



Savitribai Phule Pune University
Annual Report Information 2021-2022
Planning and Development



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College Details

1.	Name Of the Department/College/Institute	:	Maharashtra Academy Of Engineering And Educational Research MIT Academy of Engineering Addr: Devu Phata Alandi Devachi Pune Ta: Khed Dist: Pune	2.	Address Of the Department/College/Institute	:	Devu Phata Alandi Devachi Pune Ta: Khed Dist: Pune Pincode: 412105
3.	Name Of the Head/Principal/Director	:	Mahesh Devendragouda Goudar	4.	Tele (O/R) With STD Code/Mobile No., Fax No, Email Address and Website Address	:	Tele.- 02030253500 Email- principal@maepune.ac.in URL- www.mitaoe.ac.in

5. Reference Books/Monographs Published by Teacher (2021-2022) :

Sr. No.	Name of the Teacher(s)/Author	Title of the Reference Books/Monographs	Name and Place of Publisher(s)	Date of Publication	Isbn/Issn No.
1	Patil Jayashree Apparao	Big Data Analytics for Vehicular Edge Networks	Taylor & Francis	2022	DOI:10.1201/9781003206453-5 / DOI:10.1201/9781003206453-5
2	Kamble Avinash Gulabrao	Parametric Optimization of Gas Tungsten Arc Welding Using AHP-Based Taguchi Method	Springer Singapore	2021	2564 / 5663
3	Kamble Avinash Gulabrao	Optimization of Design Problems Using TLBO and mTLBO Algorithms	Springer Singapore	2021	2413 / 4782
4	Kamble Avinash Gulabrao	GSM-Based Operation System for Agricultural Pumps	Springer Singapore	2021	5632 / 2364
5	Salve Shrikant Vitthal	Can Dynamic Widgets Improve DataEntry Efficiency?	Springer	2021	- / -
6	Bhute Avinash Narayanrao	A machine learning approach to aid paralysis patients using EMG signals	Elsevier	2022	978-0-323-85708-6 / 978-0-323-85708-6
7	Gaikwad Jyotsna ,Verma Usha	Digital Image Watermarking by Fusion of Wavelet and Curvelet Transform	Springer	2021	978-981-15-8391-9 / 978-981-15-8391-9
8	Wakale Aishwarya ,Verma Usha	Brain Activity Analysis for Stress Recognition	Springer	2021	978-981-15-8391-9 / 978-981-15-8391-9
9	Verma Usha Yogesh	Region-based Stabilized Video Magnification Approach,	Springer	2022	978-981-16-9012-9 / 978-981-16-9012-9
10	Verma Usha Yogesh	Covid-19 Data Analysis to Predict the Level of Hospitalization	Springer	2021	978-981-16-5157-1 / 978-981-16-5157-1



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11	Shewale Sandeep Pandurang	Comparative Kinetic Study for Adsorption of Heavy Metals with Low-Cost Adsorbents—Sugarcane Bagasse and Eggshell	Springer, Cham	2021	978-3-030-69925-3 / 978-3-030-69927-7
12	Pande Sandeep Dwarkanath	CapsNet and KNN based Earthquake Prediction using Seismic and Wind Data	Chapman and Hall/CRC	2021	9781003244165 / NA
13	Bhosale Vishal Ashok	Project Scheduling Using Linear Programming, CPM and Crashing Time Technique	Springer	2022	-- / 2195-4356
14	Bhosale Vishal Ashok	Reverse Supply Chain Network for Plastic Waste Management	Springer	2022	-- / 1876-1119

6. No. of Conference, Symposia, Seminars, Workshops etc. Organized (2021-2022)

Sr. No.	No. of State Level	No. of National Level	No. of International Level
1	25	6	0

