
TULSIRAMJI GAIKWAD-PATIL COLLEGE OF ENGINEERING AND TECHNOLOGY
Wardha Road, Nagpur - 441108
Accredited with NAAC A+ Grade
Approved by AICTE, New Delhi, Govt. of Maharashtra
(An Autonomous Institute Affiliated to RTM Nagpur University, Nagpur)

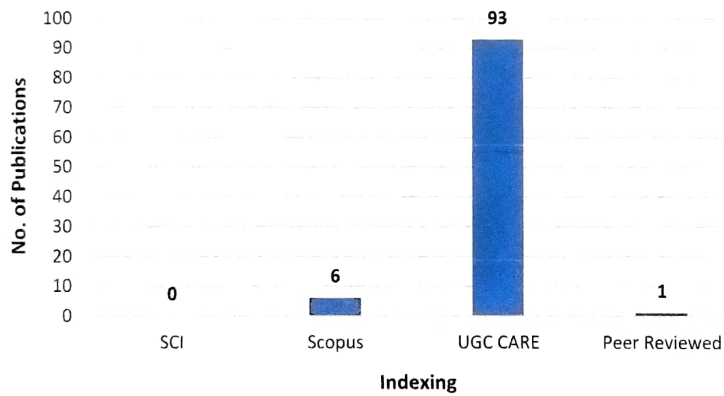


Research and Development Cell

Paper Publication During Academic Year 2021-22

Academic Year	No. of Publication
SCI	0
Scopus	6
UGC CARE	93
Peer Reviewed	1
Total	100

Publication Details of Academic Year 2021-22




R&D Cell

DEAN
Research & Development Cell
TULSIRAMJI GAIKWAD-PATIL COLLEGE
OF ENGINEERING AND TECHNOLOGY, NAGPUR


Dr. Prerna B. Nikhade
Principal
TGPCET, Nagpur



Research and Development Cell

Publication Details of Academic year From 2021-2022

Sr. No.	Authors	Title of research paper	Journal Title	Affiliation college Name	Date of published	Name of Designation	Name of Department	SCI	Paper Published					Research Paper Link	
									Scopus	Web of Science	UGC Care	UGC Approved	Peer Reviewed		ISSN/ISBN Number
1	Prof. Pratik Ghutke	An Immersive Approach towards Sustainable Farming Using IoT. A Review	Proceedings of the Advancement in Electronics & Communication Engineering 2022	TGPCET	2022	Assistant Professor	Electrical Engineering		Scopus						https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4159617
2	Prof. Pratik Ghutke	An Automated Irrigation system for Efficient Water Utilization in the Indian Agriculture System	Design Engineering	TGPCET	2022	Assistant Professor	Electrical Engineering		Scopus				0011-9342		
3	Dr. Prashant Thakre	A Novel Method for Implementing MPPT Based Photovoltaic Closed Loop Flyback Inverter with Simulink/407vg Controller Using Wajing Tool	International Journal of Engineering Trends and Technology	TGPCET	2022	Associate Professor	Electrical Engineering		Scopus				2231 - 5381	10.14445/22315381/IJETT-V70I8P220	https://mail.ijettjournal.org/Volume-70/Issue-8/IJETT-V70I8P220.pdf

