



SHAHAJIRAO PATIL VIKAS PRATISHTHAN
S. B. PATIL COLLEGE OF ENGINEERING, INDAPUR, DIST: PUNE.
RESEARCH AND DEVELOPMENT CELL

ACA – R- 50	Faculty Publications Details A. Y. 2023-24	Academic Year: 2023-24
Rev : 01		Semester: I/II

Ref: SPVP/SBPCOE/R&D/2023-24

Date: 10/07/2024

Sr. No.	Name of the Teacher/Author	Title of the Paper/Book	Name of the Journal/Proceeding/Edited Book	Volume & Issue	Year of Publication	ISBN/ ISSN No.
Dept. of Civil Engineering						
1	R. B. Ghogare	Review on use of nanomaterials in concrete	International Journal for Research in Applied Science & Engineering Technology	Vol. 12 Issue. III	2024	2321-9653
2	R. B. Ghogare	Nanomaterials in concrete: Enhancing strength and durability	World Journal of Advanced Engineering Technology and Sciences	Vol. 11 Issue. 02	2024	2582-8266
3	M. V. Gaikwad	Study About Swelling Behavior Of Black Cotton Soil With RBI GRADE-81 and Single Use Face Mask	International Journal of Advance Research and Innovative Ideas In Education	Vol. 9 Issue. 3	2023	2395-4396
4	M. V. Gaikwad	Improving the Unconfined Compression Strength of Black Cotton Soil by Using RBI Grade-81 and Single Use Face Mask	Journal of Emerging Technologies and Innovative Research	Vol. 10, Issue. 6	2023	2349-5162
5	M. V. Gaikwad	Review On Soil Stabilization With Geopolymer	JJTU Journal of Renewable Energy Exchange	Vol. 12 Issue. 2	2024	2321-1067
6	M. V. Gaikwad	Reviewing the Enhancement of Expansive Soil Through Different Waste Material Blending	World Journal Of Advanced Engineering Technology And Sciences	Vol. 11 Issue. 02	2024	2582-8266
7	M. V. Gaikwad	Improving Properties of Black Cotton Soil Through the Utilization Of Construction and Demolition (C&D) Waste	International Journal of Science, Engineering and Technology	Vol. 12 Issue. 2	2024	2348-4098
8	P. R. Admile	Behaviour of Cold Formed Z-Section with Sag Rod in Pre-Engineered Building	International Journal Of Scientific Research In Science, Engineering And Technology	Vol. 11 Issue. 7	2024	2394-4099
9	S. M. Kale	Workability and Compressive Strength of Self Compacting Concrete in Varied Water Environments A Comprehensive Study	International Journal Of Advances In Engineering And Management	Vol. 6, Issue. 04	2024	2395-5252
10	S. M. Kale	Innovative Self-Curing Concrete: Enhancing Durability Through RCPT Analysis	International Journal Of Scientific Research In Science, Engineering And Technology	Vol. 11 Issue. 7	2024	2394-4099
11	S. M. Kale	Paving The Way For Sustainable Infrastructure: Plastic Coated Aggregates In Bituminous Mixes For Flexible Pavements	International Journal Of Scientific Research In Science, Engineering And Technology	Vol. 11 Issue. 7	2024	2394-4099
12	M. B. Katkar	Innovative Solutions For Sustainable Pavements: Plastic Coated Aggregates In Bituminous Mixes	International Journal Of Scientific Research In Science, Engineering And Technology	Vol. 11 Issue. 7	2024	2394-4099
13	S. V. Bankar	Hypo Sludge Concrete Revolution Enhancing Workability And Compressive Strength For Sustainable Construction	International Journal Of Advances In Engineering And Management	Vol. 6, Issue. 04	2024	2395-5252