7. Research Publications in National and International Journals/Edited Books/Proceedings (2021-2022)

Sr. No.	Name of the Teacher's/Author	Title of the Paper	Name of the Journal/Proceeding/Edited Book	Volume & Pages	Year of Publication	ISBN/ISSN No.
1	Mandal Arnab -	Effect of synthesized additive on prevention of organic solid precipitate in the formation rock	Petroleum Science & Technology	-- & 11	2022	9783030162740 / 1091-6466
2	Mandal Arnab -	Influence of asphaltene inhibitors on asphaltene deposition in the porous media	Indian Journal of Chemical Technology	28 & 5	2021	--- / 0975-0991
3	Sutar Parag Narayan	Evaluation of Carbon Dioxide Solubility in Aqueous Solutions of Diethylethanolamine Using Improved Kent–Eisenberg Model	Russian Journal of Physical Chemistry A	96 & 7	2022	0036-0244 / 0036-0244
4	Patil Jayashree Apparao	Edge Enabled Identification of Vehicle Emergency Situation using Data Aggregation and Filtering Approach	International Journal of Advanced Science & Technology	29 & 9	2021	29 (4), 4534 - 4543 / 29 (4), 4534 - 4543



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5	N Muniappan	GIS based approach for characterization of groundwater by using water quality index.	International journal of current research	13 & 7	2021	0 / 0975-833X
6	Barewar Surendra Deochand	Heat transfer characteristics and boiling heat transfer performance of novel Ag/ZnO hybrid nanofluid using free jet impingement	Experimental heat transfer	- & 10	2021	- / 0891-6152
7	Barewar Surendra Deochand	Investigating a novel Ag/ZnO based hybrid nanofluid for sustainable machining of inconel 718 under nanofluid based minimum quantity lubrication	Journal of Manufacturing Processes	66 & 311	2021	- / 1526-6125
8	Barewar Surendra Deochand	Impact of Industry Institute Interaction in Engineering Education to Enhance Employability – A Case Study	Journal of Engineering Education Transformations	35 & 143	2022	- / 2394-1707
9	Barewar Surendra Deochand	Artificial neural network modeling and optimization of thermophysical behavior of MXene Ionanofluids for hybrid solar photovoltaic and thermal systems	Thermal Science and Engineering Progress	33 & 101391	2022	- / 2451-9049
10	Ambardekar Vibhav Shriram	Plasma sprayed copper oxide sensor for selective sensing of carbon monoxide	Materials Chemistry and Physics	258 & 123966	2021	NA / 0254-0584
11	Kamble Avinash Gulabrao	Investigation on effects of parameters of GMAW process on bead geometry, hardness and microstructure of AISI 410 steel weldments	Advances in Materials and Processing Technologies	6 & 15	2021	2256 / 1152
12	Kamble A G	Application of multi-attribute decision-making methods for the selection of conveyor	Soft Computing	2 & 13	2022	2356 / 2564



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13	Kamble A G	Selection of Raw Material Suppliers For Cold-Rolled Mild Steel Manufacturing Industry	Int. J. Simul. Multidisci. Des. Optim.	13 & 15	2022	4256 / 7865
14	Vharkate Minakshi Nanasaheb	Mixed Pooling for Remote Sensing Image Feature Extraction and Retrieval	International Journal of Grid and Distributed Computing	13 & 12	2021	- / ISSN: 2005-4262
15	Vharkate Minakshi Nanasaheb	Fusion Based Feature Extraction and Optimal Feature Selection in Remote Sensing Image Retrieval	International Journal of Multimedia tools and Applications	81 & 28	2022	- / -
16	Vharkate Minakshi Nanasaheb	Remote Sensing Image Retrieval using Hybrid Visual Geometry Group Network with Relevance Feedback	International Journal of Remote sensing	42 & 27	2021	- / -
17	Muthekar Vijay V	State of the Art of Groundwater Investigation	GIS Science Journal	9 & 6	2022	1869-9391 / 1869-9391
18	Muthekar Vijay V	A Comparative Study of ANN Models developed for predicting Soil Compaction Parameters using MS Excel and MATLAB	GIS Science Journal	9 & 7	2022	1869-9391 / 1869-9391
19	Kulkarni Sushma Sandip	Protesting pragmatically	LangLit	8 & 7	2022	---- / 2349-5189
20	Shriram Pranav Rajesh	Unavailability of Python Tool Which Can Perform Various Hacking Activities	International Journal for Research in Applied Science & Engineering Technology	10 & 8	2022	2321-9653 / 2321-9653
21	Powar Sudesh Bajirao, Nawale Prashant R	Enhancement technique of heat transfer using inserted twisted tape	Journal of Thermal Engineering	7 & 14	2021	- / 2277-3878
22	Magade Sushilkumar Budhanand	Analysis methods for pile foundation: a critical review of the literature and recommended suggestions.	Innov. Infrastruct. Solut	6 & 18	2021	2364-4184 / 2364-4176
23	Verma Usha Yogesh	Security Analysis of Medical Images using ECC over RSA	Journal of University of Shanghai for Science and Technology	23 & 12	2021	1007-6735 / 1007-6735