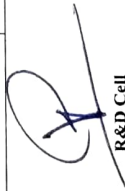
4	Dr. Prashant Thakre	Modeling of Maximum Power Point Tracking Based Photovoltaic Open Loop Feedback Inverter Using Synchronous Park With Modulation Technique for Performance Improvement	2022 Second International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAAECT)	TGPCEET	2022	Associate Professor	Electrical Engineering	Scopus					10.1109/ICAAECT44875.2022.9807918 https://ieeexplore.ieee.org/abstract/document/9807918
5	Vijay Talodhikar	Performance Evaluation of MOPTM by Simulating ANN based model. A Mathematical Approach	International Journal of Mechanical Engineering	TGPCEET	2022	Assistant Professor	Mechanical Engineering	Scopus	0974-5823				https://calahamjournals.com/resources/Special_Issue_April_May_27.pdf
6	Vijay Talodhikar and Ritesh Bapurkar	Design and Development of Six Wheeled Robot for Pipe Inspection	International Journal of Mechanical Engineering	TGPCEET	2022	Assistant Professor	Mechanical Engineering	Scopus	0974-5823				https://www.researchgate.net/publication/361209389/Design_and_Development_of_Six_Wheeled_Robot_for_Pipe_Inspection
7	Prof. Jayant Adhikan	Classification of Brain MR Images into Malignant and Benign using Texture Features and Machine Learning Algorithm	International Research Journal of Engineering and Technology	TGPCEET	2022	Assistant Professor	Information Technology	UGC CARE	2395-0056				https://www.ijerel.org/archives/V3.I5/IRJET-V3I5469.pdf
8	Dr. Narendria Chaudhari	Classification of Brain MR Images into Malignant and Benign using Texture Features and Machine Learning Algorithm	International Research Journal of Engineering and Technology	TGPCEET	2022	Assistant Professor	Information Technology	UGC CARE	2395-0056				https://www.ijerel.org/archives/V3.I5/IRJET-V3I5469.pdf
9	Mr Sanjay Bhadke	Comparative study of direct design method and safe programming with and without interior beam	International Journal of science and research	TGPCEET	2021	Assistant Professor	Civil Engineering	UGC CARE	2005-4262				https://www.ijerel.org/journals/index.php/IJERD/Article/view/35017
10	Mr Sanjay Bhadke	Critical analysis of RCC Voided Slab and conventional RCC slab	International journal of science and research	TGPCEET	2021	Assistant Professor	Civil Engineering	UGC CARE	2319-7064				
11	Mr. Sanjay K. Bhadke	Comparative design and analysis of rcc t-beam bridge superstructure for different codes & load combinations	International Journal of Grid and Distributed Computing	TGPCEET	2021	Assistant Professor	Civil Engineering	UGC CARE	2349-5162				
12	Dr. Amey Khedikar	Comparative Study of Conventional Slab, Flat Slab and Waffle Slab by using Finite Element Method	International Journal of Grid and Distributed Computing	TGPCEET	2021	Assistant Professor	Civil Engineering	UGC CARE	2321-9653				
13	Dr. Amey Khedikar	Comparison of various codes of fire on structural design	International Journal for Research in Applied Science & Engineering Technology	TGPCEET	2021	Assistant Professor	Civil Engineering	UGC CARE	2321-9653				
14	Dr. Amey R. Khedikar	Analysis of conventional chevron braced frame and diagrid frame with plan irregularity	Journal of Emerging Technologies and Innovative Research	TGPCEET	2021	Assistant Professor	Civil Engineering	UGC CARE	2349-5162				
15	Dr. Amey R. Khedikar	Dynamic analysis of multistoried building resting on a combined pile raft foundation	Journal of Emerging Technologies and Innovative Research	TGPCEET	2021	Assistant Professor	Civil Engineering	UGC CARE	2349-5163				
16	Dr. Amey Khedikar	RCC Framed Building with Using Belt Truss	Journal of Emerging Technologies and Innovative Research	TGPCEET	2021	Assistant Professor	Civil Engineering	UGC CARE	2349-5162				

