



Annasaheb Dange College of Engineering and Technology, Ashta
 (An Empowered Autonomous Institute affiliated to Shivaji University, Kolhapur)
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Office of Dean Research, Innovation and Startups



Institution's Innovation Council

Faculty Publications

Sr.No	Year	International Journal	National Journal	International Conference	National Conference	Book	Book Chapter	Total
1.	2025-26	86	02	88	04	03	09	192
2.	2024-25	77	01	48	03	03	03	135
3.	2023-24	61	01	21	07	01	05	96
4.	2022-23	52	00	50	01	00	00	103

Faculty Publications Indexing

Year	SCI/SCIE	ESCI	SCOPUS	Total
2025	29	06	69	104
2024	15	04	58	77
2023	11	04	50	65
2022	06	03	69	78

Citations

Year	Web of Science	SCOPUS	Google Scholar
2025	314	883	917
2024	254	754	791
2023	160	591	604
2022	152	407	556

Dr. Amol S. Dange
 Dean, Research, Innovation & Startups



Dr. Laxman Y. Waghmode
 Director

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Faculty Publication A.Y.- 2025-26- International Journals

Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
Department of Mechanical Engineering					
1.	1.	Dr. Rahul R.Gaji	Optimizing pump as turbine efficiency through blade profile modification and combined strategies: A comprehensive CFD analysis	December,2025	Taylor and Francis
2.	2.	Dr. S. V. Nishandar	Numerical and Experimental Investigation of Heat Transfer Augmentation in Roughened Pipes	September,2025	Novosibirsk State Technical University (NSTU), Russia
3.	3.	Mr. Tejas Vilas Kadam	Performance Analysis of Solar Thermal Collectors: A Comprehensive Review	July,2025	Elsevier Ltd
4.	4.	Dr. A.G.Sanadi	Various active methods to augment the yield of solar still: A mini review	25-11-2025	
5.	5.	Girish B. Pawar, Pritam V. Mali	Comparative Study on CFD-Based Performance Optimization of Butterfly Valve Through Geometric Modifications for Pressure-Drop Reduction	07-11-2025	John Wiley & Sons Inc.
6.	6.	Dr. Anil R Kadam	Impact of enhanced oxygen levels on cyclic variability and performance parameters in a diesel engine fuelled by food waste-derived biogas	23-09-2025	Elsevier Ltd
7.	7.	Dr. Prasad D Kulkarni	Exploring the Effects of the Design of Experiments Technique on the Biodiesel Production from Tung Oil	01-08-2025	Engineering, Technology & Applied Science Research
8.	8.	Dr. Prasad D Kulkarni	Optimization of inner panel thickness for enhanced stiffness and vibration control in car door assemblies	13-11-2025	PLOS Journal



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Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
9.	9.	Mr. S. V. Patil	Development and Performance Evaluation of Viscous Jaggery Filling Low-Cost Automation Workstation	November,2025	Indian Society For Technical Education
10.	10.	Dr. Pankaj B. Gavali	Comprehensive Experimental Analysis of Electrochemical Jet Machining (ECJM) for Advanced Material Processing	16-07-2025	MDPI
11.	11.	Dr. Pankaj B. Gavali	Symmetry-Based Evaluation of Tool Coating Effects on the Machining Behavior of Ti-6Al-4V Using Micro-EDM	11-11-2025	MDPI
12.	12.	Dr. Pankaj B. Gavali	Characterization of Li-ion battery and state of charge Estimation methods for diverse battery chemistries: a review	03-12-2025	Springer Nature
13.	13.	Dr. Pankaj B. Gavali	Finite Element Method-Based Modeling of Tungsten Inert Gas Welding: Evaluating Copper Backup Plate Effects on 304L Steel	16-07-2025	Wiley-VCH GmbH, Weinheim
14.	14.	Dr. Pankaj B. Gavali	Fabrication of Silicon Rubber - Ferrofluid Composite Actuator	25-07-2025	Hanoi University of Science and Technology (HUST)
15.	15.	Dr. Prasad D Kulkarni	Development and Implementation of an Automated Cattle Feeding System using Cost-Effective Automation Techniques	12 th May, 2026	Engineered Science
Department of Computer Science Engineering					
16.	1.	Dr. Anisa B Shiikalgar	Agriculture crop yield forecasting using relief based feature selection and KHO-KHO optimization approach for deep residual fuzzy encoders	30-10-2025	Springer

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Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
17.	2.	Mrs Nasim Husen Sayyad	Agriculture crop yield forecasting using relief based feature selection and KHO-KHO optimization approach for deep residual fuzzy encoders	30-10-2025	Springer
18.	3.	Shrihari D Khatawkar	Quantum-Enhanced Big Data Analytics for Climate Change Predictions: A Scalable Solution for Global Challenges	11-01-2025	Informatics Publishing Limited and Books & Journals Private Ltd.
19.	4.	Dr. B. A. Jadhawar	Modified UNET for Liver Segmentation	01-12-2025	International Journal of applied bioanalysis
20.	5.	Shrihari D Khatawkar	Federated Learning for Privacy-Preserving Intrusion Detection: A Systematic Review, Taxonomy, Challenges and Future Directions	02-01-2026	Journal of Information Systems and Telecommunication (JIST)
21.	6.	Mr. Yogesh S. Lubal	IoT-Enabled Systems for Smart Monitoring of Mining Operations	02-06-2025	International Journals of Environmental Sciences
22.	7.	Mr. Pravin B. More	A Survey on Privacy Preservation Techniques in Social Clustering via Federated Learning and Deep Learning	14-03-2026	World Scientific Connect
23.	8.	Dr. Amol S Dange	Dispersed Nymble System for Network Security and Anonymization	2025	Journal of Technology, International Peer Reviewed & Refereed. Open Access Journal
24.	9.	Dr. Suhel S Sayyad	Intrusion Detection System for Iot Devices Using CNN-LSTM Based Hybrid Framework	September-December, 2025	Mantech

