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Preamble

This file reports a summary of research papers published by faculty members during the last five years. Faculty members from the department regularly publish their research papers in reputed national/ international peer reviewed journals. They also publish book chapters in edited books and publish the patents.

A. Summary of Publications

Academic Year	Indexed in				Total Number of Publications
	Scopus	Web of Science	UGC care	Google Scholar	
2022-23	28	07	17	32	32
2021-22	05	09	09	25	25
2020-21	09	02	08	37	37
2019-20	16	11	10	33	33
2018-19	09	02	11	25	25
Total	67	31	55	152	152

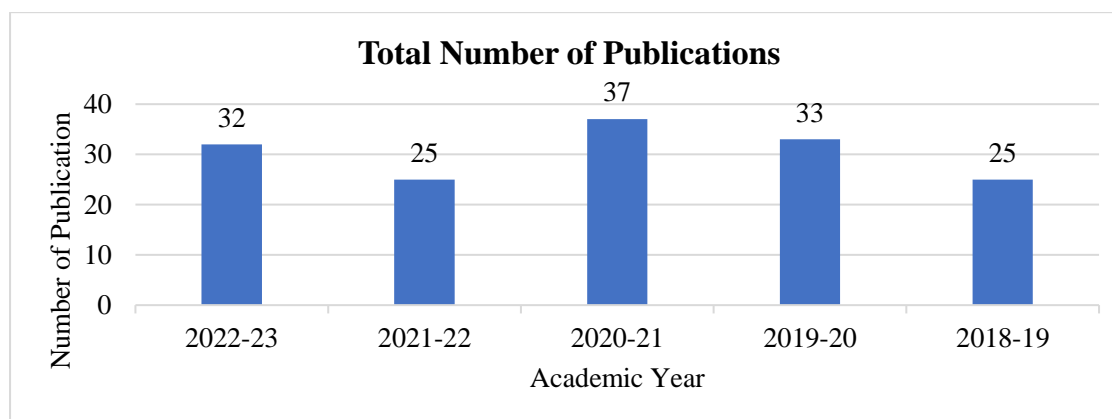


Figure 1: Total Number of Publications

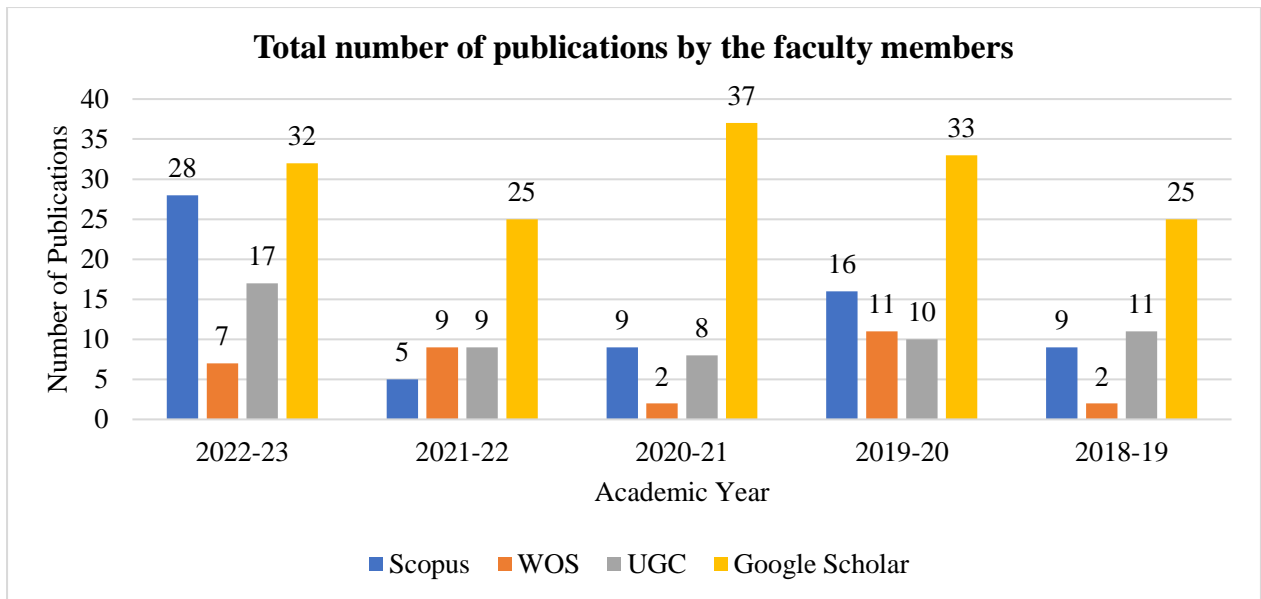


Figure 2: Total number of publications by the faculty members

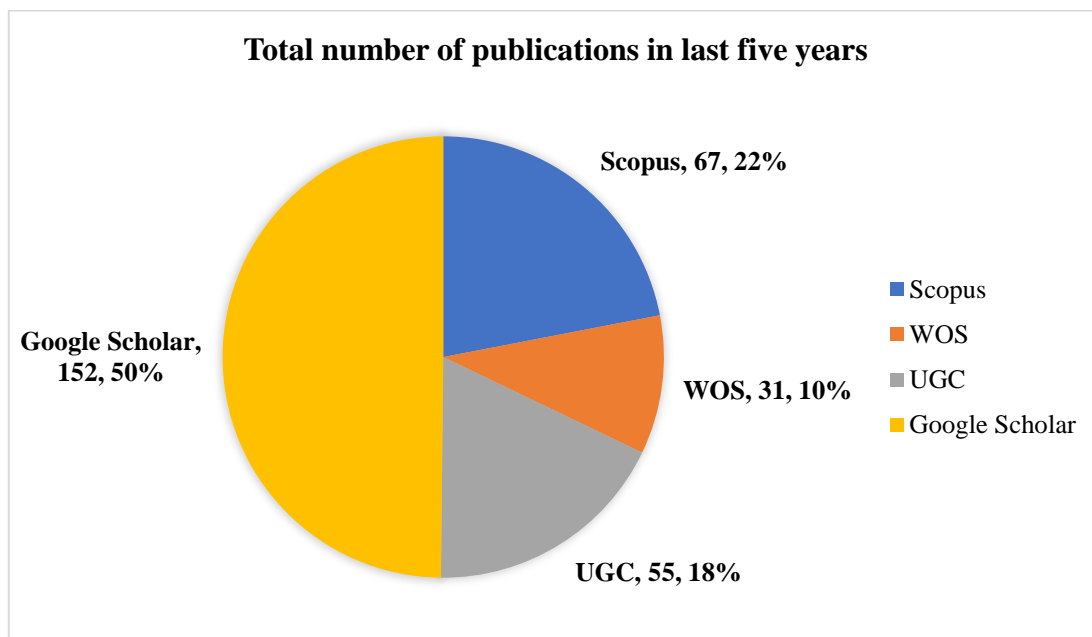


Figure 3: Total number of publications in reputed journal

B. Faculty wise details of Books/ Chapters Published

Sr. No.	Name of Faculty	Academic Year					Total
		2022-23	2021-22	2020-21	2019-20	2018-19	
1.	Dr. K. B. Sutar	01	01	00	00	00	02
2.	Dr. S. S. Chavan	01	00	01	01	00	03
3.	Dr. P. V. Jadhav	00	01	00	02	00	03
4.	Dr. V. K. Kurkute	00	00	01	00	00	01
5.	Dr. D. G. Kumbhar	01	00	00	00	00	01
6.	Dr. K. A. Rade	01	00	00	00	00	01
7.	Mr. M. K. Beldar	01	00	00	00	00	01
8.	Mr. A. C. Pawar	01	00	00	00	00	01
TOTAL		04	02	02	03	00	11

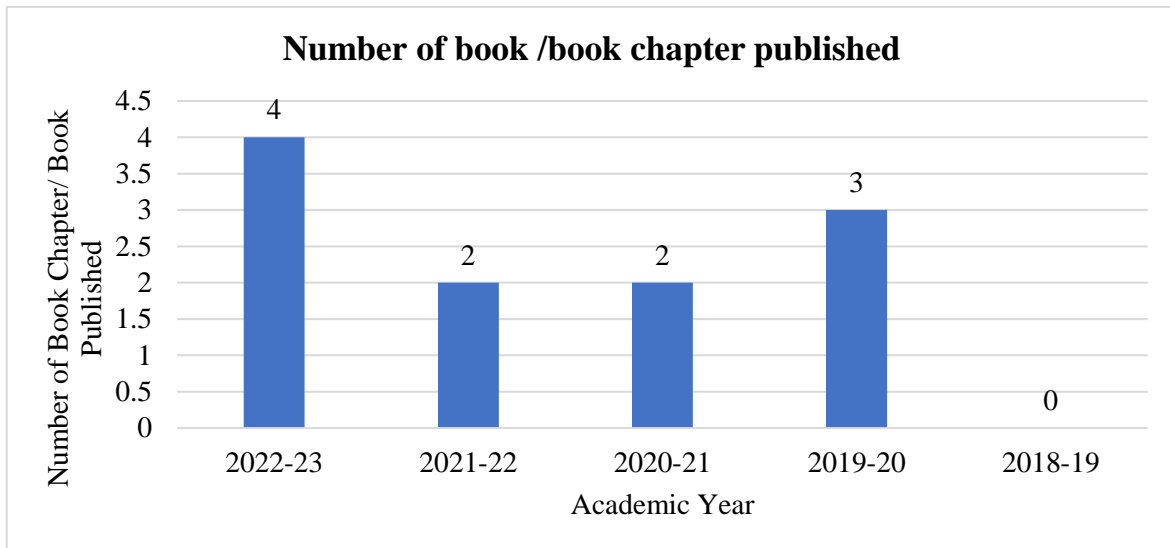


Figure 4: Book/book chapter published.

C. Faculty wise details of Patent Published/Granted

Sr. No.	Name of Faculty	Academic Year					Total
		2022-23	2021-22	2020-21	2019-20	2018-19	
1.	Dr. K. B. Sutar	00	01	00	00	00	01
2.	Dr. S. S. Chavan	00	02	02	01	02	07
3.	Dr. P. V. Jadhav	02	02	01	02	00	07
4.	Dr. D. B. Jadhav	00	03	00	00	00	03
5.	Mr. S. R. Pawar	01	00	00	00	00	01
TOTAL		03	07	03	02	02	17

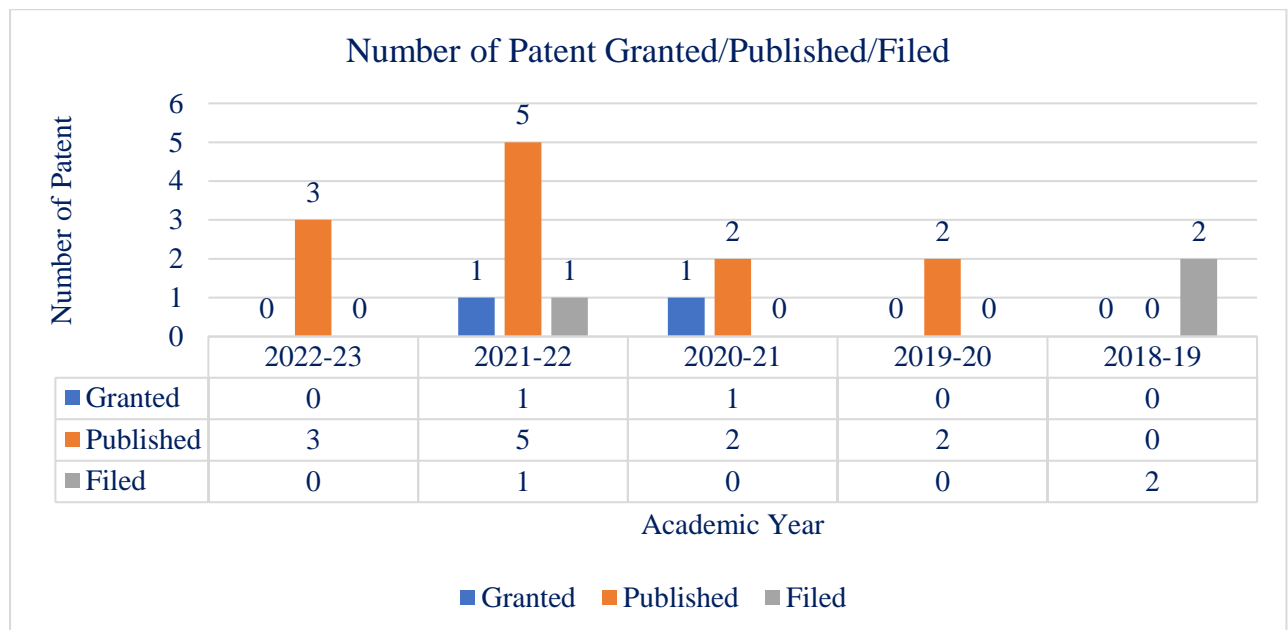


Figure 5: Number of Patent Published/Granted

1. R&D Details: Publications/SCI Journals, Patent Granted/ Published/ Filed and Books/ Book Chapters

1.1 Number of quality publications in refereed/SCI Journals, citations

Faculty members regularly publish their research works in reputed national/ international journals, conferences. They also publish book chapters in edited books.

