



List of Research Publication

Paper in Journals

A.Y.	Name of the Faculty	Title of Paper	Name of Journal
2020-21	V.K.Patil	Influence of Die Surface Roughness (Ra) on Manufacturing Ni-Cr	Journal of SeyBold Report/ ISSN NO: 1533-9211/ VOLUME 15 ISSUE 7 2020
	V.K.Patil	Multiple Attribute Decision-Making (MADM) Method for Material Selection in High Speed Engineering Application	International Journal of Advanced Science and Technology, Vol. 29, No. 9s, (2020), pp. 7443-7454
	S.V.Kadbhane	Numerical Analysis on Convective Heat Transfer Enhancement by Using Ferrofluid	International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.429 Volume 9 Issue VI Jun 2021- Available at www.ijraset.com
	R.D.Rakhade	Optimal Choice of Agricultural Drone using MADM Methods	International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES) Impact Factor: 5.22 (SJIF-2017), e-ISSN: 2455-2585 Volume7 , Issue4 , April2021
	P.R.Beldar	Retrofitting of Scooter using Electrical Power Pack	International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.429 Volume 8 Issue VIII Aug 2020- Available at www.ijraset.com
	Y.V.Borase	Design of Pipe Notching Machine	International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.429 Volume 8 Issue VII July 2020- Available at www.ijraset.com
	G.R.Rayjade	<u>Measurement System Scrutiny using Gage R&R: Case Study</u>	International Research Journal of Engineering and Technology (IRJET) / e-Volume: 07 Issue: 06 June 2020 www.irjet.net , ISSN: 2395-0056 ,p-ISSN: 2395-0072



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Hirabai Haridas Vidvanagari, Amrut Dham, Panchavati, Nashik-422003

	M.P.Panchbhai	Design of Helmet Cooling System Modules and their Comparison	International Journal for Research in Applied Science & Engineering Technology (IJRASET) /ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.429 / Volume 8 / Issue VI June 2020- Available at www.ijraset.com
2019-20	S.D.Barahate	Film cooling performance measurement over a flat plate for a single row of holes embedded in an inclined trench	International Journal of Thermal Sciences 150 (2020) 106215/ ScienceDirect/Volume 150, April 2020, 106215
	G.R.Raijade, R.V.Bhaskar, A.D.Bhagure	Honeycomb Sandwich panel analysis-Analytical and FEA approach	International Journal of Current Engineering and Technology/ E-ISSN 2277 – 4106, P-ISSN 2347 – 5161 / 02 July 2019, Vol.9, No.4
	V.V.Khond	A Comprehensive Review on Applicability of Shape Memory Alloy Hybrid Composite Beam in Vibration Control	International Journal of Current Engineering and Technology E-ISSN 2277 – 4106, P-ISSN 2347 – 5161
	S.V.Kadbhane	Convective Heat Transfer Enhancement of Fe3O4-Water Nanofluid under the effect of External Magnetic Field and Twisted Tape Insert	International Journal of Current Engineering and Technology E-ISSN 2277 – 4106, P-ISSN 2347 – 5161
	M.P.Panchbhai	Design of Helmet Cooling System Modules and their Comparison	International journal for research in applied science & engineering technology/ Volume 8, Issue VI, June 2020/ISSN No.: 2321-9653
	P.B.Ranade	Defect Analysis and Implementation of DMAIC Methodology for Defect Reduction in Tyre Manufacturing	ISSN(Online) : 2456-8910 International Journal of Innovative Research in Applied Sciences and Engineering (IJIRASE) Volume 3, Issue 5, DOI: 10.29027/IJIRASE.v3.i5.2019, 479-482, September 2019
	V.D. Nichit	Ovality Correction In Manufacturing of The Valve-Seat	IJSART - Volume 5 Issue 5 –MAY 2019 ISSN [ONLINE]: 2395-1052
	V.K.Patil	Sintering Temperature and Applied Pressure Effect on Manufacturing Ni-Cr Based Composite Material.	International Journal of Engineering and Advanced Technology (IJEAT) / ISSN: 2249 – 8958, Volume-9 Issue-3, February, 2020
2018-19	N.V.Patil, R.D. Rakhade	Experimental Analysis of Tribological Behaviors of Submersible Pump Thrust Bearing using Taguchi Method	IJ: JETIR2018/ISSN:2349-5162/Vol :05 /Issue : 07 /July 2018
	R.D. Rakhade, N.V.Patil	Design And Manufacturing of Automated Agricultural Irrigation System	IJ: IJTIMES 2018/ e-ISSN:2455-2585 / Vol-4 /Issue :08/ Aug 2018
	A.S.Patil, Dr. P.B.Kushare	Design and Development of Novel Configuration of Steering Knuckle for an All Terrain Vehicle (ATV)	IJ: Journal of Advancements in Material Engineering Volume 3 Issue 3, Page 30-40 , MAT Journals 2018
	V.V.Khond, P.K.Kavale, N.S.Dixit	An Approach To Mechatronics System Design	IJ: International Journal of Engineering Development and Research/IJEDR 2019 Volume 7, Issue 2 ISSN: 2321-9939/ May2019



