

SUMMARY OF PUBLICATIONS (FH24)

Sr. No.	Type of Publication	No. of Publications
1.	Journal Publications	20
2.	Conference Publications	16

PAPERS PUBLISHED IN JOURNALS

FH24

Sr. No.	Name of Faculty Member	Details of Papers Published	Date	DOI	Category
1.	S.M. Khot	V. G. Salunkhe, R. G. Desavale, S. M. Khot, N. P. Yelve, "Identification of Bearing Clearance in Sugar Centrifuge Using Dimension Theory and Support Vector Machine on Vibration Measurement." ASME. ASME J Nondestructive Evaluation, Vol. 7, no. 2, pp. 021003.-16, 2024	Feb 26, 2024	https://doi.org/10.1115/1.4064613	Scopus
2.	S.M. Khot	P. S. Jadhav, V. G. Salunkhe, R. G. Desavale, S. M. Khot, P. V. Shinde, P. M. Jadhav, P. R. Gadyanavar "Identification and Fault Diagnosis of Rolling Element Bearings Using Dimension Theory and Machine Learning Techniques," ASME Journal of Tribology, Vol. 146, no. 8, pp. 1-19, 2023	April 17, 2024	https://doi.org/10.1115/1.4065335	SCI
3.	S.M. Khot	J. Tupe, D. Padmanabhan, and S. M. Khot, "Improving Water Flux Using Agave Reinforcement in Polymeric Membranes," NanoWold Journal, vol. 10, no. S1, pp. S265–S269, Mar. 2024, doi: 10.17756/nwj.2024-s1-047	March 21, 2024	https://www.jnanoworld.com/2024/03/21/improving-water-flux-using-agave-reinforcement-in-polymeric-membranes/	Scopus
4.	S.M. Khot	Raut A. S., Khot S. M., and Salunkhe V. G. (June 7, 2024). "Experimental Analysis of Spur Gear Pair With Geometrical and Operating Parameters." ASME. ASME J Nondestructive Evaluation. August 2024; 7(3): 031005. https://doi.org/10.1115/1.4065507	June 07, 2024	https://doi.org/10.1115/1.4065507	ESCI
5.	S.M. Khot	Salunkhe V. G., Khot S. M., Desavale R. G., Yelve N. P., and Jadhav P. S. (June 7, 2024). "An Integrated Dimension Theory and Modulation Signal Bispectrum Technique for Analyzing Bearing Fault in Industrial Fibrizer." ASME. ASME J Nondestructive Evaluation. August 2024; 7(3): 031006. https://doi.org/10.1115/1.4065545	June 07, 2024	https://doi.org/10.1115/1.4065545	ESCI
6.	S.M. Khot	A. S. Raut, S. M. Khot, and V. G. Salunkhe, "Application of Finite Element Method for Analyzing the Influence of Geometrical Parameters of Spur Gear Pair on Dynamic Behavior," 2024, 10.1201/9781003402695-9.	May 01, 2024	10.1201/9781003402695-9	Scopus (Book Chapter)
7.	S.M. Khot	P. S. Jadhav, V. G. Salunkhe, R. G. Desavale, S. M. Khot, P. V. Shinde, P. M. Jadhav, P. R. Gadyanavar Identification and Fault Diagnosis of Rolling Element Bearings Using Dimension Theory and Machine Learning Techniques", ASME Journal of Tribology, Vol 146, no. 8, pp. 1-19, 2024	May 15, 2024	https://doi.org/10.1115/1.4065335	SCI

