



Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING

Accredited by NAAC with "A"Grade

(Approved by AICTE & Affiliated to Solapur University, Solapur.)

At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Research Publications in International Conference by Faculty

AY 2018-19

Sr. No.	Name of faculty member	Title of Research Paper	International /National/Other	Type of Journal	Journal details	Impact factor
1	P. P. kulkarni	Tie Rod Design : A Review	International	IJCET	Vol.7, No.6 (Nov/Dec 2017)	7.151
2	R. T. Vyavahare	Effect of elliptical holes on vibration characteristics of circular disc	International	(IJERT	Vol.7. ISSN 5 No. 2278-0181. 2018	5.558
3	S. G. Kulkarni	Effect of Bagasse ash reinforcement on Al356 matrix composite manufactured by two stage stair casting	International	(IJCET)	Vol.8. ISSN 5 No. 2277-4106. 2018	7.151
4	S. G. Kulkarni	Characterization and processing of heat treated Aluminum matrix composite	International	ICP	Aip Conference proceeding -2018	-
5	A. S. Aradhye	Performance improvement by implementing Kanban in service sector	International	IJERT	-	5.558
6	S. A. Sonawane	Multi-Response Optimization of Wire Electrical Discharge Machining for Titanium Grade-5 by Weighted Principal Component Analysis	International	IJETI	8 (2) ISSN-2223- 5329 pp133- 145,2018	0.67

7	S. A. Sonawane	Optimization of machining parameters of WEDM for Nimonic-75 alloy using principal component analysis integrated with Taguchi method	International	JKSUES	Vol.30 (3), pp250-258,July-2018	2.296
8	S. A. Sonawane	Influence of Helicoidal Crack on Dynamic Behavior of Rotating Shaft	International	IJMPER	-	7.6197
9	S. A. Sonawane	Multi-Response Optimization of Wire Electrical Discharge Machining for Titanium Grade-5 by Weighted Principal Component Analysis	International	IJETI	vol. 8 (2)pp 133-14,2018	1.013
10	S. S. Kulkarni	A theoretical model for predicting the vibration response of outer race defective ball bearing	International	IJETE	Vol.7,2018.	1.013
11	S. A. Sonawane	Multi-quality Response Optimization of Wire EDM for Ni-75 using PCA based Utility theory	International	MTP	Vol.5 (2P1), pp4584–4591,2018.	-
12	S. A. Sonawane	Application of utility concept approach for multi-response optimisation of wire electrical discharge machining during profile cutting of Inconel-625	International	IJMMM	Vol.20 (1),pp 13-47,ISSN-1748-5711,2018	-
13	S. A. Sonawane	Multi-Feature Optimization of WEDM for Ti-6Al-4V by Applying a Hybrid Approach of Utility Theory Integrated With the Principal Component Analysis	International	IJMFMP	(IJMFMP Jan-2018	-
14	S. S. Kulkarni	Interoperability of international standards,condition monitoring methods and research models for bearing fault an integrated approach	International	SDPMICP	Vol.22pp982-989,2018	-
15	R. T. Vyavahare	Vibrational Response and Mechanical Properties	International	ACP	Aip Conference proceeding -2018	-



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Department of Mechanical Engineering
Research Publications in International Journal by Faculty