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	P.R.Beldar, C.D.Valunj	Damping Analysis of Patched Layered Sorbothane	International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES) Impact Factor: 5.22 (SJIF-2017), e-ISSN: 2455-2585 Volume 5, Issue 04, April-2019
	S.V.Kadbhane	A comprehensive review on ferrofluid convective heat transfer under the influence of external magnetic source	International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES) Impact Factor: 5.22 (SJIF-2017), e-ISSN: 2455-2585 Volume 5, Issue 04, April-2019
2017-18	P.R.Beldar	Auto centering of seamless pipe for NDT using Three Guide Roller FLD Technique	IJTIMES/ISSN: 2455-2585/Vol:04 Feb 2018
	R.V.Bhaskar	Modification and Manufacturing of Hand Cranked Rice Transplanter	IJRTMEE /ISSN : 2349-7947/ vol-4,Iue - 6,June 2017
	V.S.Patil	Local heat transfer for jet impingement on a concave surface including injection nozzle length to diameter and curvature ratio effects	Science Direct :Experimental Thermal and Fluid Science (2017), doi: http://dx.doi.org/10.1016/j.expthermflusci.2017.08.002
	N.S.Dixit ,V.V.Khond, P.K.Kavale	A Review on Effect of Cryogenic Treatment on Tool Steel	(IJTIMES) e-ISSN: 2455-2585 Impact Factor: 3.45 (SJIF-2015),, Volume 4, Issue 03, March-2018
	V.D.Nichit	Experimental Investigation And Validation Of Natural Frequency Of Rectangular Plates And Lap Joints	IJRIER , e- ISSN: 2456 – 2084,Volume: 03 Issue: 03 March – 2018 (IJRIER),
	V.G.Galande	Experimental Investigation on Mechanical Properties of glass & Jute Reinforced composite	IJRTMEE /ISSN : 2321-8169/ vol-5,Iue - 6,June 2017
	Dr.P.B.Kushare/ A.S.Patil	“Design and Development of Novel Configuration of Steering Knuckle for an All Terrain Vehicle (ATV)”	Journal of Advancements in Material Engineering,Vol. 3(3),pp.30-40,2018
2016-17	S.D.Mate	Design and Mould flow analysis of injection mould for Luggage bag wheel	IJSRSET/Vol02/ Issue 05 /Print ISSN :2395-1990/Page 122-132
2015-16	G.G.Waghmare	A new optimization algorithm for solving complex constraint design optimization problem	Engg Optimization ,Taylor & Fransis , DOP : Feb 2016
	P.B.Kushare	A study of 2-lobe symmetric hole entry hybrid journal bearing operating with non-Newtonian lubricant considering thermal effects	Tribology International 92 (2015) 567-576 , DOP 17 July 2015
	P.R.Beldar	Damping of structure with viscoelectric material literature review	IJERM -Vol 02 Issue 06 (June 2016)
	S.V.Kadbhane	Review of convective heat transfer from plate fins under natural and mixed convection at different inclination angle	IRJET/Vol 3/Issue :02 / Feb 2016 /ISSN:2395-0056/Page467-473
	S.D.Mate	Design and Mould flow analysis of injection mould for Luggage bag wheel -A review	IJREST /Vol:03/Issue-1/Jan 2016 /ISSN: 2349:7610
	M.V.Bhadak	Performance and Analysis of	IJREST /Vol:03/Issue-1/Jan 2016 /ISSN:



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		Bonded ,Riveted ,Hybrid Joint-A review	2349:7610
	P.R.Karmase	An expermental Investigation & Analysis of gear componant manufactured by 3D Printing & Conventional process	IJREST /Vol:03/Issue-1/Jan 2016 /ISSN: 2349:7610
	R.V.Bhandare	Reduction of cycle time of an elctro-hydraulic circuit used in an automated rod both ends chamfering SPM by simulation and PLC	IJRMEE/ISSN:2349:7947/May 2016
2014-15	G.G.Waghmare	Optimization of thermal performance of a smooth flat plate solar air heater using teaching-learning-based optimization algorithm	Cogent Engineering, doi: 10.1080/23311916.2014.997421.
	G.G.Waghmare	Design optimization of robot grippers using teaching-learning-based optimization algorithm,	Journal : Advanced Robotics. doi: 0.1080/01691864.2014.986524.
	G.G.Waghmare	Multi-objective design optimization of plate-fin heat sinks using teaching-learning-based optimization algorithm,	Journal :Applied Thermal Engineering, 76, 521-529.
	G.R.Raijare	Study of Composite Sandwich Structure and Bending Characteristics– A Review	International Journal of Current Engineering and Technology E-ISSN 2277 – 4106, P-ISSN 2347 – 5161
	P.B.Kushare	Influence of wear on the performance of 2-lobe slot entry hybrid journal bearing	Journal :Journal of Mechnaics & Indusrty,DOI 10.1051/mech/2015023, 12 March 2015
	P.B.Kushare	Nonlinear transient reponse of rough symmetric two lobe hole entry hybrid journal bearing system	Journal :Journal of Vibration & control,DOI 10.1177/1077546315575831,18 jan 2015
	P.B.Kushare	Surface roughness effect on the Performance of 3-lobe symmetric hole entry hybrid journal bearings.	JournalApplied Mechanics and Materials. Vol. 592, 2014, pages 1190-1194. ((ISSN: 1662- 7482))SCOPUS
	P.B.Kushare	Two Lobe Non-recessed Roughened Hybrid Journal Bearing-A Comparative Study,	journalTribology International, Volume 83, March 2015, Pages 51-68. (Impact Factor: 2.124)(5year I.F: 2.165)
	R.D.Rakhade	Application of Hill Climbing Algorithm for Optimization of Plate Fin Heat Exchanger	Journal :Journal of Refrigeration, Air Conditioning, Heating and Ventilation , ISSN: 2394-1952(online) , Volume 2, Issue 1, Feb 2015
	R.V.Bhaskar	Damage Detection in Aluminium Honeycomb Structure using Vibration Analysis	International Journal of Current Engineering and Technology ,E-ISSN 2277 – 4106, P-ISSN 2347 – 5161
	A.S.Gjarathi	Testing and performance of parabolic trough collector in Indian Climate	JSRD : ISSN 2321:0613 Vol 3 Issue 10 dec 2015
2013-14	G.G.Waghmare	Parameters optimization of selected casting processes using teaching-learning-based optimization algorithm	Journal : Elsevier, Applied Mathematical Modelling (2014)
	G.G.Waghmare	Complex constrained design optimisation using an elitist	Journal :International Journal of Metaheuristics, 3 (1), 81-102., 2014



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		teaching-learning-based optimisation algorithm	
	G.G.Waghmare	A comparative study of a teaching-learning-based optimization algorithm on multi-objective unconstrained and constrained functions	Journal of King Saud University – Computer and Information Sciences (2014)
	M.N.Shelar	Engine Based Trigeneration with Thermal Storage	Journal :Journal of Current Engg & Tech, E- ISSN: 2277-4106,P-ISSN 2347-5161(online) , Volume 2, Issue 1,Feb 2015 (413-416)
	P.B.Kushare	Nonlinear transient stability study of two lobe symmetric hole entry worn hybrid journal bearing operating with non-Newtonian lubricant	Journal :Journal Tribology International 69 (2014) 84-101, online 5 sept 2013
	P.B.Kushare	A study of 2-lobe non recessed worn journal bearing operating with non-Newtonian lubricant	Journal :Journal Engg Tribology , 227(12) 1418-1437 11 june 2013
	S.D.Barahate	Study of Heat Losses from Cylindrical Cavity Receiver of Solar Concentrator	Journal : Applied Mechanics and Materials Vols. 541-542 (2014) pp 996-1001 doi:10.4028/www.scientific.net/
	V.K.Patil	Centrifugal Pumps (Agriculture) ubbalance and Dynamic analysis from 1the experimental data in a rotor system	Journal : IJCET E-ISSN 2277-4106 , P-ISSN 2347-5161
2012-13	G.G.Waghmare	Comments on “A note on teaching-learning-based optimization algorithm”	Journal :SciVerse ScienceDirect Information Sciences (2013) ,Vol -229 ,Page 159-169
	P.K.Kavale	Analysis Of Bending Stress In Spur Gear With And Without Crack By Experimentally And Finite Element Analysis	Journal :IJIMAE ,ISSN :2249-2268,Issue -IV 49-58
2011-12	A.V. Karanjkar	Noise analysis Of MMMG tool using experimental & computaional Technique	Journal: International Journal og global Technology & Initiatives : March 12
	A.V. Karanjkar	Design Modification of Sector Gear Using Optimization Technique	Journal: International Journal og global Technology & Initiatives : March 12
	N.S. Ahirrao	Cam Dynamics & Vibration Control by detecting Jump	Journal : IJREAS , Volume2,Issue Feb 2012 ISSN:2249-3905 Page No 1413 - 1422
	V.S. Patil	Effect of Additives on C.I . Engine performance & emmision : An experimental Investigation	Journal : Recent advances & challenges in energy -2012, Manipal Insti. Of Tech, Jan 4-6 ,2012, Inter national Journal of Earth Scienc & Engineering ISSN 0974-5904 Page 90- 93
	V.S. Patil	Investigation into the C.I. engine performance & emissions with kerosene adulteration`	Journal : Recent advances & challenges in energy -2012, Manipal Insti. Of Tech, Jan 4-6 ,2012, International Journal of Earth Scienc & Engineering ISSN 0974-5904 Page 86-88
	V.V.Khond	Techonogical Aspect of Nano Eletro Mechanical System	Journal : IJREAS , Volume2,Issue Feb 2012 ISSN:2249-3905 Page No 1793-1806



