

## RESEARCH PAPER PUBLICATIONS OF FACULTY

Dept. of Mechanical Engineering (2019-20)

S.No.	Name	Designation	Name of the paper	Name of the journal/conference
1.	Dr.A.V.Kolhe	Associate Prof.	Waste heat recovery from exhaust gas of an engine by using a phase change material	<a href="http://doi.org/10.1016/j.matpr.2020.03.247">http://doi.org/10.1016/j.matpr.2020.03.247</a> index in Scopus
2.	S.A.Borikar	Asst. Professor	The performance analysis of domestic refrigerator using modified condenser	International Journal of Mech. and Prod. Engg. Research and Developmetn – transstellar, ISSN (P) 2249-6890 ISSN (e) 2249-8001, Index in scopus
3.	Dr.D.C.Katpatal	Asst. Professor	Performance of nano biolubricants, ISO VG 4 oil and its blend with Jatropha oil in statically loaded hydrodynamic plain	<a href="http://doi.org/10.1177/1350650119864242">http://doi.org/10.1177/1350650119864242</a>
4.	Dr.D.C.Katpatal	Asst. Professor	Performance of nano biolubricants, ISO VG 4 oil and its blend with Jatropha oil in statically loaded hydrodynamic plain	<a href="http://doi.org/10.1177/1350650119864242">http://doi.org/10.1177/1350650119864242</a> Institution of Mechanical Engg.
5.	M.K.Jaiswal	Asst. Professor	Small scale hybrid Solar and Wind Pumping system, presented in the 2 <sup>nd</sup> International Conference on Wind Energy for Sustainable Development (ICGESD-2020)	ICGESD-2020, Govt. Polytechnic Nagpur 28-29 Feb. 2020

## RESEARCH PAPER PUBLICATIONS OF FACULTY

Dept. of Electronics & Communication Engineering (2019-20)

S.No.	Name	Designation	Name of the paper	Name of the journal/conference
1.	Dr. P.S.Ashtankar	Associate Professor	Compact microstrip Antenna for 5G mobile phone applications	International Journal of Applied Engg. Research Vol.14, No.2, 2019 (Special issue) ISSN: 0973-4562
2.	Varsha S. Pande	Asst. Professor	Application of virtual instrumentation for academic and industry using Labview	International Journal for Research in Engg Application and Management ISSN: 2454-9150 April 2019
3.	C.K.Thadani	Associate Professor	Blockchain technology in agriculture and food supply chain	International Journal of Research and Analytical Reviews E-ISSN-2348-1269, p-2349-5138, Vol.6, Issue-2, June 2019
4.	C.K.Thadani	Associate Professor	Review on UWB antenna design with band stop function by implementing parasitic patch method	ICTACT Journal of Microelectronics, ISSN:2395-1680, Vol. 5, Issue:4, Jan.2020

## RESEARCH PAPER PUBLICATIONS OF FACULTY

Dept. of Information Technology (2019-20)

S.No.	Name	Designation	Name of the paper	Name of the journal/conference
1.	Saroj Shambharkar D.Anantha Reddy Mohd Jabeed Rihaz	Asst. Professor	Saarthi an innovative platform for Farmers to Get Yield in India	International Journal of Computer Sciences and Engg. Vol.7, Issue-04, ISSN: 2321-9637, April 2019
2.	A.Rajesh	Asst. Professor	An Authenticated Face Recognition Application for e-payment using Python	International Journal of Computer Sciences and Engg. Vol.7, Issue-03, ISSN: 2347-2693, March 2019
3.	D.Anantha Reddy Mohd. Jabeed Rihaz	Asst. Professor	Design and Implementation of Cloud Database Management System	National Conference on Technology for Tribal and Rural Development 29-30 Jan. 2020
4.	D.Anantha Reddy	Asst. Professor	Generation of Cryptographic Key using Extraction of Finger print Minutiae	National Conference on Technology for Tribal and Rural Development 29-30 Jan. 2020

## RESEARCH PAPER PUBLICATIONS OF FACULTY

### Dept. of Electrical Engineering (2019-20)

S.No.	Name	Designation	Name of the paper	Name of the journal/conference
1.	Dr. Snehal Pachpor	Associate Professor	Design and Analysis of Triplen Controlled Resonant Converter for Renewable sources to interface DC micro Grid	IEEE journal Vol.7, 2019