Table 1: Faculty wise publications in reputed journals during last five year

Sr. No.	Name of Faculty	No. of Quality publications/SCI Journals in the assessment Year					Total Citations
		Scopus	WOS	UGC Care	Google Scholar	Total	
1.	Dr. K. B. Sutar	05	07	08	10	10	24
2.	Dr. S. S. Chavan	22	06	23	40	40	148
3.	Dr. P. V. Jadhav	21	08	13	32	32	46
4.	Dr. V. K. Kurkute	02	02	06	07	07	08
5.	Dr. D. G. Kumbhar	03	03	05	10	10	06
6.	Prof. S. R. Bhargave	00	00	00	00	00	00
7.	Dr. M. A. Kadam	01	00	01	02	02	01
8.	Prof. V. J. Shinde	00	00	00	00	00	00
9.	Dr. K. A. Rade	08	06	02	14	14	23
10.	Prof. S. D. Lembhe	01	00	00	03	03	00
11.	Dr. P. V. Londhe	01	00	02	03	03	03
12.	Prof. M. J. Patil	03	00	01	04	04	01
13.	Dr. D. B. Jadhav	04	01	03	08	08	03
14.	Prof. J. G. Nikam	00	00	00	00	00	00
15.	Prof. U. S. Pawar	01	00	01	02	02	00
16.	Prof. P. A. Dixit	02	01	01	03	03	01
17.	Prof. S. R. Pawar	00	00	00	00	00	00
18.	Prof. P. D. Yadav	02	00	02	05	05	00
19.	Prof. M. K. Beldar	00	00	01	02	02	00
20.	Prof. A. S. Jadhav	01	00	01	02	02	00
21.	Prof. A. N. Nayak	01	00	01	02	02	01
22.	Prof. Y. V. Thorat	01	01	01	03	03	02
23.	Prof. A. C. Pawar	04	02	02	06	06	19
24.	Prof. S. T. Shinde	00	00	00	15	15	02
25.	Mr. S. V. Gaikwad	00	00	00	00	00	00
26.	Prof. N. V. Kulkarni	00	00	00	00	00	00
27.	Prof. S. L. Chinke	01	00	00	01	01	00

Publications, Book/Book chapter and Patents Published by Faculty of Mechanical Engineering

28.	Prof. D. D. Mohite	04	03	04	13	13	10
29.	Prof. R. S. Lavate	01	00	01	04	04	00
30.	Prof. S. S. Unde	00	01	01	01	01	03
31.	Prof. A. A. Harale	01	00	01	01	01	01
TOTAL		67	31	55	152	152	302

Table 2: Year wise publications of the faculty

Sr. No.	Name of the Faculty	Academic Year					Total Number of Publications
		2022-23	2021-22	2020-21	2019-20	2018-19	
1.	Dr. K. B. Sutar	03	03	00	02	02	10
2.	Dr. S. S. Chavan	07	04	10	06	13	40
3.	Dr. P. V. Jadhav	10	03	07	10	02	32
4.	Dr. V. K. Kurkute	00	02	01	02	02	07
5.	Dr. D. G. Kumbhar	02	02	00	04	02	10
6.	Prof. S. R. Bhargave	00	00	00	00	00	00
7.	Dr. M. A. Kadam	00	00	00	02	00	02
8.	Prof. V. J. Shinde	00	00	00	00	00	00
9.	Dr. K. A. Rade	06	03	01	04	00	14
10.	Prof. S. D. Lembhe	00	01	01	00	01	03
11.	Dr. P. V. Londhe	00	00	01	01	01	03
12.	Prof. M. J. Patil	01	00	01	02	00	04
13.	Dr. D. B. Jadhav	03	01	00	02	02	08
14.	Prof. J. G. Nikam	00	00	00	00	00	00
15.	Prof. U. S. Pawar	01	01	00	00	00	02
16.	Prof. P. A. Dixit	02	01	00	00	00	03
17.	Prof. S. R. Pawar	00	00	00	00	00	00
18.	Prof. P.D. Yadav	02	02	00	00	01	05
19.	Prof. M. K. Beldar	00	00	01	01	00	02
20.	Prof. A. S. Jadhav	01	00	00	01	00	02
21.	Prof. A. N. Nayak	01	00	00	00	01	02
22.	Prof. Y. V. Thorat	01	01	00	01	00	03
23.	Prof. A. C. Pawar	02	00	01	03	00	06
24.	Prof. S. T. Shinde	02	02	11	00	00	15
25.	Mr. S. V. Gaikwad	00	00	00	00	00	00
26.	Prof. N. V. Kulkarni	00	00	00	00	00	00
27.	Prof. S. L. Chinke	00	00	00	00	01	01
28.	Prof. D. D. Mohite	03	05	03	02	00	13

29.	Prof. R. S. Lavate	01	01	01	01	00	04
30.	Prof. S. S. Unde	00	01	00	00	00	01
31.	Prof. A. A. Harale	01	00	00	00	00	01
TOTAL		32	25	37	33	25	152

Table 3: Year wise number of publications in reputed journals

Academic Year	Indexed in				Total Number of Publications
	Scopus	Web of Science	UGC care	Google Scholar	
2022-23	28	07	17	32	32
2021-22	05	09	09	25	25
2020-21	09	02	08	37	37
2019-20	16	11	10	33	33
2018-19	09	02	11	25	25
Total	67	31	55	152	152