8.	Nilaj Deshmukh	Deshmukh, N.N., Kulkarni A., Ansari, A., Suppression of Thermo-acoustic Instability inside a Rijke Tube using an Adaptive Passive Helmholtz Resonator. J. Inst. Eng. India Ser. C (2024).	May 15, 2024	https://doi.org/10.1007/s40032-024-01050-2	Scopus
9.	Prasad Bari	P. Bari, P. Karande and V. Bag, "Hybrid genetic algorithm to minimize scheduling cost with unequal and job dependent earliness tardiness cost," International Journal of Production Management and Engineering, vol. 12, no. 1, 2024	January 2, 2024	https://doi.org/10.4995/ijpme.2024.19277	Scopus
10.	Sanjay W. Rukhande	Sk Lal, Vivek Gaval, Sanjay Rukhande, Dry Sliding Wear Investigation of Hard Chrome And Nickel Coating On En19 For Rolling Application", ASEAN Engineering Journal, 14(2), 147-154, 2024	May 31, 2024	https://doi.org/10.11113/aej.v14.20931	Scopus
11.	Dhananjay Panchgade	Suyash Bare, Jebin Samuel, Pradnya Bokade, Yash Mekade, Dhananjay Panchgade, "Design, Development and Manufacturing of Coconut De-Husking Machine", International Conference on Recent Advances in Science, Engineering & Technology (1st ed.). CRC Press. https://doi.org/10.1201/9781003527442	August 4, 2024	https://doi.org/10.1201/9781003527442	Scopus (Book Chapter)
12.	V. G. Salunkhe	A. S. Raut, S. M. Khot, and V. G. Salunkhe, "Application of Finite Element Method for Analyzing the Influence of Geometrical Parameters of Spur Gear Pair on Dynamic Behavior," 2024, 10.1201/9781003402695-9.	May 01, 2024	10.1201/9781003402695-9	Scopus (Book Chapter)
13.	V. G. Salunkhe	P. S. Jadhav, V. G. Salunkhe, R. G. Desavale, S. M. Khot, P. V. Shinde, P. M. Jadhav, P. R. Gadyanavar Identification and Fault Diagnosis of Rolling Element Bearings Using Dimension Theory and Machine Learning Techniques," ASME Journal of Tribology, Vol. 146, no. 8, pp. 1-19, 2023	April 17, 2024	https://doi.org/10.1115/1.4065335	SCI
14.	V. G. Salunkhe	Raut, A. S., Khot, S. M., and Salunkhe, V. G. (June 7, 2024). "Experimental Analysis of Spur Gear Pair With Geometrical and Operating Parameters." ASME. ASME J Nondestructive Evaluation. August 2024; 7(3): 031005. https://doi.org/10.1115/1.4065507	June 07, 2024	https://doi.org/10.1115/1.4065507	ESCI
15.	V. G. Salunkhe	Salunkhe, V. G., Khot, S. M., Desavale, R. G., Yelve, N. P., and Jadhav, P. S. (June 7, 2024). "An Integrated Dimension Theory and Modulation Signal Bispectrum Technique for Analyzing Bearing Fault in Industrial Fibrizer." ASME. ASME J Nondestructive Evaluation. August 2024; 7(3): 031006. https://doi.org/10.1115/1.4065545	June 07, 2024	https://doi.org/10.1115/1.4065545	ESCI

16.	V. G. Salunkhe	Salunkhe, V. G., Desavale, R. G., Khot, S. M., and Yelve, N. P. (February 26, 2024). "Identification of Bearing Clearance in Sugar Centrifuge Using Dimension Theory and Support Vector Machine on Vibration Measurement." ASME. ASME J Nondestructive Evaluation. May 2024; 7(2): 021003. https://doi.org/10.1115/1.4064613	February 26, 2024	https://doi.org/10.1115/1.4064613	Scopus
17.	Suvarna Rode	Suvarna Rode, Rashmi Kale, Devoushka Yadav, Dhananjay Pawar, Jatin Satyam, and Nishant Shelar "Development of Solar-Powered Electric Vehicle Prototype", Select Proceedings of CPIE 2023, Recent Advances in Operations Management and Optimization-Part of the book series: Lecture Notes in Mechanical Engineering (LNME)	March 20, 2024	https://doi.org/10.1007/978-981-99-7445-0	Scopus Book Chapter
18.	Afzal Ansari	Deshmukh, N.N., Kulkarni A., Ansari, A. , Suppression of Thermo-acoustic Instability inside a Rijke Tube using an Adaptive Passive Helmholtz Resonator. J. Inst. Eng. India Ser. C (2024).	May 15, 2024	https://doi.org/10.1007/s40032-024-01050-2	Scopus
19.	Jweshvari V Tupe	J. Tupe, D. Padmanabhan, and S. M. Khot, "Improving Water Flux Using Agave Reinforcement in Polymeric Membranes," NanoWold Journal, vol. 10, no. S1, pp. S265–S269, Mar. 2024, doi: 10.17756/nwj.2024-s1-047.	March 21, 2024	https://www.jnanoworld.com/2024/03/21/improving-water-flux-using-agave-reinforcement-in-polymeric-membranes/	Scopus
20.	Kishor V Mane	Mane, K. V., & Alekseik, Y. (2024). Comprehensive parametric and design review for reducing pulsating heat pipes dependence on space orientation, Archives of Thermodynamics, 45(2), 165–182.	March 30, 2024	10.24425/ather.2024.150863	Scopus