## RESEARCH PAPER PUBLICATIONS OF FACULTY

### Dept. of Engg. Sciences & Humanities (2019-20)

S.No.	Name	Designation	Name of the paper	Name of the journal/conference
1.	Dr.K.Gajanan	Associate Prof.	Air Quality impacts on Anatomical and Biochemical Parameters	DSR Journal of Env.Science, Toxicology and Food Tech. ISSN 2319-2399, Vol.14, Issue2
2.	E.Siva Prasad	Asst. Professor	Solution of Convection –Diffussion Problems with Singularity using variable Mesh Sp,ine of Third order	Journal of Mathematical Comp. Science 10 (2020) No.5, 1399-1408, ISSN 1927-5307
3.	Dr. U.B.Hatwar	Asst. Professor	Synthesis and Magnetic Properties of Co-Zr Substituted Strontium Nano Hexaferrite	JETIR May 2019 Vol.6 Issue:5
4.	Y.G.Bakale	Asst.Professor	TSDC of Thermoelctret of PVC-PMMA Blend Films	JERIR May 2019, Vol.6 Issue 6
5.	S.T.Thakare and Yogesh Panke	Asst.Professor	Application of Fractional Order Theory of Thermo-elasticity in an Elliptical Disk and Associated Thermal Stresses	International Journal of Applied Mechanics & Engg., 2020, Vol.25, No.3, PP 169-180
6.	Jyothi Badwaik	Asst. Professor	Recent Advances in Graph Theory and its applications	National Conference on NCRTMPCLS-2020 (Dated 7 <sup>th</sup> Feb.2020)

RESEARCH PAPER PUBLICATIONS OF FACULTY  
Dept. of Architecture (2019-20)

S.No.	Name	Designation	Name of the paper	Name of the journal/conference
1.	Kalpana N. Kawathekar	Associate Prof.	Review of Missions related to Infrastructure Planning	68 <sup>th</sup> NTCP Congress, ITPI, Mumbai, 11-13 Jan.2020 pp 195-203

RESEARCH PAPER PUBLICATIONS OF FACULTY  
Dept. of Civil Engg. (2020-21)

S.No.	Name	Designation	Name of the paper	Name of the journal/conference
1.	Dr. S.L.Atmapoojya	Professor	Probabilistic seismic hazards analysis of Ambikapur-Chhattisgarh (India)	International Journal of Emerging Trends in Engineering Research (Vol.9, No.2) Feb.2021

## RESEARCH PAPER PUBLICATIONS OF FACULTY

### Dept. of Mechanical Engineering (2020-21)

S.No.	Name	Designation	Name of the paper	Name of the journal/conference
1.	Dr.A.V.Kolhe	Associate Professor	Artificial Intelligence for Prediction of Performance and Emission Parameters of CI Engine using Bi-duel	National Conference on Physics and Chemistry Material AGP Conference Proc. 2369.620128, Dept. of Physics, Govt. Holkar Science College, Indore dated 14-16 Dec. 2020
2.	Dr.S.P.Chincholkar	Associate Professor	Optimization of Injection ads spark timing in direct injection stratified charge (DISC) Engine fueled with Gasoline – Ethanol blend	ISSN 0974-5823, Vol. 6, 3 Dec. 2021
3.	Dr.S.P.Chincholkar	Associate Professor	Design Analysis of Automobile Muffler with Cavity	ISSN (P) 2249-6890, Vol.10 issue 3 June 2020
4.	N.N.Suraskar	Asst. Professor	Innovative Composite Carbon Fiber Materials Application in the Automotive Production Lines	ISSN -2455-6211 IJARESM Impact Factor: 4.597, Vol.8, Issue 9, Sept.2020
5.	N.N.Suraskar	Asst. Professor	Electropinning of ceramic nano- fibres Manufacturing Fabrication Assembly and Applications	AEGAEUM Journal, ISSN: 0774-3808, Vol.6 Issue 8, Aug. 2020
6.	N.N.Surarskar	Asst. Professor	Off Road Vehicles in India	JCT Journal in Vol. XIII, Issue VIII, ISSN No. 0731-6755/ Impact factor – 5.7, Aug.2020