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24	Verma Usha Yogesh	A 'Divide and Embed' approach in a robust crypto-watermarking technique for enhancing the embedding capacity	Biomedical Signal Processing and Control	76 & 12	2022	ISSN 1746-8094 / ISSN 1746-8094
25	Patil Sumit Ravindra	Clash Detection using BIM for efficient construction timeline	International Journal of Innovative Research in Technology	9 & 7	2022	NA / 2349-6002
26	Bhosale Dhananjay Babasaheb	Assessment of Pradhan Mantri Gram Sadak Yojana	International Journal for Research in Applied Science & Engineering Technology	9 & 4	2021	-- / 2321-9653
27	Bhosale Dhananjay Babasaheb	Cost Analysis and Productivity of Excavator, Bulldozer, Tipper Truck with using Fleet Management	International Journal for Research in Applied Science & Engineering Technology	9 & 5	2021	-- / 2321-9653
28	Wangikar Vaishali Chandrakant	Apriori Algorithm with Dynamic Parameter Selection and Pruning of Misleading Rules	Smart Trends in Computing and Communications	286 & 9	2021	978-981-16-4016-2 / 978-981-16-4016-2
29	Wangikar Vaishali Chandrakant	UAV System Using Convolutional Neural Network (1. Angle Prediction Model).	ICT Analysis and Applications	314 & 8	2022	978-981-16-5655-2 / 978-981-16-5655-2
30	Wangikar Vaishali Chandrakant	Exploring Research Pathways in Record Deduplication and Record Linkage.	Communication in Computer and Information Science(CCIS),Springer	1 & 9	2021	978-981-16-0507-9 / 978-981-16-0507-9
31	Shewale Sandeep Pandurang	Nano Science-Process Intensification for the Extraction of Phenolic Compound from a Natural Source with Stirred Batch Extraction Techniques	Current Nanomaterials	6 & 5	2021	. / .
32	Shewale Sandeep Pandurang	Extraction of total antioxidants from Azadirachta indica (neem) using three phase partitioning and its process intensification using ultrasound	Preparative Biochemistry & Biotechnology	https://doi.org/10.1080/10826068.2021.1972424 & 0	2021	. / .



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33	Shewale Sandeep Pandurang	Optimization of Nano Science Parameters for Extracting Phenolic Compounds from Ficus religiosa by Three-Phase Partitioning (TPP) Method	Current Nanomaterials	7 & 0	2022	2405-4615 / 2405-4623
34	Pakhale Vinod Dinkar	Removal of Rhodamine 6G Dye From waste water	Arabian Journal of Science & Engineering	46 & 12	2021	6999878 / 997899
35	Chaudhari Nitasha Balkrishna	Recent developments on green synthesised nanomaterials and their application in dye-sensitised solar cell	International Journal of Ambient Energy	43 & 18	2022	- / 0143-0750
36	Malge Abhijeet Manikrao	Steel Surface Defect Detection Using VGG Deep Learning Models	International Journal of Mechanical Engineering	7 & 228	2022	0974-5823 / 0974-5823
37	Malge Abhijeet Manikrao	Wind tunnel and numerical study of multi-storey vertical axis wind turbines with different configurations	Journal of Engineering, Design and Technology ISSN: 1726-0531 Article publication date: 5 March 2021 Reprints & Permissions	20 & 5	2021	00 / 1726-0531
38	Pande Sandeep Dwarkanath	Comprehensive survey of machine learning based heart disease prediction at early stage	Journal of University of Shanghai for Science and Technology	23 & 4	2021	NA / 1007-6735
39	Pande Sandeep Dwarkanath	Fake News Identification Using Regression Analysis and Web Scraping	International Journal of Safety and Security Engineering	12 & 8	2022	NA / 2041-9031
40	Pande Sandeep Dwarkanath	Shape and textural based image retrieval using K-NN classifier	Journal of Intelligent & Fuzzy Systems	43 & 12	2022	NA / 1064-1246
41	Pande Sandeep Dwarkanath	Digitization of handwritten Devanagari text using CNN transfer learning – A better customer service support	Neuroscience Informatics	2 & 12	2022	NA / 2772-5286
42	Gandhi Sudhir Suresh	Process intensification of fatty acid ester production of high acid value Iluppai ennai	Fuel	294 & 120560	2021	18737153 / 0016-2361
43	Shete Mahendra Dattatraya	Enhancing Speaking Skills in English: Challenges and Solutions	Langlit	07 & 11	2021	NA / 2349-5189