PAPERS PUBLISHED IN CONFERENCES

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Sr. No.	Name of Faculty Member	Details of Papers Published	Date	Category	Reg. Amount received
1.	Nilaj Deshmukh	S. Pathan, P. Kumar, B. Mashilkar, N. Deshmukh, and A. Siddiqui, "Vibration Analysis of Faults in Rotating Machineries Design Overview of Experimental Setup," in International Conference on Technologies for Energy, Agriculture, and Healthcare (ICTEAH 2024), 2024, pp. 1–9.	15-16 th April 2024	--	5000/-
2.	Aqleem Siddiqui	S. Pathan, P. Kumar, B. Mashilkar, N. Deshmukh, and A. Siddiqui, "Vibration Analysis of Faults in Rotating Machineries Design Overview of Experimental Setup," in International Conference on Technologies for Energy, Agriculture, and Healthcare (ICTEAH 2024), 2024, pp. 1–9.	15-16 th April 2024	--	Shared with Sr. No. 1
3.	Shamim Pathan	S. Pathan, P. Kumar, B. Mashilkar, N. Deshmukh, and A. Siddiqui, "Vibration Analysis of Faults in Rotating Machineries Design Overview of Experimental Setup," in International Conference on Technologies for Energy, Agriculture, and Healthcare (ICTEAH 2024), 2024, pp. 1–9.	15-16 th April 2024	--	Shared with Sr. No. 1
4.	Shamim Pathan	Shamim Pathan, Badal Kudachi, Nilesh Varkute, Apeksha Kini, Reshma Hadawale, Chinmayee Mithagri, Rahul Sitha, Experimental Study of Solar Water Heater System Using Phase Change Material, ICTEAH 2024, 15-16 April 2024, K J Somaiya, Mumbai, India	15-16 th April 2024	--	5000/-
5.	Praseed Kumar	S. Pathan, P. Kumar, B. Mashilkar, N. Deshmukh, and A. Siddiqui, "Vibration Analysis of Faults in Rotating Machineries Design Overview of Experimental Setup," in International Conference on Technologies for Energy, Agriculture, and Healthcare (ICTEAH 2024), 2024, pp. 1–9.	15-16 th April 2024	--	Shared with Sr. No. 1
6.	Bipin Mashilkar	S. Pathan, P. Kumar, B. Mashilkar, N. Deshmukh, and A. Siddiqui, "Vibration Analysis of Faults in Rotating Machineries Design Overview of Experimental Setup," in International Conference on Technologies for Energy, Agriculture, and Healthcare (ICTEAH 2024), 2024, pp. 1–9.	15-16 th April 2024	--	Shared with Sr. No. 1
7.	Nilesh Varkute	Shamim Pathan, Badal Kudachi, Nilesh Varkute, Apeksha Kini, Reshma Hadawale, Chinmayee Mithagri, Rahul Sitha, Experimental Study of Solar Water Heater System Using Phase Change Material, ICTEAH 2024, 15-16 April 2024, K J Somaiya, Mumbai, India	15-16 th April 2024	--	Shared with Sr. No. 4

