



Annasaheb Dange College of Engineering and Technology, Ashta
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Office of Dean Research, Innovation and Startups



Faculty Publication AY 2022-23

Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
Department of Mechanical Engineering					
1.	1.	Mr. M.M.Jadhav	Numerical (FEM) And Experimental Analysis Of Layered Composite Beams With Crack Using Modal Analysis	01-11-2022	NeuroQuantology
2.	2.	Mr. M.M.Jadhav,	Analysis of the Performance Parameters of Composite Beam Vibration with Crack	01-11-2022	Journal For Basic Sciences
3.	3.	Mr. R. R. Gaji ,	Influence of impeller blade rounding and surface roughness on the internal hydraulics and performance of pump as turbine	01-04-2023	PAN Publications
4.	4.	Mr. K. I Nargatti,	Nanocellulose-based aerogel electrodes for supercapacitors: A review	01-12-2022	Elsevier
5.	5.	Dr. A.A. Jadhav	Design and development of a novel tunable electrorheological fluid(ERF) damper-foundation to attenuate residual vibration in machine tools	January, 2023	FME Transactions
6.	6.	Mr.S. V Patil, Dr. L. Y Waghmode	Effect of low-cost automation on labor productivity and labor fatigue for corrugated boxes flaps twisting	01-09-2022	NCBI
7.	7.	Mr. S. M. Patil	Fault identification in a nonlinear rotating system using Dimensional Analysis (DA) and central composite rotatable design (CCRD)	August, 2022	Elsevier



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Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
8.	8.	Mr.M. M. Jadhav	Comparative analysis of performance parameters of vibration of composite beam with crack	05-01-2023	AIP Conference Proceedings
9.	9.	Mr. R. R Gaji	CFD analysis of pump as turbine to study the influence of blade and shroud rounding on the internal flow physics for performance enhancement	05-02-2023	AIP Conference Proceedings
10.	10.	Mr. A. M Pirjade, Dr. A. B Shinde	Investigate the effect of surface texturing on the performance cylindrical shaped journal bearing	05-02-2023	AIP Conference Proceedings
11.	11.	Dr. S. P. Chavan, Mr. M. M. Jadhav, Mr. K. J. Burle, Mr. A. M. Pirjade	In-situ balancing, a powerful tool for dynamic balancing of rotating machines in sugar industries	05-02-2023	AIP Conference Proceedings
12.	12.	Mr. S. V. Nishandar	Heat Transfer features of pulsating Turbulent flow in a pipe: experimental Optimization	05-03-2023	AIP Conference Proceedings
13.	13.	Mr. G. M Chendake	Quarter car active suspension system using fuzzy linear quadratic regulator controller	05-02-2023	AIP Conference Proceedings
14.	14.	Mr. G. N. Rakate, Mr. V. S. Gondkar	Bearing element integrity analysis using dimensional analysis and response surface method (RSM) for fault diagnosis of rotor bearing system	05-02-2023	AIP Conference Proceedings
15.	15.	Mr.V. B. Patil	Investigative study on widening of operational bandwidth of a vibration based electromagnetic energy harvester	05-02-2023	AIP Conference Proceedings



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Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
16.	16.	Dr.L. Y. Waghmode	Design of mechanical motion rectifier for energy harvesting	05-02-2023	AIP Conference Proceedings
17.	17.	Mr. S. M. Patil	Investigation of vibration levels of antifriction bearing with right-angled faults on inner race and rolling element under diverse load conditions	05-02-2023	AIP Conference Proceedings
Department of Computer Science					
18.	1.	Dr.A.N.Jadhav	Prediction of Heart Disease Using Hybrid Optimization Clustering Techniques.	June,2022	Inderscience
19.	2.	Mr. S. G. Sutar	Efficient Scheduling of Jobs and Allocation of Resources in Cloud Computing	September, 2022	IGI Global
20.	3.	Mr. Suhel Sayyad	Privacy Preserving Inference Over Encrypted Data	01-10-2022	IJISAE
21.	4.	A R Pradnyavant, Vishal Kamble, A N Mulla	PollX-Polling Assistant	20 th -21 st August, 2022	ICIAML - 2022
22.	5.	Mrs. A. N. Mulla	CoRE: A Context-Aware Relation Extraction Method for Relation Completion	5 th -6 th January, 2023	IEEE
23.	6.	Mr. S. D. Khatawkar, Mrs. A. S. Patil	Car Price Prediction using Machine Learning Algorithm	5 th May, 2023	ICRISET 2023
24.	7.	Mr. S. D. Khatawkar, Mrs. A. S. Patil	Weed Detection using Machine Learning	5 th May, 2023	ICRISET 2023
25.	8.	Mr. S. D. Khatawkar, Mrs. A. S. Patil	Insect Detection on Tomato Plant using Machine Learning Approaches	5 th May, 2023	ICRISET 2023
26.	9.	Mr. S. D. Khatawkar, Mr. Y. S. Lubal	Criminal Identification using Face Recognition Model	5 th May, 2023	ICRISET 2023



