


FACULTY PROFILE

Name of Teaching Staff / RMK ID	Dr. KADIRVEL A / T0416			
Designation	PROFESSOR			
Department	MECHANICAL ENGINEERING			
Date of Joining the Institution	14.05.2014 (Regular)			
Qualifications	AME	M.E. (Industrial Engineering)	Ph.D	
Total Experience	Overall : 9.5 years		in RMK : 9.5 years	
Papers Published in Journal	Overall : 25.6 Years		After Joining RMK : 17.5 Years	
List of Papers Published	<p>1. Kadirvel, A., Hariharan, P. and Gowri, S. “Experimental Investigation on the Electrode Specific Performance in micro-EDM of Die-Steel”, Materials and Manufacturing Processes, Vol.28, No.4, pp.390-396, 2013.</p> <p>2. Kadirvel, A., Hariharan, P. and Gowri, S. “A review on various research trends in micro-EDM”, <i>International Journal of Mechatronics and Manufacturing Systems</i>, Vol. 5, No. 5, pp.361- 384, 2012.</p> <p>3. Kadirvel, A. and Hariharan, P. “Investigation on the Quality of Micro Electrical Discharge Machined EN-24 Die Steel using Different Electrodes”, <i>European Journal of Scientific Research</i>, Vol.95, No.3, pp.316-323, 2013.</p> <p>4. Kadirvel, A. and Hariharan, P. “Optimization of die sinking micro- EDM process for multiple performance characteristics using Taguchi based Grey relational analysis”, <i>Materials and Technology</i>, 48 (2014) 1, 27–32.</p> <p>5. Kadirvel, A. Hariharan, P. and M.Mudhukrishnan, “A study on the die sinking micro-electrical discharge machining of EN-24 die steel using various electrode materials” <i>Advanced Materials Research</i>, Vol. 984-985, pp. 73-82, 2014.</p> <p>6. T. Dinesh, A. Kadirvel and Arunprakash Vincent “Effect</p>			

of Silane Modified E-glass Fibre/Iron(III)Oxide Reinforcements on UP Blended Epoxy Resin Hybrid Composite” Silicon, Springer Netherlands, Vol.11, No.5, 2019 pp. 2487-2498.

7. T Dinesh, A Kadirvel, P Hariharan, “Role of nano-silica in tensile fatigue, fracture toughness and low-velocity impact behaviour of acid-treated pineapple fibre/stainless steel wire mesh-reinforced epoxy hybrid composite” Materials Research Express, IOP Publishing, 2020.

8. T Dinesh, A Kadirvel, P Hariharan, “Thermo-Mechanical and Wear Behaviour of Surface-Treated Pineapple Woven Fibre and Nano- Silica Dispersed Mahua Oil Toughened Epoxy Composite”, Silicon, Springer Netherlands, Silicon (2020). <https://doi.org/10.1007/s12633-020-00387-4>.

9. M.S. Senthil Kumar, Chithirai Pon Selvan, K.Santhanam, **A.Kadirvel**, V. Chandraprabu and L. Sampath Kumar “Effect of Nanomaterials on Tribological and Mechanical Properties of Polymer Nanocomposite Materials” Advances in Materials Science and Engineering – Hindawi, Volume 2022, <https://doi.org/10.1155/2022/2165855>

10. Thilagam K.T, Gayathiri Devi G, Kadirvel A, Kumar T., “Development of wheat husk Biosilica and characterization of its Areca Reinforced polyester composite”., Biomass Conversion and Biorefinery, (Accepted to be published in this November month).

11. T. Prakash, D. Murali, G. Mahendran, A. Kadirvel, S. Mohanasundaram, S. Prabakaran, Mukuloth Srinivasnaik, Yashapl Singh., “Experimental Wear Analysis of Al 7090 Alloy Reinforced with Zirconium Oxide Nanoparticles using Hybrid Machine Learning Algorithms” Eur. Chem. Bull. 2023, 12(Special Issue 4), 15763-15776 doi: 10.48047/ecb/2023.12.si4.14112023.15/06/2023

12. D.R. Srinivasan, A. Kadirvel, Manepalli. Sailaja, G.R. Sanjay Krishna, Arun Kumar Gupta and C. Shyamlal., “Evaluation of welding procedures to optimize the corrosion performance of AISI 304L pipes”, Materials

	<p>Today: Proceedings, Available online 24 July 2023. https://doi.org/10.1016/j.matpr.2023.07.163.</p> <p>13. Kadirvel Arumugam, Mohammed Ali Haleem, Kaliappan Seeniappan, Pravin P. Patil, V. Balaji, Pranav Kumar Prabhakar., “Ni addition results in the formation of a bulk metallic glass matrix composite based on ductile Cu” AIP Conference Proceedings, Vol: 2800, 020133 (2023). https://doi.org/10.1063/12.0019894</p>	
Papers Presented in Conferences (Scopus / WoS indexed only)	Overall : 5	After Joining RMK : 5
Ph.Ds / Projects Guided	Ph.Ds Guided : 01	Student Projects Guided : 25
Books Published :	Count : 01	
	List : Emerging Trends in Engineering, Management, Arts and Science, Published by : TECH PRESS, First Edition: 2023 ISBN : 978-93-91697-09-9	

Patents	Published Count : 01	Granted Count : Nil
	List : A Novel Method – Integration of Internal Combustion Engine with IoT devise (Application Number: 202141028823 A, &Publication Date: 09.07.2021)	
Professional Memberships	Count : 5	
	List : List : 1. Indian Society for Technical Engineering (ISTE) – Life Member 2. Associate Member of Institute of Engineers (AMIE) – The Institution of Engineers (India) 3. Indian Society of Systems for Science & Engineering (ISSE) – Life Member 4. National institute for Technical Training and Skill Development – Life Member 5. The Society of Digital Information and Wireless Communications – Life Member	
Consultancy Projects Completed	Count : 4	
Awards Received	Count : 01	
	List : Best Faculty Award given by INTERNATIONAL AWARD CEREMONY on Academic Achievers in Engineering, Management, Arts and Science [AEEMAS - 2023]	

Research grants Received	-
Orchid Link / ID	ID: https://orcid.org/0000-0001-6238-6867
Google Scholar Link / ID	ID: https://scholar.google.com/citations?user=MhHbUxAAAAAJ&hl=en
Vidwan Link / ID	ID : 305313
Research Gate Link / ID	https://www.researchgate.net/profile/Kadirvel-Arumugam
Scopus Link / ID	ID : 55430897100
WoS Link / ID	ID: AAA-5556-2022