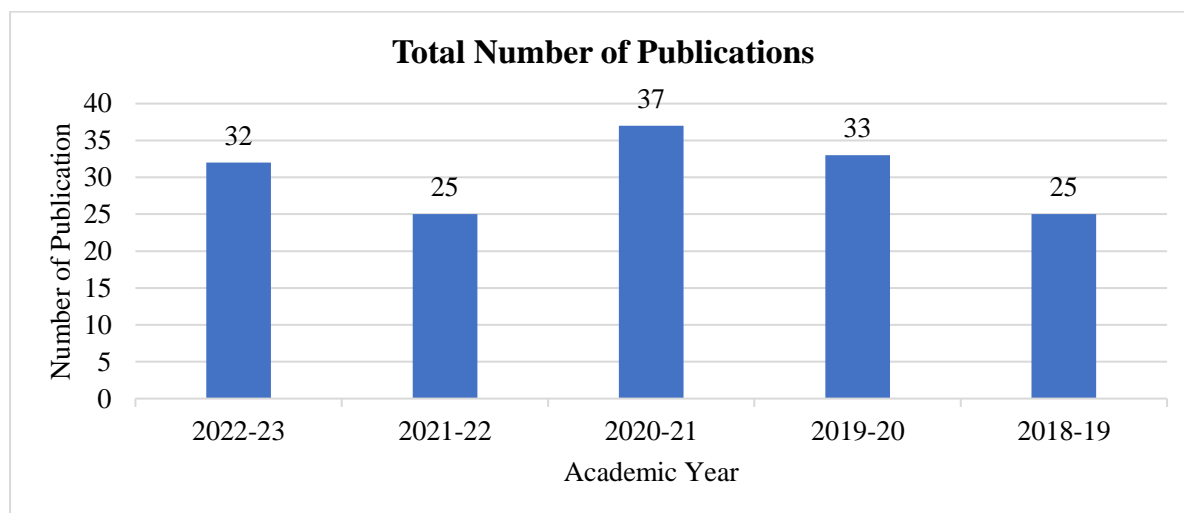


Figure 6: Total Number of Publications

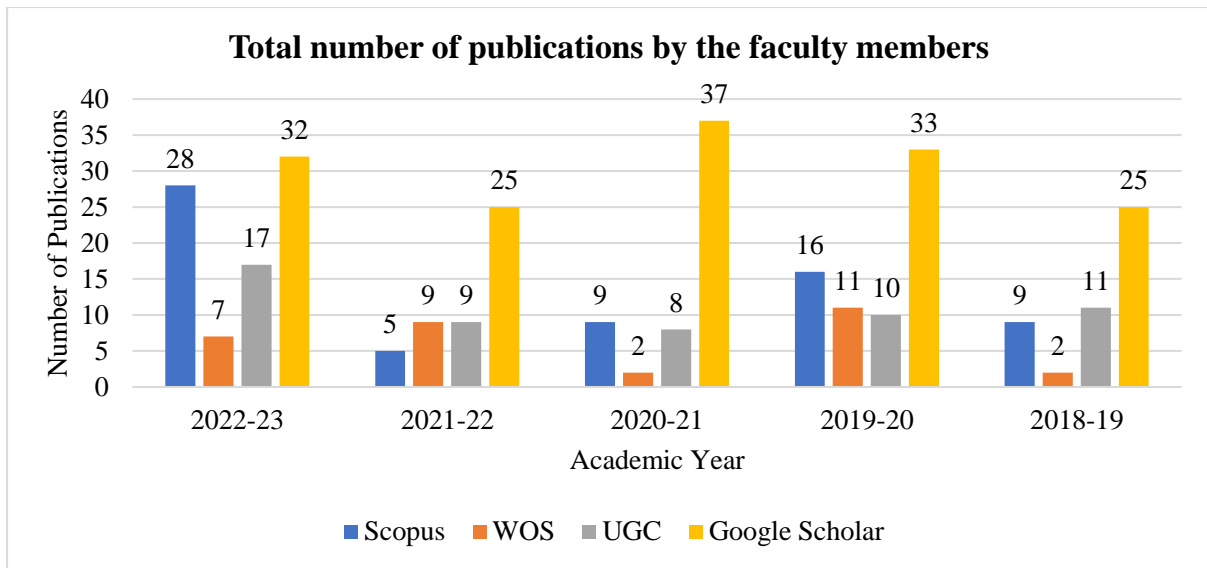


Figure 7: Total number of publications by the faculty members

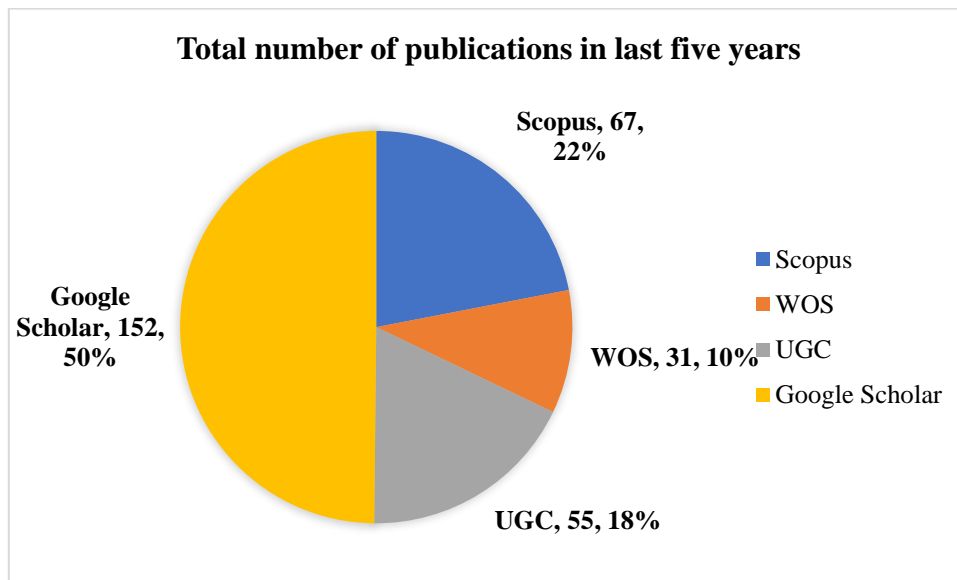


Figure 8: Total number of publications in reputed journal

Table 4: Details of publications during assessment years: Annexure- I

Annexure- I: Publications and Citation details

Table 4: Details of publications during assessment years

Academic Year: 2022-23

Sr. No .	Name of Faculty	Title of Research Paper/ Book Chapter / etc	Name of the Journal	Scopus	WOS	UGC Care	Google Scholar	Month & Year of Publication	ISSN / ISBN	Vol. & Issue	Impact factor	DOI	Citation Till Date
1.	Dr. Kailasnath B Sutar	Clean cooking with downdraft biomass gasifier cookstove: Effect of gasifier performance	Energy	Yes	Yes	Yes	Yes	Jan-23	1873-6785	Vol. 263, Part A	7.147	https://doi.org/10.1016/j.energy.2022.125631	0
2.	Dr. Kailasnath B Sutar, Dr. D G Kumbhar	Desalination using solar stills: A review	Environmental Progress & Sustainable Energy	Yes	Yes	Yes	Yes	Oct-22	1944-7450	e140 25	2.824	https://doi.org/10.1002/ep.14025	2
3.	Dr. Kailasnath B Sutar	Development of a Natural Draft Metal Biomass Cookstove for Community Kitchen	Journal of Advanced Research in Fluid Mechanics and Thermal Sciences	Yes	Yes	Yes	Yes	Feb-23	2289-7879	Vol. 102, Issue 2	1.388	https://doi.org/10.37934/arfmts.102.2.120	0
4.	Dr. Sachin S Chavan	Acid-Modified ZnO Nanoparticles Embedded Polysulfone Membranes for Separation of Copper from Industrial Wastewater	International Journal of Membrane Science and Technology	Yes			Yes	Oct-22	2410-1869	9		10.15379/2410-1869.2022.07	0

Publications, Book/Book chapter and Patents Published by Faculty of Mechanical Engineering

5.	Dr. Sachin S Chavan, Mr. Ashwin N Nayak, Mr. Dadaso D Mohite	An influence of CNC grinding wheel dressing parameters on Ra value of EN19 steel	Materials Today: Proceedings	Yes		Yes	Yes	Mar-23	2214-7853		1.46	https://doi.org/10.1016/j.matpr.2023.02.260	1
6.	Dr. Sachin S Chavan	An Insight into Nylon 6,6 Nanofibers Interleaved E-glass Fiber Reinforced Epoxy Composites	Journal of The Institution of Engineers (India): Series C	Yes		Yes	Yes	Feb-23	2250-0545	Vol. 104(1)	1.312	https://doi.org/10.1007/s40032-022-00882-0	2
7.	Dr. Sachin S Chavan, Dr. Pradeep V Jadhav	Effects of stabilization on structures and properties of Electrospun Polyacrylonitrile based carbon nanofibers as a binder free electrode for supercapacitor application	Materials Today: Proceedings	Yes		Yes	Yes	Jan-23	2214-7853	Vol. 72(6)	1.46	https://doi.org/10.1016/j.matpr.2022.07.250	1
8.	Dr. Sachin S Chavan, Dr. Pradeep V Jadhav	Oxidative Stabilization and Characterization of Electrospun Polyacrylonitrile Nanofiber Web on Different Substrates	Journal of The Institution of Engineers (India): Series C volume	Yes		Yes	Yes	Dec-22	2250-0545	Vol. 103(6)	1.312	https://doi.org/10.1007/s40032-022-00874-0	1
9.	Dr. Sachin S Chavan, Mr. Unmesh S Pawar	Performance Analysis on Hybrid Composites Leaf spring with Natural fibers Reinforcement.	International Journal of Materials Engineering Innovation (Inderscience)	Yes			Yes	Accepted	1757-2762	in process		Accepted	0

Publications, Book/Book chapter and Patents Published by Faculty of Mechanical Engineering

10.	Dr. Sachin S Chavan, Mr. Aniket S Jadhav	Synthesis and Characterization of Nanomaterial Based Polymeric Thin Films for Agriculture with Climatic Control	Asian Journal of Chemistry	Yes		Yes	Yes	Dec-22	0975-427X	vol. 35 (1)		http://dx.doi.org/10.14233/ajchem.2023.24015	0
11.	Dr. Pradeep V Jadhav	A Survey into Challenges and the Need for Heating Element Technology in Root Canal Procedures	Journal of Engineering Research and Sciences	Yes			Yes	Dec-22	2831-4085	Volume 1, Issue 12		http://dx.doi.org/10.55708/js0112003	0
12.	Dr. Pradeep V Jadhav, Dr. Mahesh J Patil, Ms. P A Dixit, Mr. Prashant D Yadav, Mr. Dadaso D Mohite, Mr. Akshay A Harale	An experimental investigation of photo chemical machining process for stainless-steel material by using different etchants	Materials Today: Proceedings	Yes		Yes	Yes	Jan-23	22147853	10.1016/j.matpr.2023.03.324		10.1016/j.matpr.2023.03.324	0
13.	Dr. Pradeep V Jadhav	Bearing element integrity analysis using dimensional analysis and response surface method (RSM) for fault diagnosis of rotor bearing system	AIP Conference Proceedings	Yes		Yes	Yes	May-23	0094243X	Volume 2716		http://dx.doi.org/10.1063/5.0136995	1

Publications, Book/Book chapter and Patents Published by Faculty of Mechanical Engineering

14.	Dr. Pradeep V Jadhav	Experimental and numerical investigation on fault diagnosis of horizontal rotor-bearing system using central composite rotatable design (CCRD)	AIP Conference Proceedings	Yes		Yes	Yes	May-23	00942 43X	Volume 2716		http://dx.doi.org/10.1063/5.0129787	1
15.	Dr. Pradeep V Jadhav	Fabrication of PDMS based micro channel for lab-on-a-chip application using CO2 laser machining	AIP Conference Proceedings	Yes		Yes	Yes	May-23	978-07354 4451-5	Volume 2716		http://dx.doi.org/10.1063/5.0129777	0
16.	Dr. Pradeep V Jadhav	Investigation and assessment for specific volume of Gutta-Percha as a biomaterial in RCT	Materials Today: Proceedings	Yes		Yes	Yes	Jan-23	2214-7853	Vol. 72 (3)	1.46	https://doi.org/10.1016/j.matpr.2022.08.499	0
17.	Dr. Pradeep V Jadhav	Multi-objective optimization in wire electro discharge machine turning of stain less steel 316	AIP Conference Proceedings	Yes		Yes	Yes	May-23	00942 43X	Volume 2716		http://dx.doi.org/10.1063/5.0129785	1
18.	Dr. Pradeep V Jadhav	Process parameter improvement for NITi's electrical discharge machining (EDM) process utilizing the TOPSIS approach	Research on Engineering Structures and Materials (RESM)	Yes			Yes	Dec-22	2148-9807	Vol. 9 Iss. 1	-	http://dx.doi.org/10.17515/resm2022.510ma0826	1
19.	Dr. D G Kumbhar	Use of biofuel with nano-additives in low heat rejection engines	AIP Conference Proceedings	Yes		Yes	Yes	May 2023	ISSN: 0094-243X	2716 (1)		https://doi.org/10.1063/5.0130387	2

Publications, Book/Book chapter and Patents Published by Faculty of Mechanical Engineering

20.	Dr. Kuldip A Rade	Advanced digital twin applications for future maintenance optimization	International Journal of Advance research in Science and Engineering	Yes			Yes	Jul-22	1319-8354	11(7)		https://www.ijarse.com/images/fullpdf/1658992546_KJ214.pdf	0
21.	Dr. Kuldip A Rade, Mr. Amar C Pawar	Analytical approach to suppress the vibration of spur gear pair using particle damping technique	Materials Today: Proceedings	Yes		Yes	Yes	Sep-22	2214-7853	Vol. 13 (3)	1.46	https://doi.org/10.1016/j.matpr.2022.09.336	0
22.	Dr. Kuldip A Rade	Design and Analysis of Lifting Tackle Used for Heavy Loads 1	YMER - International Open Access Journal				Yes	Sep-22	0044-0477	Vol. 21 (9)	5.7	10.37896/YMER 21.09/58	2
23.	Dr. Kuldip A Rade	Modernized Application Development Using Optimized Low Code Platform	Asian Conference on Innovation in Technology, IEEE Xplore	Yes	Yes		Yes	Oct-22	978-1-6654-6852-7	Special Issue	11.979	https://doi.org/10.1109/ASIANCON55314.2022.9908726	0
24.	Dr. Kuldip A Rade	Optimization for achieving sustainability in low code development platform	International Journal on Interactive Design and Manufacturing (IJIDeM)	Yes	Yes		Yes	Apr-23	1955-2505	17(2)		http://dx.doi.org/10.1007/s12008-023-01338-0	2
25.	Dr. Kuldip A Rade, Mr. Amar C Pawar	Perspectives Of Visualization of Vibration Quant Data To Study Effect Of Particle Damping For Gearbox Using Data Analytical Tool: Tableau	Journal of Pharmaceutical Negative Results	Yes	Yes		Yes	Dec-22	0976-9234	Vol. 13 (9)	0.654	https://doi.org/10.47750/pnr.2022.13.S09.1018	0

Publications, Book/Book chapter and Patents Published by Faculty of Mechanical Engineering

26.	Dr. Dattatray B Jadhav	Enhancement of Grinding Process using Boric Acid as Solid Lubricant	Journal of Data Acquisition and Processing				Yes	Apr-23	1004-9037	Volume 38 Issue 1		http://dx.doi.org/10.5281/zenodo.7765986	0
27.	Dr. Dattatray B Jadhav	Evaluation of Delay Parameter of MQTT Protocol	International Journal of Engineering Trends and Technology	Yes			Yes	Mar-23	2349-0918	Volume 71 Issue 3		http://dx.doi.org/10.14445/22315381/IJETT-V71I3P223	0
28.	Dr. Dattatray B Jadhav	Security and QoS (Quality of Service) Related Current Challenges in IoT	International Journal of Electronics and Communication Engineering	Yes			Yes	April, 2023	2348-8549	Volume 10 Issue 4		http://dx.doi.org/10.14445/23488549/IJECE-V10I4P102	0
29.	Ms. Prachi A Dixit	Experimental Study of The Operating Parameters on the Performance of a Single-Stage Stirling Cryocooler Cooling Infrared Sensor For Space Application	Aircraft Engineering and Aerospace Technology	Yes	Yes		Yes	June 2023	0002-2667	ahead-of-print		https://doi.org/10.1108/AEAT-02-2023-0051	1
30.	Mr. P. D Yadav, Mr. Y.V. Thorat, Mr. D D Mohite, Mr. R S Lavate	Mechanism for segregation of cutting fluid and scrap for industrial application	Materials Today: Proceedings	Yes		Yes	Yes	Mar-23	2214-7853		1.46	https://doi.org/10.1016/j.matpr.2023.03.160	0