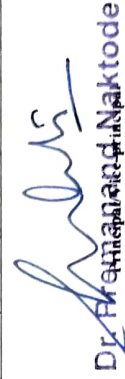
17	Dr. Amey Kheolikar	Analysis, Design And Comparison Of Rectangular And Circular Elevated Storage Tank Under Seismic Load By GSDMA Guidelines	Journal of Emerging Technologies and Innovative Research	TGPCEIT	2021	Assistant Professor	Civil Engineering	UGC CARE	2349-5162
18	Dr. Amey Kheolikar	Seismic response of vertically irregular and regular structure with stiffness irregularity at Different Level	Journal of Emerging Technologies and Innovative Research	TGPCEIT	2021	Assistant Professor	Civil Engineering	UGC CARE	2349-5162
19	Dr. Amey Kheolikar	Analytical study and design of foundation by using indian standard and euro standard under action of seismic forces	Journal of Emerging Technologies and Innovative Research	TGPCEIT	2021	Assistant Professor	Civil Engineering	UGC CARE	2349-5162
20	Ms. Divyani Harpal	Waste pet bottle fibre used in concrete for increasing the strength	International research journal of modernization in engineering technology and science	TGPCEIT	2021	Assistant Professor	Civil Engineering	UGC CARE	e-ISSN: 2582-5208
21	Ms. Divyani Harpal	Design of water distribution system by using tree/dead end system	International research journal of modernization in engineering technology and science	TGPCEIT	2021	Assistant Professor	Civil Engineering	UGC CARE	e-ISSN: 2582-5208
22	Dr. Aasif M. Baig	To study the utilization of construction and demolition waste in concrete as coarse aggregate	International research journal of modernization in engineering technology and science	TGPCEIT	2021	Assistant Professor	Civil Engineering	UGC CARE	e-ISSN: 2582-5208
23	Dr. Aasif M. Baig	Analysis on effect of skew angle on performance assessment of r c girder bridge deck	International research journal of modernization in engineering technology and science	TGPCEIT	2021	Assistant Professor	Civil Engineering	UGC CARE	e-ISSN: 2582-5208
24	Dr. Aasif M. Baig	Durability study on geopolymer concrete made with ground granulated blast furnace slag and black rice husk ash	International research journal of modernization in engineering technology and science	TGPCEIT	2021	Assistant Professor	Civil Engineering	UGC CARE	e-ISSN: 2582-5208
25	Dr. Aasif M. Baig	Static and dynamic analysis of transmission tower to wind and seismic loads	International research journal of modernization in engineering technology and science	TGPCEIT	2021	Assistant Professor	Civil Engineering	UGC CARE	e-ISSN: 2582-5208
26	Mr. Mohit Singh Katoch	Study of fluoride content in groundwater of chandrapur region and fluoride removal by adsorption techniques	International Advanced Research Journal in Science, Engineering and Technology	TGPCEIT	2021	Assistant Professor	Civil Engineering	UGC CARE	ISSN (O) 2393-8021, ISSN (P) 2394-1588
27	Mrs Priyanka Peekar	G+12 multistory building introducing with belt truss and outrigger system using staad-pro software	Journal of Emerging Technologies and Innovative Research	TGPCEIT	2021	Assistant Professor	Civil Engineering	UGC CARE	ISSN 2349-5162
28	Dr. Sandeep Gaikwad	Analyzing & Comparing Hybrid Buckling Restrained Braced Frames with the Conventional Buckling-Restrained Braced Frames	Journal of Emerging Technologies and Innovative Research	TGPCEIT	2021	Assistant Professor	Civil Engineering	UGC CARE	ISSN 2349-5162
29	Dr. Radharaman Shaha	Hybrid power generation using bladeless windmill (wind and solar)	International Research Journal of Modernization in Engineering Technology and Science	TGPCEIT	2022	Assistant Professor	Electrical Engineering	UGC CARE	2582-5208
30	Dr. Radharaman Shaha	SSR Mitigation with a New Control of PV Solar Farm as STATCOM (PV-STATCOM)	Journal of Emerging Technologies and Innovative Research (JETIR)	TGPCEIT	2021	Assistant Professor	Electrical Engineering	UGC CARE	2349-5162
31	Dr. Radharaman Shaha	Hybrid power generation using bladeless windmill (wind and solar)	International Research Journal of Modernization in Engineering Technology and Science	TGPCEIT	2022	Assistant Professor	Electrical Engineering	UGC CARE	2582-5208
32	Dr. Radharaman Shaha	Design of Smart grid of Wind power plant by Matlab Simulink using PSO	International Journal for Modern Trends in Science and Technology, 8(06):27-32, 2022	TGPCEIT	2022	Assistant Professor	Electrical Engineering	UGC CARE	2455-3778

