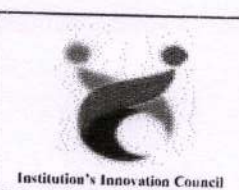


Faculty Publication AY 2023-24- International Journals

Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
Department of Mechanical Engineering					
1.	1.	Dr. L. Y. Waghmode	Design of energy harvesting magneto-rheological fluid damper for vehicle	01-08-2023	Materials Today: Proceedings
2.	2.	Mr. G. M. Chendke	Servomotor Pitching Control Method for H-Type Darrieus Turbine	11-08-2023	Taylor & Francis: Electric Power Components and Systems
3.	3.	Dr. A. A. Jadhav	An experimental and analytical approach while predicting damped vibration responses of machine tool installed on a tuneable-damper foundation (TDF) via dimension theory foundation (TDF) via dimension theory	15-08-2023	Journal of the International Measurement Confederation
4.	4.	Dr. V. B. Patil	Means of Enhancing the Power Output and Widening the Operational Frequency Band of Vibration-Based Electromagnetic Energy Harvester	24-08-2023	Springer: Journal of Vibration Engineering and Technologies
5.	5.	Mr. K. I. Nargatti	Graphene-Based Inks for Flexible Supercapacitor Electrodes: A Review	01-12-2023	ACS: Applied Electronic Materials
6.	6.	Dr. L. Y. Waghmode	Numerical Analysis for Determination of the Damping Force of the Magneto-rheological (MR) Fluid Damper	01-01-2024	ISTE Journal



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Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
7.	7.	Mr. K. I. Nargatti	Environmentally Friendly Water-Based Reduced Graphene Oxide/Cellulose Nanofiber Ink for Supercapacitor Electrode Applications	01-02-2024	American Chemical Society ACS Omega 2024 9 (10), 11730-11737
8.	8.	Mr. R. R. Gaji	Investigating the Impact of Back Cavity Filling and Axial Clearance on the Flow Physics and Performance of a Pump as Turbine	01-03-2024	Journal of Applied Fluid Mechanics
9.	9.	Mr. A. M. Pirjade	Development of Petrol Engine Powered Multipurpose Farming Equipement	04-04-2024	International Journal of Engineering Technology Research & Management
10.	10.	Mr. K. J. Burle	Design of multipurpose indexer: a multi role job handling device	15-04-2024	Journal of Progressive Research In Engineering Management and Science
11.	11.	Mr. S. V. Nishandar	Computational modelling and analysis of heat transfer enhancement in straight circular pipe with pulsating flow	06-06-2024	Springer
12.	12.	Mr. S. V. Nishandar	Computational Analysis of Pulsating Pipe Flow for Heat and Flow Characteristics Enhancement	05-12-2024	Material Science Research India
13.	13.	Mrs. Sayali Jadhav	Enhancing Sound Quality through Audio Beam Formation: A MVDR Algorithm Approach with Linear Microphone Arrays		Yildiz Technical University

Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
14.	14.	Dr. M. M. Jadhav	Natural Fiber Thermoplastic Composites For Mechanical And Biodegradability Properties	30-10-2024	African Journal of Biomedical research
15.	15.	Dr. M. M. Jadhav, Mr. G. B. Pawar	Enhanced biodegradability and mechanical properties in green composites: a Taguchi approach	28-12-2024	Springer
16.	16.	Dr. M. M. Jadhav	An Overview on Industrial Waste Water Submersible Pump	11-02-2025	International Journal on Science and Technology
Department of Computer Science Engineering					
17.	1.	Mrs. Neha Surayawanshi	Secure Big Data Storage on Multi-Cloud Servers with Enhanced Attribute-Based Access Control	August 2023	IJRASET
18.	2.	Arifa Shikalgar	Deep Kernelized Dimensionality Reducer for Multi-Modality Heterogeneous Data	May, 2024	Springer
19.	3.	Suhel Sayyad	Online Education Using E-Learning Tools - A Survey	August, 2023	IJ Publication
20.	4.	Suhel Sayyad	Face recognition for classroom attendance based on convolutional neural network	August, 2023	International Journal of Intelligent Systems and Applications in Engineering (IJISAE)
21.	5.	Shrihari Khatawkar	HAB&ML Model to Improve the Security & QOS Performance of Industrial IoT	17-02-2023	International Journal of Intelligent Systems and Applications in Engineering (IJISAE)
22.	6.	Amolkumar Jadhav, Pravin More, Satish Ranbhise, Swapnil Kadam	Grouping of Brain Illness using Convolutional Neural Network	2024	Science China Press

Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
23.	7.	Amolkumar Jadhav	Nurturing Awareness and Responsible Practices in E-waste Management	30-11-2023	Auricle Global Society of Education and Research
24.	8.	Amolkumar Jadhav, Shrihari D. Khatawkar	Neurological Disorder Classification using Convolutional Neural Networks	21-02-2024	Auricle Global Society of Education and Research
25.	9.	Amol Dange	Text Matching Technique-based Intelligent Web Crawler in Hybrid Mode	September 23, 2023.	Intelligent Networks and Systems Society
26.	10.	Amol Dange	Efficient intelligent crawler for hamming distance based on prioritization of web documents	April, 2024	Institute of Advanced Engineering and Science (IAES)
Department of Electrical Engineering					
27.	1.	Dr. P. Balakrishnan & Dr. S. Gopinath	A hybrid approach for enhancing the dynamic stability in power system	September, 2023	Taylor and Francis
28.	2.	Dr. M. Palpandian	One-step adaptive reconfiguration technique for partial shaded photovoltaic array	October, 2023	Elsevier
29.	3.	Dr. M. Palpandian	Performance Analysis of Novel Solar PV Array Configurations with Reduced Tie Interconnection to Extract Maximum Power under Partial Shading	November, 2023	Taylor and Francis
30.	4.	Dr. P. Balakrishnan	Enhancing photo voltaic solar panel efficiency by using a combination of silica based and phase change material coating	December, 2023	IOP Publication



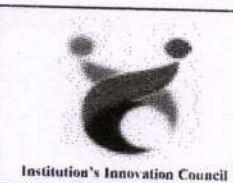
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Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
31.	5.	Mr. Amit B. Jadhav	21 Level Asymmetric Inverter without Inversion Circuit with Reduced Switch Count for BLDC Motor Drive	December, 2023	MAT Journals Pvt. Ltd.
32.	6.	Dr. Manoj Dhondiram Patil	PWM Technique for Bidirectional AC/DC Converters with Feedforward Control in Grid-Linked Microgrid Systems	December, 2023	MAT Journals Pvt. Ltd.
33.	7.	Dr. M. Palpandian	Novel Active Battery Balancing Methodologies for Lithium Batteries: An Experimental Comparative Analysis	January, 2024	Wiley
34.	8.	Mr. Santhosh Vilas Patil	Performance and reproducibility analysis of zinc sulfo-selenide and cuprous oxide based perovskite solar cell: A SCAPS study	April, 2024	IOP Publication
35.	9.	N. Vengadachalam, P. Balakrishnan	Enhancing Distribution Network Efficiency with Andean Condor Algorithm-Driven Optimal Placement of Distributed Generation and Network Reconfiguration	April, 2024	T&F
36.	10.	P. Balakrishnan, S. Gopinath	PV Wind Battery Based DC Microgrid with Neural Network MPPT	2024	JES



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Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
37.	11.	Dr. M. Palpandian	A novel Global maximum power extraction technique for partial shaded solar PV system	August 2024	Elsevier
Department of Aeronautical Engineering					
38.	1.	Kothandan, Vivekanandan Alangadu, Chang Shao-Fu, Li Zhong-You, and Chen Shih-Hsun.	Growth kinetics of crumb-like structure formation on SnO ₂ nanowires during direct oxidation	October, 2023	Cell Press Journal
39.	2.	Periyasamy K, Parthasarathy Natarajan K.	Supersonic jet noise and screech tone suppression using cross-wire	2023	Sage Journals
40.	3.	Yuvaraj, S., Adithya, A., Banu, G., & Srithar, S. (2023).	Numerical and experimental investigation of airfoil derived from peregrine FALCON.	2023	Sage Journals
Department of Civil Engineering					
41.	1.	Dr. S. S. Mohite	Strengthening of existing column using steel plates: Finite Element Analysis	August, 2023	Editorial Board of Journal of Harbin Engineering
42.	2.	Mr. B. V. Mane	Integrated Investigation and FEM Analysis of Long Span Steel Bridges for Incremental Launching Method	August, 2023	Editorial Board of Journal of Harbin Engineering
43.	3.	Mr. A. G. Mujawar	Seismic Analysis of High-Rise RCC Building Structure with Steel Outriggers and Belt Truss System	August, 2023	Editorial Board of Journal of Harbin Engineering

Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
44.	4.	Mrs. V. M. Patil	Review On Analytical And Numerical Models To Predict The Behaviour Of Rolled Steel I Beams Strengthened By Ffp	August, 2023	Shanghai Research Institute of Materials
45.	5.	Mr. B. V. Mane	Structural Health Monitoring Of Bridge Using Wireless Sensors	August, 2023	Editorial Board of Journal of Harbin Engineering
46.	6.	Dr. S. S. Mohite Mr. B. V. Mane	To Study the Comparative Analysis of Multi-storey Building with Floating and Rotating Column	August, 2023	Editorial Board of Journal of Harbin Engineering
47.	7.	Dr. S. B. Hivarekar	Assessing The Efficiency of TiO ₂ Impregnated Clay Filters For Point-Of-Use Water Treatment: A Bacterial Treatment Study	August, 2023	Shanghai Research Institute of Materials
48.	8.	Mr. P. A. Mali Mr. R. V. Jadhav	Artificial Intelligence Models For Estimating Evapotranspiration.	January, 2024	IJESRT
49.	9.	Dr. M. H. Mota Dr. S. B. Hivarekar Mr. A. G. Mujawar	Assessment of Degradation in Water Quality of River Krishna at Sangli, using Water Quality Index.	January, 2024	Kalpana Corporation
Department of Food Technology					
50.	1.	Dr. Anirudh G. Patil	Review Millet processing by-products: sustainable applications in food and non-food sectors"	2024	Springer Nature
Department of Artificial Intelligence & Data Science					
51.	1.	Dr. Asma A Shaikh	Application-Oriented Reviews and Products of Parallel Deep Neural Networks in Recommendation Systems.	21-09-2023	IJISAE



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Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
52.	2.	Dr. Asma A Shaikh	Experimental Hybrid Technique for Enhancing the Quality of Personalized Product Recommendation System using Deep Learning.	21-09-2023	IJISAE
53.	3.	Ms.Tejswini S Danwadkar	Tomato plant leaf disease detection using convolution neural network	March, 2024	International journal on recent and Innovation Trends in Computing and Communication
54.	4.	Mrs. Rama V Kaulgud	Analysis based on machine and deep learning techniques for the accurate detection of lung nodules from CT images	23-08-2023	Elsevier
55.	5.	Dr. Asma A Shaikh	Drone-based reconnaissance for Paddy Leaf Disease Classification using a Superior Hybrid CNN Model: A Deep Learning Comparative Analysis	24-03-2024	IJISAE
Department of Computer Science (IoT & Cyber Security Including Block Chain Technology)					
56.	1.	Dr . Ashok J	Securing the Information using Improved Modular Encryption Standard in Cloud Computing Enviroment	10-10-2023	TIIS
57.	2.	Dr . Ashok J	Develop the Ubiquitous computing weatable IOT Device using IoT distributed Framework	15-12-2023	Elsevier
58.	3.	Shreekant Salotagi	Optial task Scheduling on Agri - Iot with Optimal Clustering and Multi-Cast routing		SCImago Journal



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Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
Department of Basic Science					
59.	1.	Dr. S.B. Mali	Enhance english language earning with Artificial Intelligence (AI) tools.	January, 2024	NEW ACADEMIA: An International Journal of English Language, Literature and Literary Theory
60.	2.	Mr. A. A. Patil	A study of fragmented self in Jean Arasanayagam's Poetry	January, 2024	NEW ACADEMIA: An International Journal of English Language, Literature and Literary Theory
61.	3.	Mr. M. R. Mulla	Transnationalism and its influences on indian society	January, 2024	NEW ACADEMIA: An International Journal of English Language, Literature and Literary Theory

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Faculty Publications A.Y. 2023-24 – International Conferences