31.	Mr. Shekhar T. Shinde	Medical Diagnostic System Using Artificial Intelligence (AI) Algorithms	Shodhasamhita				Yes	January – June 2023	2277-7067	117 Vol. No .X, Issue - I (II)	https://tinyurl.com/469vhh8r	16
32.	Mr. Shekhar T. Shinde	Review on Energy audit and consumption analysis of an educational institution	Shodhasamhita				Yes	January – June 2023	2277-7067	117 Vol. No .X, Issue - I (II)	https://tinyurl.com/3crtyxas	0

Academic Year: 2021-22

Sr. No.	Name of Faculty	Title of Research Paper/ Book Chapter / etc	Name of the Journal	Scopus	WOS	UGC Care	Google Scholar	Month & Year of Publication	ISSN / ISBN	Vol. & Issue	Impact factor	DOI	Citation Till Date
1.	Dr. Kailasnath B Sutar, Dr. D G Kumbhar	Computational Investigation on Natural Convection Heat Transfer in Vertical Plate Fin Arrays	Indian Journal of Science and Technology		Yes	Yes	Yes	Jul-21	0974-5645	Vol. 14(24)	0.113	10.17485/IJST/v14i24.863	0
2.	Dr. Kailasnath B Sutar, Dr. D G Kumbhar, Mr. Sanket S. Unde	Computational Studies on Airfoil for Micro-Capacity Horizontal Axis Wind Turbine	Indian Journal of Science and Technology		Yes	Yes	Yes	Aug-21	0974-5645	Vol. 14(29)	0.113	10.17485/IJST/v14i29.824	3
3.	Dr. Kailasnath B Sutar	Laboratory & Field Performance of Two In-House Developed Metal Biomass Cookstoves	Advanced Engineering Forum			Yes	Yes	Jun-22	2234-991X	Vol. 46	0.2	10.4028/p-z83f87	0
4.	Dr. Sachin S Chavan, Mr. Unmesh S Pawar	A Recent Trends in Natural Fiber Reinforced Composites: Critical Review and Preparation of Novel Composite	Industrial Engineering Journal			Yes	Yes	Jun-22	0970-2555	Vol. 15, Issue 06	3.12	Print Only	0

Publications, Book/Book chapter and Patents Published by Faculty of Mechanical Engineering

5.	Dr. Sachin S Chavan	BioFibGel: A Green Nanotechnology Based Wound Dressing	Indian Journal of Pharmaceutical Education and Research	Yes	Yes	Yes	Yes	Dec-21	0019-5464	Vol 5 ,Issue 4	0.75	10.5530/ijper.55.4.199	1
6.	Dr. Sachin S Chavan, Mr. Dadaso D Mohite, Mr. Yuvraj V Thorat	Electro spun PAN Nanofiber with Optimized Diameter	Journal of Algebraic Statistics		Yes		Yes	May-22	1309-3452	Vol. 13, No. 2	0.141	10.52783/jas.v13i2.309	2
7.	Dr. Sachin S Chavan	Electrospun 1D TiO2 nanofibers for dye-sensitized solar cell application	Materials Today: Proceedings	Yes	Yes	Yes	Yes	May-22	2214-7853	Vol. 47	1.46	10.1016/j.matpr.2022.05.166	4
8.	Dr. Pradeep V Jadhav	Experimental Investigation of Tensile and Flexural Strength of Banana & Coir Fibers hybrid composite	International Journal of Mechanical Engineering				Yes	Dec-21	0974-5823	Vol6, Issue 3	2.1	https://tinyurl.com/2dpapdcr	0
9.	Dr. Pradeep V Jadhav	Fabrication and Mechanical Testing of Metal Matrix and Composite Material	International Journal of Mechanical Engineering				Yes	Dec-21	0974-5823	Vol6, Issue 3	2.1	https://tinyurl.com/45dvx6h8	0
10.	Dr. Pradeep V Jadhav	Optimization Of Response Parameters of Electrical Discharge Machine Using Shape Memory Alloy	International Journal of Mechanical Engineering				Yes	Dec-21	0974-5823	Vol6, Issue 3	2.1	https://kalaharijournals.com/resources/DEC_497.pdf	0
11.	Dr. Vijay K Kurkute	Design and Finite Element Analysis of Differential Multi-Gauging System	International Journal of Recent Tech. and Engg.			Yes	Yes	Mar-22	2277-3878	Vol.8(6)	0.107	10.35940/ijrte.F7937.038620	0

Publications, Book/Book chapter and Patents Published by Faculty of Mechanical Engineering

12.	Dr. Vijay K Kurkute	Power generation with the application of vortex wind turbine	Materials Today: Proceedings	Yes	Yes	Yes	Yes	Sep-21	2214-7853	Vol. 56(5)	1.46	10.1016/j.matpr.2021.08.228	0
13.	Dr. Kuldip A Rade	Design and Analysis of Lifting Tackle Used for Heavy Loads	Journal of Algebraic Statistics		Yes		Yes	Jun-22	1309-3452	Vol 13 issue 2	0.21	https://doi.org/10.52783/jas.v13i2.277	1
14.	Dr. Kuldip A Rade, Mr. Dadaso D Mohite	Experimental Investigation on Speed and Torque Analysis of Planetary Gearing System	Journal of Algebraic Statistics		Yes		Yes	Jun-22	1309-3452	Vol 13 issue 2	0.21	10.52783/jas.v13i2.309	0
15.	Dr. Kuldip A Rade, Mr. Amar C Pawar	Review on Investigation of Particle Damping Technique for Vibration Suppression in Different Applications	International Journal of Contemporary Architecture "The New ARCH"	Yes			Yes	Jul-21	2198-7689	Vol 8 issue 2	2.717	https://the-new-arch.net/index.php/journal/article/view/381	1
16.	Mr. Sanjay D Lembhe	Ultraviolet Sanitization Machine	International Research Journal of Engineering and Technology (IRJET)				Yes	Aug-21	2395-0056	Vol. 8	7.529	https://tinyurl.com/564tuyp3	0
17.	Dr. Dattatray B Jadhav	Design and Fabrication of Hybrid Electric Bicycle	International Research Journal of Engineering and Technology				Yes	Jul-21	2395-0056	Vol. 8	7.529	https://tinyurl.com/y6aw9dbb	0
18.	Ms. Prachi A Dixit, Mr. Dadaso D Mohite	A New Approach to Design Sanitizing Machine by using Automated Guided System	International Journal of Research in Engineering and Applied Sciences				Yes	Aug-21	2249-3905	Vol. 11, Issue 8	7.196	https://tinyurl.com/bdbespw4	0

Publications, Book/Book chapter and Patents Published by Faculty of Mechanical Engineering

19.	Mr. Prashant D Yadav	Automated Sewage Cleaning System	International Research Journal of Engineering and Technology (IRJET)				Yes	Aug-21	2395-0056	Volume: 08 Issue: 08	7.529	https://tinyurl.com/28rpk8s	0
20.	Mr. Prashant D Yadav	IOT Enabled Industrial Helmet	International Journal of Enhanced Research in Science, Technology & Engineering				Yes	Aug-21	2319-7463	Vol. 10 Issue 8	7.957	https://tinyurl.com/y995saj4	0
21.	Mr. Shekhar T. Shinde	Energy Audit and Energy Management in Residential House	International Journal of Innovative Science and Research Technology				Yes	Jul-21	2456-2165	Volume 6, Issue 6,	-	https://tinyurl.com/yxxyjmd2	0
22.	Mr. Shekhar T. Shinde	Energy Audit: A Case Study on Mechanical Engineering Building	International Journal of Innovative Science and Research Technology				Yes	Mar-22	2456-2165	Volume 6, Issue 3,	-	https://tinyurl.com/yc8y534c	0
23.	Mr. Dadaso D Mohite	Design And Analysis of Advanced Walker Cum Rollator	Journal of Engineering Research (JER), ICIPPSD Special Issue	Yes	Yes	Yes	Yes	Sep-21	2307-1877	Special Issue	0.64	10.36909/jer.ICIP PSD.15535	2

24.	Mr. Dadaso D Mohite	Technical Aspects of Multipurpose Weed Cutter or Power Weeder	International Journal of Enhanced Research in Science Technology & Engineering				Yes	Jul-21	2319-7463	Volume 10, Issue 7	7.957	10.13140/RG.2.2.11613.33765	2
25.	Mr. Roheshkumar S Lavate	Alteration of Plastic Waste into Thermal Fuel by Pyrolysis – A Review	International Research Journal of Engineering and Technology (IRJET)				Yes	Aug-21	2395-0056	Volume: 08 Issue: 08	7.529	https://tinyurl.com/5jded8sm	0

Academic Year: 2020-21

Sr. No.	Name of Faculty	Title of Research Paper/ Book Chapter / etc	Name of the Journal	Scopus	WOS	UGC Care	Google Scholar	Month & Year of Publication	ISSN / ISBN	Vol. & Issue	Impact factor	DOI	Citation Till Date
1.	Dr. Sachin S Chavan	A high-performance solid-state transformer for an efficient electric grid application: Design and analysis for advanced nanocrystalline core	Materials Today: Proceedings	Yes		Yes	Yes	Mar-21	2214-7853	Vol 47	1.46	10.1016/j.matpr.2021.02.469	2
2.	Dr. Sachin S Chavan	An insight into advance self-healing composites	Materials Research Express	Yes	Yes	Yes	Yes	May-21	2053-1591	Vol. 8 Iss. 5	2.025	10.1088/2053-1591/abfba5	23
3.	Dr. Sachin S Chavan	An insight into numerical investigation of bioreactor for possible oxygen emission on Mars	Materials Today: Proceedings	Yes		Yes	Yes	Jan-21	2214-7853	Vol 47	1.46	10.1016/j.matpr.2021.04.059	5
4.	Dr. Sachin S Chavan	Applications of Nanotechnology in Computers	International Journal of Advanced Research in Engg. and Technology				Yes	Sep-20	0976-6480	Volume 11, Issue 9	5.8376	10.34218/IJARE T.11.9.2020.055	0
5.	Dr. Sachin S Chavan	Design and CFD analyses of aluminium alloy-based vortex tubes with multiple inlet nozzles for their optimum performances in sustainable applications	Materials Today: Proceedings	Yes		Yes	Yes	Apr-21	2214-7853	Vol-47	1.46	10.1016/j.matpr.2021.03.482	5

Publications, Book/Book chapter and Patents Published by Faculty of Mechanical Engineering

6.	Dr. Sachin S Chavan	Design of Innovative LED Mirror by using Product Design principles	International Journal of Electrical Machines and Drives				Yes	Jun-21	2088-8694	Volume 7, Issue 1	1.984	https://tinyurl.com/he5xphr9	0
7.	Dr. Sachin S Chavan	Electrospun Polyacrylonitrile Carbon Nanofiber for Supercapacitor Application: A Review	Advanced Engineering Forum			Yes	Yes	Apr-21	2234-991X	Vol. 40	0.2	10.4028/www.scientific.net/AEF.40.25	2
8.	Dr. Sachin S Chavan	Implementation of Theory of Constraints Using Drum-Buffer-Rope Method in Flywheel Housing Manufacturing Industry	UDYOG PRAGATI, The Journal for Practicing Managers (National Institute of Industrial Engineering. NITIE)				Yes	Mar-21	0970-3365 .	Vol. 42	-	https://www.nitie.ac.in/files/UP-Vol-42-1-Jan-Mar-2021.pdf	0
9.	Dr. Sachin S Chavan	Nanotechnology Applications in Automobiles: Comprehensive Review Of Existing Data	International Journal of Modern Trends in Engineering and Science				Yes	Oct-20	2348-3121	Volume:07 Issue :02	-	https://tinyurl.com/4rkt9yv5	0
10.	Dr. Sachin S Chavan	Synthesis of ultrathin ZnO, nylon-6,6 and carbon nanofibers using electrospinning method for novel applications	Materials Today: Proceedings	Yes		Yes	Yes	Jun-21	2214-7853	Vol. 47, 03	1.46	10.1016/j.matpr.2021.06.289	13