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Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
25.	10.	Dr.Arifa Javid Shikalgar	Multiple Sclerosis MR Images Denoising Model for Accurate Classification Using Convolution Neural Network	30 th November,2025	Little Lion Scientific
26.	11.	Dr. Arifa Javid Shikalgar	Hybrid Optimization and Ensemble Deep Learning Framework for Efficient Anomaly-Based Intrusion Detection in IoT Networks	July, 2025	Springer Nature
27.	12.	Arati S. Nishandar	Integrating Flipped Classroom with Snowballing: A Hybrid Approach for Active Learning in Engineering Education	2 nd February, 2026	Journal of Teaching Learning(JTL).
28.	13.	Dr. Sachin Popat Patil	SafeRoute.AI: AI-Based Dynamic Urban Safety Navigator	January, 2026	PSNA Journals
29.	14.	Dr. Sachin Popat Patil	Minimizing Data Access Time in Cloud Computing: A User Profile-Based Approach	July,2025	Solaris Publication, India
30.	15.	Dr. Sachin Popat Patil	A Privacy-Preserving Cloud Storage Framework with Attribute-Based Access Control, Data Fragmentation, and Encryption Performance Analysis	October,2025	Fast Track Publications, India
Department of Electrical Engineering					
31.	1.	Dr. Manoj D. Patil	Electrical Power Theft Detection and Monitoring Using Innovative Technique	August,2025	Informatics Publishing Limited & Journals
32.	2.	Dr. Manoj D. Patil	Comprehensive Analysis of Solar Photovoltaic System Power Inverter Topologies	July,2025	Informatics Publishing Limited & Journals

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Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
33.	3.	Dr. Manoj D. Patil	The Role of Nano Materials in the Numerous Areas of Manufacturing	August,2025	Informatics Publishing Limited & Journals
34.	4.	Dr.N.Vengadachalam	Integrated MPPT and bidirectional DC DC converter with reduced switch multilevel inverters for electric vehicles applications	July,2025	Nature Publishing Group UK
35.	5.	Dr.N.Vengadachalam	Small-signal stability analysis using kookaburra optimization for a wind turbine with a doubly fed induction generator	September,2025	Taylor & Francis
36.	6.	Dr.N.Vengadachalam	Hybrid Starfish Optimization and Graph Attention Fusion Network for efficient energy management in photovoltaic-integrated smart grids	January,2026	Elsevier
37.	7.	Dr.N.Vengadachalam	Enhanced Lithium-Ion Battery Health Prognosis for Electric Vehicles Using Complex-Valued Spatio-Temporal Graph Convolutional Neural Networks and Bitterling Fish Optimization Algorithm	December, 2025	Elsevier
38.	8.	Mr. Santosh V. Patil	Unravelling the Impact of Material Parameters on Performance of Perovskite Photovoltaics through Multiscale Simulations	29-09-2025	IEEE Journal of Quantum Electronics
39.	9.	Prashant S. Mali	Comparative study between performance of PMSM and SRM motor for Electric Vehicle Application	July, 2025	Springer

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40.	10.	Dr.S.Gopinath	Dynamic cell charging and Temperature-Based Redistribution Strategy for battery management in solar electric vehicles	September,2025	Taylor and Francis
41.	11.	Dr.Suraj D.Pawar, Mr.Gajkumar R. Kavathekar	Dielectric Breakdown and Electrical Aging of Insulating Polymer Materials in High Voltage Systems	2025	STM Journals
42.	12.	Dr.Jyoti M.Kharade	Power Quality Survey of IT and Corporate Buildings in Maharashtra	2025	Engineering Sciences (Scopus)
43.	13.	Mrs. Rutuja Suraj Pawar	EV BMS With Charge Monitor and Fire Protection	May, 2026	MAT Journals
44.	14.	Dr.Suraj D.Pawar	An Integrated Simulation Framework for Predicting Dielectric Breakdown and Electrical Aging in Epoxy-Silica Composite Insulation Systems	2026	STM Journals
45.	15.	Dr.S.Gopinath	Energy management Systems for solar electric vehicles: Architectures, control strategies and future research directions	06-06-2026	Sage Journal
46.	16.	Rajendra B. Madake, Manoj D. Patil, Prashant S. Mali, Rutuja S. Pawar and Suraj Pawar.	Polymer Encapsulants for Photovoltaic Modules: Electrical Insulation Performance and Long-Term Durability under Accelerated UV Exposure	08-05-2026	STM Journals
47.	17.	Dr.Suraj D.Pawar	Modified SVC Topology for Dynamic and Static Rective Power Compensation with Thyristor Binary Switched Capacitor and Reactor	22 nd March, 2026	