AY: 2016-17

Sr. No.	Name of Author	Title of Publication	Name of Journal	Volume, Issue, Page No., ISSN No., I.F.	URL (Uniform Resource Locator)
1	Prof. I. N. Pirjade Prof. S. G. kulkarni	Lateral Compressive Behaviour of Aluminium matrix Composite by improved Powder metallurgy process	IJRSET	Vol.5, Issue 8, Page No 14581-14590, ISSN-2277-7798, I.F-3.59	https://www.ijrset.com/upload/2016/august/38_Econ.
2	Mr. R. V. Adat Prof. S. G. kulkarni	Satirical Analysis of Free vibration response of Aluminium matrix Composite plate manufactured by stir Casting method by using Taguchi method	IJSETR	Vol.5, Issue 9, Page No 2835-2839, ISSN-2278-7799, I.F -3.59	ijsetr.org/wpc-content/uploads/2016/09/IJSETR
3	Prof. I. N. Pirjade Dr. S. G. kulkarni Prof S. S. kulkarni	“Effect of industry waste reinforcement on mechanical behaviour of aluminium matrix composites by powder metallurgy technique”	IJSEM	-	-
4	Mr. U. B. Andh Prof. S. M. Chavan	Stress analysis of perforated plate under uniaxial compression using FEA and Photo elasticity.	IRJET	Vol.3, Issue 11, Page No 431-437, ISSN-2347-7798, I.F-5.181	https://www.irjet.net/archives/V3/i11/IRJET-V3I1139
5	Prof. S. A. Sonawane Dr. M. L. Kulkarni	Strength Evolution of Double Lap Adhesive joint.	IJSART	Vol.3, Issue 5, Page No 14581-14590, ISSN-2395-1052, I.F.-4.284	-

6	Prof. M. D. Tamboli Dr. G.V. Parishwad	Localized Cooling – Design of Single Bed Air Conditioning System	JETIR	Vol.3, Issue 11, Page No 53-58, ISSN-2349-5162, I.F-3059	www.jetir.org /view?paper =JETIR1611 008
7	Prof. B. S. Adhmile Prof. S. G. kulkarni	Mechanical Characterization of stir cast Al 356-Fly Ash Composite	IJSMER	Vol.1, Issue 1, Page No 74-77.	http://www.ij smer.org/asse ts/pdf/Vol1Is s1/14.pdf
8	Prof. S.C. Mali Dr. R. T. Vyavahare	Anthropometric Measurements of Foundry Industry Workers and Ergonomic Evaluation	IJSMER	Vol.1, Issue 1, Page No 41-45.	http://www.ij smer.org/asse ts/pdf/Vol1Is s1/08.pdf
9	Mr. V. U. Shakhare Prof. A. S. Aradhye	Effect of Particle Impact Damper on a Beam for Transient Vibration	IJSMER	Vol.1, Issue 1 Page No 9-12.	http://www.ij smer.org/asse ts/pdf/Vol1Is s1/03.pdf
10	Dr. R. T. Vyavahare Dr. S. P. Kallurkar	Ergonomic Evaluation of Male Worker during Maize Threshing by Thresher	IJSMER	Vol.1, Issue 1, Page No 13-16.	http://www.ij smer.org/asse ts/pdf/Vol1Is s1/04.pdf
11	Mr. Samir Shaikh Prof. S. S. Kulkarni	Theoretical Modelling for Vibration Response of Defective Ball Bearing	IJSMER	Vol.1, Issue 1, Page No 51-57.	http://www.ij smer.org/asse ts/pdf/Vol1Is s1/10.pdf
12	Mr. N. D.Hegade Prof. S.D.Katekar	A Review on Investigation of Crack and Its Effects on Performance of Rotating Shaft	IJSMER	Vol.1, Issue 1, Page No 58-63.	http://www.ij smer.org/asse ts/pdf/Vol1Is s1/11.pdf
13	Prof. S. R. Koli Dr. Y. V. Hanumanth Rao	Acetylene as Alternative Fuel for Internal Combustion Engines- A Review	IJSMER	Vol.1, Issue 1, Page No 70-73.	http://www.i jsmer.org/ass ets/pdf/Vol1I ss1/13.pdf
14	Prof. C. C. Pawar Prof. P. P. Kulkarni	Effect on strength of involute spur gear tooth by considering Uncertainties in Fillet Radius by using Finite Element Methods	IJSMER	Vol.5, Issue 1, Page No 44-49.	http://www.ij smer.org/asse ts/pdf/Vol1Is s1/16.pdf

