium based super alloys - Inconel 625 and Inconel 718 from material removal rate in micro electrochemical machining</p> <p>13. Design and Modelling of Disaster Relief Vehicle using Rocker Bogie Mechanism</p> <p>14. Experimental Determination and Optimization of Hard Turned Austempered Ductile Iron (ADI) With Al-Ti-N Coated Carbide Insert</p> <p>15. Optimization of Micro Electrochemical Machining of Inconel 625 using Taguchi based Grey Relational Analysis</p> <p>16. Development of Human Assisting Robot</p> <p>17. Optimization of Process Parameters on Surface Roughness for Micro Electrochemical Machining of Aluminium Matrix Composite</p> <p>18. Effect of Processing Parameters on Metal Matrix Composites in Stir Casting Process Using Taguchi Technique</p> <p>19. Fabrication of Al 6082, SiC and Boron Glass Powder Composites and Evaluation of Mechanical Properties</p> <p>20. Experimental Study of Effect of Parameters on Material Removal Rate for Electrochemical Machining of Aluminium Matrix Composite</p> <p>21. Experimental Investigation of Tool Behavior of Al-Ti-N Coated Carbide Insert in Hard Turning Process</p> <p>22. Improving the Properties of Green Sand by the Process of Pre Cooling using Preliminary Cooling Setup</p> <p>23. Design and Fabrication of Low Cost Fatigue Test Rig</p>	
Papers Presented in Conferences (Scopus / WoS indexed only)	Overall : 08	After Joining RMK : 06
Ph.Ds / Projects Guided	Ph.Ds Guided : Nil	Student Projects Guided : 08
Books Published :	Count : Nil	
	List : -	
Patents	Published Count : 15	Granted Count : Nil

	<ol style="list-style-type: none"> 1. Preliminary Cooling of Moulding Sand by Precooling Setup 2. Differential and Motor Support for Electric Formula Race Cars 3. Low-Cost Fatigue Test Rig 4. Autonomous Fire Fighting Robot 5. Automatic Unmanned Railway Level Crossing Gate 6. Automatic Headlamp Control System 7. Intelligent Artificial Intelligence and IoT Powered Efficient Energy Monitoring Architecture for the Smart Grid System 8. Self-Balancing of Electric Two-Wheeler Using Gyroscope 9. Automated Pineapple Peeling Machine using Pneumatic Solenoid Valve 10. Disaster Relief Vehicle using Rocker Bogie Mechanism 11. L-Type Bi-Directional Roller Conveyors for Glass Hauling in Production Industries 12. Method for Creating Cover Blocks for Reinforced Steel Insertion using Smart Materials (Scrap Plastics and Fly Ashes) 13. Night Vision Patrolling Robotic Intelligent Framework Utilizing Cloud based Internet of Things 14. Intelligent Agriculture System to Assist Farmers in Choosing Better Decisions using Data Science 15. An Intelligent Technology to Mitigate Two-Wheeler Accidents
Professional Memberships	Count : 01
	List : Life time membership – ISTE
Consultancy Projects Completed	Count : 01
Awards Received	Count: Nil
	List : Nil
Research grants Received	TNSCST – Preliminary cooling of Molding Sand – Grant Received – rs. 8000 – Completed – 2019.
Orchid Link / ID	ID : 0000-0001-7281-6074
Google Scholar Link / ID	ID : 3A6kOGkAAAAJ

Vidwan Link / ID	ID : 305207
Research Gate Link / ID	https://www.researchgate.net/profile/Rajesh-Suresh
Scopus Link / ID	ID : 57221031819
Web of Science Link / ID	ID : GYQ-7307-2022