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Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
Department of Aeronautical Engineering					
48.	1.	Dr.P.Kaleswaran	Experimental investigation of the impact of cross-wire fitted CD nozzle on supersonic flow field	11-08-2025	Sage Publications
49.	2.	Dr.P.Kaleswaran	CFD Analysis on Jet Decay Characteristics of Supersonic Jet through a CD Nozzle with a Cross-Wire	30-12-2025	Carbon Magics Ltd
50.	3.	Yogesh B. Kumbhar	Numerical Investigation of Heat Transfer Enhancement In Fin-Tube Heat	10 th -12 th October,2025	1 st International Conference on Thermofluids Engineering October 10-12, 2025.
51.	4.	Mr.Sanoj P Suresh	Exchangers Using Curved Winglet Vortex Generators	09-12-2025	De Gruyter
52.	5.	Mr. Basith Rahman A & Mr. Oblisamy L	Performance enhancement of ternary epoxy hybrid composites with rice husk bio-filler	30-10-2025	International Polymer Processing
53.	6.	Dr.K.M.Kiran Babu	Book on Lighter Than Air Systems	30-09-2025	Springer Singapore
54.	7.	Dr. Sakthipriya Balu	Thermal-Hydraulic Performance and Material Sensitivity Analysis of Microchannel Heat Exchangers with AI-Based Condition Monitoring Framework for Radar TRM Cooling system	30-05-2025	Wiley

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Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
Department of Civil Engineering					
55.	1.	Mr. Pritam A. Mali Mr. Sumit B. Khot	Swat-Based Hydrological Assessment of The Wainganga River Catchment	July,2025	Water Conservation & Management (WCM)
56.	2.	Mr. Pritam A. Mali	Stabilization of Black Cotton Soil by Using Waste Material for Road Construction	July,2025	International Journal on Science and Technology (IJSAT)
57.	3.	Mr. Sumit B. Khot	Optimizing Housing Quality: Integrating Six Sigma And Traditional Approaches To Minimize Construction Defects	December,2025	Journal of Emerging Technologies and Innovative Research
58.	4.	Dr. S. B. Hivarekar, Mr. P. A. Pisal	Synthesis and Characterization of Composite Eco-Bricks from Waste Plastic, Foundry Sand, and Boiler Ash: A Novel Approach to Sustainable Construction Materials	July-December 2025	IJMSI
59.	5.	Dr. S. B. Hivarekar, Mr. P. A. Pisal	Assessment of Leachate Impact on Ground Water and Soil Quality Near Kasabe Digraj Dumping Site, Sangli, Maharashtra, India	July-December 2025	IJMSI
60.	6.	Dr. S. B. Hivarekar, Mr. P. A. Pisal	Performance Evaluation of Locally Fabricated Point-of-Use (PoU) Clay Filters with Organic Additives for Turbidity Removal in Rural Household Water Treatment	July-December 2025	IJMSI
61.	7.	Dr. V. A. Lande	Experimental Assessment of Bond Behavior and Structural Performance of High-Strength Concrete Beam-Column Joints under Static Load	January,2026	ISJEM

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Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
62.	8.	Dr. S. N. Tande, Mrs. P. R. Bhosale	Performance Evaluation of Multiple Tuned Mass Dampers for Seismic Vibration Control of Multi-Storey Structures	February, 2026	IJSATE
Department of Food Technology					
63.	1.	Dr. Jagruti Jankar	Residue Profiling Of Metrafenone In Grapes Through LC-MS/MS Analysis	September, 2025	Asian Scholars Publishing House (ASPH)
64.	2.	Dr. Jagruti Jankar	An AI-Powered Food Safety Guide For Pregnant Women	April, 2026	Innovative Research Publication Center
Department of Artificial Intelligence & Data Science					
65.	1.	Dr. Asma A. Shaikh	Intrusion Detection System for IoT Devices Using CNN-LSTM Based Hybrid Framework	September, 2025	Mantech Publication
66.	2.	Dr. Asma A. Shaikh	Deep-feed: An Internet of Things-enabled Smart Feeding System for Pets Powered by Deep Learning	June, 2025	IJRA
67.	3.	Dr. Asma A. Shaikh	Intrusion Detection Systems for IoT Networks: A Comprehensive Review and Conceptual Framework	13-08-2025	International Journal For Multidisciplinary Research (India)
68.	4.	Dr. Asma A. Shaikh	Android Face Recognition Based Attendance Management Application	May-June, 2025	International Journal for Multidisciplinary Research (IJFMR), India
69.	5.	Mrs. Priyanka S. Patil	Comparative Study on CFD-Based Performance Optimization of Butterfly Valve Through Geometric Modifications for Pressure-Drop Reduction	07-11-2025	John Wiley & Sons Inc.

