

TULSIRAMJI GAIKWAD-PATIL College of Engineering and Technology Wardha Road, Nagpur - 441108 Accredited with NAAC A+ Grade Approved by AICTE, New Delhi, Govt. of Maharashtra (An Autonomous Institution Affiliated to RTM Nagpur University, Nagpur)



Department of Mechanical Engineering

Book publication

Sr. No.	Name of Authors	Title of Book	Publicat ion Year	Publisher	Remark
1.	 Mr. Vishwjeet Ambade Dr.G.K.Awari .Dr.C.S.Thorat 4.Dr. D.P.Kothari 	Additive Manufacturing and 3D Printing Technology	2021	Published with CRC Press, Taylor and Francis Group, London ISBN-10 : 0367436221 ISBN-13 : 0367436223-978	Book is available on Amazon for selling follow the link given below: https://www.amazon.in/Additive- Manufacturing-Printing-Technology- Applications/dp/0367436221/ref=sr_1 _1?dchild=1&keywords=vishwjeet+a mbade&qid=1627980368&sr=8-1
2.	 Mr. Vishwjeet Ambade Dr.G.K.Awari Dr. D.P.Kothari 	" Hydraulic Machines: A Mathematical Approach in SI Unit"	2020	New Age International Publication ISBN-10 : 9388818199 ISBN-13 : 9388818193-978	Book is available on Amazon for selling follow the link given below: <u>https://www.amazon.in/Hydraulic-</u> <u>Machines-Mathematical-Approach-</u> <u>Units/dp/9388818199</u>
3	Dr. Shubhangi Gondane	Recent Advances in Machines and Mechanism	2022	Springer Book Chapter page No 725	

Patent Details

Sr. No.	Name of Faculty	Title of Invention	Application Number/patent No	Date of Filing/Awarded	Status
1	Dr. Prashant Kadu and Dr. G.K Awari	Single Hybrid tool for rough Boring, Finishing, Reaming and Chamfering	360471	08.03.2021	Awarded
2	Prof. Ritesh Banpurkar, Dr.Vijay Talodhikar, Dr. G.K Awari and Prof. Arvind Totey	Varying Load creep testing Machine	2022/040667	29.06.2022	Awarded
3	Mr.Nitin kakde	Electronic Circuit Cooling fan	113660	10/03.2022	Awarded
4	Ms. Dipali Bhoyar Mr. Gaurav Nagdeve and Ravindra Shende	Soil Shear Testing Block	369572-001	23/08/2022	Filed
5	Dr. Prashant Kadu	Mechanism for Loading and Unloading of LPG Cylinder Vehicle	202121054182	24.11.20 21	Filed
6	Dr. Prashant Kadu and Mr. Narendra Chaudhari	Counting Mechanism for Seed Fish fry and baby fish fingerlings	202121054194	24.11.2021	Filed

7	Dr. Vijay Talodhikar	Manually operated potato pilling machine[MOPPM]	202121005945	11-02-2021	Under Examination
8	Mr. Nitin Kakde and Mr. Ritesh Banpurkar	Pedal operated Mechanism for sugarcane juice extractor Machine	202121054202	18-02-2022	Under Examinations
9	Dr. Nandkishor Sawai	Identification of Artificially Ripened fruits using MATLAB	202121002228	18-01-2021	Filed and published
10	Dr. Nandkishor Sawai	A security mechanism for oil pilferage and leakage detection by laser using IOT	202121024579	02-06-2021	Filed and published
11	Dr. Nandkishor Sawai	Preventing Cavitation reinforced pipe material used in seat ringing and cooling system adopted in plug with stem of boiler feed recirculation valve in power plant	20212100442	05/01/2021	Filed and published
12	Dr. Nandkishor Sawai	Cavitation protection material (resistant cast stainless steel grades 316) used for vaccum pump rotor and cone	202121051147	24/11/2020	Filed and published
13	Dr. Nandkishor Sawai	Exploiting of Reverse Osmosis Reject Water By Agglomeration Water (Aw) Technology	202021049786	13/11/2020	Filed
14	Dr. Nandkishor Sawai	Wear Resistant Silicon Carbide Material Used for Turbine Labyrinth Seal	202021046629	26/10/2020	Filed
15	Dr. Nandkishor Sawai	Potter's Wheel Rotates by Ratchets Mechanism	202021041965	28/09/2020	Filed
16	Dr. Nandkishor Sawai	Floor Cleaning Machine	202021038849	22/09/2020	Filed