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Dept. of Electronics & Communication Engineering (2020-21)

S.No.	Name	Designation	Name of the paper	Name of the journal/conference
1.	Dr. P.S.Ashtankar	Professor	Compact 2*2/4*4 tapered microstrip feed MIMO Antenna configuration for high speed wireless application with band stop filters	International Journal of RF and Microwave Computer Aided Design Vol.31, Issue:1, Pages e22500

## RESEARCH PAPER PUBLICATIONS OF FACULTY

Dept. of Computer Technology (2020-21)

S.No.	Name	Designation	Name of the paper	Name of the journal/conference
1.	Vaishali Malekar	Asst. Professor	A review on vulnerability assessment and penetration testing open source tools for web application security	International Journal of Adv. Research in Science, Comm. and Tech. ISSN 2581-9429, Vol.2, Issue-3, June 2020

## RESEARCH PAPER PUBLICATIONS OF FACULTY

Dept. of Information Technology (2020-21)

S.No.	Name	Designation	Name of the paper	Name of the journal/conference
1.	Saroj Shambharkar A.Rajesh	Asst. Professor	Generation of Cryptographic Key using Extraction of Finger print Minutiae	International Journal of Emerging Trends in Engg. and Basic Sciences, ISSN (online) 2349-6967, Vol. No. 7, Special issue: 3, (May-June 2020), pp. 017-022, June 2020

## RESEARCH PAPER PUBLICATIONS OF FACULTY

Dept. of Electrical Engineering (2020-21)

S.No.	Name	Designation	Name of the paper	Name of the journal/conference
1.	Dr. Snehal Pachpor	Associate Professor	Performance of DC-DC resonant convertor during Hybrid frequency duty cycle control	2 <sup>nd</sup> International Conference on Green Energy for Sustainable Development 2020 -ICGESD-20



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Dept. of Engg. Sciences & Humanities (2020-21)

S.No.	Name	Designation	Name of the paper	Name of the journal/conference
1.	Yogesh Panke	Asst. Professor	Study of Thermal Stresses in a Thin Annular Disc within the Context of Fractional Order Theory of Thermoelasticity	International Journal of Applied Sciences, 12(1): 04-10(2020) ISSN Print 0975-1718
2.	S.T.Thakare and Yogesh Panke	Asst.Professor	Analysis of Small deflection in a Thermoelastic plate	International Journal of Theoretical & Applied Sciences 12(1): 11-16 (2020)
3.	E.Siva Prasad	Asst.Professor	Solution of Singularly perturbed Boundary Value problems with singularity using variable mesh finite difference method	Journal of Dynamical Systems & Geometric Theories, Vol.19(1) June 2021, pp.113-124
4.	S.T.Thakare	Asst. Professor	Analysis of time-fractional heat transfer and its thermal deflection in a circular plate by a moving heat source	International Journal of Applied Mechanics & Engg. 2020, Vol.25 No.3, pp. 158-168
5.	S.T.Thakare	Asst. Professor	Time fractional thermoelastic problem of a thick cylinder with non homogeneous material properties	Conference series; Materials Science and Engineering
6	S.T.Thakare	Asst. Professor	Time fractional thermoelastic problem of a thick cylinder with non homogeneous material properties	IOP Conference Series: Materials Science & Engg. 1033 (2021) 012077, ICIIIIE 2020
7.	S.T.Thakare	Asst. Professor	Time fractional heat transfer analysis in non homogeneous thick hollow cylinder with internal heat generation and its thermal stresses	International Journal of Thermodynamics (IJoT) Vol.xx (No.x), pp. xxx-xxx, 20yy