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70.	6.	Mrs.Priyanka P Suryawanshi	PREPRO+: Smart Data Preprocessing Techniques for Machine Learning	08-01-2026	Indian Journal of Technical Education (IJTE), New Delhi. ISTE Global Techno 2026
Department of Department of Computer Science (IoT & Cyber Security Including Block Chain Technology)					
71.	1.	Dr.Tahseen Mulla	Agriculture crop yield forecasting using relief based feature selection and KHO-KHO optimization approach for deep residual fuzzy encoders	30-10-2025	Springer
72.	2.	Dr.Tahseen Mulla	Early detection of Multi-Class Alzheimer's disease using Hybrid capsule auto encoder model	December,2025	Elsevier
73.	3.	Dr. Madhav J. Salunkhe	Federated Learning for Privacy-Preserving Intrusion Detection: A Systematic Review, Taxonomy, Challenges and Future Directions	February, 2026	Journal of Information Systems and Telecommunication (JIST)
74.	4.	Mr Samish N Kamble	Smart Tree Net: Hybrid And Entropy-Driven Machine Learning For High-Performance SDN Packet Classification	15-08-2025	IJAM
75.	5.	Dr.Sunita Sunil Shinde	Hybrid Optimization and Ensemble Deep Learning Framework for Efficient Anomaly-Based Intrusion Detection in IoT Networks	12-07-2025	Springer Nature
76.	6.	Mr.K.M.Dange	Deep Learning Approaches to Chronic Venous Disease Classification	18-12-2025	MDPI

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Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
Department of Basic Science					
77.	1.	Mrs Savita S. Mohite	Non destructive testing and finite element analysis of steel plate used to encased columns	2025	Research index publication
78.	2.	Mr.Aniket A. Patil	A Fragmented Self in Domestic situations in the selected Poems of Jean Arasanayagam.	31-08-2025	In Sight Bulletin: A Multidisciplinary Interlink International Research Journal (IBMIIRJ)
79.	3.	Dr. Pradnya G. Raje	Enhancing the performance of supercapacitors with chemically synthesized spinel magnesium ferrite: investigating the influence of current collectors	10-09-2025	Springer
80.	4.	Dr. Santosh S. Desai	Full rationality of fuzzy choice functions through indicators	2025	Iranian Journal of fuzzy Systems
81.	5.	Mr. Rahul B. Deshmukh	Spin-Coating Synthesis of ZnO Thin Films for Hydrogen Gas Sensing Applications	2025	Elsevier
82.	6.	Mr. Ziyauddin D. Sande	Applications of Fourier Series in analyzing Torque and Torque Ripples in a DC Motor	2025	Springer Science Business Media
83.	7.	Mrs. Surekha D. Mane	Impact of Microwave Heat Treatment on the Structural, Electrical, and Magnetic properties of Nd ³⁺ Doped Mg-Co-Cd Nanoferrites	2025	Springer Science Business Media, ASM International

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Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
Department of Bachelor of Computer Application					
84.	1.	Mrs.Ketaki R.Ghorpade	Cyber Security in the Digital Era: Frameworks, Applications, Challenges, and Emerging Intelligent Solutions	02-02-2026	International Journal of Innovative Research in Science Engineering and Technology (IJIRSET)
Department of Bachelor of Business Administration					
85.	1.	Mrs.Vilobha.K. Rukade	An Analytical Study of ESG Disclosure Trends in Automobile and IT Companies.	May, 2026	Advances in Consumer Research
86.	2.	Mrs.Vilobha.K. Rukade	A study of effectiveness of Artificial Intelligence on Recruitment and Selection Process in IT Firms	May, 2026	The Journal of Asia Entrepreneurship and Sustainability

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Faculty Publications A.Y. 2025-26 –International Conferences

Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
Department of Mechanical Engineering					
1.	1.	Mr. Ghanashyam M. Chendke	Drugs Consumption Analysis System Using Blockchain	30-10-2025	IEEE
2.	2.	Yuvaraj P. Ballal	Optimization of Electrochemical Machining Parameters for Inconel 718 Using Al ₂ O ₃ Nanoparticles and Machine Learning Techniques	25 th -28 th November, 2031	The 11th International Conference of Asian Society for Precision Engineering and Nanotechnology (ASPEN 2025) New Taipei City, Taiwan
3.	3.	Dr. Pankaj B. Gavali	Performance Investigation of Micro Tools Coated With Carbon Nanotubes and Graphene in Micro-Electro Discharge Machining Process	10 th -13 th September, 2025	ASME
4.	4.	Dr. Pankaj B. Gavali, Mr. Santosh T. Ghutukade	Comparative Analysis of Quantum and Classical Regression Models for Predicting in Powder Mixed Electrical Discharge Machining for Material Removal Rate	19 th -21 st September, 2025	IEEE Explore
5.	5.	Dr. Pankaj B. Gavali	A Comprehensive Review on Thin-Film Coated Tool Electrodes for Enhanced Electrical Discharge Machining (EDM) Performance	26-10-2025	Springer, Singapore
6.	6.	Dr. Pankaj B. Gavali	Performance of Graphene in Electro Discharge Machining Processes to Enhance Machining of Ti-6Al-4V	11 th -13 th December, 2025	AIMTDR 2025
7.	7.	Dr. Pankaj B. Gavali	Precise Machining of Aerospace Materials Using Sustainable Dielectric Medium in Electro Discharge Machining Process	25 th -28 th November, 2025	ASPEN 2025

