



AR2205294

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

College Details

1.	Name Of the Department/College/Institute	:	Zeal Education Society Zeal College of Engineering and Research Addr: Sr No 39Katraj-Dhayari Road Narhe Pune Ta: Haweli(excluding Corporation Area) Dist: Pune	2.	Address Of the Department/College/Institute	:	Sr No 39Katraj-Dhayari Road Narhe Pune Ta: Haweli(excluding Corporation Area) Dist: Pune Pincode: 411041
3.	Name Of the Head/Principal/Director	:	Ajit Madhukarrao Kate	4.	Tele (O/R) With STD Code/Mobile No., Fax No, Email Address and Website Address	:	Tele.- 02067206106 Email- zealinstitutes@gmail.com URL- www.dcoerpune.org

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	Ritapure Parmeshwar Pandurang	Effect Analysis of Process Parameters on Lubricated Sliding Wear of Al-25Zn-2Cu-2.5Si Alloy for Plain Bearing Application	Springer, Cham	2021	9783030699253 / 9783030699246
2	Ritapure Parmeshwar Pandurang	Dynamic Modeling and Experimental Study of Forced Convection Evacuated Tube Solar Collector Used for Grape Dryer	Springer, Cham	2021	9783030699253 / 9783030699246
3	Ingle Akash Sopan	Wastewater Treatment Plants Advantage to Combat Climate Change and Help Sustainable Water Management	Springer nature	2021	. / .

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	9	0	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	Redekar Sailee Dilip	Recognition of Accidental Black Spots from new Katraj Tunnel to Sarola	IJRSET	10 & 7	2021	Maharashtra / 2319-8753



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2	Redekar Sailee Dilip	Appraisal in properties of soil using scrapped concrete material	IJRSET	10 & 8	2021	2319-8753 / NA
3	Shirbahadurkar Suresh Damodar	Indian classical musical instrument classification using Timbral features	Concurrency Computational Practice Experience 2021; e6418.	33 & 19	2021	1532-0634 / 1532-0634
4	Shirbahadurkar Suresh Damodar	Renyi entropy and deep learning-based approach for accent classification	Multimedia Tools and Applications https://doi.org/10.1007/s11042-021-11371-4	81 & 33	2021	1380-7501 / 1380-7501
5	Kulkarni Prasad Anant	ASIC Design of Butterfly Unit based on Non-redundant and Redundant Algorithm	Iranian Journal of Electrical and Electronics Engineering	17 & 18091816	2021	23833890 / 17352827
6	Kulkarni Prasad Anant	ASIC Design of Radix-2, 8-Point FFT Processor	Journal of scientific and Industrial Research	80 & 9	2021	0022-4456 / 0975-1084
7	Chavan Sachin Uttam	A STUDY OF OD INTERVENTION: A TOOL FOR EMPLOYEE DEVELOPMENT & ORGANIZATIONAL TRANSFORMATION	Jijnasa	38 & 7	2021	.. / 0337-743X
8	Chavan Sachin ,Sashte Snehal	Finacial Planning their needs and Requirement	Wesleyan Journal of Research	Vol 13 & 17	2021	0 / 0975-1386
9	Kagne Ashvini Hanmantrao	Providing privacy preserving techinques for storing Patients Heath data in E health care System	STD	X & 5	2021	Maharashtra / 0950-0707
10	Thakre Pravin Ajabrao	A MATHEMATICAL MODEL FOR ACCESS CONTROL THROUGH TRUST MANAGEMENT IN UBIQUITOUS COMPUTING	Stochastic Modeling & Applications	26 & 8	2022	0972-3641 / 0972-3641
11	Thakre Pravin Ajabrao	Experience Modelling For Ubiquitous Computing: A Mathematical Approach	Turkish Journal of Computer and Mathematics Education	12 & 13	2021	1309-4653 / 1309-4653