8.	Nilesh Varkute	Nilesh Varkute, Prathamesh Patil, Pradeep Kumawat , Rejoy Roy George, Kartikeya Phale, "Design and fabrication of Automatic hydraulic System", in Proc. Of International Conference on Recent Advances in Design and Manufacturing (RADM-2024), Patna, India, June 28-30, 2024, pp	28-30 th June 2024	--	--
9.	Badal Kudachi	Shamim Pathan, Badal Kudachi, Nilesh Varkute, Apeksha Kini, Reshma Hadawale, Chinmayee Mithagri, Rahul Sitha, Experimental Study of Solar Water Heater System Using Phase Change Material, ICTEAH 2024, 15-16 April 2024, K J Somaiya, Mumbai, India	15-16 th April 2024	--	Shared with Sr. No. 4
10.	Deepak Devasagayam	Deepak Devasagayam, Akash Singh, Shreyash Patil, Jay Masal, Caleb Thombe, "Thermal Management of Battery System Using Liquid Cooling Method", in Proc. International Conference on Mechanical Engineering & Technology (ICMET-2024), National Institute of Technology, Kurukshetra, Haryana, India, Mar. 1-3, 2024	1-3 rd March 2024	--	6000/-
11.	Deepak Devasagayam	Shivam Salunke, Shubham Thorat, Apurva More, Jayesh Patil, Deepak Devasagayam, Suvarna Rode, "Design and Fabrication of Underwater Drone for Cargo Transportation", in Proc. International Conference on Mechanical Engineering & Technology (ICMET-2024), National Institute of Technology, Kurukshetra, Haryana, India, Mar. 1-3, 2024	1-3 rd March 2024	--	Shared with Sr. No. 12
12.	Suvarna Rode	Shivam Salunke, Shubham Thorat, Apurva More, Jayesh Patil, Deepak Devasagayam, Suvarna Rode, "Design and Fabrication of Underwater Drone for Cargo Transportation", in Proc. International Conference on Mechanical Engineering & Technology (ICMET-2024), National Institute of Technology, Kurukshetra, Haryana, India, Mar. 1-3, 2024	1-3 rd March 2024	--	6000/-
13.	Suvarna Rode	Suvarna Rode, Rashmi Kale, Devoushka Yadav , Dhananjay Pawar, Jatin satyam, Nishant shelar, "DEVELOPMENT OF SOLAR POWERED ELECTRIC VEHICLE PROTOTYPE", in Recent Advances in Operations Management and Optimization- Part of the book series: Lecture Notes in Mechanical Engineering (LNME)	20 th March 2024	--	--
14.	Kamlesh Sasane	Kamlesh Sasane, Savio Thaikadan, Tejas Patil, Stephen Nadar, Kapil Patil, and Nimesh Rokade, "Design and construction of an oxygen concentrator", 5th International Conference On Advances In Mechanical Engineering (ICAME 2024), 20-22, March 2024.	20-22 nd March	--	--
15.	Sunny Sarraf	Avdhut Shelar, Jagraj Singh and Sunny Sarraf, "Comparitive Analysis and Fabrication of Regenerative Braking System using Matlab", in 29th International Conference on Processing and Fabrication of Advanced Materials, IIT Trupati, Sept. 6-8 2024	6-9 th Sept. 2024	--	3500/-

16.	Syed Mohammed Arif	K. Mahajan, P. Mane, S. M. Arif, K. R. Desai, G. M. Lonare and V. V. Teresa, "Auto Sorting and Placing of Objects using Robotics Vision Module in MELFA Industrial Robot," 2024 5th International Conference on Mobile Computing and Sustainable Informatics (ICMCSI), Lalitpur, Nepal, 2024, pp. 877-880, doi: 10.1109/ICMCSI61536.2024.00138.	18-19 th January 2024	--	--
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SUMMARY OF PUBLICATIONS (SH23)

Sr. No.	Type of Publication	No. of Publications
1.	Journal Publications	11
2.	Conference Publications	11