15	Prof. S A Sonawane Dr. M. L. Kulkarni	Application of Utility Concept Approach for multi-response optimization of Wire Electrical Discharge Machining during profile cutting.	IJMMM	Vol.1, Page No 1-35, ISSN-1748-572X.	<i>scholar.google.co.in/citations?User=rrG6JcIAAAAJ&hl</i>
16	Prof. S. S. Kulkarni Dr. A. K. Bewoor	The Theoretical Model and experimental validation for distributed defects on inner of ball bearing under radial load	NVW	Vol.47, Issue 5, Page No 67-69,ISSN-20484062.	<i>journals.sagepub.com/doi/pdf/10.1177/0957456516672555</i>
17	Prof. S. S. Kulkarni Dr. A. K. Bewoor	Vibration signature analysis of distributed defects in ball bearing using wavelet decomposition technique	NVW	Vol.48,Issue 1-2, Page No 7-18.	<i>journals.sagepub.com/doi/abs/10.1177/0957456517698318</i>
18	Prof. S. S. Kulkarni Dr. A. K. Bewoor	Interoperability of International standards, condition monitoring methods and research models for bearing fault: An integrated approach	EPM	-	-
19	Prof. S. G. Kulkarni Dr. Achchhe Lsl	Numerical investigation of clustering effect on the uniaxial stress strain behaviour of A356 matrix composite	MTP	Vol.4, Issue 2, Page No 3072-3081,ISSN-2214-7857.	<i>www.science-direct.com/science/article/pii/S2214785317303966</i>
20	Prof. S. G.Kulkarni Dr. J.V. Menghani	Corrosion behaviour of fly ash, alumina and hybrid particles reinforced A356 composites	JCSE	Vol.19, Page No 1-26, ISSN-1466-8858.	<i>https://www.researchgate.net/.../306147356_Corrosion_behaviour_of_fly_ash_alumina_...</i>
21	Prof. B. S. Gandhare Dr. M.M. Akarte	Maintenance performance of Sugar Industry	IJQM		-

22	Prof. S. B. Maharnavar Dr. S.G. Kulkarni	Wear Study of Aluminium Metal Matrix Composite made by Powder Metallurgy	IJRTER	Vol.3, Issue 3, Page No 505-512, ISSN-2455-1457, I.F-4.101	www.ijrter.com/.../wear-study-of-aluminium-metal-matrix-composite-made-by-powd...
23	Mr. U. B. Andh Prof. S M. Chavan	Stress analysis of perforated plate under uniaxial compression using Experimentation and Finite Element Analysis.	IJCET	Vol.3, Issue 11, Page No 14581- 14590, ISSN- 2395-0056, I.F- 5.181	inpressco.com/wp-content/uploads/2017/04/Paper16431-437



Department of Mechanical Engineering
Research Publications in International Journal by Faculty

AY: 2015-16

Sr. No .	Name of Author	Title of Publication	Name of Journal	Volume, Issue, Page No., ISSN No., I.F.	URL (Uniform Resource Locator)
1	Mr. R. V. Adat Prof. S. G. Kulkarni	Manufacturing of Particulate Reinforcement Aluminium Metal Matrix Composite using Stir Casting Process	IJCET	Vol.5, Issue 4, ISSN-2277-4106 I.F-6.125	inpressco.com/wpcontent/uploads/2015/08/Paper912808-2812
2	Prof.S. C. Mali Dr. R. T. Vyavahare	RULA Analysis of Work-Related Disorders of Foundry Industry Worker Using Digital Human Modelling (DHM)	IRJET	Vol.2, Issue 5, Page No 265-270, ISSN-2395-0056, I.F-5.181	https://www.irjet.net/archives/V2/i5/IRJET-V2I5221
3	Prof. A.D. Jadhav Prof. M.M. Wagh	Experimental Analysis and performance evaluation of 1 KW, Li/Br Vapour absorption Solar Air Conditioning System	IRJER	Vol.2, Issue 5, Page No 587-589, ISSN-2248-9622, I.F-5.181	https://www.irjet.net/archives/V2/i5/IRJET-V2I5101
4	Mr. S. P. Bhide Prof.S.D. Katekar	“Dynamic Analysis of Rotating Stepped shaft subjects with Transverse crack	IJERA	Vol.5, Issue 8, Page No 78-82, ISSN-2395-0056, I.F-5.181	www.ijera.com/papers/Vol5_issue8/Part%20-%20202/N58027882
5	Mr. S. P. Bhide Prof.S.D. Katekar	Effect of Crack depth of Rotating Stepped Shaft on Dynamic behavior	IRJET	Vol.2, Issue 6, Page No 110-114, ISSN-2395-0056, I.F-5.181	https://www.irjet.net/archives/V2/i6/IRJET-V2I619
6	Mr. S. N. Khurd Prof. S.D. Katekar	Probabilistic design of helical coil spring for Translational invariance by using FEA	IRJER	Vol.2, Issue 6, Page No 58-64, ISSN-2395-0056, I.F-5.181	https://www.irjet.net/archives/V2/i6/IRJET-V2I611