## RESEARCH PAPER PUBLICATIONS OF FACULTY

### Dept. of Architecture (2020-21)

S.No.	Name	Designation	Name of the paper	Name of the journal/conference
1.	Kalpana N. Kawathekar	Associate Professor	Experiencing Optimization of transport infrastructure Use towards Social Health security in COVID-19 situations in India	International Journal of Advance Research in Science and Engg. Vol.10, Issue 03, March 2021 ISSN 2319-8354
2.	Kalpana N. Kawathekar	Associate Professor	Experiencing Optimization of transport infrastructure Use towards Social Health security in COVID-19 situations in India	1 <sup>st</sup> World Congress on Optimization and Automation Techniques in Engineering and Management 19-21 Oct. 2020
3.	Kalpana N. Kawathekar	Associate Professor	Urban Transport Sustainability Assessment for the Use of Motorized Vehicles in Road Transport India	Published in Scopus Journal Indexed IOP Conference Proceedings Vol.1913 (2021) pp.1742-6596 <a href="https://iopscience.iop.org/article/10.1088/1742-6596/1913/1/012129">https://iopscience.iop.org/article/10.1088/1742-6596/1913/1/012129</a>
4.	Kalpana N. Kawathekar	Associate Professor	Urban Transport Sustainability Assessment for the Use of Motorized Vehicles in Road Transport India	International Conference on Research Frontiers in Sciences (ICRFS-2021) online 5-6 Feb.21 published in Journal of Physics 1913(2021) 012129

## RESEARCH PAPER PUBLICATIONS OF FACULTY

Dept. of Civil Engineering (2021-22)

S.No.	Name	Designation	Name of the paper	Name of the journal/conference
1.	D.Mandal and Dr.B.Ram Rathan Lal	Asst. Professor Professor	Compressive and flexural behavior of glass fibre reinforced blast furnace slag based material	Published in Springer International Journal of Sustainable Environment and Infrastructure 2021
2.	Dr.S.L.Atmapoojya	Professor	Experimental study on factors affecting the efficiency of microbially induced carbonate precipitation in soil	Published in Elsevier 2022
3.	Dr.S.L.Atmapoojya	Professor	Microbial ground improvement for sustainable construction : processes and challenges	Published in National Journal : Samriddhi Vol.13, Spl.Issue 2, 2021
4.	Dr.A.N.Shrikhande	Professor	Effect of wastewater quality collected from various sources on concrete properties	Published in the International Journal of Engg. Research and Applications Oct. 2021

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### Dept. of Mechanical Engineering (2021-22)

S.No.	Name	Designation	Name of the paper	Name of the journal/conference
1.	Dr.A.V.Kolhe	Associate Professor	Experimental Study of Combined Water Cooling Air Cooling and Water Heating	International E-conference on Mechanical and Material Science Engg. Innovative and Research 17-18 Sept.2021
2.	Dr.A.V.Kolhe	Associate Professor	Generation of Electricity with the use of speed breaker	National Conference on Emerging Trends and Challenges in Mechanical Engg. (ETCME 2021) 16 Sept. 2021
3.	S.A.Borikar	Asst. Professor	A case study on Experimental and Statistical Analysis of Energy consumption of Domestic Refrigerator	Case Studies in Thermal Engineering 28 (2021) 101636, pp.1-10
4.	S.A.Borikar	Asst. Professor	Experimental Investigation of Domestic Refrigerator with Helical Coil Condenser	Advances and Applications in Mathematical sciences 20(10), Aug.2021 pp. 2175-2184
5.	S.A.Borikar	Asst. Professor	Performance analysis of solar assisted refrigeration system	National Conference on Emerging Trends and Challenges in Mech.Engg. (ETCME-2021) 16 <sup>th</sup> Sept 2021
6.	M.K.Jaiswal	Asst. Professor	Biogas as Fuel Generated from Kitchen Waste	National Conference on ETCME 2021, 16 <sup>th</sup> Sept. 2021
7.	N.N.Suraskar	Asst. Professor	Design of Shell and Tube Heat Exchanger with effect of Segmental Baffled	National Conference on ETCME 2021, 16 <sup>th</sup> Sept. 2021
8.	Y.R.Suple	Asst. Professor	Combustion of pallets of bio mass blends for household cooking	National Conference on ETCME 2021, 16 <sup>th</sup> Sept. 2021

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### Dept. of Mechanical Engineering (2021-22)