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Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
8.	8.	Mr. Ajit Mane	Flow Characterization of choked and unchoked flow in Helical capillary tube for a transcritical CO ₂ system	10 th -12 th October,2025	Indian Institute of Technology (Indian School of Mines) Dhanbad Dhanbad, India
9.	9.	Mr. Anand G. Koparde	Parametric Analysis and SLM Process Optimization for Enhancement of Tensile Strength in Ti6Al4V	16 th -18 th January,2026	IC-FAMMT
10.	10.	Mr. Anand G. Koparde	Influence of SLM Process Variables on Density and Hardness of Ti-6Al-4V Using Experimental and Statistical Approaches		IC-SMART-2026"
11.	11.	Mr. P. B. Patil	Friction stir welding of polymers paper : A comprehensive study and analysis of Mechanical properties and influential process parameters	23 rd -24 th March,2026	Rever Publishers
12.	12.	Ganesh Rakate, Pankaj Gavali, Manoj Jadhav, Santosh Ghutukade, Tejas Kadam	Spray Drift Optimisation in Spinning Disc Sprayers Using Machine Learning	26 th -27 th June, 2026	Springer
13.	13.	Dr. Pravin Gawade	LSTM-Based Prediction and Analysis of Erosion Behaviour in Thermal Sprayed WC-CrC-Ni-Al ₂ O ₃ Coatings	26 th -27 th June, 2026	Springer
Department of Computer Science					
14.	1.	Dr.Anisa B Shiikalgar	Sugarcane Disease Detection: A Machine Learning-Based Image Dataset for Precision Agriculture	04-09-2025	IEEE
15.	2.	Shrihari D Khatawkar	RicNet: Enhancing Rice Leaf Disease Detection Through Optimized Convolutional Neural Network Architectures and Dropout Configurations	04-04-2025	Springer Nature Switzerland

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Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
16.	3.	Arati S. Nishandar	Trends and Techniques in Medical Image Encryption: A Multi-Dimensional Analytical Framework	2025	International Conference on Future Technologies (ICFT-2025) –IEEE
17.	4.	Krantikumar R. Mhetar	An Interpretable Deep Learning Pipeline for Lane Segmentation and Turning Direction Inference Via Polynomial Curve Modeling	30-01-2026	IEEE
18.	5.	Sanchit S. Mahajan	Quantum ML Workload Prediction and Categorization in Cloud Computing: A Deep Learning and Birds of Prey-Narwhal Hybrid Optimization	2026	International Conference on Recent Trends in Engineering And Technology (ICRTET 2026)
19.	6.	Tabbasum.A.Walandkar	Analysis fo smart traffic flow for autonomus vehicles	01-11-2025	Springer
20.	7.	Shrihari D Khatawkar	From Fault Detection to RUL Prediction: A Review of Machine Learning Techniques in Motor Health Monitoring	01-12-2025	International Conference on "Cutting Edge Technologies in Advanced Computing" 14 - 15 November 2025
21.	8.	Mr. Yogesh S. Lubal	Sustainable Healthcare Systems Through Arduino-Driven Medical Waste Segregation and Disposal Monitoring	02-01-2026	Springer Nature
22.	9.	Mr. Pravin B. More	Drugs Consumption Analysis System Using Blockchain	28-08-2025	IEEE
23.	10.	Mr. Pravin B. More	Identifying Political Hate Speech using Transformer-based Approach	27-06-2025	IEEE
24.	11.	Mr. Pravin B. More	A Conversational AI Solution for Smart Agriculture and Enhanced Crop Performance	30-08-2025	Springer
25.	12.	Dr. Sandeep G. Sutar	NLP and Explainable AI for Clinical Decision Support: A Comprehensive Review with Emerging Quantum Perspectives	11 th -13 th October,2025	IEEE

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Institution's Innovation Council

Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
26.	13.	Mr. Vishal A. Kamble	Explainable AI in Healthcare: Revolutionizing Diagnostics with Accuracy and Ethical Transparency		IEEE
27.	14.	Mr. Swapnil R. Kadam	AI-Driven and Optimization-Based Techniques for Resource Allocation and Scheduling in Cloud Computing: A Short Review		ICRTET -2025
28.	15.	Dr. Amol S Dange	Development of an Intelligent System for Sickle Cell Disease Detection Using Deep Learning Techniques	26 th -27 th September, 2025	2nd International Conference on Business Intelligence, Computational Mathematics, and Data Analytics (IBCD 2025)
29..	16.	Dr. Amol S Dange	A Comprehensive Review of Quantum Machine Learning: Frameworks, Algorithms, Challenges and Future Directions	4 th -5 th July, 2025	IEEE
30.	17.	Dr. Suhel S Sayyad	Digital Twin of Hydropower Plant	19-09-2025	IEEE
31.	18.	Dr. Anita Patil	Performance Analysis of CNN and Hybrid Deep Learning Models for automated violence detection in video stream	22 nd -24 th November 2025	IEEE
32.	19.	Dr. Anita Patil	Identification of Speech Emotion from Audio Using Deep Learning Models	February, 2026	Springer Nature

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Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
33.	20.	Mrs. Ashwini S. Chavan	Refining Predictive Learning Models Through Adaptive Feature Selection in Educational Data Analysis	21 st January, 2026	IEEE
Department of Electrical Engineering					
34.	1.	Dr. Manoj D. Patil Dr. Rajendra B. Madake	Sustainable Mobility Through Retrofitting: Converting Conventional Scooters into Electric Commuters	December, 2025	International Conference on Innovations and Challenges in Electric Vehicle & Smart Grid Technologies
35.	2.	Ms. Vidya S. Patil	AI-Enabled Smart Grid-Connected Solar Inverter with IoT-Based Fault Detection and Load Forecasting	30th, 31st October & 1st November, 2025	International Conference on Integrated Research and Sustainable Development (ICIRSD-2025)
36.	3.	Mr. Santosh V. Patil	Effect of Defect Concentration on Photovoltaic Cell and Module	2025	Advances in Photonics and Electronics: Innovations for Smart and Sustainable Development
37.	4.	Mr. Asif L. Jamadar	Mitigation of Voltage Sag and Swell with PV Based Electric Spring	2025	2025 International Conference on Future Technologies (ICFT)
38.	5.	Mr. Nileshkumar J. Kumbhar	GSM based remote energy meter with load control and mobile billing	2025	Integrated Research and Sustainable Development (ICIRSD-2025)
39.	6.	Dr. Nilam Sandip Patil	Design and Development of Solar based water purification and off-grid energy Utility System	2025	Springer
40.	7.	Mr. Shital S. Bhosale	Optimized Bidirectional DC to DC Converter for Solar PV Application	2025	Integrated Research and Sustainable Development (ICIRSD-2025)