Paper in Conference

A.Y	Name of the Faculty	Title of Paper	Name of Conference
2021-22	Dr.P.B.Kushare	Performance of 2- Lobe Non-Recessed Worn out Hybrid Bearing Operating with Non-Newtonian Lubricant	Progressive research in Industrial & mechanical Engineering (PRIME-2021) - Dept. of Mech. Engg. ,NIT Patna
2020-21	V.V.Khond	Vibration Control of structures using Samrt Composites	62 nd NationalConvention on " role of Industrial Engineering: tools & techniques to Mitigate Global Effect of COVID19 pandemic" 29-20 Jan 2021(IIE,Mumbai Chapter)
	A.S.Patil	Effect of laser textured dimples on tribological behavior of piston ring and cylinder liner contact at varying load	11 th Conference on Material Processing & Characterization - 2020 , Indian Institute of techonology Indore (IIT Indore) 15-17 Dec 2020 Elsevier,Materials Today : Proceedings is a companion journal to Materials Today , Volume 44, Part 1, 2021 , Pages 1005-1020,ISSN: 2214-7853 / www.sciencedirect.com/science/article/pii/S2214785320387800?via%3Dihub
	P.B.Ranade	Implementation of DMAIC methodology in green sand-casting process	“ 2020 2 nd International Conference on Recent Advance in Materials & Manufacturing (ICRAMM 2020) 20-21 Nov 2020 ,Erode,Tamilnadu,India, www.icramm.com , Velalar College of Engg & tech. Erode,Tamil Nadu,India Materials Today: Proceedings /Elsevier/27 November 2020 / ISSN 2214-7853 , https://doi.org/10.1016/j.matpr.2020.10.475
2019-20	Dr.P.B.Kushare	Thermal analysis of two lobe non-recessed hybrid journal	10th International Conference on Industrial Tribology ,India 1-4 Dec



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		bearings	2019, Indian Institute of Science, Bangalore
	R. V. Bhandare/P.B. Kushare	Experimental investigation of multi-lobe hydrodynamic journal bearing	10th International Conference on Industrial Tribology, India 1-4 Dec 2019, Indian Institute of Science, Bangalore
	M.R.Pardeshi	Study and analysis of wear plate material for sliding mechanism of drill rig	10th International Conference on Industrial Tribology, India 1-4 Dec 2019, Indian Institute of Science, Bangalore
	V.K.Patil	Effect Of Die Surface Roughness On The Properties Of Metal Composite Material	10th International Conference on Industrial Tribology, India 1-4 Dec 2019, Indian Institute of Science, Bangalore
	A.S.Patil	Effect of laser surface textured dimples on the frictional behaviour of piston ring and cylinder liner interface in a reciprocating bench test	10th International Conference on Industrial Tribology, India 1-4 Dec 2019, Indian Institute of Science, Bangalore
	Dr. V.S.Patil , Dr. M.N.Shelar	Experimental Investigation on Optimization of Injection Temperature of Karanj Oil (Pongamia Pinnata) as a Substitute for Diesel in C. I. Engines	7th International Conference on Advances in Energy Research (ICAER 2019 IIT Bombay) 10
	S.V.Kadbhane	Convective Heat Transfer Enhancement of Fe ₃ O ₄ -Water Nanofluid Flowing through Pipe Under the effect of External Magnetic Field and Twisted Tape Insert	4th International Conference on Emerging technologies: Micro to Nano (ETMN 2019) SPPU, Pune 2019
2018-19	V.K.Patil	Failure Analysis of Agriculture Turbochargers High Speed Shaft and Bearing	An International Conference on Tribology, TRIBOINDIA-2018, 13th -15th December 2018, VJTI, Mumbai, India
	Dr.P.B.Kushare 1	Study Of Surface Roughness Effect On The Performance Of Multilobe Hybrid Journal Bearing	An International Conference on Tribology, TRIBOINDIA-2018, 13th -15th December 2018, VJTI, Mumbai, India
	A.S.Patil	A review of experimental tribological investigations of piston ring with laser surface textured dimples	An International Conference on Tribology, TRIBOINDIA-2018, 13th -15th December 2018, VJTI, Mumbai, India
2017-18	N.S.Ahirrao	Dynamics & vibration measurements in engines	International Conference on Materials, Manufacturing and Design Engineering (iCMMD2017) 11 Dec 2017
	Dr.P.B.Kushare	Performance of non-Newtonian lubricated worm 2-lobe slot entry restrictor bearing system	9th International Conference on industrial Tribology, Kolkatta