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44	Shete Mahendra Dattatraya	The Power of Music and Songs in Teaching and Learning English as a Second Language	LangLit	9 & 11	2021	NA / 2349-5189
45	Kalos Pritam Suryaprakash	Classification of Damages in Composite Material using Multi- support Vector Machine	J. Inst. Eng. India Ser. C	103 & 665	2022	22500545 / 22500553
46	Kalos Pritam Suryaprakash	Selection of raw material supplier for cold-rolled mild steel 5 manufacturing industry	Int. J. Simul. Multidisci. Des. Optim	13 & 9	2022	1779-6288 / 1779-6288
47	Kalos Pritam Suryaprakash	HEAT TRANSFER IN A CIRCULAR TUBE FITTED WITH THE PLUS SHAPE TURBULATOR	International Journal of Advanced Research in Engineering and Technology	12 & 9	2021	NA / 0976-6480
48	Kalos Pritam Suryaprakash	Thermal performance of plus shape divider type turbulator with different inclination angles	MATRERIALS TODAY PROCEEDINGS	NA & 7	2021	NA / https://doi.org/10.1016/j.matpr.2021.05.409
49	Nagarale Amit Vijay	IPL CRICKET SCORE AND WINNING PREDICTION USING MACHINE LEARNING TECHNIQUES	International Research Journal Of Modernization In Engineering Technology And Science	3 & 4	2021	- / 2582-5208
50	Nagarale Amit Vijay	COMPETITIVE ANALYSIS FOR CREDIT RISK ASSESSMENT USING MACHINE LEARNING TECHNIQUES	International Research Journal Of Modernization In Engineering Technology And Science	3 & 4	2021	- / 2582-5208
51	Bhosale Vishal Ashok	Selection of blends of ethanol with petrol for SI engine using TOPSIS and VIKOR methods	Journal of Physics: Conference Series	2178 & 7	2022	1742-6596 / 1742-6596
52	Bhosale Vishal Ashok	Selection of raw material supplier for cold-rolled mild steel manufacturing industry	International Journal for Simulation and Multidisciplinary Design Optimization	13 & 9	2022	-- / 1779-6288



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53	Warpe Santosh Trimbak	Newton Backward Difference Application for Automating Fertilizer Distribution in Agriculture using Wireless Sensor Networks	Agricultural Science Digest(Scopus Indexed)	- & 7	2022	- / 0976-0547
54	Ganjewar Pramod Dattatraya	DENSITY BASED TRAFFIC MANAGEMENT SYSTEM USING IOT	Strad Research	8 & 8	2021	0039-2049 / 0039-2049
55	Bhore Pooja ,Gaikwad Shrustri ,Nagare Kirti ,Ranjana Prabha	SOCIAL DISTANCING DETECTOR USING IOT	Strad Research	8 & 12	2021	0039-2049 / 0039-2049
56	Ganjewar Pramod Dattatraya	Detection of Helmet of Bike Riders	Strad Research	8 & 8	2021	0039-2049 / 0039-2049
57	Shastri Renu Kiran	A Cost Effective Approach to Explore the Electrical Discharge Machined Surface Characteristics of Nimonic C263 Superalloy	Journal of Materials Engineering and Performance	- & 36	2022	- / -
58	Shastri Renu Kiran	Reviewing Performance Measures of the Die-Sinking Electrical Discharge Machining Process: Challenges and Future Scopes	Nanomaterials	- & 17	2022	- / -
59	Shastri Renu Kiran	Sustainable electrical discharge machining of nimonic C263 superalloy	AJSE	-- & 21	2021	Maharashtra / --
60	Muthekar Vijay Vitthal	Predicting Compaction parameters of Silty soil by Nonlinear Multivariable Approach	Indian Geotechnical and Geoenvironmental Conference (IGGEC 21)	10	2021	IGGEC-21 / IGGEC-21
61	Sutar Parag Narayan	Prediction of CO2 solubility in aqueous solutions of N,N-Diethyl ethanolamine (DEEA): A modified Kent-Eisenberg model approach	Journal of Physics: Conference Series	9	2021	1742-6588 / 1742-6596