64	Prof Rahul Dhature	Invisible Broken Wire Detector	International Journal of Innovative Research in Electrical, Electronics, Instrumentation And Control Engineering (IJIREEICE)	TGPCET	2022	Assistant Professor	Electronics and Communication Engg.	UGC CARE	2321-2004				
65	Prof Rahul Dhature	Detection of Lung Cancer Using Image Processing with Oxygen Saturation Monitoring System	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE)	TGPCET	2022	Assistant Professor	Electronics and Communication Engg.	UGC CARE	2321-2005				
66	Prof Rahul Dhature	Smart Farming Remote Surveillance System Using IoT	International Journal of Scientific Engineering and Applied Science	TGPCET	2022	Assistant Professor	Electronics and Communication Engg.	UGC CARE	2395-3470				
67	Prof Suraj Malajan	Smart Temperature Sensor and Automatic Sannitizer Machine	International Journal of Research in Engineering, Science and Management	TGPCET	2022	Assistant Professor	Electronics and Communication Engg.	UGC CARE	2581-5792				
68	Prof. Deepak Bhoier	IOT Based Smart Shopping Cart	International Journal of Scientific Research in Engineering, Management, Engineering, Management.	TGPCET	2022	Assistant Professor	Electronics and Communication Engg.	UGC CARE	2582-3930				
69	Vijay Taladhikar	Design & Analysis of Pedal Operated Washing Machine for Electric Generation	Journal of Automation and Automobile Engineering	TGPCET	2022	Assistant Professor	Mechanical Engineering	UGC CARE	eISSN: 2582-3159				
70	Dr. Yogesh Mahulkar	Design And Fabrication Of A Solar Grass Cutter: A Review	International Journal of Progressive Research in Engineering, Management and Science (IJPREMS)	TGPCET	2022	Assistant Professor	Mechanical Engineering	UGC CARE	eISSN: 2583-1062				
71	Dr. Yogesh Mahulkar	A Review On Low Cost Automation-Spray Painting Robot	International Research Journal of Modernization in Engineering Technology and Science	TGPCET	2022	Assistant Professor	Mechanical Engineering	UGC CARE	eISSN: 2583-5208				
72	Dr. Yogesh Mahulkar	An Ergonomic Design of Sewing Machine Pedal Mechanism Operated Potter's Wheel.	Design Engineering.	TGPCET	2022	Assistant Professor	Mechanical Engineering	UGC CARE	ISSN:0011-9342				
73	Dr. Yogesh Mahulkar	Design and Development of Profiles and Tools for throwing on the potter's wheel	International Journal of Mechanical Engineering	TGPCET	2022	Assistant Professor	Mechanical Engineering	UGC CARE	ISSN:0011-9342				
74	PravinPekar and VivekPatil	A Review of Human Power generation and various application of Pedal Driven System	Journal of Recent Activities in Production	TGPCET	2022	Assistant Professor	Mechanical Engineering	UGC CARE	ISSN:0011-9342				
75	VivekPatil and Vijay Taladhikar	A Review on Pedal Driven Washing Machine and its Relevance for Electric Generation"	Journal of Mechatronics Machine Design and Manufacturing.	TGPCET	2022	Assistant Professor	Mechanical Engineering	UGC CARE	eISSN: 2582-8908				
76	Prof. Dipali Bhoier	Optimization of die extrusion parameters	International Journal Of Advance Research And Innovative Ideas In Education	TGPCET	2022	Assistant Professor	Mechanical Engineering	UGC CARE	ISSN: 2395-4396				

77	Dr. Shubhangi Gondane	Real Time Monitoring of CO Emission in Vehicle Using Cognitive IoT with Temperature and Alcohol Detector	International Journal Of Advanced Innovative Technology In Engineering (IAIITE)	TGPJET	2022	Assistant Professor	Mechanical Engineering				eISSN: 2455-6491	
78	Dr. Shubhang Gondane	Design and Fabrication of Drill Rig for flange coupling PCD holes	International Journal Of Research In Engineering And Science (IJRES)	TGPJET	2022	Assistant Professor	Mechanical Engineering				ISSN: 2395-4396	
79	Gaurav Nagdeve	Electromagnetic Braking System	Gis Science Journal	TGPJET	2022	Assistant Professor	Mechanical Engineering				ISSN: 1869-9391	
80	RuteshBamrupkar	3D printed Filament manufactured by various Methods and Composites. Investigation and Analysis of Characteristics of 3D Printed Parts Produced by Fusion of Different Filament Materials	European Journal Of Advances In Engineering And Technology	TGPJET	2022	Assistant Professor	Mechanical Engineering				ISSN: 2394-658X	
81	RuteshBamrupkar	Review Paper on Design And Analysis of Leaf Spring Using Composite material.	International Journal Of Scientific Research In Science, Engineering And Technology	TGPJET	2022	Assistant Professor	Mechanical Engineering				ISSN: 2395-1990	
82	RuteshBamrupkar	Design And Fabrication Of Pedal Operated Sieving Machine For Agriculture Use.	International Research Journal Of Engineering Research And Applications.	TGPJET	2022	Assistant Professor	Mechanical Engineering				ISSN: 2248-9622	
83	AmijMuley	"Design And Fabrication Of Recycle Plastic Extruder Machine"	International Research Journal Of Modernization In Engineering Technology And Science	TGPJET	2022	Assistant Professor	Mechanical Engineering				ISSN: 2395-4396	
84	Pramar Bakane	Design And Fabrication Of Pneumatic Sheet Metal cutting Machine	Gis Science Journal	TGPJET	2022	Assistant Professor	Mechanical Engineering				ISSN: 1869-9391	
85	RavindraShende	Design And Fabrication Of Pesticides Spraying Drone	International Journal Of Advance Research And Innovative Ideas In Education	TGPJET	2022	Assistant Professor	Mechanical Engineering				ISSN: 2395-4396	
86	RavindraShende	Design and fabrication of sand filter Machine	International Journal of Mechanical Engineering And Research (Ijme)	TGPJET	2022	Assistant Professor	Mechanical Engineering				ISSN: 2395-0072	
87	Mr. RavindraShende, Ms. Dipalibhojkar and Mr. Gaurav Nagdeve	Design and Fabrication of Electromagnetic Braking System	International Journal Of Advance Research And Innovative Ideas In Education	TGPJET	2022	Assistant Professor	Mechanical Engineering				ISSN: 0974-5823	
88	Mr. Vishwjeet Arbhade	Design and Fabrication of Electromagnetic Braking System	International Journal Of Advance Research And Innovative Ideas In Education	TGPJET	2022	Assistant Professor	Mechanical Engineering				2395-4396	

