


FACULTY PROFILE

Name of Teaching Staff / RMK ID	Dr. M. MUDHU KRISHNAN / T0368		
Designation	ASSOCIATE PROFESSOR		
Department	MECHANICAL ENGINEERING		
Date of Joining the Institution	16.12.2005 (Regular)		
Qualifications	B.E. (Production Engineering)	M.E (Manufacturing Engineering)	Ph.D
Total Experience	Overall: 18 Years 5 Months	in RMK: 17 Years 11 Months	
Papers Published in Journal	Overall: 16	After Joining RMK: 16	
List of Papers Published	<ol style="list-style-type: none"> 1. Harish Venu, Prabhu Appavu, Venkatesan Krishnan, Jayaprabakar Jayaraman, Mudhu Krishnan, Sudhakar Kosinapogu, Dhana Raju, (2023) "Emission study on a direct injection diesel engine powered with blends of Moringa oleifera biodiesel-diesel", Environmental Quality Management, 1-7. 2. Raj kumar Gupta, Meghasham Narayanrao Narule, M. Mudhu Krishnan, M. Rama, Dinesh Chandra Pandey, Jampana Madhuri Sailaja, (2023) "Study on the wear properties of Al5083 metal matrix composite using boron carbide nanoparticles" Materials Today: Proceedings, https://doi.org/10.1016/j.matpr.2023.09.013. 3. M. Mudhu Krishnan, G. Ashwin Jose, S. Davis Linston, T.S. Lakshmi Prasath, (2021) "Acoustic Analysis of Reactive Muffler", International Journal of Mechanical Engineering, Vol.6, Issue.3, 1507 – 1514. M. Mudhu Krishnan, S. Sanjeev Gowtham, P. Ranjith Kumar, 4. H. Syed Mohamed Fazil, (2021) "Design Optimization and Fabrication of Spur Gear from Al7075-SiC-B4C Composites", International Journal of Mechanical Engineering, Vol.6, Issue.3, 1503 – 1506. 5. S.D. Sekar, S. Sekar, T.N. Valarmathi, M. Mudhu Krishnan, A Godwin Antony (2022) "Mathematical Modelling of thin layer drying characteristics and proximate analysis of turkey berry (Solanum torvum)", Thermal Science, 26, 2A, 825-834. [IF = 1.57, Anna University Listed Journal] 6. M Mudhukrishnan, P Hariharan, K Palanikumar. (2019) "Delamination Analysis in Drilling of Carbon Fiber Reinforced Polypropylene (CFR-PP) Composite Materials" Materials Today: Proceedings 16, 792-799. 		

7. Palanikumar K, Mudhukrishnan M, and Soorya Prabha P. (2020) "Technologies in additive manufacturing for fiber reinforced composite materials: a review", *Current Opinion in Chemical Engineering*, 28, 51–59. ISSN: 2211-3398. [IF=5.163, Anna University Listed journal]
8. M Mudhukrishnan, P Hariharan, K Palanikumar. (2020) "Measurement and analysis of thrust force and delamination in drilling glass fiber reinforced polypropylene composites using different drills" *Measurement*, 149, 106973 [IF=3.92, Anna University listed Journal]
9. M Mudhukrishnan, P Hariharan, K Palanikumar, B Latha. (2018) "Optimization and sensitivity analysis of drilling parameters for sustainable machining of carbon fiber– reinforced polypropylene composites" *Journal of Thermoplastic Composite Materials*, 32 (11), 1485-1508 [IF=3.33, Anna University listed Journal]
10. M. Mudhukrishnan, P. Hariharan, K. Palanikumar. (2017) "Tool materials influence on surface roughness and oversize in machining glass fiber reinforced polypropylene (GFR-PP) composites" *Materials and Manufacturing Processes*, Vol. 32, Issue 9, pp.988-997 [IP=4.61, Anna University, Annexure-I]
11. M. Mudhukrishnan, P. Hariharan and S.K. Malhotra. (2015) "Characterization of glass fibre/carbon fibre hybrid thermoplastics composite laminates fabricated by film stacking method" *Applied Mechanics and Materials*, Trans Tech Publications, Switzerland, ISSN: 1660 – 9336, Vol. 787, pp 518-522. [Anna University, Annexure-II (2014-15 list); Serial No: 1493]
12. Sriram, N. Sudharsanan and M. Mudhukrishnan. (2015) "Effect of silica and graphite filler material on mechanical behavior of epoxy composite laminates" *International Journal of Recent Scientific Research*, ISSN: 0976 – 3031, Vol.6 No.10, pp.6745-6748.
13. Ragothaman, K. Vijayaraja and M. Mudhukrishnan. (2014) "Multi-criteria Optimization using Grey Relational Analysis in drilling of Glass/Epoxy polymeric composites" *Advanced Materials Research*, Trans Tech Publications, Switzerland, and Vol.984-985, pp.336 – 344, ISSN: 1022 – 6680. [Anna University, Annexure-II (2013-14 list); Serial No: 432]
14. *Journal of Applied Engineering Research*, Research India Publications, ISSN: 0973-4562, Vol. 9 No.26, pp. 8830-8833. [Anna University, Annexure-II (2014-15 list); Serial No: 8565]
15. Dineshwaran Vijayakumar, M. Mudhukrishnan, S.K. Malhotra and K. Chandrasekaran. (2013) "Some studies on fibre reinforced thermoplastics laminates fabricated by film stacking method", *International Journals of Advanced materials manufacturing and characterization*. Vol.3 (1), pp.259-262, ISSN: 2347-1891.
16. Kadirvel, P. Hariharan and M. Mudhukrishnan. (2014) "A study on the die-sinking micro-electrical