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27.	10.	Mr. S. D. Khatawkar, Mr. S. I. Tamboli	Identifying Black Measles Disease in Grape Leaf	5 th May,2023	International Conference on Recent Innovation in Science, Engineering and Technology ICRISSET 2023
28.	11.	Mr. S. D. Khatawkar, Mrs. A. S. Patil	Machine Learning in Disaster Management for Smart Cities and Urbanisation	5 th May, 2023	International Conference on Recent Innovation in Science, Engineering and Technology ICRISSET 2023
29.	12.	Mr. S. D. Khatawkar, Mrs. A. S. Patil	A Review on Currency Recognition	5 th May, 2023	International Conference on Recent Innovation in Science, Engineering and Technology ICRISSET 2023
30.	13.	Mr. S. D. Khatawkar, Dr. A. N. Jadhav	Customer Segmentation using Machine Learning	5 th May, 2023	International Conference on Recent Innovation in Science, Engineering and Technology ICRISSET 2023
31.	14.	Mr. S. D. Khatawkar, Mrs. A. S. Patil	Detection of Sugarcane Disease and Classification using DenseNet and SVM	5 th May, 2023	International Conference on Recent Innovation in Science, Engineering and Technology ICRISSET 2023
32.	15.	Mr. S. D. Khatawkar, Mr. P. B. More	Demand Forecasting for a Shopkeepres	5 th May, 2023	International Conference on Recent Innovation in Science, Engineering and Technology ICRISSET 2023



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33.	16.	Mr. S. D. Khatawkar, Mr. P. B. More	Smart Health Prediction System using Machine Learning	5 th May, 2023	International Conference on Recent Innovation in Science, Engineering and Technology ICRISSET 2023
34.	17.	Mr. S. D. Khatawkar, Mr. P. B. More	Rainfall Prediction using Machine Learning Approaches	5 th May, 2023	International Conference on Recent Innovation in Science, Engineering and Technology ICRISSET 2023
35.	18.	Mr. S. D. Khatawkar, Dr. A. N. Jadhav	Sentiment Analysis using Machine Learning Approches	5 th May, 2023.	International Conference on Recent Innovation in Science, Engineering and Technology ICRISSET 2023
36.	19.	Mr. S. D. Khatawkar, Mr. P. B. More	Stock Market Prediction using Machine Learning	5 th May, 2023	International Conference on Recent Innovation in Science, Engineering and Technology ICRISSET 2023
37.	20.	Mr. S. D. Khatawkar, Mr. A. A. Urunkar	IPL Score Prediction using Machine Learning	5 th May, 2023	International Conference on Recent Innovation in Science, Engineering and Technology ICRISSET 2023
38.	21.	Mr. S. D. Khatawkar, Mrs. P. S. Patil	Song Recommendation System using Machine Learning	5 th May, 2023	International Conference on Recent Innovation in Science, Engineering and Technology ICRISSET 2023



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39.	22.	Mr. S. D. Khatawkar, Dr. A. N. Jadhav	Food Recognition for Calorie Measurement using Machine Learning	5 th May, 2023	International Conference on Recent Innovation in Science, Engineering and Technology ICRISSET 2023
40.	23.	Mr. S. D. Khatawkar, Dr. A. N. Jadhav	A Review on Mental Health Prediction using Machine Learning Approaches	5 th May, 2023	International Conference on Recent Innovation in Science, Engineering and Technology ICRISSET 2023
41.	24.	Mr. S. D. Khatawkar, Mr. A. R. Pradnyavant	Self-Driving Car	5 th May, 2023	International Conference on Recent Innovation in Science, Engineering and Technology ICRISSET 2023
42.	25.	Mr. S. D. Khatawkar, Mr. A. R. Pradnyavant	Survey paper on Oral Cancer Detection using Machine Learning Approaches	5 th May, 2023	International Conference on Recent Innovation in Science, Engineering and Technology ICRISSET 2023
43.	26.	Mr. S. D. Khatawkar, Mr. P. B. More	Survey paper on Oral Cancer Detection using Machine Learning Approaches	5 th May, 2023	International Conference on Recent Innovation in Science, Engineering and Technology ICRISSET 2023
44.	27.	Mr. S. D. Khatawkar, Mr. A. B. Shikalgar`	Stock Market Analysis using Machine Learning	5 th May, 2023	International Conference on Recent Innovation in Science, Engineering and Technology ICRISSET 2023