80	Dr. Prashant Kado	A Review on Design and Analysis of Power Generation from Waste Heat	International Journal For Research in Applied Science and Engineering Technology Iraaset	TGPCT	2022	Assistant Professor	Mechanical Engineering				ISSN: 2321-9653
90	Prof. Vidyaashar Kshirsagar	Ergonomic Design of CNC Machine for Disabled Operators	International Journal of Advance Engineering	TGPCEI	2022	Assistant Professor	Mechanical Engineering				ISSN: 2321-9653
91	Prof. Vidyaashar Kshirsagar	Design & Fabrication of Motorized Windshield Car and Bus Mechanism	International Journal of Advance Engineering	TGPCEI	2022	Assistant Professor	Mechanical Engineering				ISSN: 2321-9653
92	Prof. Niteen Kakde	Overview of threshing and dehulling technology of pulses and rajgana pea	Design Engineering	TGPCEI	2022	Assistant Professor	Mechanical Engineering				ISSN: 0011-9342
93	Prof. Niteen Kakde	Design modeling and performance analysis of combine system for threshing and dehulling of Rajgana pea	International journal of mechanical engineering(Kalabhar)	TGPCEI	2022	Assistant Professor	Mechanical Engineering				ISSN: 0974-5823
94	Prof. PrafullaRande	Design And Fabrication Of Sand Separator	International Journal for Research Trends and Innovation	TGPCEI	2022	Assistant Professor	Mechanical Engineering				ISSN: 2456-3115
95	Prof. PrafullaRande	Design and Fabrication of Automatic T-shirt Folding Machine	International Journal of Engineering Research and Applications	TGPCEI	2022	Assistant Professor	Mechanical Engineering				2438-9622
96	Mr. Nandkishor Sawai	Design& Fabrication Of Manually Operated Potter Wheel By Using Stewing Machine Pedal Mechanism	Design Engineering	TGPCEI	2022	Assistant Professor	Mechanical Engineering				2349-5162
97	Ms. DarshikaKhawase	Design and Fabrication of Stair Climbing Mechanism to Lift Load Over stairs.	International Journal of Scientific Research in Engineering and Management(IJSREM)	TGPCEI	2022	Assistant Professor	Mechanical Engineering				2395-4396
98	Mr. Nandkishor Sawai	Review on design of mechanism for making of different earthen ware on potter wheel	Journal of harbin institute of technology	TGPCEI	2022	Assistant Professor	Mechanical Engineering				0367-6234
99	Prof. Mukul Pande	A Review on IOT Based Irrigation System by Using AES Algorithm	Journal of Scientific Research & Engineering Trends	TGPCEI	July-Aug 2021	Assistant Professor	Information Technology				ISSN (Online): 2395-566X
100	Vijay Taladhikar	Design and Fabrication of H-Type Vertical Hydraulic Press	Journal of Fluid Mechanics and Mechanical Design	TGPCEI	2022	Assistant Professor	Mechanical Engineering				Peer Reviewed eISSN: 2582-9165


R&D Cell


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