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Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
41.	8.	Dr.S.Gopinath	Voltage Sensing Based Open Switch Fault Detection in Five Level Modified CHB Multilevel Inverter	September,2025	2nd Int. Conf. Integration of Computational Intelligent Systems (ICICIS),
42..	9.	Dr.S.Gopinath	Comparative Analysis of Hybrid Energy Storage System Topologies for Electric Vehicles: Integrating Batteries and Supercapacitors	November,2025	International Conference on Future Technologies (ICFT2025)
43.	10.	Dr.N.Vengadachalam	Super Twisting Sliding Mode Controlled Interleaved Boost Converter for Ev Charging Application	December,2025	IEEE
44.	11.	Ms. Deepali A.Suryawanshi	Design and Implementatioon of a Closed Loop Buck- Boost Converter for EV application	2025	International Conference on Integrated Research and Sustainable Development (ICIRSD-2025)
45.	12.	Mrs. Deepali A. Suryawanshi	Simulation Base Industrial waste Water Driven Pico Hydro Power Based Charging station for Battery Powered Appliances.		Renewable Energy Potential for Sustainable Initiatives -2026
46.	13.	Mrs.Komal N.Jadhav	Floating Capacitor Integrated DAB for Wireless Charging Application.	30 th , 31 st October & 1 st November, 2025	International Conference on Integrated Research and Sustainable Development (ICIRSD-2025)
47.	14.	Mrs.Komal N.Jadhav	Smart PIC controlled milk dispensing system with precision flow measurement for small scale dairy farms	30 th -31 st October & 1 st November, 2025	International Conference on Integrated Research and Sustainable Development (ICIRSD-2025)

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Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
48.	15.	Mrs.Tejal Shivaji Bandgar	Hybrid power system with integration of wind,battery and solar PV system	19 th -20 th December, 2025	International Conference on Convergence of Technologies for Viksit Bharat (ICCTVB -2025)
49.	16.	Mr.Ansar S. Mulani	Microgrid Energy Management System For Smart Home Using Multi-Agent System	19 th -20 th December, 2025	International Conference on Convergence of Technologies for Viksit Bharat (ICCTVB -2025)
50.	17.	Ms.Nilofar Shamshuddin Mulla	"Comparative Analysis between Conventional Cascaded Multilevel Inverter and Multilevel DC link Inverter for PV Cell based application"	19 th -20 th December, 2025	International Conference on Convergence of Technologies for Viksit Bharat (ICCTVB -2025)
51.	18.	Mrs. Akshata S. Patil	"Development of a Weather Station Using IoT Platform Based Micro-controller Integrated With a Control System for Smart Agriculture Applications"	19 th -20 th December, 2025	International Conference on Convergence of Technologies for Viksit Bharat (ICCTVB -2025)
52.	19.	Mr.Suhel Kaisar Shaikh	Design of Solar Powered Electric Vehicle Charging Station	19 th -20 th December, 2025	International Conference on Convergence of Technologies for Viksit Bharat (ICCTVB -2025)
53.	20.	Dr.V.Subha Seethalakshmi	Stacked switch pair based EV Charger with reduced capacitance	19 th -20 th December, 2025	International Conference on Convergence of Technologies for Viksit Bharat (ICCTVB -2025)
54.	21.	Mr. Pandurang Mahadev Pujari	AI-Based Arc Fault Detection in Electrical Distribution Systems	30th-31st October & 1st November, 2025	International Conference on Integrated Research and Sustainable Development (ICIRSD - 2025)
55..	22.	Mr. Indrajit Dattatray Pharne	Cell and module level modelling of Cs4CuSb2Cl12 based lead -free solar photovoltaics using SCAPS-1D and SAM	26-11-2025	CRC Press

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56.	23	Ms.Manali P.Thorushe	Control And Monitoring of Electrical Drive for EV Applications	30th-31st October & 1st November, 2025	International Conference on Integrated Research and Sustainable Development (ICIRSD - 2025)
57.	24.	Mr. Rohit Vasant Patil	IOT Enabled EV Charging System with BMS Integrated Predictive Maintenance and Cloud Monitoring	19 th -20 th December, 2025	International Conference on Convergence of Technologies for Viksit Bharat (ICCTVB -2025)
58.	25.	Dr. Nilam Sandip Patil	Implementation of Human following trolley using RFID with Automated Product Scanning	19 th -20 th December,2025	ICCTVB-2025
59.	26.	Mr. More Pandurang. D	"Optimization Of Energy Sources for Electrical Vehicle Using Ultracapacitor"	19th-20th December, 2025	International Conference on Convergence of Technologies for Viksit Bharat (ICCTVB -2025)
60.	27.	Dr. Nilam Sandip Patil	Implementation of Human following trolley using RFID with Automated Product Scanning	19 th -20 th December,2025	ICCTVB-2025
61.	28.	Dr.S.Gopinath	Adaptive Switched - Inductor - Capacitor Based Boost Converter for Enabling High - Gain PV Microgrids,		2026 3rd International Conference on Advancements and Key Challenges in Green Energy and Computing (AKGEC), Ghaziabad, India, 2026, pp. 1-6,
Department of Aeronautical Engineering					
62.	1.	Dr.S.Sendhil Kumar	Numerical & Experimental Investigation of Bolted Joints considering the Effect of Vibration	23 rd -25 th March, 2026	1st International Conference on Mechanics, Materials and Mechatronics (ICM ³ 2026)