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Sr. No.	Name of Faculty	Title of Work	Dairy Number	Date of Registration	Status
1	Mr. Ritesh Banpurkar	Design and Fabrication of Solar operated Multipurpose agriculture machine	14642/2021-CO/L	02-07-2021	Obtained
2	Mr. Ravindra Shende	Design and Fabrication of Agriculture sprayer vehicle	14651/2021-CO/L	02-07-2021	Obtained
3	Ms. Shubhangi Gondane	Design and Fabrication of Multipurpose screening machine for small scale industries.	14695/2021-CO/L	03-07-2021	Obtained
4	Dr. Prashant Kadu, Dr.Shubhangi Gondane and Dr.Vijay Talodhikar	Step Towards Academic Improvement and Ranking (STAIR)	16232/2022-CO/L	28/07/2022	Registered
5	Dr.Shubhangi Gondane and Dr.Vijay Talodhikar	Real Time Monitoring of CO emission in Vehicle using Cognitive IoT temperature and alcohol detector	In Process	June 2022	Registered

Journal Publications

Sr.No	Name of Faculty	Title of paper	Journal name	Citation Details	Type of Publication
1	Mr Vijay Talodhikar	Performance Evaluation of MOPPM by Simulating ANN based model. A Mathematical Approach	International Journal of Mechanical Engineering	ISSN: 0974-5823 VOLUME 7 APRIL MAY 2022	Scopus
2	Mr Vijay Talodhikar and Ritesh Banpurkar	Design and Development of Six Wheeled Robot for Pipe Inspection	International Journal of Mechanical Engineering	ISSN: 0974-5823 VOLUME 7 APRIL MAY 2022	Scopus
3	Mr Yogesh Mahulkar	An Ergonomic Design of Sewing Machine Pedal Mechanism Operated Potter's Wheel	Design Engineering,	ISSN:0011- 9342,Issue 9,2021	Scopus
4	Mr Yogesh Mahulkar	Design and Development of Profiles and Tools for throwing on the potter's wheel	International Journal of Mechanical Engineering	ISSN: 0974-5823 VOLUME 7 APRIL MAY 2022	Scopus
5	Ravindra Shende Dipali Bhoyar and Gaurav Nagdeve	Design and fabrication of sand filter Machine	International Journal of Mechanical Engineering	ISSN: 0974-5823 VOLUME 7 ISSUE - 4 ,2022	Scopus
6	Mr Niteen Kakde	Overview of threshing and dehulling technology of pulses and pigeon pea	Design Engineering,	ISSN: 0011-9342 ISSUE - 6 MAY- AUG 2022	Scopus
7	Mr Niteen Kakde	Design modelling and performance analysis of combine system for thressing and dehaling of pigeon pea	International journal of mechanical engineering	ISSN: 0974-5823 VOLUME 7 ISSUE - 3 MARCH 2022	Scopus
8	Mr Nandkishor Sawai	Review on design of mechanism for making of different earthan ware on pottar wheel	Journal of harbin institute of technology	ISSN: 0367-6234 VOLUME 54 ISSUE - 4 2022	Scopus
9	Mr Nandkishor Sawai	An Ergonomic Design of Sewing Machine Pedal Mechanism Operated Potter's Wheel	Design Engineering,	ISSN: 2349-5162 VOLUME 6 ISSUE - 5 ,2022	Scopus
10	Mr Nandkishor Sawai	Review on Virtual design system of compound die for Press Machine	International Journal of Engineering Research and Application (IJERA)	Vol. 10, Issue 10, (Series- V) October 2020, pp. 25-29.	UGC care
11	Mr Nandkishor Sawai	Design and Development of Battery Operated Potter's Wheel with Variable Speed	Journal of Advanced Science and Technology (IJAST)	Vol. 29, No. 5, (2020), pp. 14036 – 14044.	UGC care
12	Mr Nandkishor Sawai	Development and Modification of Potter's Wheel by Using Sewing Machine Pedal Mechanism and Chain Sprocket	International organization of Scientific Research Journal of Engineering	2278-8719 Vol. 10, Issue 1, January 2020, Series –IV, PP 11-18	UGC care
13	Mr Vijay Talodhikar	Methodology and design consideration for experimental model to formulate analytical equations for manually operated potato peeling machine	journal of applied science and computations	Volume VI, Issue IV, April/ 2019	UGC care
14	Mr Vijay Talodhikar	Design, experimentation and performance testing of innovative potato processor	International journal of research in advent technology	vol.7, no.4s, April 2019	UGC care
15	Mr.Pramar Bakane	"Design And Fabrication Of Recycle Plastic Extruder Machine"	Gis Science Journal	ISSN: 1869-9391 VOLUME 9 ISSUE - 5 ,2022	UGC care
16	Vijay Talodhikar	Design and Fabrication of H-Type Vertical Hydraulic Press	Journal of Fluid Mechanics and Mechanical Design	eISSN: 2582-9165 VOLUME 4 ISSUE -2 MAY AUGUST 2022	Peer Reviewed
17	Vijay Talodhikar	Design & Analysis of Pedal Operated Washing Machine for Electric Generation	Journal of Automation and Automobile Engineering	eISSN: 2582-3159 VOLUME 7 ISSUE -2 MAY AUGUST 2022	Peer Reviewed
18	Dr. Yogesh Mahulkar	Low Cost Automation Spray Painting Robot	International Research Journal of Modernization in Engineering Technology and Science	eISSN: 2583-5208 VOLUME 4 ISSUE -6 JUNE 2022	Peer Reviewed
19	Dr. Yogesh Mahulkar	Design And Fabrication Of A Solar Grass Cutter	International Journal Of Progressive Research In Engineering Management	eISSN: 2583-1062 VOLUME 2	Peer Reviewed