Publications, Book/Book chapter and Patents Published by Faculty of Mechanical Engineering

11.	Dr. Pradeep V Jadhav	Analyzing Relation of Canal Operating Force and Canal Curvature in RCT: A Mathematical Overview	Materials Today: Proceedings	Yes		Yes	Yes	May-21	2214-7853	Vol 47 (1)	1.46	10.1016/j.matpr.2021.03.746	4
12.	Dr. Pradeep V Jadhav	Challenges in the development of a new obturation device: A questionnaire survey	International Journal of Advance Research, Ideas and Innovations in Technology				Yes	Nov-20	2454-132X	Vol 6, Issue 4	4.927	https://tinyurl.com/ybh42bfm	0
13.	Dr. Pradeep V Jadhav	Cornering Fatigue Test and Radial Fatigue Test on a Rim with steps for a Mono-tire E-Vehicle using Finite Element Analysis	International Journal of Advanced Science and Technology				Yes	Jul-20	2207-6360	Vol 29, issue 3s	0.475	https://tinyurl.com/28aaxbtp	0
14.	Dr. Pradeep V Jadhav	Dynamic response analysis of unbalanced rotor bearing system with internal radial clearance	SN Applied Sciences	Yes	Yes	Yes	Yes	Nov-20	25233971	Vol 2(11)	2.11	10.1007/s42452-020-03608-y	13
15.	Dr. Pradeep V Jadhav	Enhancement of surface finish of shape memory alloy using electrical discharge machine	Annals of the Romanian Society for Cell Biology				Yes	May-21	1583-6258	Volume 25: Issue 5	0.9	https://tinyurl.com/ytm5zz93	1
16.	Dr. Pradeep V Jadhav	Experimental Investigation on Analysis of Taper Angle of Micro-Holes Machined on Inconel 718 by Electrochemical Micromachining	International Journal of Advanced Science and Technology				Yes	Jul-20	2207-6360	Vol 29, issue 3s	0.475	https://tinyurl.com/2w2ayf8w	0

Publications, Book/Book chapter and Patents Published by Faculty of Mechanical Engineering

17.	Dr. Pradeep V Jadhav	Knowledge Based Engineering and It's Application in Engineering: A Review	International Journal for Scientific Research & Development				Yes	Nov-20	23210613	vol 8(1)	1.2617	https://tinyurl.com/yc5mbwuc	3
18.	Dr. Vijay K Kurkute	Analysis of Automated differential Multi-gauging System through Gauge Repeatability and Reproducibility (GRR)	REVISTA GEINTEC-GESTAO INOVACAO E TECNOLOGIAS				Yes	Jun-21	237-0722	Vol. 11(4)	1.26	https://tinyurl.com/y4bm9jzx	0
19.	Dr. Kuldip A Rade, Mr. Amar C Pawar	Effect of Parametric Analysis on Gearbox Vibration Using Particle Damping Method	International Journal of Contemporary Architecture "The New ARCH"	Yes			Yes	Jun-21	2198-7688	Vol 8 issue 2	2.717	https://tinyurl.com/2s4a5438	1
20.	Mr. Sanjay D Lembhe	Effects of hot forging and subsequent carburisation on low-carbon steels	Journal of Physics Conference Series (JPCS)	Yes			Yes	Aug-20	1742-6596	Vol. 1	0.547	10.1088/1742-6596/1706/1/012214	0
21.	Dr. P. V. Londhe	Review -Approaches of Nanofibers Manufacturing with Bio-Medical Applications	International Research Journal of Engineering and Technology (IRJET)				Yes	Jun-21	2395-0056	Vol. 8, Issue 6	7.529	https://tinyurl.com/5d4et3u5	0
22.	Dr. Mahesh J Patil	Review-Manpower Surveillance Using Artificial Intelligence	International Research Journal of Engineering and Technology (IRJET)				Yes	May-21	e-ISSN: 2395-0056	Vol 8, Issue 5	7.52	https://tinyurl.com/5xdv4uds	0

Publications, Book/Book chapter and Patents Published by Faculty of Mechanical Engineering

23.	Mr. Mahavir K Beldar, Mr. Roheshkumar S Lavate	Increasing Efficiency of Peltier Module and Parametric Study of Water Extraction from Air Using Peltier Module	International Research Journal of Engineering and Technology (IRJET)				Yes	Jun-21	2395-0072	Vol. 08, Issue 06	7.529	https://www.irjet.net/archives/V8/i6/IRJET-V8I6819.pdf	0
24.	Mr. Shekhar T. Shinde	A Case Study on Assessment Performance and Energy Efficient Recommendations for Industrial Boiler	International Journal of Research and Analytical Reviews				Yes	May-21	2349-9788; P-ISSN: 2454-2237	Vol. 8; Issue : 4	7.17	https://tinyurl.com/mrdwbze6	2
25.	Mr. Shekhar T. Shinde	Energy audit and efficiency recommendations on spring washer plant.	International Journal of Research and Analytical Reviews				Yes	Mar-21	2349-5138	Volume: 08 Issue : 01	7.17	https://tinyurl.com/4va3savn	0
26.	Mr. Shekhar T. Shinde	Energy Audit and Conservation Project Of Hostel	International Journal of Research and Analytical Reviews				Yes	Apr-21	2349-5138	Volume 8, Issue 2	7.17	https://tinyurl.com/3yc2te3h	0
27.	Mr. Shekhar T. Shinde	Energy Audit and Energy Efficient Recommendations with Payback Period for Industrial Boiler	International Journal of Innovative Science and Research Technology				Yes	May-21	2456-2165	Volume 6, Issue 5	-	10.52403/ijrr.20210410	0

Publications, Book/Book chapter and Patents Published by Faculty of Mechanical Engineering

28.	Mr. Shekhar T. Shinde	Energy Audit and Energy Retrofit for Residential Building	International Journal of Innovative Research in Science, Engineering and Technology				Yes	Mar-21	320-6710	Volume 10, Issue 3	0.544	https://tinyurl.com/49y965rt	0
29.	Mr. Shekhar T. Shinde	Energy Audit and Recommendations with Payback Period.	International Journal of Research and Analytical Reviews				Yes	Jun-21	2349-5138	Vol. 8, Issue 2	7.17	https://tinyurl.com/39ekmttt	0
30.	Mr. Shekhar T. Shinde	Energy Audit with Efficiency Recommendation on Dental Clinic	International Research Journal of Engineering and Technology				Yes	Jun-21	2395-0072	Volume: 08 Issue : 06	5.95	https://tinyurl.com/3d5xctxv	0
31.	Mr. Shekhar T. Shinde	Energy scrutinizes and efficient recommendations in educational institute.	International research journal of engineering and technology				Yes	Jun-21	2395-0056	Volume 8, Issue 6	-	https://tinyurl.com/4adh49ep	0
32.	Mr. Shekhar T. Shinde	Lean Manufacturing System for Manufacturing Industries	International Research Journal of Engineering and Technology				Yes	Jun-21	2395-0056	Vol. 8 Issue 6	5.95	10.13140/RG.2.2.14726.45124	0
33.	Mr. Shekhar T. Shinde	Performance Assessment of Rathi CNG Filling Station with Energy Efficiency Recommendations	International Journal of Research and Analytical Reviews				Yes	Apr-21	2348-1269	Volume 8, Issue 2	7.17	https://tinyurl.com/2s3dr287	0

34.	Mr. Shekhar T. Shinde	Thermo Mechanical Analysis of Cylinder Liner	International Research Journal of Engineering and Technology				Yes	Nov-20	2395-0056	Vol. 7 Iss. 11	5.95	https://tinyurl.com/84kkvr	0
35.	Mr. Dadaso D Mohite	Design and Analysis of Hook Nut for a 75 Tonne EOT-Crane	International Journal of Trend in Scientific Research and Development (IJTSRD)				Yes	Dec-20	2456-6470	Volume 5, Issue 1	6.005	https://tinyurl.com/nhks9ccj	0
36.	Mr. Dadaso D Mohite	Nanomaterials in Automotive Applications: A Review and its Technical Aspects	International Journal of Contemporary Architecture "The New ARCH"				Yes	Jun-21	2198-7689	Volume 8, Issue 2	2.717	https://tinyurl.com/2e3my6v6	0
37.	Mr. Dadaso D Mohite	Recent Development in Green Fuel Vehicles and their Future Advancements	International Research Journal of Engineering and Technology (IRJET)				Yes	Oct-20	2395-0056	Volume 7, Issue 10	7.529	https://tinyurl.com/5n8nsbhb	0

Academic Year: 2019-20

Sr. No.	Name of Faculty	Title of Research Paper/ Book Chapter / etc	Name of the Journal	Scopus	WOS	UGC Care	Google Scholar	Month & Year of Publication	ISSN / ISBN	Vol. & Issue	Impact factor	DOI	Citation Till Date
1.	Dr. Kailasnath B Sutar	Computational Study on Blade of Micro-capacity Wind Turbine	International Journal of Scientific & Technology Research				Yes	Sep-19	2277-8616	Vol. 8(9)	-	https://tinyurl.com/4psszsb4	0
2.	Dr. Kailasnath B Sutar	Experimental investigation on pot design and efficiency of LPG utilization for some domestic cooking processes	Energy for Sustainable Development	Yes	Yes	Yes	Yes	Jun-20	0973-0826	Vol. 56(5)	5.655	10.1016/j.esd.2020.04.006	9
3.	Dr. Sachin S Chavan	3D Printing and Advance Material Technology	International Journal of Grid and Distributed Computing				Yes	Jan-20	1899-1936	Vol. 13, No. 2	0.136	https://tinyurl.com/y995saj4	0
4.	Dr. Sachin S Chavan, Mr. Aniket S Jadhav	A effect of temperature, light, ultraviolet radiation, and humidity on the productivity of different crops in a agriculture field	International Journal of Mechanical and Production Engineering Research and Development				Yes	Jun-20	2249-8001	Vol - 10, Issue - 3	0.744	https://tinyurl.com/4svrj3ab	0

5.	Dr. Sachin S Chavan	Fracture problems, vibration, buckling, and bending analyses of functionally graded materials: A state-of-the-art review including smart FGMS	Taylor and Francis Group Particulate Science and Technology an International Journal	Yes	Yes	Yes	Yes	Jul-19	0272-6351	Volume 37 Issue 5	2.356	10.1080/02726351.2017.1410265	43
6.	Dr. Sachin S Chavan, Mr. Yuvraj V Thorat	Manufacturing and Testing of PAN Nano Fibres, Banana Epoxy Nanocomposite	International Journal of Innovative Technology and Exploring Engineering (IJITEE)				Yes	Aug-19	2278-3075	Volume-8 Issue -10	0.546	https://www.ijitee.org/wp-content/uploads/papers/v8i10/I8034078919.pdf	0
7.	Dr. Sachin S Chavan	Photoluminescence characteristics of chemically synthesized Ag doped ZnS nanoparticles	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	Yes			Yes	Jul-19	2278-3075	Volume-8 Issue -9	0.546	10.35940/ijitee.I8025.078919	0
8.	Dr. Sachin S Chavan, Dr. P. V. Londhe	Synthesis of Biofunctionalized Nanofibers (Curcumin, Gelatine and Formic Acid) using Electrospinning Process and Optimization of Parameters for Diameter of Nanofibers	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	Yes		Yes	Yes	Jul-19	2278-3075	Volume-8	0.546	10.35940/ijitee.I3040.0789S319	1