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Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
63.	2.	Mr. Sanoj P Suresh	Learning Dynamics of Neural Network-Based Inverse Aerodynamic Modeling Across Geometric Parameterizations	16 th -18 th January, 2026	3rd International Conference on Futuristic Advancements in Materials, Manufacturing and Thermal Sciences (ICFAMMT-2026),
64.	3.	Mr. Y. B. Kumbhar	CFD Analysis of Heat Transfer Enhancement in Fin-Tube Heat Exchanger	22 nd -23 rd December, 2025	International Conference on Smart Mechanical Systems for Sustainability (ICSMSS 2025)
65.	4.	Mr. Y. B. Kumbhar	Numerical Investigation of Heat Transfer Enhancement In Fin-Tube Heat Exchangers Using Curved Winglet Vortex Generators	10 th -12 th October, 2025	1st International Conference on Thermofluids Engineering
Department of Civil Engineering					
66.	1.	Dr. V. A. Lande	Durability Performance of Concrete Incorporating Waste Glass Powder under Chloride And Sulphate Exposure	2025	International Conference on Integrated Research & Sustainable Development ICIRSD -2025
67.	2.	Dr. V. A. Lande	Experimental Assessment of Bond Behavior and Structural Performance of High-Strength Concrete Beam-Column Joints	2025	International Conference on Integrated Research & Sustainable Development ICIRSD -2025
68.	3.	Dr. V. A. Lande	Comparative Analysis of Thermal Profiles in Rural and Urban Areas wing DAV Thermal Mapping: A Case Study of Bhadkambe and Mira Bhayandar	2025	4th International Conference on Innovations in Mechanical and Civil Engineering

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Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
69.	4.	Mr. Pritam A. Mali Mr. Sumit B. Khot	Interaction Buckling Behaviour in Cold-Formed Steel Column	November,2025	International Conference on Integrated Research & Sustainable Development ICIRSD -2025
70.	5.	Mr. Sumit B. Khot Mr. Kiran K. Shinde	Enhancing Housing Construction Quality: A Review of Six Sigma and Traditional Quality Control Integration	November,2025	International Conference on Integrated Research & Sustainable Development ICIRSD -2025
71.	6.	Mr. Sumit B. Khot	AI in Seismic Design of RC Frames: A State-of-the-Art Review	November,2025	International Conference on Integrated Research & Sustainable Development ICIRSD -2025
72.	7.	Dr. S. N. Tande, Mr. P. A. Pisal	Environmental Sustainability and Circular Urban Planning in Goa: Integrating Legislation, Community, and Climate Resilience	2025	International Conference on Integrated Research & Sustainable Development ICIRSD -2025
73.	8.	Dr. M. H. Mota, Dr. S. B. Chougule	Smart Water Quality Index Monitoring System	09-02-2026	IEEE
Department of Computer Science & Engineering(Internet of Things & Cyber Security including Block Chain Technology)					
74.	1.	Mr Samish N Kamble	Encrypted Traffic Classification in Software-Defined Networks Using Machine Learning: A Comparative and Design-Oriented Approach	11-1-2025	IEEE
75.	2.	Mr Samish N Kamble	Machine Learning Driven Traffic Classification in SDN A Systematic Review and Open Challenges	09-11-2025	Sciencetec Publication
76.	3.	Mr.K.M.Dange	Machine Learning for Cardiovascular Disease Prediction: A Comparative Analysis of Models	01-10-2025	Springer, Singapore

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Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
77.	4.	Mr.K.M.Dange	Fingerprint-Based Blood Group Prediction Using Machine Learning	09-02-2026	2025 2nd International Conference on Integration of Computational Intelligent System (ICICIS)
78.	5.	Mr.K.M.Dange	Heart Disease Segmentation and Classification Using 3D CT Image Reconstruction: A Comprehensive Review	01-02-2026	Springer, Singapore
79.	6.	Mrs. Prachi S. Pathak	Smart Water Quality Index Monitoring System	09-02-2026	IEEE
80.	7.	Mrs. Prachi S. Pathak	Network Security Auditing and Penetration Testing Framework for Robust Cyber Threat and Threat Mitigation	14-04-2026	IEEE
81.	8.	Mrs.Amruta R. Patil	Blockchain-Based Security Mechanism for Vehicle-to-Everything (V2X) Communication	11-01-2025	IEEE
82.	9.	Mrs.Ashwini C.Patil	Secure IOT-Enabled ESP32 Wi-Fi Repeater with Intrusion Detection,Traffic Visualization and Firewall: Towards a Scalable	31-10-2025	Springer
Department of Basic Science					
83.	1.	Mrs Vijayalaxmi M Vairat	Collaborative Robots; Technology, Applications,and Future Perspectives	19 th -20 th December,2025	
Department of Bachelor of Business Administration					
84.	3.	Mrs.Vilobha.K. Rukade	Agri-Tech Innovation in India: A Review of Opportunities, Challenges, and Future Pathways	November, 2025	International Conference on Integrated Research & Sustainable Development ICIRSD -2025