7	Prof. U. S. Gholap Prof. V. B. Shinde	Design and Enhancement Of Rear Under-Run Protection Device For 15 Tone Capacity HCV Vol.2 ISSN2393-8471.	IJRRC ME	Vol.2, Issue 1, Page No 200-212, ISSN-2393-8471.	-
8	Dr. R. T. Vyavahare Dr. S. P. Kallurkar	Anthropometry of male agricultural workers of western India for the design of tools and equipment's	IJIE	Issue 53, Page No 80-85, ISSN-0169-8141, I.F- 1.415	www.science-direct.com/science/article/pii/S0169814115300457
9	Mr. V. G. Aradhya Prof. S.S. Kulkarni	Use of Strain Gauge Rosette to Investigate Stress concentration in Isotropic and Orthotropic Plate with Circular Hole.	IRJET	Vol.2, Issue 7, Page No 958-962, ISSN-2395-0056, I.F- 5.181	https://www.irjet.net/archives/V2/i7/IRJET-V2I7151
10	Prof. M. B. Kulkarni Dr.D.P. Ghanegaonkar	Pre-treatment Methods in Anaerobic Digestion for Biogas Generation: A Review	IJNIET	Vol.4, Issue 1, Page No 14-17, ISSN-2319-6319, I.F - 4.012	ijniet.org/wp-content/uploads/2015/12/3
11	Prof. M. B. Kulkarni Dr.D.P. Ghanegaonkar	Biogas Technology: Research Achievements and Scope for Using Flower Waste as Input Material	IEJ	Page No 99-102, ISSN-2395-1621.	www.ierjournal.org/.../20.Biogas%20Technology%20Research%20Achievements%20and
12	Prof. C. C. Pawar Prof. P.P. Kulkarni	Effect on strength of Involute spur gear tooth by considering uncertainties in geometry and material properties by using FEM	IJSRD	Vol.4, Issue 4, Page No 1544-1550, ISSN-2321-0613, I.F- 4.396	www.ijrsd.com/Article.php?manuscript=IJSRDV4I41008



Department of Mechanical Engineering
Research Publications in International Journal by Faculty

AY: 2014-15

Sr. No.	Name of Author	Title of Publication	Name of Journal	Volume, Issue, Page No., ISSN No., I.F.	URL (Uniform Resource Locator)
1	Prof. R. V. Dhokate Prof. S.D. Katekar	“Dynamic Analysis of Rotating shaft subjects to slant crack with experimentation and ANSYS validation”	IJERA	Vol.4, Issue 9, Page No 65-69, ISSN-2248-9622, I.F- 5.179	www.ijera.com/papers/Vol4_issue9/Version%205/K49056569
2	Prof. H.S. Kulkarni Dr. S.S. Kore	Experimental Investigation of Heat Transfer Enhancement by Longitudinal Rectangular Vortex Generator	IJIRAE	Vol.1, Issue 8, Page No 74-81, ISSN-2349-2163.	ijirae.com/volumes/vol1/issue8/SPME10081
3	Prof. A. S. Kulkarni Prof. P.A. Dhavale	“Application of Response Surface Methodology for Tensile Strength of Multi-Spot Welded Cross Tension Specimen”	IJERT	Vol.3, Issue 11, Page No 728-733, ISSN-2278-0181 I.F- 2.85	https://www.ijert.org/.../application-of-response-surface-methodology-for-tensile-stren...
4	Prof. N. L. Phule Dr. P.R. Dongarwar	Parametric study of thermosyphon heat pipe: Review	IERJ	Issue Page No 179-187, ISSN-2395-1621	www.ierjournal.org/.../37.Parametric%20study%20of%20thermosyphon%20heat%20
5	Prof. B. S. Admille Dr. S.G. Kulkarni	Application of Taguchi Method for Optimization of Process Parameters for Wear loss of LM25/Flash Composite	IJIET	Vol.4, Issue 4, Page No 24-29, ISSN-2319-1058 I.F- 0.787	ijiet.com/wpcontent/uploads/2014/12/51