	<p>discharge machining of EN-24 Die Steel Using Various electrode materials” Advanced Materials Research, Trans Tech Publications, Switzerland, Vol.984-985, pp.73– 82, ISSN: 1022 – 6680. [Anna University, Annexure-II (2013-14 list); Serial No: 432].</p> <p>17. Ragothaman, K. Vijayaraja and M. Mudhukrishnan. (2014) “Analysis of drilling characteristics in glass/polyester composite through Grey Relational Algorithm” International Journal of Applied Engineering Research, Research India Publications, ISSN: 0973-4562, Vol. 9 No.26, pp. 8830-8833. [Anna University, Annexure-II (2014-15 list); Serial No: 8565]</p>	
Papers Presented in Conferences (Scopus / WoS indexed only)	Overall : 13	After Joining RMK : 13
Ph.Ds / Projects Guided	Ph.Ds Guided : Nil	Student Projects Guided : 38
Books Published :	Count : -	
	List :	

Patents	Published Count : 01	Granted Count : Nil
	List : 1. Title: Automatic air filling system for Automobiles Applied to : The Indian Patent Office Application No: 202041045228 Filed Date : 16th October 2020 Published on : 22.04.2022	
Professional Memberships	Count : 3	
	List : 1. The Indian Society for Technical Education (ISTE) 2. Indian Society of Systems for Science & Engineering (ISSE) 3. The Society of Digital Information and Wireless Communications (SDIWC)	
Consultancy Projects Completed	Count : 1	
Awards Received	Count : 2	
	List : : 1. Received “Academic Excellence Award 2023” from the Institution of Engineers India (IEI) at the event of “World Engineers Day” held on 06-03-2023. 2. Received “Best Faculty Advisor Award 2023 2023” from the Institution of Engineers India (IEI) at the event of “World Engineers Day” on 06-03-2023.	
Research grants Received	1. Project Title : Process development for Fiber reinforced Thermoplastics (FRTP) prepregs by film stacking method and	

	<p>compression molding of F RTP product. Position held : Co – Investigator Sanctioned Amount : 18 Lakhs Sponsored by : Department of Science and Technology (DST), Government of India, New Delhi. Reference No. : SR/S3/MERC-0104/2009 Status : Completed on October 2013.</p> <p>2. Project Title : Design and development of an affordable bed for elderly and terminally ill patients for preventing decubitus ulcer. Position : Co – Investigator Sanctioned Amount : 7.4 Lakhs Sponsored by : Department of Science and Technology (DST), Government of India, New Delhi. Reference No. : SSD/TISN/024/2011-TIE Status : Completed on December 2014.</p>
Orchid Link / ID	ID : 0000-0002-6026-576X
Google Scholar Link / ID	ID : zVsBnAwAAAAJ
Vidwan Link / ID	ID : 301178
Research Gate Link / ID	ID: AAF-3128-2019
Scopus Link / ID	ID : 56313923200