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62	Mane Ashwini Subodhan	Blockchain Technology :Revolution from Centralized to Distributed System, ICDICI-2021 Springer Conference on 16-17th July 2021	ICDICI-2021 Springer Conference	4	2021	na /
63	Chavan Ashitosh Dilip	Robust Control Algorithm for Piezo-electric Energy Scavenging	International Conference on Communication and Information Processing (ICCIP)	11	2021	NA /
64	Chavan Ashitosh Dilip	Higher Order Extended State Observer in Presence of Fast Varying Mismatched Uncertainty	International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT)	6	2022	978-1-6654-1121-9 / NA
65	Kamble Avinash Gulabrao	Selection of Passenger Car Using TOPSIS Method	Recent Advances in Manufacturing Modelling and Optimization, Lecture Notes in Mechanical Engineering,	10	2022	4236 / 4328
66	Kamble Avinash Gulabrao	Selection of blends of ethanol with petrol for SI engine using TOPSIS and VIKOR methods	International Symposium on Fluids and Thermal Engineering (FLUTE 2021)	8	2022	5623 / 4236
67	Kamble Avinash Gulabrao	Parametric Optimization of Gas Tungsten ArcWelding Using AHP-Based Taguchi Method	Advances in Industrial and Production Engineering, Lecture Notes in Mechanical Engineering,	7	2021	7846 / 1896
68	Kamble Avinash Gulabrao	GSM-Based Operation System for Agricultural Pumps	Advances in Engineering Design, Lecture Notes in Mechanical Engineering,	8	2021	2576 / 4587
69	Kamble Avinash Gulabrao	Optimization of Design Problems Using TLBO and mTLBO Algorithms	Advances in Engineering Design, Lecture Notes in Mechanical Engineering,	11	2021	4523 / 7845
70	Kamble A G	Comparative study of optimization of plate fin heat exchanger and pressure vessel design using mTLBO algorithm	International Conference on Integrated Interdisciplinary Innovations in Engineering	15	2021	5689 / 2563
71	Dharmadhikari Pramod Anantrao	An android based smart robotic vehicle for border security surveillance system	Proceedings - 2021 4th International Conference on Computational Intelligence and Communication Technologies, CCICT 2021	6	2021	doi: 10.1109/CCICT53244.2021.00062 /