S.No.	Name	Designation	Name of the paper	Name of the journal/conference
9.	Dr.D.C.Katpatal	Asst. Professor	A review on Thermophysical properties of oxide based nanolubricants	National Conference on ETCME 2021, 16 <sup>th</sup> Sept.2021
10.	P.G.Pokley	Asst. Professor	Cognitive Ergonomics	National Conference on ETCME 2021, 16 <sup>th</sup> Sept.2021
11.	Dr. Y.M.Jibhakate	Professor	Solar Tunnel Dryer Performance Investigation for Drying Red Chile	National Conference on ETCME 2021, 16 <sup>th</sup> Sept.2021
12.	Dr. S.K.Bhele	Associate Professor	Numerical Study of Tubular combustion chamber for Diesel and Biodiesel	National Conference on ETCME 2021, 16 <sup>th</sup> Sept.2021
13.	Dr.M.B.Mawale	Associate Professor	Evolution of Computer Integrated Manufacturing (CIM) ; an over view	National Conference on ETCME 2021, 16 <sup>th</sup> Sept.2021
14.	Dr.M.B.Mawale	Associate Professor	Recent Development in battery thermal management system in Electrical vehicle	National Conference on ETCME 2021, 16 <sup>th</sup> Sept.2021
15.	Dr. M.B.Mawale	Associate Professor	Design and Development of customized implant and customized surgical cutting guide for accurate mandibular reconstruction	National Conference on ETCME 2021, 16 <sup>th</sup> Sept.2021

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### Dept. of Information Technology (2021-22)

S.No.	Name	Designation	Name of the paper	Name of the journal/conference
1.	Saroj Shambharkar	Asst. Professor	Approach towards the Automated System for Understanding Facial Skin Diseases	New Frontiers in Communication and Intelligent Systems, 113-119, Computing & Intelligent Systems, SCRS, India. <a href="https://doi.org/10.52458/978-81-95502-00-4-14">https://doi.org/10.52458/978-81-95502-00-4-14</a>
2.	Saroj Shambharkar	Asst. Professor	Approach towards the Automated System for understanding	Google Scholar, Computing & Intelligent Systems, June 2021

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### Dept. of Electrical Engineering (2021-22)

S.No.	Name	Designation	Name of the paper	Name of the journal/conference
1.	Shilpa Ashtankar	Asst. Professor	Ripple Investigation of Sliding Mode Control for Grid Tied I-Phase QZSI	IEEE journal : 2021 Innovations in power and advanced computing technologies
2.	Shilpa Ashtankar	Asst. Professor	Fuel Cell Based DC-AC Single Phase QZSI for low voltage Grid Utility	IEEE International Conference for Advancement in Technology

## RESEARCH PAPER PUBLICATIONS OF FACULTY

Dept. of Engg. Sciences & Humanities (2021-22)

S.No.	Name	Designation	Name of the paper	Name of the journal/conference
1.	Dr. S.S.Pokley	Associate Professor	'Application of Game Theory Model using Regression for the Graph analytics Parameters of the Social Networking' published in the International Conference on Advances of Mathematical Sciences	International Journal of Scientific Research in Science, Engg. & Tech. ISSN 2395-1990
2.	E.Siva Prasad	Asst. Professor	Numerical Approach for differential difference equations having layer behavior with small or large delay using non polynomial spline	Published in Sprinter-Verlag GmbH Germany, part of Springer Nature 2021 published on 18 <sup>th</sup> Aug. 2021
3.	S.T.Thakare	Asst.Professor	Time Fractional heat transfer analysis in thermally sensitive functionally graded thick hollow cylinder with internal heat source and its thermal stresses	Published in Journal of Physics; Conference series 1913 012112
4.	S.T.Thakare	Asst. Professor	'Time Fractional heat transfer analysis in thermally sensitive functionally graded thick hollow cylinder with internal heat source and its thermal stresses' presented in International Conference on Research Frontiers in Sciences (ICRFS 2021)	Published in Journal of Physics Conference series: 1913(2021 012112
5.	Jyothi Badwaik	Asst. Professor	The Role of Graphs in Multiple Disciplines in Computer Sciences	National e-Conference on NCRAIRM-2021 (Dated 28 <sup>th</sup> Sept.2021)