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14	S. V. Bankar	Sustainable Construction: The Hypo Sludge Concrete Revolution	International Journal Of Advances In Engineering And Management	Vol. 6, Issue. 04	2024	2395-5252
15	S. V. Bankar	Soil Improvement Using Molasses	International Journal Of Scientific Research In Science, Engineering And Technology	Vol. 11 Issue. 7	2024	2394-4099
16	V. S. Bere	Review Of Design And Comparative Analysis of Applications In Earthquake-Resisting RC Structures And LRB Structures	International Journal Of Advances In Engineering And Management	Vol. 6, Issue. 04	2024	2395-5252
17	V. S. Bere	Design Of Traffic Control System	International Journal Of Scientific Research In Science, Engineering And Technology	Vol. 11 Issue. 7	2024	2394-4099
18	A. A. Ingole	Waste Tyre Crumb Rubber Particle As A Partial Replacement To Coarse Aggregate In Concrete	International Journal Of Scientific Research In Science, Engineering And Technology	Vol. 11 Issue. 7	2024	2394-4099
19	S. V. Jadhav	Seismic Analysis Of Different Plan Configuration Of Multi-Storied Building In Various Types Of Soil Using Etabs	International Journal Of Scientific Research In Science, Engineering And Technology	Vol. 11 Issue. 7	2024	2394-4099
20	A. B. Burungule	Investigative Study Car Wash And Kitchen Water In Concrete	International Journal Of Scientific Research In Science, Engineering And Technology	Vol. 11 Issue. 7	2024	2394-4099
21	A. B. Burungule	Efficient Strategies For Gray Water Reuse In Construction: Economical Approaches	International Journal Of Scientific Research In Science, Engineering And Technology	Vol. 11 Issue. 7	2024	2394-4099

Sr. No.	Name of the Teacher/Author	Title of the Paper/Book	Name of the Journal/Proceeding/Edited Book	Volume & Issue	Year of Publication	ISBN/ ISSN No.
Dept. of Computer Engineering						
1	G. G. Sayyad	A Study on Machine Learning Techniques for Sentiment Analysis of Users in Urban Cities for Transportation Using Social Media Data	International Journal Of Scientific Research In Science, Engineering And Technology	Vol. 11 Issue. 7	2024	2394-4099
2	G. G. Sayyad	Text to Image Generator Using Stable Diffusion	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
3	G. G. Sayyad	Driver Enervation Detection and Hypnosis Alert System Using OpenCV and Machine Learning	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
4	G. G. Sayyad	Auto Text Generator to Enhance the User Experience Using Machine Learning	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
5	J. N. Ekatpure	Tool for identifying and categorizing the Twitter bot's using Machine Learning	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
6	J. N. Ekatpure	A Survey On Malware Detection for WebURLs and PE Files Using Machine Learning	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
7	J. N. Ekatpure	JPEG Vigilant : AI-Powered Malware Image Detection	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
8	J. N. Ekatpure	Pharmaceutical Data Optimisation Using Quantum Machine Learning	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099



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9	J. N. Ekatpure	Leaf Vein Morphometrics: A Deep Learning Approach to Plant Classification	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
10	Dr. A. B. Gavali	Operational Elements Influencing the Occurrence of Unfavorable Incidents in the Railway System	Journal of Electrical Systems	Vol. 20 No. 2s	2024	1112-5209
11	Dr. A. B. Gavali	HOCOR: Hybrid Optimization-Based Cooperative Opportunistic Routing for Underwater Wireless Sensor Networks	Wireless Personal Communications	Vol. 135	2024	1572-834X
12	Dr. A. B. Gavali	Recognizing Mangoes and Determining their Ripeness Through the Application of Image Processing and ML Techniques	International Journal of Intelligent Systems and Applications in Engineering	Vol. 12 No. 19s	2024	2147-6799
13	Dr. A. B. Gavali	Strategic integration of artificial intelligence in public health: Policy recommendations for improved healthcare delivery	Journal of Krishna Institute of Medical Sciences	Vol. 13 Issue. 1	2024	2231-4261
14	Dr. A. B. Gavali	An analytical perspective on Real Time Object/Target Detection	Indian Journal of Technical Education	Vol. 47 Spc Issue	2024	0971-3034
15	Dr. A. B. Gavali	Brain Hemorrhage Detection Approach with Multi-Order Neural Networks	International Journal of Intelligent Systems and Applications in Engineering	Vol. 12 No. 19s	2024	2147-6799
16	Dr. A. B. Gavali	An Approach for Detecting Security Attacks using Machine Learning	Journal of Electrical Systems	Vol. 20 No. 1s	2024	1112-5209
17	Y. L. Tonape	3-D Hand Geometry Based Recognition System for User Authentication Using Image Processing	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
18	Y. L. Tonape	A Survey on E-Pass for Bus	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
19	Y. L. Tonape	Development of an Automated Crop Disease Detection System	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
20	Y. L. Tonape	Algorithmic Trading : An Overview	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
21	V. S. Nalawade	Enabling Trust and Privacy Preserving E-KYC System Using Blockchain	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
22	V. S. Nalawade	Revolutionizing Document Security: A Comprehensive Deep Learning Approach For Signature Detection and Verification	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
23	V. S. Nalawade	Optimized Data Storage Using Sharding Method in Block Chain	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
24	V. S. Nalawade	Creating Digital Health Ecosystem with Lifewellness Portal Including Hospital and Insurance Company with Cloud Computing and Artificial Intelligence	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099