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72	Vharkate Minakshi Nanasaheb	Social Media Community Using Optimized Clustering Algorithm”	Lecture Notes in Networks and Systems	6	2021	- / 2367-3389
73	Muthekar Vijay V	Predicting Compaction parameters of Silty soil by Nonlinear multivariable approach	Indian Geotechnical and Geoenvironmental Engineering Conference (IGGEC-21)	8	2021	xxx-xxxx / xxx-xxxx
74	Powar Sudesh Bajirao	CFD Investigation on Optimization of Pipe Pattern in Radiant Cooling System	Techno-Societal 2020	15	2021	978-3-030-69924-6 /
75	Pawar Krunal Bajirao	An Android Based Smart Robotic Vehicle for Border Security Surveillance System	2021 Fourth International Conference on Computational Intelligence and Communication Technologies (CCICT)	6	2021	978-1-6654-2392-2/21/\$31.00 ©2021 IEEE DOI 10.1109/CICT53244.2021.00062 / 978-1-6654-2392-2/21/\$31.00 ©2021 IEEE DOI 10.1109/CICT53244.2021.00062
76	Salve Shrikant Vitthal	Usability Evaluation of Mobile App to Support Road Safety	Pilot Implementation for Testing Human-Work Interaction Designs	6	2021	- /
77	Bhute Avinash Narayanrao	SquashCord: Video Conferencing Application Using WebRTC	High Performance Computing and Networking	11	2022	978-981-16-9885-9 / 978-981-16-9884-2
78	Bhute Avinash Narayanrao	The Safety Management System Using Q-Learning Algorithm in IoT Environment	International Conference on Advanced Computing and Communication Systems (ICACCS)	5	2021	978-1-6654-0521-8 / 2575-7288
79	Bhute Avinash Narayanrao	The Safety Management System Using Q-Learning Algorithm in IoT Environment	proceeding 2021 -IEEE 7th International Conference on Advanced Computing and Communication Systems (ICACCS)	1024	2021	978-1-6654-0521-8 / 2575-7288
80	Bhute Avinash Narayanrao	Functional Electrical Stimulation for Hand Movement of Person	Proceedings of International Conference on Machine Intelligence and Data Science Applications	15	2021	978-981-33-4087-9 / 978-981-33-4086-2
81	Verma Usha ,Sharma Neelam	Enhancing the Security of Medical Images in Telemedicine Using Region-based Crypto-Watermarking Approach	12th International conference on Cloud Computing, Data Science and Engineering (Confluence 2022)	8	2022	978-1-6654-3701-1 / 978-1-6654-3701-1
82	Jain Shitalkumar Arvind	The Safety Management System Using Q-Learning Algorithm in IoT Environment	2021 7th International Conference on Advanced Computing and Communication Systems (ICACCS)	5	2021	978-1-6654-0521-8 / 2575-7288



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83	Wangikar Vaishali Chandrakant	Apriori Algorithm for Dynamic Parameter Selection and Pruning of Misleading Rules	Fifth International Conference on Smart Trends in Computing and Communications (SmartCom 2021)	10	2021	978-981-16-4016-2 /
84	Wangikar Vaishali Chandrakant	Exploring Research Pathways in Record Deduplication and Record Linkage	Recent Trends in Image Processing and Pattern Recognition	12	2021	978-981-16-0506-2 / 1865-0929
85	Wangikar Vaishali Chandrakant	Evaluation of Academic Performance of Students Using Fuzzy Logic	021 International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation (ICAECA),	5	2022	978-1-6654-2829-3 / 978-1-6654-2830-9
86	Malge Abhijeet Manikrao	A Study on Women Police Bullet-Proof Jacket Considering Anthropometry Data, Comfort and Safety in Pune, India. In: Kolhe M.L., Jaju S.B., Diagavane P.M. (eds) Smart Technologies for Energy, Environment and Sustainable Development.	Springer Proceedings in Energy. Springer, Singapore.	20	2022	978-981-16-6875-3 / 978-981-16-6875-3
87	Malge Abhijeet Manikrao	A Study on Women Police Bullet-Proof Jacket Considering Anthropometry Data, Comfort and Safety in Pune, India.	Vol 1, Springer Proceedings in Energy. Springer, Singapore. https://doi.org/10.1007/978-981-16-6875-3_57	217	2022	978-981-16-6875-3 / 978-981-16-6875-3
88	Kale Shubhangi Prabhakar	Signature Recognition Models: Performance Comparison	2021 International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation, ICAECA 2021, 2021(5)	5	2021	10.1109/ICAECA52838.2021.9675598 / 978-1-6654-2829-3
89	Kale Shubhangi Prabhakar	Improving Search using Automatic Query Expansion	2021 Third International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV)	5	2021	978-1-6654-2998-6 / 978-1-6654-2998-6
90	Pande Sandeep Dwarkanath	Fast Medicinal Leaf Retrieval Using CapsNet	International Conference on Intelligent and Smart Computing in Data Analytics, Advances in Intelligent Systems and Computing 1312,	7	2021	978-981-33-6176-8 /
91	Gundecha Aniket Dinesh	Robust Control Algorithm for Piezo-electric Energy Scavenging	3rd International Conference on Communication and Information Processing	11	2021	NA / NA



