

P.E.S. College of Engineering, Mandya - 571401 (An Autonomous Institution, affiliated to VTU, Belagavi)

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N		T		Gener	ral				
			Dr. GURUPAVAN H R						
			Assistant Professor						
			Department of Mechanical Engineering, RES College of Engineering, Mandug, 571 401						
			P.E.S College of Engineering, Mandya – 571 401						
			ondition Monitoring, Vision System, Composite Material 91 9686632650						
				<u>89@gmail.com</u>					
Email IL)	<u>g</u>	<u>pavan1989</u>	Academic Profile					
Degree College			Educational Qualifications University Year of Passing % ge Classing					Class	
-		-	in conin c	Oniversity		1 car of 1 assing	% ge	Class	
Ph. D	Mandya.			VTU, Belagavi		2020	-	-	
M.Tech	h P.E.S. College of Engineering Mandya			VTU, Belagavi		2013	9.26	FCD (2 nd Rank)	
<i>B</i> . <i>E</i> .	Ghousia College of Engineering, Ramanagara.			VTU, Belagavi		2011	66.17	First Class	
Professional Experience									
Organization and Department				Designation		Period		Total Experience	
P.E.S. College of Engineering, Mandya, Dept. of Mechanical Engg.				Assistant Professor		06-08-2013 to Till date		07 years	
Reports on Academic and Research Activities									
Academic Activities									
Teaching Records (Details of courses taught)Undergraduate: Mechanical Mechanical Measurements and Metrology, Material Science Metallurgy, Fluid Mechanics, Industrial Robotics, Elements of Mechanical Engine Computer Aided Engineering Drawing, CAD/CAM.Post Graduate (M. Tech): Analysis Technique, Computer Control of Manufacturing System, Condition							cal Engineering, Sensors and		
Maintenance, Advanced Industrial Robotics, Metrology & Computer Aided Inspection.									
Research Guidance (Candidates Awarded / Pursuing Ph.D / M.Sc., Engg./ M.Phil)									
Degree			Ph. D.			M.	M.Sc., Engg.		
Awarded			Nil				Nil		
Pursuing		Nil				Nil			
Spon	sored Rese	arch Proje	ects (List o	of Projects taken u	p /com	pleted and funds re	ceiver & fur	nding sources)	
Project Title Pr			Pro	oject Funded by		Grants Sanctioned		Grants Received	
Performance Monitoring			g AICTE			15,96,078/-	1	15,96,078/-	
		Research	n Publicatio	ons in Refereed Jo	urnals a	and Conferences/Sy	mposia		
Numbe	Number of Publications in			National			International		
Journals			Nil				11		
Conferences/Symposia				Nil			13		
			Other Imp	ortant Responsibi	lities H	eld in the College			
1. Coordinator for Department time table 2. BoE member									

LIST OF PUBLICATIONS

International Journals

- Gurupavan H R, H.V. Ravindra, T.M. Devegowda, "Effect of Wire Electrode Materials on Performance Characteristics for Wire Electrical Discharge Machining of Metal Matrix Composite Material" ASME International Mechanical Engineering Congress and exposition, PP. 1-5, ISBN: 978-0-7918-8448-5, 2021
- 2 Gurupavan H R, T.M. Devegowda, H.V. Ravindra, "Monitoring the Performance of Electrode Status and Surface Roughness in WEDM of Al-8% Si3N4 using Vision System" Journal of Critical Reviews, Vol. 7, PP. 2590-2599, ISSN: 2394-5125, 2020.
- 3 Gurupavan H R, Anil Kumar M N, "Effect of Various Wire Electrode Materials on the Performance of Wire Electrical Discharge Machining of Al/SiC Composite Material" International Research Journal of Engineering and Technology, Vol. 7, PP. 1484-1488, ISSN: 2395-0056, 2020.
- 4 Gurupavan H R, Amruth Babu D S "Experimental Investigation of Machining Performances of Al6061-SiC Metal Matrix Composite through Wire EDM" International Research Journal of Engineering and Technology, Vol. 7, PP. 1335-1340, ISSN: 2395-0072, 2020.
- 5. Gurupavan H R, H.V. Ravindra, Devegowda T. M, "Prediction and Comparison of Vision Parameter of Surface Roughness in WEDM of Al-6%Si3N4 and Al-10%Si3N4 Using ANN" Lecture Notes on Multidisciplinary Industrial Engineering, PP. 361-371, ISSN 2522-5022, 2019.
- 6 Gurupavan H R, H.V. Ravindra, Devegowda T. M, "Surface Roughness Measurement of WEDM Components Using Machine Vision System" Lecture Notes in Electrical Engineering, Vol.545, PP. 539-547, ISSN 1876-1100, 2019.
- Gurupavan H R, H.V. Ravindra, Devegowda T. M, Rudreshi Addamani, "Machine Vision System for Correlating Wire Electrode Status and Machined Surface in WEDM of AlSi3N4 MMC'S" IOP Publishing: Materials Science and Engineering Vol. 376, PP. 012120, 2018.
- 8 Rudreshi Addamani, Gurupavan H R, H V Ravindra, Ugrasen G, "Estimation and Comparison of Welding Performances in P- GMAW using MRA and ANN for SS 304L Material" IOP Publishing: Materials Science and Engineering Vol. 376, PP. 012119, 2018.
- 9. Gurupavan H R, T.M. Devegowda, H.V. Ravindra, G. Ugrasen, "Estimation of Machining Performances in WEDM of Aluminium based Metal Matrix Composite Material Using ANN" Materials Today: Proceedings, Vol. 4, PP. 10035–10038, 2017.
- Gurupavan H R, T.M. Devegowda, H.V. Ravindra, "Optimization of WEDM Parameters using Taguchi Technique in Machining of Metal Matrix Composite Material", International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE), Vol 2, PP. 714-719, 2017.
- B.M. Umeshgowda, H.V. Ravindra, H.R. Gurupavan, G. Ugrasen, G.V. Naveen Prakash, "Optimization of process parameters in drilling Al-Si3N4 metal matrix composites material using Taguchi technique" Procedia Materials Science, Vol. 5, PP. 2207-2214, 2014.