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25	V. S. Nalawade	Voice-Enabled Traffic Sign Recognition and Alert System using ML: A Review	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
26	Dr. S. T. Shirkande	Ambulance Detection and Traffic Flow Control System	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
27	Dr. S. T. Shirkande	A Survey on Image Retrieval and Re-Ranking Techniques	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
28	Dr. S. T. Shirkande	Text to Face Generation Using Deep Learning	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
29	Dr. S. T. Shirkande	Development of an E-Commerce Sales Chatbot	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
30	Swati Waghmode	A Study of LoRaWAN Network Technology	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
31	D. R. Kambale	Covid-19 Data Visualization Using Data Science	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
32	D. R. Kambale	EV Stations Management System Using AI Chatbot Support	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
33	D. R. Kambale	Result Paper on IoT Based Wireless Electric Vehicle Charging System	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
34	D. R. Kambale	Sentiment Analysis of Dysthymia Form of Depression Using Multimodal ApproachA Shoulder Surfing Resistant Graphical Authentication System	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
35	D. R. Kambale	Secure and Efficient Path Finding using Machine Learning	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
36	D. R. Kambale	A Shoulder Surfing Resistant Graphical Authentication System	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099

Sr. No.	Name of the Teacher/Author	Title of the Paper/Book	Name of the Journal/Proceeding/Edited Book	Volume & Issue	Year of Publication	ISBN/ ISSN No.
Dept. of Electronics & Telecommunication Engineering						
1	Swagat M. Karve	Automated Aquaponic Farming Using Node MCU	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 10 Issue. 6	2023	2394-4099
2	Swagat M. Karve	Smart Farming with Aquaponic System Using Node MCU	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
3	Swagat M. Karve	An Identification and Analysis of Harmful URLs through the Application of Machine Learning Techniques	International Journal of Intelligent Systems and Application in Engineering	Vol. 12 No. 17s	2024	2147-6799
4	P. S. Togrikar	Matter The New Way In IOT a servey paper	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
5	Rupali A. Sawant	Automatic Baby Cradle	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099