PAPERS PUBLISHED IN JOURNALS

SH23

Sr. No.	Name of Faculty Member	Details of Papers Published	Date	DOI	Category
1.	S.M. Khot	Salunkhe V. G., Khot S. M., Desavale R. G., and Yelve N. P. "Unbalance Bearing Fault Identification Using Highly Accurate Hilbert–Huang Transform Approach." ASME. ASME J Nondestructive Evaluation, Vol. 6, no. (3): pp. 031005, 2023	July 26, 2023	https://doi.org/10.1115/1.4062929	Scopus
2.	S.M. Khot	Tupe, D. Padmanabhan, and S. M. Khot, "Improvement of Water Flux with Date Palm Reinforcement in Composite Membranes," International Journal of Applied Engineering & Technology, vol. 5, no. 4, pp. 1443–1454, Dec. 2023, [Online]. Available: https://roma	Dec 4, 2023	https://romanpub.com/resources/jjaet20v5-4-2023-150.pdf	Non Scopus
3.	Nilaj Deshmukh	N.N. Deshmukh, A. Ansari, A.P. Tajir, C.C. Almeida, A.S. Shetty, N.S. Danie, S.K. Kadam, "Suppression of thermo-acoustic instabilities in horizontal Rijke tube using pulsating radial jets", MethodsX. 11 (2023) 102325. https://doi.org/10.1016/j.mex.2023.102325 .	August 18, 2023	https://doi.org/10.1016/j.mex.2023.102325	Scopus
4.	Prasad Bari	P. Bari and P. Karande, "Optimal job scheduling to minimize total tardiness by dispatching rules and community evaluation chromosomes", Decision Making: Applications in Management and Engineering, vol. 6, no. 2, pp. 201-250, 2023	July 04, 2023	https://doi.org/10.31181/dmame622023700	Scopus
5.	Sanjay Rukhande	S. W. Rukhande, D. G. Bhosale, W. S. Rathod, and H. Vasudev, "Plasticity Index a Measure of Dry Sliding Wear for Ni-Based Coating," Surf. Rev. Lett., 2023	August 04, 2023	https://doi.org/10.1142/S0218625X23400103	Scopus
6.	Vishal Salunkhe	Salunkhe V. G., Khot S. M., Desavale R. G., and Yelve N. P. "Unbalance Bearing Fault Identification Using Highly Accurate Hilbert–Huang Transform Approach." ASME. ASME J Nondestructive Evaluation, Vol. 6, no. (3): pp. 031005, 2023	July 26, 2023	https://doi.org/10.1115/1.4062929	Scopus
7.	Bharat Kale	S. Valvi, K. Bhole, B. Kale, J. Gholave, J. Jagtap, "Synthesis of Sodium Chloro Fluoride system for generating micro fractal type structures for microfluidic applications", International Journal on Interactive Design and Manufacturing (IJIDeM) (2023)	October 29, 2023	https://doi.org/10.1007/s12008-023-01603-2	Scopus
8.	Bharat Kale	Surve, Minendra, Prashant D. Deshmukh, Kailasnath B. Sutar, Bharatbhushan S. Kale, and Kiran Suresh Bhole. "Computational analysis of a new airfoil for micro-capacity wind turbine." International Journal on Interactive Design and Manufacturing (IJIDeM) pp	July 11, 2023	https://doi.org/10.1007/s12008-023-01419-0	Scopus
9.	Bharat Kale	Minendra L Surve, Prashant D Deshmukh, Bharatbhushan S Kale, Akshay R Ghadge and ManishV Patil, "Development of a roof-mounted stand-alone wind turbine system for house-hold power generation", vol. 5, no.4, pp 045082, 2023	Dec 8, 2024	https://doi.org/10.1088/2631-8695/ad1085	Web of Science

10.	Afzal Ansari	N.N. Deshmukh, A. Ansari, A.P. Tajir, C.C. Almeida, A.S. Shetty, N.S. Danie, S.K. Kadam, Suppression of thermo-acoustic instabilities in horizontal Rijke tube using pulsating radial jets, MethodsX. 11 (2023) 102325. https://doi.org/10.1016/j.mex.2023.102325 .	Aug 18, 2023	https://doi.org/10.1016/j.mex.2023.102325	Scopus
11.	Jweshwari Tupe	Tupe, D. Padmanabhan, and S. M. Khot, "Improvement of Water Flux with Date Palm Reinforcement in Composite Membranes," International Journal of Applied Engineering & Technology, vol. 5, no. 4, pp. 1443–1454, Dec. 2023, [Online]. Available: https://roma	Dec4, 2023	https://romanpub.com/resources/ijaet20v5-4-2023-150.pdf	Non Scopus