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Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
85.	4.	Miss Anuja A. Salgar	Employee Well-Being And Job Satisfaction in the Era of Digital Banking Transformation	January, 2026	ASM Group Of Institute, Pune
86.	5.	Miss Anuja A. Salgar	The Impact Of Job Stress On Dimensions Of Employee Resilience	March, 2026	International Conference on Sustainable Practices, Innovation & Responsible Entrepreneurship (INSPIRE 2026)
87.	6.	Miss Anuja A. Salgar	Employee Resilience in AI-Driven Work Environments: A Systematic Literature Review	March, 2026	International Conference on Business Environment in Next Generation AI (BEING-AI)
88.	7.	Miss Anuja A. Salgar	Artificial Intelligence and Sustainable Business Practices: A Systematic Literature Review	March, 2026	International Conference on Business Environment in Next Generation AI (BEING-AI)

Amol S. Dange

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Laxman Y. Waghmode

Dr. Laxman Y. Waghmode
Director



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Faculty Publications A.Y. 2025-26 – National Journals

Sr. No	Department	Faculty Name	Title of Paper	Publication Date	Publisher
1.	Aeronautical Engineering	Mr. Kiran J Burle	Observational Study of the Oriental Magpie Robin Copsychus Saularis in Western Maharashtra, Vasagade, Palus Taluka, Sangli District, Maharashtra, INDIA	September 2025	Bombay Natural History Society
2.	Basic Science	Dr. S. B. Mali	Job Opportunities in the Field of Translation	2025	Conference on "The Evolving Landscape and Future of Translation in a Globalized World"

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Faculty Publication A.Y. 2025-26 – National Conferences

Sr. No	Department	Faculty Name	Title of Paper	Publication Date	Publisher
1.	Electrical Engineering	Mr. Ansar S. Mulani	AI driven Smart Electrical Grid for resilient & effective energy managemnet	24 th March, 2026	Second National Conference on Artificial Intelligence: Innovations and Applications
2.	Artificial Intelligence & Data Science	Dr. Krishnakumar	Small Scale Language and Vision Models for Edge Devices	April 2026	National Conference on Artificial Intelligence: Innovations and Applications
3.		Dr. Krishnakumar	AI Powered Career Connect	April 2026	National Conference on Artificial Intelligence: Innovations and Applications
4.		Dr. Krishnakumar	Automatic Detection of Small-Scale Landslides Using Multi Temporal Satellite Images	April 2026	National Conference on Artificial Intelligence: Innovations and Applications

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Faculty Publications A.Y. 2025-26 – Book Chapters

Sr. No	Department	Faculty Name	Title of Paper	Publication Date	Publisher
1.	Mechanical Engineering	Dr. A.G.Sanadi	Predictive Analytics For Customer Retention In E-commerce	08-11-2025	RG International Publications Perambalur, Tamil Nadu, India
2.	Computer Science & Engineering	Mrs. Ashvini Arvind Todkar	Recent Approaches and issues in Ear Based Human Identification Using Ear Datasets	3 rd -4 th April, 2026	Taylor & Francis
3.		Mrs. Ashvini Arvind Todkar	Hybrid Transfer Learning Using VGG Networks for Robust Ear Biometric Recognition	3 rd -4 th April, 2026	Atlantis Press
4.		Dr. Sandeep G. Sutar	Machine Learning for IoT: Algorithms, Architectures, and Real World Applications.	January, 2026	Springer
5.	Electrical Engineering	Mr. Santosh V. Patil	Semiconductors for Solar Cells	2025	Taylor & Francis
6.		Mr. Santosh V. Patil	2D Material-Based Flexible Photovoltaics	2025	Unravelling the Power of 2D Materials Revolutionizing Flexible Devices
7.	Civil Engineering	Dr. V. A. Lande	"Experimental Evaluation of Adhesive Characteristics of Bonded Rolled Steel Section With Basalt Fibre Reinforced Polymer"	August, 2025	Springer
8.	Food Technology	Dr. Jagruti Jankar	Recent AI Innovations in Food Science	November, 2025	Bhumi Publishing
9.		Dr. Jagruti Jankar	Nutrifusion Powder: Innovation in Functional Foods for Food Security	April, 2026	Bhumi Publishing

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Faculty Publications A.Y. 2025-26 - Books

Sr. No	Department	Faculty Name	Title of Paper	Publication Date	Publisher
1.	Electrical Engineering	Ms. Patil Vidya Sampatrao	Fundamentals of CAD in Designing of Electrical Systems	08-12-2025	International Kinder Direct Publishing
2.	Basic Science	Dr. Ruturaj R. Kuldeep	Mind Matters in the Classroom: The Role of Emotional Intelligence in Adolescent Learning and Engagement	14-10-2025	KY PUBLICATIONS
3.		Mr. K.M.Lalit	Mind Matters in the Classroom: The Role of Emotional Intelligence in Adolescent Learning and Engagement	14-10-2025	KY PUBLICATIONS

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