Publications, Book/Book chapter and Patents Published by Faculty of Mechanical Engineering

9.	Dr. Pradeep V Jadhav, Dr. Dattatray B Jadhav	Anodic dissolution of gamma titanium aluminide Ge 48-2-2, TNM b1 and TNB V5 materials using Electrochemical machining electrolytes for aviation application	International Journal of Mechanical and Production Engineering Research and Development				Yes	Yes	Jun-20	2249-6890	Vol 10, issue 3	-	https://tinyurl.com/4n9zsp4v	0
10.	Dr. Pradeep V Jadhav	CFD Based Analysis of Simple T-Junction and Y-Junction Micro Mixers with Different Obstacles	Techno-Societal - Proceedings	Yes	Yes			Yes	Jan-20	978-303016847-6	Vol 2	-	10.1007/978-3-030-16962-6_37	0
11.	Dr. Pradeep V Jadhav	Continuous Electro Coagulation Process for the Distillery Spent Wash Using Al Electrodes.	Techno-Societal - Proceedings	Yes	Yes			Yes	Jan-20	978-303016847-6	Vol 2	-	10.1007/978-3-030-16962-6_37	9
12.	Dr. Pradeep V Jadhav	Development and Validation of Transportation Methodology by Predicting Dynamic Behavior of Container for Safe Transportation.	Techno-Societal - Proceedings	Yes	Yes			Yes	Jan-20	978-303016847-6	Vol 11	-	10.1007/978-3-030-16848-3_86	1
13.	Dr. Pradeep V Jadhav	Experimental investigation of crack for tensile loading condition by using hole drilling method	Techno-Societal - Proceedings	Yes	Yes			Yes	Jan-20	978-303016847-6	Vol 2	-	10.1007/978-3-030-16962-6_92	0
14.	Dr. Pradeep V Jadhav	Experimental Investigation Of Mechanical Properties Of The Natural Hybrid Composite Using Epoxy	NOVYI MIR Research Journal					Yes	Mar-20	0130-7673	vol. 5, Issue 6	6.1	https://tinyurl.com/ycxzawau	0

15.	Dr. Pradeep V Jadhav	Investigation Of a Mechanical Properties Of A Banana & Bagasse Fiber Composite By Using NaOH And H2o2 Treatment	Studies in Indian Place Names				Yes	Mar-20	23943 114	vol 40, is sue 88	-	https://tinyurl.com/2prd38ue	0
16.	Dr. Pradeep V Jadhav	Linear Static Analysis and Dynamic Analysis of a Mono-tyre Bike Wheel Inner-Hub Design Using Finite Element Analysis	Techno-Societal - Proceedings	Yes	Yes		Yes	Jan-20	978-303016847-6	Vol 2	-	10.1007/978-3-030-16962-6_19	0
17.	Dr. Pradeep V Jadhav, Dr. Dattatray B Jadhav	Modal Analysis of Ultrasonic Stack Assembly	Springer_Techno-Societal- Proceedings	Yes	Yes	Yes	Yes	Nov-19	978-303016847-6	Vol 2	-	10.1007/978-3-030-16962-6_20	0
18.	Dr. Pradeep V Jadhav	Optimization of Multiple Performance Characteristics of Surface Micro-Textured Journal Bearing	Techno-Societal - Proceedings	Yes	Yes		Yes	Jan-20	978-303016847-6	Vol 2	-	10.1007/978-3-030-16962-6_39	2
19.	Dr. Vijay K Kurkute	Analysis and Optimization of Surface Roughness and Microhardness for Roller Burnishing using Response Surface Methodology and Desirability Function Approach on Aluminum 63400	Journal of Advanced Manufacturing Systems	Yes	Yes	Yes	Yes	Nov-19	1793-6896	Vol. 18(3)	2.35	10.1142/S0219686719500197	0

Publications, Book/Book chapter and Patents Published by Faculty of Mechanical Engineering

20.	Dr. Vijay K Kurkute	Optimizing Parameters of Micro-EDM on INCONEL718 Using Single Hole Brass Electrode	International Journal of Grid and Distributed Computing			Yes	Yes	Jun-20	2005-4262	Vol. 13(2)	0.136	http://sersec.org/journals/index.php/IJGDC/article/view/35440	2
21.	Dr. D G Kumbhar, Dr. M A Kadam	CFD and Experimentation on Heat Transfer Enrichment in Receiver Tube for Parabolic Trough Collector	Test engineering and management				Yes	Jan-20	0193-4120	Vol. 82	0.427	https://tinyurl.com/ymeccyix	1
22.	Dr. D G Kumbhar	Experimental Study Of Conjugate Convection Heat Transfer Using Plane, 25% Depth, 50% Depth, 75% Depth Rectangular Fins	International Journal of Scientific Research in Engineering and Management				Yes	Jan-20	2005-4238	Vol. 4	7.14	https://tinyurl.com/48jvbyzf	0
23.	Dr. D G Kumbhar, Dr. M A Kadam	Heat Transfer Enhancement of Receiver Tube with Twisted Tape Inserts and Vortex Generator at Different Orientation using CFD Analysis	International Journal of Advanced Science and Technology	Yes		Yes	Yes	Jan-20	2005-4238	Vol. 29, No. 4	0.475	http://sersec.org/journals/index.php/IJAST/article/view/7277	0
24.	Dr. Kuldip A Rade, Mr. Amar C Pawar	A Review on Performance of Particle Damper Method to Suppress the Vibrations for Different Applications	Global Journal of Engineering Science and Research				Yes	Aug-19	2348-8034	Vol-C	5.07	http://www.gjesr.com/Issues%20PDF/NCRAES-2K19/12.pdf	0

Publications, Book/Book chapter and Patents Published by Faculty of Mechanical Engineering

25.	Dr. Kuldip A Rade, Mr. Amar C Pawar	Defect detection of composite honeycomb structure by vibration analysis technique	Materials Today: Proceedings	Yes	Yes	Yes	Yes	Jan-20	2214-7853	Vol 27 issue 3	1.46	10.1016/j.matpr.2019.12.192	16
26.	Dr. Kuldip A Rade	Particle Damping Method and Its Applications	The International journal of analytical and experimental modal analysis				Yes	Jul-19	0886-9367	Vol 11 issue 8	6.3	https://tinyurl.com/mun92x84	0
27.	Dr. Kuldip A Rade, Mr. Amar C Pawar	Single Stage Vibration Analysis Using Particle Damping Method and Validation Through Design of Experiment	The International journal of analytical and experimental modal analysis				Yes	Nov-19	0886-9367	Vol 11 issue 11	6.3	https://tinyurl.com/zfp6x48b	0
28.	Dr.Mahesh J Patil	Failure Evaluation of Hybrid joints using Taguchi method	International Journal of Engineering and Advanced Technology (IJEAT)	Yes			Yes	Oct-19	2249-8958	Volume 9 Issue -1	5.97	10.35940/ijeat.A9497.109119	0
29.	Dr.Mahesh J Patil	The Strength Analysis of Hybrid (Bolted and Bonded) Single Lap joints for Composite Materials	International Journal of Innovative Technology and Exploring Engineering	Yes			Yes	Oct-19	2278-3075	Volume-8 Issue -12	5.54	10.35940/ijitee.L3580.1081219	1
30.	Mr. Mahavir K Beldar	Improvisation of efficiency and parametric study of water extraction system using Peltier	NOVYI MIR Research Journal			Yes	Yes	Jun-20	0130-7673	Vol. 5 (6)	6.1	16.10098.NMRJ.2020.V5I6.256342.1687	0

31.	Mr. Dadaso D Mohite	A Comparative Study on Improving the Riding Comfort of Indian Railway Coaches: Review on Literature	International Journal of Engineering and Designing Innovation (IJEDI)				Yes	Jun-20	2582-0788	Volume 2, Issue 3	2.148	https://tinyurl.com/246675nc	0
32.	Mr. Dadaso D Mohite	Design of Hybrid Rollator cum Walker for Elderly: Review on Literature	The International journal of analytical and experimental modal analysis				Yes	Jan-20	0886-9367	Vol. 12, Issue 1	6.3	https://tinyurl.com/yym6f8dz	2
33.	Mr. Roheshkumar S Lavate	Design And Analysis of Metal Detecting Rover Vehicle Using Rocker Bogie Suspension System	International Journal of Creative Research Thoughts				Yes	Jun-20	2320-2882	Vol. 8, Issue 6	7.97	https://tinyurl.com/4ka4h789	0

Academic Year: 2018-19

Sr. No.	Name of Faculty	Title of Research Paper/ Book Chapter / etc	Name of the Journal	Scopus	WOS	UGC Care	Google Scholar	Month & Year of Publication	ISSN / ISBN	Vol. & Issue	Impact factor	DOI	Citation Till Date
1.	Dr. Kailasnath B Sutar	Experimental Investigation on Thermal Performance of Three Natural Draft Biomass Cookstoves	Energy Efficiency	Yes	Yes	Yes	Yes	Mar-19	1570-6478	Vol. 12	3.134	10.1007/s12053-018-9705-x	10
2.	Dr. Kailasnath B Sutar, Dr. D G Kumbhar	Numerical Analysis of Heat Transfer Augmentation by Almond Dimples on A Flat Plate	International Journal for Research Trends and Innovation				Yes	Jul-18	2456-3315	Vol 3 (7)	8.14	https://www.ijrti.org/papers/IJRTI1807008.pdf	0
3.	Dr. Sachin S Chavan	An Innovative Simulation Approach to Improve the Electrochemical Machining Performance	International Journal of Mechanical Engineering and Technology (IJMET)	Yes		Yes	Yes	Dec-18	0976-6340	Vol. 9, Issue 13	0.59	https://tinyurl.com/4wa2zrkc	0
4.	Dr. Sachin S Chavan	Challenges in Electrochemical Machining	International Journal of Multidisciplinary			Yes	Yes	Jan-19	2455-3085	Vol. 4issue 1	-	https://tinyurl.com/ms2j3rzt	0
5.	Dr. Sachin S Chavan	Deployable Helical Antenna for application in Nano/Micro Satellite & Futuristic communication satellite system Antenna	Journal of Emerging Technologies and Innovative Research (JETIR)				Yes	Jan-19	2349-5162	Vol. 6Issue 06	5.87	https://tinyurl.com/y7en9bkd	0

6.	Dr. Sachin S Chavan	Electro Chemistry in Electrochemical Machining Process	Journal of Advanced Research in Dynamical and Control System	Yes		Yes	Yes	Dec-18	1943-023X	Issue 14 (Special)	0.411	https://tinyurl.com/2ryedppp	0
7.	Dr. Sachin S Chavan	Manufacturing and Characterization of Electrospun Carbon Nanofibers	International Journal of Analytical, Experimental and Finite Element Analysis (IJAEFEA)				Yes	May-19	2394-5141	Issue . 2, Vol. 6	3.578	10.26706/IJAEF EA.2.6.20190403	0
8.	Dr. Sachin S Chavan	Manufacturing of Nylon 6,6 Nanofibers using Electrospinning	International Journal of Analytical, Experimental and Finite Element Analysis (IJAEFEA)				Yes	May-19	2394-5141	Issue . 2, Vol. 6	3.578	10.26706/IJAEF EA.2.6.20190404	0
9.	Dr. Sachin S Chavan	Manufacturing of ZnO Nanofibers using Electrospinning	International Journal of Analytical, Experimental and Finite Element Analysis				Yes	May-19	2394-5141	Issue . 2, Vol. 6	3.578	10.26706/IJAEF EA.2.6.20190405	2
10.	Dr. Sachin S Chavan	Multiphysics Simulation and Experimental Validation of EDM Drilling Process	Journal of Emerging Technology and Innovative Research				Yes	Jan-19	2349-5162	Volume 06, Issue 01	5.87	https://tinyurl.com/you9uwdpj	1