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45.	28.	Mr. S. D. Khatawkar, Mr. A. S. Patil	Sustainable Life Cycle Management from Perspective of Machine Learning	5 th May, 2023	ICRISET 2023
46.	29.	Mr. S. D. Khatawkar, Dr. A. N. Jadhav	Wheat Disease Detection using Machine Learning Approches	5 th May, 2023	International Conference on Recent Innovation in Science, Engineering and Technology ICRISSET 2023
47.	30.	Mr. S. D. Khatawkar, Mr. P. B. More	Skin Disease Detection using Machine Learning Model	5 th May, 2023	International Conference on Recent Innovation in Science, Engineering and Technology ICRISSET 2023
48.	31.	Mr. S. D. Khatawkar, Mr. D. R. Patil	Traffice Prediction System using Machine Learning	5 th May, 2023	International Conference on Recent Innovation in Science, Engineering and Technology ICRISSET 2023
49.	32.	Mr. S. D. Khatawkar, Mr. A. S. Patil	Fraud Detection using Machine Learning Approches	5 th May, 2023	International Conference on Recent Innovation in Science, Engineering and Technology ICRISSET 2023
50.	33.	Mr. S. D. Khatawkar, Mrs. T. S. Magdum	Credit Card Fraud Detection using Machine Learning Algorithms	5 th May, 2023	International Conference on Recent Innovation in Science, Engineering and Technology ICRISSET 2023
51.	34.	Mr. S. D. Khatawkar, Mr. A. A. Urunkar	Artificial Intelligence for Sustainability	5 th May, 2023	ICRISET 2023



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52.	35.	Mr. S. D. Khatawkar, Mrs. Shailaja Katti	Handwriting Recognition System using Machine Learning	20 th May, 2023	ICRAET 2023
53.	36.	Mr. S. G. Sutar	Future of Fitness App with Artificial Intelligence	June, 2022	Thirteenth International Conference on Advances in Computing, Control, and Telecommunication Technologies - ACT 2022, Hyderabad, June 27-28, 2022;
Department of Electrical Engineering					
54.	1.	N. M. Jamadar	Reliability assessment of supercapacitor for electric vehicle with Hybrid Energy Storag	January, 2022	Springer
55.	2.	N. M. Jamadar	Evaluation and cost analysis of methods of power supply for irrigation pumps	February, 2022	Springer
56.	3.	S. Gopinath	3-phase multi-inverter with cascaded H-bridge inverter designing and implementation for renewable system	August, 2022	Elsevier
57.	4.	Deepali A. Suryawanshi	Design and development of a novel tuneable electrorheological fluid (ERF) damper-foundation to attenuate residual vibrations in machine tools	December, 2022	Journal of University of Belgrade,
58.	5.	R. Arulmurugan, P. Balakrishnan	An Efficient Modified Z Source Grid Tied Inverter System	December, 2022	Forex
59.	6.	Jyoti Mohan Kharade	Harmonics Mitigation using DQ Transform based Solid State Transformer (SST) for IT and Corporate Buildings	March, 2023	Faculty of Engineering, University of Kragujevac