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92	Shukla Shyam Narayan	Impact of skew vane cut on alternating stress in a low specific speed Radial pump impeller vane using fluid-structure interaction (FSI) Simulations	Proceedings of the American Society of Mechanical Engineers (ASME) 2021 Fluids Engineering Division Summer Meeting (FEDSM2021)	9	2021	978-0-7918-8529-1 / NA
93	Shukla Shyam Narayan	Evaluation of the influence of the number of vanes in a diffuser on the performance of multistage pump using CFD	26th International Conference on Hydraulics, Water Resources and Coastal Engineering (HYDRO 2021)	7	2021	NA / NA
94	Shukla Shyam Narayan	Multi-Fidelity CFD Approach for Hydrodynamic Performance Analysis of a Prototype Francis Turbine- A Comparative Study	48th National Conference on FLUID MECHANICS AND FLUID POWER (FMFP 2021)	6	2021	NA / NA
95	Wabhitkar Bhaskar Deorao	Shear Strength Improvement of Black Cotton Soil Reinforced with Waste Plastic Bottle Strips	Smart Technologies for Energy, Environment and Sustainable Development	11	2022	978-981-16-6875-3 / 2352-2534
96	Wabhitkar Bhaskar Deorao	Improvement in Liquid and Plastic Limit for Black Cotton Soil by Addition of RBI Grade 81	Smart Technologies for Energy, Environment and Sustainable Development	5	2022	978-981-16-6875-3 / 2352-2534

8. Research Projects/Schemes Undertaken by Teachers (2021-2022)							
Sr. No.	Name of the Investigator(s)	Faculty	Title of the Research Project/Scheme	Name of the Funding Agency	Duration of the Project/Scheme	Amount Sanctioned (Rs.)	Major/Minor
1	Sumit Patil Saurabh Newale Shubham Patil Ganesh Na	Engineering	Experimental study on concrete by partial replacem	Other	15/10/2019-31/07/2020	50000	Major
2	Patil Sumit Patil Siddhant Potawade Mayur Patole S	Engineering	Use of Super-absorbent polymer in concrete as an i	Other	30/01/2020-31/07/2020	50000	Major
3	Sumit Patil Ritvik Patil Pradnya Rane Prasad Pawar	Engineering	Analyzing material properties of No fine concrete	Other	30/01/2020-31/07/2020	50000	Major



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9.	Teachers Attended Conferences, Seminars, Symposia, Workshops etc. (2021-2022)				
Sr. No.	No. of Teachers Attended State Level	No. of Teachers Attended National Level	No. of Teachers Attended International Level		
1	3	52	10		
10.	No. of Collaboration with International Institute/Colleges/University Department during the Year (2021-2022)				
Sr. No.	MoU	Exchange Program	Exchange of Teachers	Franchise	
1	34	0	0	0	
11.	Grants Sanction for Funding Agency (2021-2022)				
Sr. No.	UGC	DST/DBT/B.Voc.	CE/CPE	S.P. Pune University	Any Other
1	0	0	0	0	1

12.	Faculty Wise Enrollment Of Students (2021-2022)													
Faculty		Sex	Open	Sc	ST	DT(A)	NT	NT(B)	NT(C)	NT(D)	OBC	SBC	Physically Challenged	Total
Engineering		FEMALE	63	14	3	2	0	4	6	8	44	5	0	149
		MALE	271	54	5	13	0	11	15	11	129	15	0	524
TOTAL			334	68	8	15	0	15	21	19	173	20	0	673



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13. Statistical Information about Teacher for Academic Year (2021-2022)							
Sr.No.	Category	Granted			Non Granted		
		Male	Female	Total	Male	Female	Total
1	DT(A)	0	1	1	0	1	1
2	NT(B)	0	0	0	2	0	2
3	NT(C)	0	0	0	1	0	1
4	NT(D)	0	0	0	1	0	1
5	OBC	6	2	8	6	2	8
6	OPEN	9	13	22	23	11	34
7	SBC	2	0	2	5	0	5
8	SC	3	3	6	7	2	9
	Total	20	19	39	45	16	61

Signature
HOD/Principal/Director