Sr. No	Department	Faculty Name	Title of Paper	Publication Date	Publisher
Department of Mechanical Engineering					
1.	1.	Mr. R.R.Gaji Dr. P. D. Kulkarni	Improving the efficiency of parametric scanning and device control via pre-filtering and multi-component hardware modelling	01-06-2023	Preface: First International Conference on Innovations in Computer Science, Electronics & Electrical Engineering (ICICEEE-2022)
2.	2.	Mr. S. V. Nishandar	Test Result Analysis: A Catalyst for Quality Assurance of Assessment in Outcome Based Education	01-01-2024	International Conference on Transformations in Engineering Education (ICTIEE 2024)
3.	3.	Mr. A. A. Mohite	Smart shopping trolley Using Arduino UNO	10-11-2024	IEEE
4.	4.	Mrs. Priya Shinde	Non-Trivial Characteristics of Varying Thickness Battery Casing on Thermal Performance of BTMS	18-12-2024	Material Science Research India
5.	5.	Mr. S. V. Patil, Dr. L. Y. Waghmode, Mr. P. B. Patil, Mr. Y. P. Ballal, Mr. A. R. Mane	Application of Low-Cost Automation for Corrugated Box Flaps Twisting to Improve Productivity	05-08-2024	Taylor & Francis
6.	6.	Mr. P. V. Mali, Mr. H. H. Patil	IOT Controlled Engine Powered Sprayer Machine	10-11-2024	IEEE
Department of Computer Science & Engineering					
7.	1.	Shrihari Khatawkar	Disease detection on pomegranate fruits using machine learning approach	22-06-2023	International Journal of Intelligent Systems and Applications in Engineering (IJISAE)



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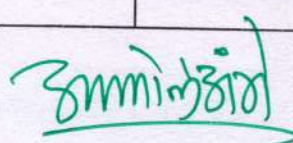
Sr. No	Department	Faculty Name	Title of Paper	Publication Date	Publisher
8.	2.	Archana Chougule, Ashvini S.Patil	LSTM based Speech Emotion Recognition (SER) for Analyzing Patient's Verbal Feedback	March, 2025	Springer
9.	3.	Shrihari Khatawkar	Comparative study of efficient automated multiple disease diagnosis model using ensemble learning	15-06-2023	by CRC Press, Taylor & Francis Group
10.	4.	Vijay Katkar	Harnessing Ridge Regression and SHAP for Predicting Student Grades: An Approach towards Explainable AI in Education	December, 2024	by CRC Press, Taylor & Francis Group
11.	5.	Amol Dange	Ranking of Documents Through Smart Crawler	October, 2023	Institute of Advanced Engineering and Science (IAES)
Department of Electrical Engineering					
12.	1.	P. Balakrishnan, S. Gopinath	QZSI based high efficient wind energy tracking by modified fuzzy logic based hill climbing search (HCS) algorithm	20-09-2023	AIP Conf. Proc. 2831
13..	2.	Amit B.Jadhav	A Research Based Review on Power Quality Improvement Using EVs with Reference to Smart Grids	December, 2023	IEEE 5th International Conference on Cybernetics, Cognition and Machine Learning Applications (ICCCMLA), 2023
14.	3.	R. Arulmurugan	Analysis of interleaved fuzzy Logic MPPT approach for PV system	2023	In Journal of Physics: Conference Series
Department of Aeronautical Engineering					
15.	1.	Raghavendra Nandagiri, Sendhil Kumar S, Purnank Nagrale, Vaibhav Chaure, Sujeet Chormare, Animesh Chandrikapure, and Devabrata Sahoo	Computational Analysis for Optimal Location of Open Sunroof for an SUV With Ahmed Body Profile	17-08-2023	AIP Conference Proceedings



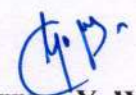
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Sr. No	Department	Faculty Name	Title of Paper	Publication Date	Publisher
16.	2.	S. Yuvaraj, Y. B. Kumbhar, and C. J. Thomas Renald,	Influence of ZnO, Al ₂ O ₃ , CeO ₂ nanoparticle added CME biodiesel HRF on RCCI engine's performance	2023	Sage Journals
17.	3.	Kaleeswaran Periyasamy	Experimental Investigation of Supersonic Jet Noise Mitigation of CD Nozzle with Crosswire	2023	Sage Journals
Department of Food Technology					
18.	1.	Dr. Anirudh G. Patil	Beetroot Probiotics –Health Drink Transforming I (Illness) to We (Wellness) Food Bioprocessing and Fermentation	2024	Innovation in Food Processing Technology & Nutrition, 2024
19.	2.	Dr. Anirudh G. Patil	Emerging Technology in Food Processing-III	2024	International Conference on Emerging Technologies in Food Processing-III (ETFP-2024)
20.	3.	Dr. Anirudh G. Patil	Exploring the frontiers of Insilco drug discovery :-Trends, Challenges & Opportunities	2024	International E-Conference on Exploring the Frontiers of In-Silico Drug Discovery: Trends, Challenges & Opportunities
Department of Artificial Intelligence & Data Science					
21	1.	Mrs. Rama V Kaulgud	Detection of lung nodules from the CT images with the Border collie Optimizationbased DCNN classifier	15-03-2024	IEEE