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60.	7.	S. Gopinath	A symmetric solar photovoltaic inverter to improve power quality using digital pulsewidth modulation approach	April, 2023	Springer
61.	8.	Deepali A. Suryawanshi	An experimental and analytical approach in predicting damped vibration responses of machine tool installed on a tuneable-damper foundation (TDF) via dimension theory	August, 2023	Elsevier
62.	9.	Suraj Deelip Pawar	Comparative Analysis of Controllers and their Optimization using Meta-Heuristic Technique for Photo-Voltaic fed STATCOM	2023	sjcycl
63.	10.	N. M. Jamadar	Effectiveness of supercapacitor during braking operation of electric vehicle	2022	Materials Today: Proceedings
64.	11.	N. M. Jamadar	Fuzzy controlled assistive dynamic brake system for fuel cell electric vehicle	2022	Materials Today: Proceedings
65.	12.	M. D. Patil, V. S. Patil	IoT based prepaid meter and theft control	22-06-2023	AIP Publishing
66.	13.	V. S. Patil, M. D. Patil	Design & analysis of 1- ϕ cascaded H-bridge MLI using level shift PWM technique	22-06-2023	AIP Publishing
67.	14.	A. Patil, S. Patil, S. Pawar, D. Kanse	Supercapacitor powered electric car as virtual power plant	22-06-2023	AIP Publishing
68.	15.	S. V. Patil	Quantified Analysis of Highly Efficient Halide Perovskite Solar Cell	2023	IEEE 8th International Conference for Convergence in Technology (I2CT), Lonavla, India



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69.	16.	Deepali A. Suryawanshi	Dynamic Response Analysis of Electrorheological Fluid (ERF) Machine Mounts Against the Impact Load	05-05-2023	AIP Conference Proceeding
70.	17.	Deepali A. Suryawanshi	An analytical assessment model to assess engineering undergraduates through the program outcomes allied to the affective domain	2023	Conference: International Conference on Technology 4 Education (T4E), IIT Bombay and EdTech Society
71.	18.	Amit B.Jadhav	A Review on Torque and Current Ripple Minimization Techniques in a BLDC Motor Drive for EV Applications	December, 2022	IEEE 4th International Conference on Cybernetics, Cognition and Machine Learning Applications (ICCCMLA)
Department of Aeronautical Engineering					
72.	1.	M. Sivakumar, A.K. Vivekanandan, G. Panomsuwan, V. Veeramani, S.-H. Chen, Z. Jiang, T.Maiyalagan	,Flower-like NiCo2O4 nanoflake surface covered on carbon nanolayer for high-performance electro-oxidation of non-enzymatic glucose biosensor,	December, 2022	Materials Today Chemistry, Volume 101156
73.	2.	Magar, A., Gulawani, S.S., Babu, K.M.K., Pant, R.S.	Numerical Investigation of Laminar to Turbulent Boundary Layer Transition Over Airship Envelopes.	November, 2022	In: Shukla, D. (eds) Lighter Than Air Systems . Lecture Notes in Mechanical Engineering.
74.	3.	Srimath, N., CJ, T. R., & Yuvaraj, S	Comparison Study of Aluminum Camshafts alloyed with different ratio of Silicon.	2022	In IOP Conference Series: Earth and Environmental Science, (Vol. 1100, No. 1, p. 012023).



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75.	4.	Oblisamy L, Sanoj P., Basithrahman A., Harshal Diwate, Yash Mane, Omkar Yadav, Shivtej Rajeshirke	Experimental Testing On Carbon/Basalt Interwoven Fabric to Determine Its Mechanical Properties	March, 2023	, International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 11 Issue III
76.	5.	Reju R, Sanoj P. Suresh, and Sabarishwaran R	Windtunnel Test Of Co-Flow Jet Wing For Lift Enhancement	2023	Proceedings of the 48th National Conference on Fluid Mechanics and Fluid Power (FMFP), , BITS Pilani, Pilani Campus, RJ, India. Fluid Mechanics and Fluid Power (Vol. 1), Lecture Notes in Mechanical Engineering,
77.	6.	Ankita Patil, Saloni Patil, Sakshi Sambare, Oblisamy L., and Basithrahman A.,	Fabrication and Testing of Radar Absorbing Composite Material Using Carbon Fabric Sheet	April, 2023	International Journal of All Research Education and Scientific Methods (IJARESM),
78.	7.	Mohammed Aashiq. S, Sabarishwaran R, Parammasivan K. M., Ramesh M, and Reju R	Experimental and computational investigation on Film cooling effectiveness of Turbine Stator Blade	April, 2023	S. Bhattacharyya and A. C. Benim (eds.), Fluid Mechanics and Fluid Power (Vol. 2), Lecture Notes in Mechanical Engineering,
79.	8.	Sabarishwaran R, Parammasivan K. M., and Reju R,	Numerical investigation of drag reduction in AUV's at high turbulence and high-speed flow by optimizing hull geometry	April, 2023	S. Bhattacharyya and A. C. Benim (eds.), Fluid Mechanics and Fluid Power (Vol. 2), Lecture Notes in Mechanical Engineering,