11.	Dr. Sachin S Chavan, Dr. P. V. Londhe	Optimization of Parameters for diameter of Nanofibers and FTIR, XRD Characterization for Synthesized Biofunctionalized Nanofibers (Curcumin, Gelatin and Formic Acid) using Electros- pinning Process	International Journal on Recent Technologies in Mechanical and Electrical Engineering (IJRMEE)			Yes	Yes	Apr-19	2349-7947	Volume: 6 Issue : 4	1	https://tinyurl.com/yc5x2t57	2
12.	Dr. Sachin S Chavan	Organic non-volatile memory device based on cellulose fibers	Materials Letters	Yes	Yes	Yes	Yes	Aug-18	0167-577X.	Vol 232	3.423	10.1016/j.matlet.2018.08.091	33
13.	Dr. Sachin S Chavan	Relative reliability risk index for green supply chain management	Journal of Mechanical Engineering and Technology	Yes		Yes	Yes	Dec-18	0976-6340	Volume-9 Issue -13	0.59	https://tinyurl.com/35b4k2va	1
14.	Dr. Sachin S Chavan	Synthesis of TiO ₂ Nanofibers for Solar Cells and Their Analysis Using Statistical Tool-Taguchi Method Analysis Using Statistical Tool-Taguchi Method	International Journal for Research in Engineering Application & Management (IJREAM)				Yes	May-19	2454-9150	Vol-05, Issue -02	6.466	10.35291/2454-9150.2019.0123	0
15.	Dr. Sachin S Chavan	Synthesis, characterization and antibacterial activity of ciprofloxacin loaded electrospun gelatin nanofibers	Journal of Bionanoscience	Yes		Yes	Yes	Oct-18	1557-7910	Vol. 12, Issue 5	0.966	10.1166/jbns.2018.1574	3

Publications, Book/Book chapter and Patents Published by Faculty of Mechanical Engineering

16.	Dr. Pradeep V Jadhav	An Experimental and Numerical Investigation on Static Vibration Response of Multi-Cracked Rotor Shaft	IOP Conference Series: Materials Science and Engineering	Yes			Yes	Jul-18	17578 981	Vol. 377 (1)	0.48	10.1088/1757-899X/377/1/012041	6
17.	Dr. Pradeep V Jadhav, Dr. Dattatray B Jadhav	Experimental Investigation of MRR on Inconel 600 using Ultrasonic Assisted Pulse Electrochemical Machining	IOP Conference Series: Materials Science and Engineering	Yes		Yes	Yes	Jul-18	1757-8981	Vol 377/1	0.48	10.1088/1757-899X/377/1/012095	3
18.	Dr. Vijay K Kurkute	Design and Finite Element Analysis of Gear Housing Assembly Gauging System	International Journal of Research and Analytical Reviews			Yes	Yes	Jun-19	348-1269	Vol. 6(2)	7.17	https://ijirmet.com/vol4/2019/issue10/1.pdf	0
19.	Dr. Vijay K Kurkute	Modeling and Correlations Between Parameters of Roller Burnishing Process on Surface Roughness for Aluminum 63400 Using Response Surface Methodology and Artificial Neural Network	Advanced Science Engineering and Medicine			Yes	Yes	Nov-18	1071-1076	Vol. 10(11)	0.987	10.1166/ase.m.2018.2266	0
20.	Dr. D G Kumbhar	Heat Transfer Enhancement in Notched Fin Array- A Review	Global Journal of Engineering Science and Researches				Yes	Jan-19	2348 – 8034		5.07	http://www.gjesr.com/Issues%20PDF/NCRAES-2K19/32.pdf	0

Publications, Book/Book chapter and Patents Published by Faculty of Mechanical Engineering

21.	Mr. Sanjay D Lembhe	Improvement of Solar Energy by Mirror Reflection Technique	International Journal for Research in Applied Science & Engg. Tech				Yes	Jun-19	2321-9653	Vol. 7	7.177	https://tinyurl.com/ytwmdy5x	0
22.	Dr. Dattatray B Jadhav	Modal Analysis of Ultrasonic Stack Assembly Using Finite Element Method	Journal of Emerging Technologies and Innovative Research (JETIR)				Yes	Jul-05	2349-5162	Vol. 5	5.87	https://tinyurl.com/2kvbtm8u	0
23.	Mr. Prashant D Yadav	RFL Safety kit for domestic LPG	Int. Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engg.				Yes	May-19	2321-2004	Vol. 7, Issue 5	6.441	10.17148/IJIRE EICE.2019.7514	1
24.	Mr. Ashwin N Nayak, Dr. D G Kumbhar	Numerical analysis of heat transfer using almond dimple in rectangular duct	Int. Journal of Advance Research, Ideas and Innovations In Technology				Yes	Jan-19	2454-132X	Vol 5 Issue 1	4.927	https://tinyurl.com/2fyetzhu	0
25.	Mr. Sandeep L Chinke	A Machinability Evaluation of Cryogenically Treated Beryllium Copper In A Magnetic Field Assisted By Electrical Discharge Machining	International Journal of Mechanical and Production Engineering Research and Development	Yes			Yes	Aug-18	2249-6890	V. 8 Issue 5	10.2746	10.IJMPERDOC T201810	0

2. Books/ Book Chapters Published

The detailed statistics of books/ chapters published by faculty members during last five years are reported in Table 5.

The details of books/ chapters published by faculty members are reported in table 6.

Table 5. Faculty wise details of books/ chapters published.

Sr. No.	Name of Faculty	Academic Year					Total
		2022-23	2021-22	2020-21	2019-20	2018-19	
1.	Dr. K. B. Sutar	01	01	00	00	00	02
2.	Dr. S. S. Chavan	01	00	01	01	00	03
3.	Dr. P. V. Jadhav	00	01	00	02	00	03
4.	Dr. V. K. Kurkute	00	00	01	00	00	01
5.	Dr. D. G. Kumbhar	01	00	00	00	00	01
6.	Dr. K. A. Rade	01	00	00	00	00	01
7.	Mr. M. K. Beldar	01	00	00	00	00	01
8.	Mr. A. C. Pawar	01	00	00	00	00	01
TOTAL		04	02	02	03	00	11

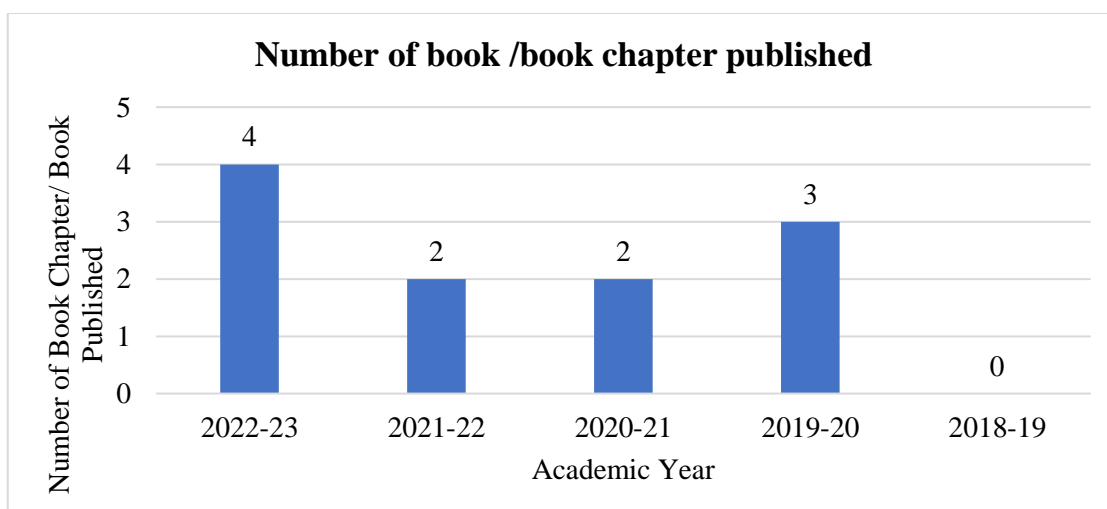


Figure 9: Book/book chapter published.

Table 6: Details of Book/Book Chapter Published during Assessment Years

Sr. No.	Academic Year	Name of the Faculty	Name of the Book	Name of the Publisher	ISBN No.	Year of Publication	Link
1.	2022-23	Dr. K. B. Sutar and Dr. D. G. Kumbhar	Renewable Resources and Energy Management (Title: A Comprehensive Review of Methods for Analysis of Solar Still) DOI: 10.1201/9781003361312-10	Taylor & Francis Group, London	978-1-032-42125-4	April 1, 2023	https://www.google.co.in/books/edition/Renewable_Resources_and_Energy_Management/h7O7EAAAQB-AJ?hl=en&gbpv=1&dq=10.1201/9781003361312-10&pg=PA81&printsec=frontcover
2.	2022-23	Dr. S. S. Chavan	Recent advances in recycling engineering (Title: Separation of heavy metals from metal industry effluent for acid recovery) DOI: 10.1007/978-981-19-3931-0_16	Springer	978-9811939310	October 28, 2022	https://link.springer.com/chapter/10.1007/978-981-19-3931-0_16
3.	2022-23	Prof. M. K. Beldar	Recent developments in mechanics and design (Title: Design and analysis of multifacility splint for children with congenital clubfoot deformities) DOI: 10.1007/978-981-19-4140-5_21	Springer, Singapore	978-981-19-4139-9	November 26 2022	https://link.springer.com/chapter/10.1007/978-981-19-4140-5_21

4.	2022-23	Prof. Amar C Pawar and Dr. Kuldip A Rade	Lecture Notes in Mechanical Engineering book series (LNME) Emerging Trends in Mechanical and Industrial Engineering (Title: Data Visualization of Vibration in the Gearbox to Study Particle Damping Using Tableau Platform)	Springer, Singapore	10.1007/978-981-19-6945-4_80	January 1, 2023	https://link.springer.com/chapter/10.1007/978-981-19-6945-4_80
5.	2021-22	Dr. K. B. Sutar	Alternative Energies and Efficiency Evaluation. (Title: Energy Efficiency, Emissions and Adoption of Biomass Cook stoves)	Intech Open	978-1-83969-828-6	April 22, 2022	https://www.intechopen.com/chapters/79996
6.	2021-22	Dr. P. V. Jadhav	Computational Intelligent in Manufacturing (Title: Process parameters optimization in manufacturing of root canal device using gorilla troops optimization algorithm) DOI: 10.1016/B978-0-323-91854-1.00006-6	Wood head publishing Elsevier	978-0-323-92854-1	May 2022	https://doi.org/10.1016/B978-0-323-91854-1.00006-6
7.	2020-21	Dr. S. S. Chavan	Nanotechnology with Applications (Title: Quantum Mechanics of Wound Healing: Nano-bio-Interface of Wound Bed and Wound Dressing) DOI:10.1201/9781003097532-15	Taylor and Francis CRC Press (Group).	9781003097532	December 16, 2020	http://dx.doi.org/10.1201/9781003097532-15

8.	2020-21	Dr. V. K. Kurkute	Nature-Inspired Optimization in Advanced Manufacturing Processes and Systems (Title: Modelling and Pareto Optimization of Burnishing Process for Surface Roughness and Microhardness) DOI:10.1201/9781003081166-12	CRC Press, Taylor, and Francis	978-10-03081-16-6	2020	http://dx.doi.org/10.1201/9781003081166-12
9.	2019-20	Dr. S. S. Chavan	Nanoscience for Sustainable Agriculture (Title: Liposomes for Nanotechnology Systems in Food Products) DOI: 10.1007/978-3-319-97852-9_24	Springer Nature Switzerland AG	978-3-319-97852-9	September 24, 2019	https://link.springer.com/chapter/10.1007/978-3-319-97852-9_24
10.	2019-20	Dr. P. V. Jadhav	Advanced Manufacturing Processes. Savitribai Phule Pune University, Credit System Syllabus (Mechanical Engineering).,	Tech-Neo Publications	978-93-89835-78-6	Jan 2020	Print Only
11.	2019-20	Dr. P. V. Jadhav	Advanced Manufacturing Processes. MSBTE-Third Year Diploma (Mechanical Engineering).	Tech-Neo Publications	978-93-89460-14-8	July 2019	Print Only

3. Details of Patents

The details of patents published/filed/granted by faculty members during assessment period are reported in Table 8.