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Faculty Publications A.Y. 2023-24 – National Journals

Sr. No	Department	Faculty Name	Title of Paper	Publication Date	Publisher
1.	Mechanical Engineering	Dr. S. P. Chavan, Dr. M. M. Jadhav, Mr. K. J. Burle	Pump Vibration due to Shaft Misalignment	01-10-2023	Technical Torque, pump valves and systems (https://www.pvsmag.com/)

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Faculty Publications A.Y. 2023-24 –National Conferences

Sr. No	Department	Faculty Name	Title of Paper	Publication Date	Publisher
1.	Aeronautical Engineering	Tushar Baraskar, Hitesh Rathod, Sabarishwaran R and Reju R	Modelling and Development of Non-Vectored Tail-Sitter UAV	2023	IWA Publishing
2.		Deepak Kumar P, Vivekanandan A K and Karthik Reddy P V S	Optimizing Turbofan Engine Performance Through Nozzle Choking Characteristic	2023	IWA Publishing
3.		Mari Prabu Govindan, Oblisamy L and Sanoj P P Suresh	Static structural analysis of turbine disc with different configuration subjected to thermal loads and torque	2023	IWA Publishing
4.		Sanoj P Suresh, Sanoj P Suresh, Jagat Rath and Gautam Choubey	Performance enhancement of NACA 0012 airfoil using a leading-edge duct: an experimental and computational study	2023	IWA Publishing
5.		Ritesh Mane, Rohit Kumar Prasad and K. M. Kiran Babu	Optimizing Variable Volume Balloon Design for Venus: A Computational Study of Drag Coefficients Using ANSYS-Fluent CFD	2023	IWA Publishing
6.		Dr. Yuvaraj S, Aditya Satish Dalvi, Sanika Ravindra Satpute and Sanket Suresh Revenkar	Research study and modelling of PEMFC for drone applications	2023	IWA Publishing
7.		Oblisamy L, Basithrahman A, Hruturaj Mankar, Shruti Kulkarni, Shivani Kulkarni and Jeetisha Jadhav	Experimental Investigation on the Vibration and Energy Absorption of a Foam-Based Multi-Fiber Polymer Composite	2023	IWA Publishing


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Faculty Publications A.Y. 2023-24 – Book Chapters

Sr. No	Department	Faculty Name	Title of Paper	Publication Date	Publisher
1.	Electrical Engineering	P. Balakrishnan, N. Vengadachalam, R. Arul Murugan, V. Subha Seethalakshmi	Dimesion of ICT Based Student Evaluation and Assessment in Educational Secotr	December, 2024	Edtech
2.		P. Balakrishnan, N. Vengadachalam, R. Arul Murugan, V. Subha Seethalakshmi	Effectiveness of online education system		Edtech
3.	Aeronautical Engineering	Vijayan S. N., S. Sendhil Kumar, and S. Karthik,	Thermal Efficiency Investigation of a Solar Parabolic through Collector System Using Two Dissimilar Reflectors	25-10-2023	Taylor & Francis Publications, Apple Academic Press, Inc. Co-published with CRC Press
4.		A. G. Patil, K. Vivekanandan, A. B. Hemavathi, S. Suri, R. Pande, S. Kagale, S. Yadav and G.Patil,	Sustainable waste water treatment using magnetic nanohybrids	December, 2023	IWA Publishing
5.	Food Technology	Dr. Anirudh G. Patil	Assessing the feasibility of inorganic nanomaterials for nanohybrids formation	2023	IWA

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Faculty Publications A.Y. 2023-24 – Books

Sr. No	Department	Faculty Name	Title of Paper	Publication Date	Publisher
1.	Electrical Engineering	Gajkumar Kavathekar	Flyback Inverter Paperback		LAP Lambert Academic Publishing

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