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Department of Civil Engineering					
80.	1.	Mr. P. A. Mali, Mr. R. V. Jadhav	JIT-(Just in Time) Implementation In Inventory Control of Construction Project	January, 2023	Science Press
81.	2.	Mr. K. K. Shinde, Mr. B. V. Mane	Research study on Soil Structure Interaction of Integrated Earth Retaining Wall: A Review	Nov 2022	IRJET
82.	3.	Dr. P. B. Bhagawati	Electrosorption of Hexavalent Chromium Ions by MnO ₂ /Carbon Fiber Composite Electrode: Analysis and Optimization of the Process by Box-Behnken Design	30-03-2023	University of Baghdad
83.	4.	Dr.S. S. Mohite Ms. V. A. Lande	Design of Castellated Column in Finite Element Analysis	February,2023	IJRASET
84.	5.	Dr. S. S. Mohite Ms. V. A. Lande	Analysis of Castellated Column and Its Buckling Behaviour	April, 2023	IJERD
85.	6.	Dr. A. P. Patil	Improving bearing capacity of soil by incorporating waste tyre	05 May, 2023	AIP Publishing
86.	7.	Mr. A. G. Mujawar, Mr. R. A. Chougale	Vibrational analysis of composite laminated shell: A review	05 May, 2023	AIP Publishing
87.	8.	Dr. S. S. Mohite, Mr. B. V. Mane	Finite element analysis of bi- axially loaded high performance slender columns and preparing interaction curves	05 May, 2023	AIP Publishing
88.	9.	Mr. B. V. Mane	Analysis of slender reinforced high performance concrete columns using ANSYS software	05 May, 2023	AIP Publishing
89.	10.	Dr. M. B. Nadaf, Mr. A. D. Patil, Mr. R. A. Chougale	Model studies on soft rock using socketed pile	05 May, 2023	AIP Publishing



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90.	11.	Mr. K. K. Shinde	Shear performance of reinforce concrete beams strengthened with various configurations of FRP system: A review	05 May, 2023	AIP Publishing
91.	12.	Dr. M. H. Mota, Dr. P. B. Bhagawati, Mr. S. B. Hivarekar	Optimizing the overall performance of rapid sand filter by filter conditioning and altering media configuration	05 May, 2023	AIP Publishing
92.	13.	Mr. R. R. Kurlapkar, Mr. R. A. Chougale, Mr. A. G. Mujawar, Mr. K. K. Shinde, Mr. A. D. Patil	Comparative Study of Seismic Response for Steel Building Using Steel Bracing System and Fluid Viscous Damper System	05 May, 2023	AIP Publishing
Department of Food Technology					
93.	1.	Mr. Kishor K. Giram	Emerging trends in bioinformatics for agriculture food and health	March, 2023	
Department of Basic Science					
94.	1.	Mr. M. D. Patil	Importance of Making of Students' E-Portfolio to the First Year Engineering and Technology Students	July 2022	IJRAR
95.	2.	Mr. M. D. Patil	Importance of Forming the English Communication Club At Entry Level of Engineering Graduation For Rural Indian Students	August 2022	IJIRIT
96.	3.	Mr. A. A. Patil	Barriers in Teaching –Learning process	August 2022	IJIRIT
97.	4.	Mr. R. B. Deshmukh	Ferrites gas sensors: A Review	August 2022	Physics and Chemistry of Solid State
98.	5.	Ms. S. B. Barge	Anti Fuzzy Linear Spaces	2022	Journal of Hyperstructures



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99.	6.	Dr. S.B. Mali	Digital Education and Role of Teacher	Decemeber, 2022	GIMRJ
100.	7.	Mr. A.A. Patil	Ethnic Violence in the Poems of Jean Arasanayagam	April,2023	NEW ACADEMIA: An International Journal of English Language, Literature and Literary Theory
101.	8.	Dr. S. B. Mali	Challenges in Teaching English Language and Literature in Classrooms	April,2023	NEW ACADEMIA: An International Journal of English Language, Literature and Literary Theory
102.	9.	Dr. S. B. Mali	Afrocentrisim : A Theory Redefining African Culture and Historical Experiences	2023	Rabindra Bharati Journal of Philosophy
103.	10.	Mr. M.D. Patil	Importance of Confidence and Attitude, Body Language, Thought Structure, Voice Modulation and Fluency in Public Speaking Effort	April,2023	NEW ACADEMIA: An International Journal of English Language, Literature and Literary Theory