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6	Priyanka V. Nimbalkar	Iot Based Real Life Health Care Monitoring System	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
7	Akshada N. Kawade	Automation for War Field Spying	International Research Journal of Modernization in Engineering Technology and Science	Vol. 05 Issue. 10	2023	2582-5208
8	Akshada N. Kawade	An Analysis of Face Recognition and OTP Verification for Online Voting	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
9	Akshada N. Kawade	Stock Market Analysis and Prediction Using Python	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
10	S. M. Borate	Smart IV Infusion Dosing System	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 10 Issue. 6	2023	2394-4099
11	S. M. Borate	Task Classification of EEG Signal Using Bayesian Quadratic Classifier	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
12	S. M. Borate	Smart Intravenous Infusion Dosing System	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 10 Issue. 6	2023	2394-4099
13	A. S. Shirkande	Agriculture Automation Using Lora Module	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
14	A. S. Shirkande	Wireless Floor Cleaning Robot	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
15	A. S. Shirkande	Filtering Techniques Used to Reduce the Noise in Image Processing	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
16	A. S. Shirkande	Arduino Nano Based Digital Password Lock for Door Security System Using 4x4 Matrix Membranes	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
17	A. S. Shirkande	Pothole Detection Robot Using Raspberry Pi	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 10 Issue. 6	2023	2394-4099
18	C. V. Nalawade	Online Shopping From Browser	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
19	P. S. Togrikar	Enhancing Augmented Reality in Revolutionizing Tourism through Convolutional Neural Networks (CNN) For Enhanced Tourist Experiences	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
20	V. U. Bansude	Examining Emotions in Speech Using Machine Learning Techniques In Real-Time	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
21	V. U. Bansude	Smart Mirror System using Raspberry Pi	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 10 Issue. 6	2023	2394-4099
22	V. U. Bansude	To Decipher Job Opportunities by A-I Powered Dynamic Bot and Recommending Content-Based E-Learning Resources	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099



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Dept. of Electrical Engineering						
1	T. V. Deokar	Islanding operation between solar hybrid system	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
2	K. S. Tamboli	Iot Based circuit breaker	International Journal of Scientific Research and Engineering Development	Vol. 7 Issue. 2	2024	2581-7175
3	M. D. Patil	An Overview of Charging Station for Charging the Electric vehicles	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
4	R. R. Bairagi	Arduino Nano Based Digital Password Lock for Door Security System Using 4x4 Matrix Membranes	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
5	G. R. Padule	A Result Paper on Agricultural EV Development and Design - Wiring Harness battery Selection	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
6	K. N. Kazi	Photovoltaic grid interconnected system	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
7	K. N. Kazi	Comparitve study of proto type model result and simulation results of TCSC facts controller for congestion management	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099

Sr. No.	Name of the Teacher/Author	Title of the Paper/Book	Name of the Journal/Proceeding/Edited Book	Volume & Issue	Year of Publication	ISBN/ ISSN No.
Dept. of Mechanical Engineering						
1	S. D. Mahadar	Hybrid Hydro Power Generation with Archimedes Screw Turbine: A Study	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
2	M. D. Jagtap	Design & Development of Chairless Chiar	International Research Journal of Modernization in Engineering Technology and Science	Vol. 6 Issue. 5	2024	2582-5208
3	J. B. Mule	Arduino CNC hot wire cutter	International Journal for Research in Applied Science & Engineering Technology	Vol. 12 Issue. 1	2024	2321-9653
4	V. S. Dhotre	Design of multipurpose floor cleaning machine	International Journal of Scientific Research in Engineering and Management	Vol. 11 Issue. 7	2024	2582-3930
5	M. D. Jagtap	Exploring Failure Modes in Roller Conveyor Chains: A Survey of the Sugar Industry	JJTU Journal of Renewable Energy Exchange	Vol. 12 Issue. 2	2024	2321-1067
6	V. S. Dhotre	Comparative Analysis of leaf spring for light commercial vehicle	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
7	V. D. Gawade	Experimental Investigation of Heat Transfer Enhancement from Circular Dimple with Different Winglet Vortex Generators in Square Channel	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099



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8	A. D. Rajput	Automatic E Bike Stand for Two wheeler	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
9	K. H. Kuber	Design & analysis of smart two wheeler system	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099

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Dept. of First Year Engineering						
1	Y. P. Yadav	Subclass of Bi-Univalent Functions Using Salagean Derivative Operator	International Journal of Scientific Research in Science, Engineering and Technology	Vol. 11 Issue. 7	2024	2394-4099
2	V. B. Satpute	Harmonic Univalent Functions Defined by Generalized Derivative Operator	SIRJANA Journal	Vol. 54 Issue. 1	2024	2455-1058