International Conferences

- Gurupavan H R, H.V. Ravindra, T.M. Devegowda, "Effect of Wire Electrode Materials on Performance Characteristics for Wire Electrical Discharge Machining of Metal Matrix Composite Material" ASME International Mechanical Engineering Congress and exposition (IMECE-2020) Portland, OR, USA, November 16-19, 2020.
- Gurupavan H R, H.V. Ravindra, T.M. Devegowda, "Monitoring the Performance of Electrode Status and Surface Roughness in WEDM of Al-8% Si₃N₄ using Vision System" International Conference on Advances in Mechanical Engineering Sciences (ICAMES-2K20), PESCE, Mandya, Feb. 28th-29th, 2020.
- Gurupavan H R, H.V. Ravindra, T.M. Devegowda, "Prediction of Vision Parameters of Surface roughness and Wire Wear in Wire-EDM of Al-10 wt.% Si3N4 MMC Material using ANN" International Conference on Ultrasonics and Materials Science for Advanced Technology (ICUMSAT-2019), VBS Purvanchal University, Jaunpur, Uttar Pradesh, Nov. 16th-18th, 2019.
- 4. Gurupavan H R and H.V. Ravindra, "Performance Monitoring of Electrode Wear and Surface Roughness in WEDM of Al-10%Si₃N₄ using Machine Vision System" ASME International Mechanical Engineering Congress and exposition (IMECE-2019), Calvin L. Rampton Salt Palace Convention Center, Salt Lake City, Utah, USA, Nov. 11th-14th, 2019.
- Gurupavan H R, H.V. Ravindra, T.M. Devegowda, "Prediction and Comparison of Vision Parameter of Surface Roughness in WEDM of Al-6%Si3N4 and Al-10%Si3N4 using ANN", All India Manufacturing Technology, Design and Research (AIMTDR-2018), College of Engineering Guindy, Anna University, Chennai, Dec. 13th-15th, 2018.
- Gurupavan H R, H.V. Ravindra, T.M. Devegowda, "Estimation of Machine Vision parameters of Surface roughness and Wire wear in Wire EDM of Al-Si₃N₄ Metal Matrix Composite Material using Artificial Neural Network" ASME International Mechanical Engineering Congress and exposition (IMECE-2018), David L. Lawrence Convention Center, Pittsburgh, PA, USA, Nov.09-15, 2018.
- Gurupavan H R, T.M. Devegowda, H.V. Ravindra, "Surface Roughness Measurement of WEDM Components using Machine Vision System" International Conference on emerging research in electronics, computer science and technology (ICERECT-18), PESCE, Mandya, Aug. 23rd-24th, 2018.
- Gurupavan H R, H.V. Ravindra, T.M. Devegowda, Rudreshi Addamani, "Machine Vision System for Correlating Wire Electrode Status and Machined Surface in WEDM of AlSi₃N₄ MMC'S" International Conference on Advances in Manufacturing, Materials & Energy Engineering, MITE, Mangalore, Mar. 02nd-03rd, 2018.
- Rudreshi Addamani, Gurupavan H R, H V Ravindra, Ugrasen G, "Estimation and Comparison of Welding Performances in P- GMAW using MRA and ANN for SS 304L Material" International Conference on Advances in Manufacturing, Materials & Energy Engineering, MITE, Mangalore, Mar. 02nd-03rd, 2018.

- Gurupavan H R, T.M. Devegowda, H.V. Ravindra, "Optimization of WEDM Parameters using Taguchi Technique in Machining of Metal Matrix Composite Material" International Conference on advances in mechanical engineering sciences (ICAMES-17), PESCE, Mandya, Apr. 21st-22nd, 2017.
- Gurupavan H R, T.M. Devegowda, H.V. Ravindra, G. Ugrasen, "Estimation of Machining Performances in WEDM of Aluminium based Metal Matrix Composite Material Using ANN" International Conference on Recent Trends in Engineering and Materials Science (ICEMS-2016), Jaipur National University, Jaipur, Mar. 17th-19th, 2016.
- Gurupavan H R, T.M. Devegowda, Monisha P, H.V. Ravindra, "Optimization of machining parameters in WEDM of Al-Si₃N₄ metal matrix composite material using Taguchi Technique", International Conference on Precision, Meso, Micro and Nano Engineering, COPEN-9, IIT-Bombay, Dec. 10th-12th, 2015.
- 13. Gurupavan H R, H.V. Ravindra, B.M. Umeshgowda, G.V. Naveen Prakash, G. Ugrasen, "Optimization of process parameters in drilling Al-Si₃N₄ metal matrix composites material using Taguchi technique". International conference on Advances in Manufacturing and Materials Engineering (ICAMME-2014), NITK, Surathkal, Mar. 27th-29th, 2014.