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12	Ritapure Parmeshwar P	Influence of SiC on solid particle erosion and mechanical behavior of Al-25Zn alloy based novel metal matrix composites fabricated through stir casting technique	Advances in Materials and Processing Technologies	Not yet assigned & 15	2021	0 / 2374068X, 23740698
13	Ritapure Parmeshwar P,	Pin temperature and Al2O3 fillings effect on sliding wear characteristics of Al25Zn/ Al2O3 composites	Part J: Journal of Engineering Tribology	Not assigned Yet & 14	2021	2041-305X / 01350-6501
14	Ritapure Parmeshwar Pandurang	Optimization of dry sliding wear characteristics of Al-25Zn/SiC hybrid composites by graphite reinforcement using artificial neural network and Taguchi's method	Tribology - Materials, Surfaces & Interfaces	https://doi.org/10.1080/17515831.2021.2002598 & 14	2021	0 / 1751-584X
15	Wakchaure Ajit Vasant	Steel Intensive Building for rural applications	international journal of innovative research in science engineering and technology	10 & 8	2021	23206710 / 2319-8753
16	Jagtap Hanumant Pandurang	RAM analysis and availability optimization of thermal power plant water circulation system using PSO	Energy Reports	7 & 21	2021	2352-4847 / 2352-4847
17	Walvekar Pralhad Prabhakar	Recognition of Accidental Black Spots from New Katraj Tunnel to Sarola	International Journal of Innovative Research in Science, Engineering and Technology	10 & 8	2021	2319-8753 / 2319-8753
18	Sawale Punam Sanjay	Finding real time contextual tweets on twitter	IRJET	08 & 4	2021	e-ISSN: 2395-0056 / p-ISSN: 2395-0072
19	Chaugule Balaji Arjun	Android and Web-Based College Academic App	IJSREM	5 & 5	2021	2582-3930 / 2582-3930
20	Chaugule Balaji Arjun	IMAGE PROCESSING ALGORITHM FOR TEXT RECOGNITION AND FEATURE EXTRACTION FOR VISUALLY UNSIGHTED PEOPLE	IJSREM	5 & 7	2021	2582-3930 / 2582-3930
21	Patil Chetana Dipak	DEPTH BASED HAND GESTURE RECOGNITION	IJERD	18 & 5	2022	2278-067X / 2278-800X



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22	Akkalkot Afsha Imran	Competitive Analysis for the Auditing Cloud Consistency	International Journal of Scientific Research in Science and Technology	9 & 7	2022	2395-602X / 2395-6011
23	Parab Chandrashekhar Raghuvir	Experimental study on water retention capacity of lateritic soil by varying percentage of bentonite clay	International Research Journal of Engineering and Technology	8 & 4	2021	- / 2395-0072
24	Pokharkar Mahesh Shripat	Mr	Role of Modern Computing Techniques in Cyber Security Issue	0011-9342 & 11	2021	0011-9342 / 0011-9342
25	Kshirsagar Jaysing Ashok	A PROTOTYPE MODEL OF DUAL AXIS SOLAR TRACKER SYSTEM	INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS - IJCRT (IJCRT.ORG)	10 & 143	2022	2320-2882 / 2320-2882
26	Kshirsagar Jaysing Ashok	SOLAR POWERED WATER QUALITY MONITORING SYSTEM USING SENSORS	International Research Journal of Modernization in Engineering Technology and Science	04 & 24	2022	2582-5208 / 2582-5208
27	Ritapure Parmeshwar Pandurang	Effect Analysis of Process Parameters on Lubricated Sliding Wear of Al-25Zn-2Cu-2.5 Si Alloy for Plain Bearing Application	Techno-Societal 2020	10	2021	978-3-030-69925-3 / 978-3-030-69924-6
28	Ritapure Parmeshwar Pandurang	Dynamic Modeling and Experimental Study of Forced Convection Evacuated Tube Solar Collector Used for Grape Dryer	Techno-Societal 2020	12	2021	978-3-030-69925-3 / 978-3-030-69924-6
29	Jagtap Hanumant Pandurang	An integrated approach for interoperability of standards, condition monitoring methods, and research models used in the power generation sector	IOP Conference Series: Materials Science and Engineering	9	2021	17578981 / 1757-8981
30	Walvekar Pralhad Prabhakar	A study on reuse of grit material from sewage treatment plant as fine aggregate in concrete and feasibility in compost	International e-Conference on Sustainable Development in Concrete Technology	8	2021	978-93-91041-26-7 / 978-93-91041-26-7



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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
NA	NA	NA	NA	NA	NA	NA	NA
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		12		6		
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	10	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	4		



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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	130	31	1	5	0	5	11	1	48	2	0	234
	MALE	327	59	3	9	0	5	18	8	97	11	0	537
TOTAL		457	90	4	14	0	10	29	9	145	13	0	771

13. Statistical Information about Teacher for Academic Year (2021-2022)							
Sr.No.	Category	Granted			Non Granted		
		Male	Female	Total	Male	Female	Total
1	NT(B)	0	1	1	1	1	2
2	NT(C)	1	0	1	2	1	3
3	OBC	2	0	2	7	3	10
4	OPEN	2	1	3	27	7	34
5	SBC	0	0	0	1	0	1
6	SC	1	0	1	10	3	13
Date : 7	ST	0	0	0	1	0	1
Place :	Total	6	2	8	49	15	64

Signature
HOD/Principal/Director