Table 7 reports the Statistics of Patents Published/Filed/Granted by faculty members.

Table 12.7: Statistics of Patents Published/Filed/Granted

Sr. No.	Name of Faculty	Academic Year					Total
		2022-23	2021-22	2020-21	2019-20	2018-19	
1.	Dr. K. B. Sutar	00	01	00	00	00	01
2.	Dr. S. S. Chavan	00	02	02	01	02	07
3.	Dr. P. V. Jadhav	02	02	01	02	00	07
4.	Dr. D. B. Jadhav	00	03	00	00	00	03
5.	Mr. S. R. Pawar	01	00	00	00	00	01
TOTAL		03	07	03	02	02	17

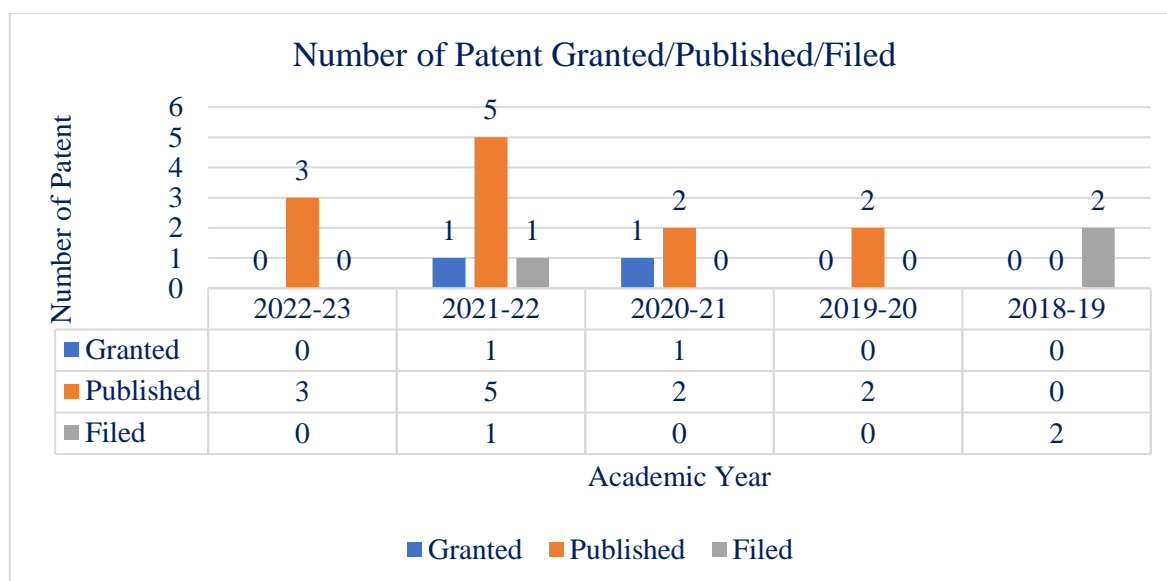


Figure 10: Number of Patent Published/Granted

Table 8: Details of Patents Published/Filed/Granted during last five years

Sr. No.	Academic Year	Name of the Faculty	Title of Invention	Applicant Name	Inventor's Name	Patent No.	Status
1	2022-23	Dr. P. V. Jadhav	A Root canal Obturation (RCO) system	Bharati Vidyapeeth Deemed to be University College of Engg. Pune	Dr. Pradip V Jadhav	Application No.: 202221038923	Published, Application in amended examination Dated 22/07/2022
2	2022-23	Mr. S. R. Pawar	Development of Multifunctional gas Cylinder Stand with leak detection and Scaling Mechanism	Mr. Sonal Shamkuwar, Mr. Shrigandhi G Devidas, Mr. Shinde T.R., Mr. S.R. Pawar	Mr. Sonal Shamkuwar, Mr. Shrigandhi G Devidas, Mr. Shinde T.R., Mr. S.R. Pawar	German Patent Application No. (IPC) G01F 23/20	Published Dated 23/01/2023
3	2022-23	Dr. P. V. Jadhav	Device for creating lateral canals in orthodontic blocks.	Prof. (Dr.) Pachore S. S, Mr. S. B. Kolekar, Dr. R. R. Ghorpade, Mr. A. A. Galande, Mr. G. P. Borikar, Mr. S. R. Deshmukh, Dr. Pradeep V Jadhav	Prof. (Dr.) Pachore S. S, Mr. S. B. Kolekar, Dr. R. R. Ghorpade, Mr. A. A. Galande, Mr. G. P. Borikar, Mr. S. R. Deshmukh, Dr. Pradeep V Jadhav	Application No.: 202221037147	Published, Awaiting Request for Examination Dated 27/07/2022
4	2021-22	Dr. P. V. Jadhav	A Low-Cost Semiautomatic Metallurgical Specimen Grinding and Polishing Machine to Develop Specimen	Mr. Sachin M. Khomane, Dr. Pradeep Jadhav, Ranjit Ramkrishna Gidde, Akash Rakate, Prana V Ippanpalli, Nitin Tele	Mr. Sachin Khomane, Dr. Pradeep Jadhav, Ranjit R Gidde, Akash Rakate, Pranav Ippanpalli, Nitin Tele	Application No.: 202021003381	Published, Awaiting Request for Examination Dated 30/07/2021

5	2021-22	Dr. D. B. Jadhav	A novel neural network-based approach for evaluating the various Quality of Service parameters of MQTT protocol communication in IOT applications and obtaining recommendations using a single system on detected security beaches.	Ms. Pawar Shital Ashok, Dr. Suhas Patil, Dr. Dattatray B. Jadhav	Ms. Pawar Shital Ashok, Dr. Suhas Patil, Dr. Dattatray B. Jadhav	Application No. 202221030182	Published, Awaiting Request for Examination Dated 17/06/2022
6	2021-22	Dr. K. B. Sutar	An Airfoil for a Blade of a Wind Turbine	Bharati Vidyapeeth Deemed University College of Engineering Pune	Dhurpate Priyanka R., Sutar Kailasnath B.	Application No.: 201621025413 Reply to fer Dated 31/05/2022.	Published, Application in Hearing Dated 26-01-2018
7	2021-22	Dr. S. S. Chavan	Composite Road Dividers and a method of manufacturing the same.	Bharati Vidyapeeth College of Engineering Pune	Dr. Anand Bhalerao, Dr. Sachin Chavan	Application No.: 201621010253	Granted Application, Patent Number :373363 Dated 30/07/2021

8	2021-22	Dr. S. S. Chavan	Disinfectant Nanofibers and A Process for Their Preparation	Bharati Vidyapeeth College of Engineering Pune	Dr. Sachin Chavan, Dr. Anand Bhalerao, Dr. Yogesh Chenkade, Sailee, Mr. Gund, Sahkisha Bonsode	Application No.: 202021023810	Published, Awaiting Request for Examination Dated 07/01/2022
9	2021-22	Dr. P. V. Jadhav & Dr. D. B. Jadhav	Enhancement in material removal rate and hole quality of titanium aluminide (lightweight high strength temperature resistance) material using hybrid ultrasonic assisted pulse electrochemical machining process for industrial application.	Bharati Vidyapeeth Deemed to be University College of Engineering Pune	Dr. D. B Jadhav, Dr. Pradip V Jadhav, Dr. D. S. Bilgi, Mr. Ashish H Pawar, Dr. Ganesh Kamble	Application No. 202221017052	Published, Awaiting Request for Examination Dated 15/04/2022
10	2021-22	Dr. D. B. Jadhav	Thermal Vision Surveillance robot	Dr. Dattatraya Bhagwan Jadhav, Ashish Haribhau Pawar, Yogesh G Mane	Dr. Dattatraya Bhagwan Jadhav, Ashish Haribhau Pawar, Yogesh G Mane	Design Application No. 382647-001	Design Accepted and Published, Journal No is 26/2023 and Journal Date is 30/06/2023.

11	2020-21	Dr. S. S. Chavan	A Process for Preparing an Ultrafiltration Membrane for Separation of Heavy Metals	Bharati Vidyapeeth College of Engineering Pune	Dr. Yogesh Chenkade, Dr. Sachin Chavan, Dr. Anand Bhalerao,	Application No.: 201921032915	Granted Application, Patent Number :408073 Dated 19/02/2021
12	2020-21	Dr. S. S. Chavan	Cost-Effective Electrospinning Setup for Synthesis of Nanofibers.	Dr. Sachin Shankarrao Chavan, Dr. Sunil Jagannath Kadam, Dr. Sachin Marotrao Shendokar, Dr. Tukaram Dattatray Dongale, Dr. Yogesh Jayasing Chendake	Dr. Sachin Shankarrao Chavan, Dr. Sunil Jagannath Kadam, Dr. Sachin Marotrao Shendokar, Dr. Tukaram Dattatray Dongale, Dr. Yogesh Jayasing Chendake	Application No.: 202121004762	Published, Reply not Filed Deemed to be abandoned U/s 21(1) Dated 26/02/2021
13	2020-21	Dr. P. V. Jadhav	Microfluidic Based Digital Soil Numerical Testing	Mr. Sachin Khomane, Dr. Pradeep V Jadhav	Mr. Sachin Khomane, Dr. Pradeep V Jadhav	Application No.: 202021055301	Published, Awaiting Request for Examination Dated 19/03/2021
14	2019-20	Dr. P. V. Jadhav	A-3D-Printer: Auto Scene Input 3-D Image and Print Three Dimensional Objects	Dr. J. Bhagwan Reddy, Dr. Pradeep V Jadhav, Mr. Shivraj More, Swanand Pachpore, Dr. Beg raj Singh.	Dr. J. Bhagwan Reddy, Dr. Pradeep V Jadhav, Mr. Shivraj More, Mr. Swanand Pachpore, Dr. Beg raj Singh.	Application No.: 201941036026	Published, Awaiting Request for Examination Dated 20/09/2019

15	2019-20	Dr. S. S. Chavan & Dr. P. V. Jadhav	IAV-Apps: Intelligent advanced vehicle Apps to control all Necessary Things.	Prof. (Dr.) S. B. Chordia, Dr. Pradeep V Jadhav, Dr. S. S. Chavan, Dr, Shadab Pattekari, Mr. Pranav Pise	Prof. (Dr.) S. B. Chordia, Dr. Pradeep V Jadhav, Dr. Shadab Pattekari, Mr. Pranav Pise	Application No.: 201921032727	Published, Deemed to be withdrawn u/s 11B(4) Dated 30/08/2019
16	2018-19	Dr. S. S. Chavan	Tool for Electrochemical Machining (ECM)	Dr. S. S. Chavan, Avinash Manohar Pawar, Sachin Shankar Chavan, Dayanand Shrinivas Bilgi	Avinash Manohar Pawar, Sachin Shankar Chavan, Dayanand Shrinivas Bilgi	Design Application No. 310839	Design Accepted and Published, Journal No is 23/2020 and Journal Date is 05/06/2020. Application Dated 11/10/2018
17	2018-19	Dr. S. S. Chavan	Tool for Electrochemical Machining (ECM)	Avinash Manohar Pawar, Sachin Shankar Chavan, Dayanand Shrinivas Bilgi	Avinash Manohar Pawar, Sachin Shankar Chavan, Dayanand Shrinivas Bilgi	Design Application No. 310840	Filed, Case is in Amended Case of Controller Dated 11/10/2018