

FACULTY PROFILE

Name of Teaching Staff / RMK ID	Dr. RAJESH S / T0978			
Designation	ASSOCIATE PROFESSOR (Grade – I)			
Department	MECHANICAL ENGINEERING			
Date of Joining the Institution	25.05.2018 (Regular)			
Qualifications	B.E (Mechanical Engineering)	M.E (Manufacturing Engineering)	Ph.D (Renewable Energy)	
Total Experience	Overall : 10.5		in RMK : 9.5	
Papers Published in Journal	Overall : 27		After Joining RMK : 24	
List of Papers Published	1. Cucumber drying performance in an indirect solar dryer with thermal energy storage, Solar Energy, August 2026, 10.1016/j.solener.2026.115022. 2. Hybrid infrared-hot air drying of cardamom: kinetic modeling, optimization, and quality assessment, Heat and Mass Transfer, August 2026, 10.1007/s00231-026-03742-0. 3. Drying kinetics, energy, exergy, and economic aspects of indirect solar dryer with phase change material, Solar Energy, February 2026, 10.1016/j.solener.2025.114287. 4. Comparative energy, environmental and economic analysis of solar air heaters with corrugated and sinusoidal absorber plates with thermal energy storage, Applied Thermal Engineering, November 2025, 10.1016/j.applthermaleng.2025.128033. 5. Drying Kinetics, Statistical and Nutritional Analysis of a Drip Lock Sheet Greenhouse Dryer for Cucumis sativus Drying, Current Research in Nutrition and Food Science, August 2025, 10.12944/CRNFSJ.13.2.9. 6. Forecasting the Material Extraction Rate of Inconel 625 Alloy in Micro Electrochemical Drilling through Machine Learning Approaches, AIP Conference Proceedings, January 2025, 10.1063/5.0246162. 7. Prediction of Ultimate Tensile Strength of Dissimilar Substances Welding using Random Forest Regression, AIP Conference Proceedings, January 2025, 10.1063/5.0246511. 8. Forecasting the Material Removal Rate of Inconel 718 Alloy in Electrochemical Machining through Machine Learning Approaches, SAE Technical Paper Series, January 2025, 10.4271/2024-01-5253. 9. OPTIMIZATION OF DRYER PROCESS PARAMETERS FOR IVY GOURD DRYING USING RESPONSE SURFACE METHODOLOGY, Thermal Science, November 2024, 10.2298/TSCI240728248S.			

	10. Drying kinetics, energy, statistical, economic, and proximate analysis of a greenhouse dryer using different glazing materials for <i>Coccinia grandis</i> drying, Solar Energy, December 2024, 10.1016/j.solener.2024.113047. 11. Energy and environmental analysis in an indirect solar dryer with flat coil inserted phase change material, Sustainable Energy Technologies and Assessments, June 2024, 10.1016/j.seta.2024.103805. 12. Solar Radiation Forecast Utilizing an Artificial Neural Network Model with Three Distinct Learning Algorithms, SAE Technical Paper Series, February 2024, 10.4271/2023-01-5174. 13. Mathematical Modeling of Thin Layer Drying Characteristics of Okra (<i>Abelmoschus Esculentus</i>), AIP Conference Proceedings, January 2023, 10.1063/5.0176298. 14. Detection of Sludge in Critical Region of Oil Transportation Pipelines using Robot, AIP Conference Proceedings, December 2023, 10.1063/5.0176131. 15. Performance Analysis of Thin Layer Drying of Okra (<i>Abelmoschus Esculentus</i>), AIP Conference Proceedings, 2023. 16. Design of Automatic Headlamp Control Using Light-Dependent Resistor Sensors and Night Vision Camera, Lecture Notes in Networks and Systems, September 2022, 10.1007/978-981-19-2225-1_58. 17. An empirical study of the impacts of parameters in micro electrochemical drilling of Al 7075 alloy composites with SiC and fly-ash, Materials Today: Proceedings, October 2022, 10.1016/j.matpr.2022.09.453. 18. Taguchi-based grey relational study for multiple criterion optimization on process variables for micro Electro-chemical Machining of Inconel Super-alloy, Materials Today: Proceedings, 2022, 10.1016/j.matpr.2022.04.060. 19. Surface roughness assessments and comparative study of Inconel 625 and Inconel 718 alloys after micro electrochemical machining, Materials Today: Proceedings, April 2022, 10.1016/j.matpr.2022.04.076. 20. Optimization of Material Removal Rate and Surface Roughness for Micro ECM of Inconel 718 alloy utilizing Grey Relational Technique, IOP Conference Series: Materials Science and Engineering, February 2021, 10.1088/1757-899X/1059/1/012008. 21. Mechanical characterization of glass fiber resin reinforced with sugarcane, Materials Today: Proceedings, January 2021, 10.1016/j.matpr.2020.11.830. 22. Study of the mechanical properties of Al7075 alloy, silicon carbide and fly ash composites manufactured by stir casting technique, Materials Today: Proceedings, December 2020, 10.1016/j.matpr.2020.11.278.
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	23 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, Materials Today: Proceedings, November 2020, 10.1016/j.matpr.2020.10.483. 24. Design and modelling of self balancing electric two-wheeler using gyroscope, Journal of Critical Reviews, June 2020, 10.31838/jcr.07.09.176. 25. Design and Modelling of L-type Bi-directional Roller Conveyers for Glass Hauling, Lecture Notes in Electrical Engineering, March 2020, 10.1007/978-981-15-2256-7_26. 26. Investigations on austenitic nickel-chromium based super alloys - Inconel 625 and Inconel 718 from material removal rate in micro electrochemical machining, AIP Conference Proceedings, July 2019, 10.1063/1.5117971. 27. Design and modelling of disaster relief vehicle using rocker bogie mechanism, International Journal of Innovative Technology and Exploring Engineering, April 2019.
Papers Presented in Conferences (Scopus / WoS indexed only)	Overall : 23 After Joining RMK : 20
Professional Memberships	Count : 02
	List : Life time membership – ISTE Annual membership - SAE
Consultancy Projects Completed	Count : 01
Awards Received	Count: 3
	List : NPTEL DESIPLINE START IEI BEST FACULTY AWARD NPTEL DOMAIN SCHOLAR
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