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	S.V.Kadbhane	Experimental Investigation of natural convective Heat Transfer From vertical rectangular fin array at different angle of inclination	International Conference on Advancement in Engineering, Applied Science and Management -ICAEASM-2018
	Dr.P.B.Kushare	Experimental Investigation of a novel configuration of a two lobe journal bearing	Regional research Conference Innovation 2017 ,28 Nov 2017
2016-17	R.V.Bhandare	To Investigate Effect of Misalignment on the Performance of Hydrodynamic Journal Bearing	National Tribology Conference 2016 IIT (BHU) 8-20 Dec 2016
	N.V.Patil	Tribological Analysis of submersible pump thrust bearing	Mech PGCON -June 2016
2015-16	S.D.Barahate	Influence of length to diameter ratio of hole on performance of film cooling for single and double row of injection	IC:23rd National and 1st International ISHMT-ASTFE Heat and Mass Transfer Conference (IHMTTC 2015) held at LPSC, ISRO, Thiruvananthapuram (Trivendrum), Kerala during 17 - 19th December, 2015.
	V.S.Patil	Heat Transfer with Single & Two rows of Axisymmetric jets impinging on a concave surface	IHMTTC-2015 , (17-20 Dec 2015) Thiruvananthapuram, India
2014-15	N.R.Kadam	Comparison of Tribological Behavior of PVD Coated TiAlN and WCC on AISI 4140 Nitride Alloy Steel	IC : Paper :International Conference on Recent Advances in Mechanical Engg. (ICRAME - 2015) ,G.H.Raisoni College of Engg. and Mgt., Wagholi, Pune. Date: 26 th to 28th Feb. 2015.
	N.S.Ahirrao	Measurement of Vibration Level by FFT Analyzer detecting Improper Structural Supports	IC : Paper : International Conference on Recent Advances in Mechanical Engg. (ICRAME - 2015) ,G.H.Raisoni College of Engg. and Mgt., Wagholi, Pune. Date: 26 th to 28th Feb. 2015.
2013-14	G.G.Waghmare	Optimum Design of PID Controller Using Teaching-Learning-Based Optimization Algorithm,	IC:Paper : Proceedings of the International Conference on AEOTIT, SVNIT Surat, pp. 343-347.
	G.G.Waghmare	Solving Composite Test Functions Using Teaching-Learning-Based Optimization Algorithm	IC:Paper : Proceedings of International Conference on Frontiers of Intelligent Computing AISC 199, pp. 395–403. doi:10.1007/978-3-642-35314-7-45. Springer-Verlag Berlin Heidelberg 2013
	G.G.Waghmare	Thermoeconomic Optimization of a Shell and Tube Condenser Using Teaching Learning-Based Optimization Algorithm	IC:Paper: Proceedings of 3rd International Conference on Recent Trends in Engineering & Technology (ICRTET'2014),



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			Elsevir
	N.R.Kadam	Analytical and Experimental Analysis of Tribological Behaviour of AlTiN and CrN Coatings	IC:Paper : Proceedings of National Conference on Emerging Trends and Applications in Engineering and Sciences (ETAEAS)[JCON2013]with ISBN No (978-1-62590-409-6) March 1st/2nd 2013 JCEI's JCOE, Kuran, Pune, India
2013-14	N.R.Kadam	Investigations and Analysis of Tribological Behavior of TiCN, TiN and Hard Chrome Coatings	IC:Paper :International Journal of Innovative Research and Studies Vol 2 Issue 4 April, 2013 Pg -438-441