6	Prof. M. M. Katkar Prof. B.S. Gandhare	“Effect of manufacturing tolerance on pressure vessel”,	IJERT	Vol.3, Issue 12, Page No 759-765,ISSN-2278-0181, I.F - 2.85	https://www.ijert.org/download/.../effect-of-manufacturing-tolerance-on-pressure-vess
7	Mr. R. D. Shaha Prof. S.S. Kulkarni	Vibration Analysis Deep Groove Ball Bearing using Finite Element Analysis	IJERA	Vol.5, Issue 5, Page No 44-50, ISSN-2248-9622, I.F - 5.179	www.ijera.com/papers/Vol5_issue5/Part%20%202/F505024450
8	Prof. S.C. Mali Dr. R.T.Vyavahare,	An Ergonomic Evaluation of an Industrial Workstation: A Review	IJCET	Vol.5, Issue 3, Page No 1820-1826, ISSN-2277-4106, I.F-6.125	inpressco.com/an-ergonomic-evaluation-of-an-industrial-workstation-a-review
9	Dr. R. T.Vyavahare Dr. S. P. Kallurkar	Ergonomic evaluation of maize sheller cum dehusker.	IJCET	Vol.5, Issue 3, Page No 1881-1886,ISSN-2277-4106, I.F- 6.125	inpressco.com/wp-content/uploads/2015/06/Paper711881-1886



Department of Mechanical Engineering

Research Publications in International Journal by Faculty AY: 2013-14

Sr. No.	Name of Author	Title of Publication	Name of Journal	Volume, Issue, Page No., ISSN No., I.F.	URL (Uniform Resource Locator)
1	Prof. D. R. Giram Dr. A. M. Patil	Experimental and Theoretical Analysis of Heat Transfer Augmentation for Dimpled Surface	IJERA	Vol.3, Issue 5, Page No 19-23, ISSN-2248-9622, I.F -5.179	www.ijera.com/papers/Vol3_issue5/E351923
2	Prof. S.S. Kulkarni Dr. S.B. Wadkar	Investigation of Distributed defects in ball bearing using vibration signature analysis- A Review	IJSR	Vol.2, Issue 11, Page No 194-197, ISSN-2277-8179, I.F-0.13	www.sciencedirect.com/science/article/pii/S1877705816303034
3	Prof. Y. D. Shinde Prof. S.D. Katekar	Vibration Analysis of Cantilever beam with Single Crack using Experimental Method	IJERT	Vol.3, Issue 5, Page No 1644-1696, ISSN-2278-0181, I.F-2.85	www.ijert.org/.../vibration-analysis-of-cantilever-beam-with-single-crack-using-experi
4	Prof. B. S. Admille Dr. S.G. Kulkarni	Review on Mechanical & Wear Behaviour of Aluminium-Fly Ash Metal Matrix Composite	IJETAE	Vol.4, Issue 5, Page No 863-866, ISSN-2250-2459, I.F- 4.027	citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.643.5822&rep=rep1
5	Prof. R. V Dhokate Prof. S.D. Katekar	Experimental Dynamic analysis of Rotating Shaft Subjects to slant crack”	IJERT	Vol.3, Issue 5, Page No 1588-1592, ISSN-2278-0181, I.F – 2.85	https://www.ijert.org/.../experimental-dynamic-analysis-of-rotating-shaft-subjects-to-sl...
6	Mr. H. M. Waikar Prof. S.D. Katekar	Vibration analysis of Rotating Shaft Subjects to transverse crack”	IJERT	Vol.3, Issue 5, Page No 1574-1578, ISSN-2278-0181 I.F-2.85	www.ijera.com/papers/Vol4_issue9/Version%205/K49056569