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1.	Nilaj Deshmukh	Nilaj N. Deshmukh, Afzal Ansari , Shreyash Sandeep Parab, Devang Gaur, Gayathri Balan , & Vishal Anil Mali, "Design and Development of a Turbine for Waste Heat Recovery System", Conference on Technologies for Future Cities, 2023	6-7 th Oct 2023	--	--
2.	Mathewlal Thomas	T. Mathewlal, S. T. Dias, F. F. Bijle, Z. M. Barwelkar and D. S. Chettiar, "Development of an Aquatic Robot for Cleaning Swimming Pools," 2023 5th Biennial International Conference on Nascent Technologies in Engineering (ICNTE), Navi Mumbai, India, 2023, pp. 1-4, doi: 10.1109/ICNTE56631.2023.10146710	20-21 st January 2023	IEEE Xplore	5900/-
3.	Aqleem Siddiqui	Aqleem Siddiqui, Faaiz Nakhwa, Sherwin Moncy & Omakr Patil, " Smart Utility Basket: Design Coding and Fabrication of Smart Robotic System", Conference on Technologies for Future Cities, 2023	6-7 th Oct 2023	--	--
4.	Dhananjay Panchagade	Suyash Bare, Jebin Samuel, Pradnya Bokade, Yash Mekade, Dhananjay Panchagade, "Design, Development and Manufacturing of Coconut De-husking Machine", International Conference on Recent Advances in Science, Engineering and Technology (RASET 2K23), Nagpur, India, Sept, 29-30, 2023, pp. 1-10.	29-30 th Sept. 2024	--	7000/-
5.	Sanjay Rukhande	Suryawanshi, S., Bhosale, A.P., Bhosale, D.G., Rukhande, S.W., "Prediction of Deposition Parameters in Manufacturing of Ni-Based Coating Using ANN", Advanced Computing. IACC 2023. Communications in Computer and Information Science, vol 2053. Springer, https://doi.org/10.1007/978-3-031-56700-1_7	15-16 th Dec 2023	--	--
6.	Nanaji Kshirsagar	Nanaji Kshirsagar, R.M. Tayade, "A review of sequential micro-machining: State of art approach", Proc. Materials Today, Vol. 72, Part 3, 2023, pp 1394-1400.	23-25 th June 2022	--	--
7.	Praseed Kumar	J. Om Prasad, Chetan Aade, Pranav Ghanvat, Biradar Mustaffa, Praseed Kumar, Shamim Pathan, "Design & Development of a Semi-Automated Pneumatic System for Production of Washers", in International Conference on Recent Advances in Science, Engineering and Technology (RASET 2K23), Nagpur, India, September 29-30, 2023	29-30 th Sept 2023	--	--
8.	Shamim Pathan	J. Om Prasad, Chetan Aade, Pranav Ghanvat, Biradar Mustaffa, Praseed Kumar, Shamim Pathan, "Design & Development of a Semi-Automated Pneumatic System for Production of Washers", in International Conference on Recent Advances in Science, Engineering and Technology (RASET 2K23), Nagpur, India, September 29-30, 2023	29-30 th Sept 2023	--	--

9.	Bipin Mashilkar	Soham Ravindra Nevgi, Parth Vinod Trivedi, Hardik Mahendra Thasale, Siddhesh Nagesh Padate, Bipin Mashilkar, "Design and Development of Cycloidal Gear Box", in Proc. international Conference on Recent Advances in Science, Engineering & Technology, Nagpur, India, Sept. 29-30, 2023,.	Sept. 29-30, 2023	Scopus	Rs.6000/-
10.	Afzal Ansari	Nilaj N. Deshmukh, Afzal Ansari , Shreyash Sandeep Parab, Devang Gaur, Gayathri Balan , & Vishal Anil Mali, "Design and Development of a Turbine for Waste Heat Recovery System", Conference on Technologies for Future Cities, 2023	6-7 th Oct 2023	--	--
11.	Amar Murumkar	S. M. Gaikwad, U. Bhushi, S. B. Mali, R. Premkumar, A. Murumkar and W. R. Babu, "Design and Implementation of Modular Servo Controller for Positioning System with 4 Axis Motion Control Module," 2023 3rd International Conference on Innovative Mechanisms for Industry Applications (ICIMIA), Bengaluru, India, 2023, pp. 507-511, doi: 10.1109/ICIMIA60377.2023.10426602.	21-23 rd Dec 2024	--	--