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			And Science (Ijprems)	ISSUE -5 JUNE 2022	
20	Pravin Petkar and Vivek Patil	A Review of Human Power generation and various application of Pedal Driven System	Journal of Recent Activities in Production	eISSN: 2581-9771 VOLUME 7 ISSUE - 2 JUNE 2022	Peer Reviewed
21	Pravin Petkar and Vivek Patil	A Review of Human Power generation and various application of Pedal Driven System	Journal of Recent Activities in Production	eISSN: 2581-9771 VOLUME 7 ISSUE - 2 JUNE 2022	Peer Reviewed
22	Vivek Patil and Vijay Talodhikar	A Review on Pedal Driven Washing Machine and its Relevance for Electric Generation"	Journal of Mechatronics Machine Design and Manufacturing,	eISSN: 2582-8908 VOLUME 4 ISSUE - 2 MAY- AUG 2022	Peer Reviewed
23	Prof. Dipali Bhoyar	Optimization of die extrusion parameters	International Journal Of Advance Research And Innovative Ideas In Education	ISSN: 2395-4396 VOLUME 8 ISSUE - 3 MAY- AUG 2022	Peer Reviewed
24	Dr.Shubhangi Gondane	Real Time Monitoring of CO Emission in Vehicle Using Cognitive Iot with Temperature and Alcohol Detector	International Journal Of Advanced Innovative Technology In Engineering (IJAITE)	eISSN: 2455-6491 MAY 2022	Peer Reviewee
25	Dr.Shubhangi Gondane	Design and Fabrication of Drill Jig for flange coupling PCD holes	International Journal Of Research In Engineering And Science(IJRES)	ISSN: 2395-4396 VOLUME 8 ISSUE - 3 MAY- AUG 2022	Peer Revieweo
26	Dr.Shubhangi Gondane	Pest Controlling Robot for detecting the deficiencies in plant for propper fertilizer application	International Journal Of Advances In Engineering And Management (IJAEM)	ISSN: 2395-4396 VOLUME 10 ISSUE - 4 APR 2022	Peer Reviewee
27	Gaurav Nagdeve	Design and Fabrication of Electromagnetic Braking System	Gis Science Journal	ISSN: 1869-9391 VOLUME 9 ISSUE - 5 ,2022	Peer Reviewee
28	Ritesh Banpurkar	3D printed Filament manufactured by various Methods and Composts.	European Journal Of Advances In Engineering And Technology	ISSN: 2394-658X VOLUME 8 2022	Peer Reviewee
29	Ritesh Banpurkar	Investigation and Analysis of Characteristics of 3D Printed Parts Produced by Fusion of Different Filament Materials	International Journal Of Scientific Research In Science, Engineering And Technology	ISSN: 2395-1990 VOLUME 9 ISSUE - 10 MARCH 2022	Peer Reviewee
30	Ritesh Banpurkar	Investigation and Analysis of Characteristics of 3D Printed Parts Produced by Fusion of Different Filament Materials	International Journal Of Scientific Research In Science, Engineering And Technology	ISSN: 2395-1990 VOLUME 9 ISSUE - 10 MARCH 2022	Peer Reviewee
31	Ritesh Banpurkar	Review Paper on Design And Analysis of Leaf Spring Using Composite material.	International Research Journal of Engineering Research And Applications.	ISSN: 2248-9622 VOLUME12 ISSUE - 3 MARCH 2022	Peer Reviewee
32	Anuj Muley	Design And Fabrication Of Pedal Operated Sieving Machine For Agriculture Use.	International Research Journal Of Modernization In Engineering Technology And Science	ISSN: 2395-4396 VOLUME 8 ISSUE - 3 ,2022	Peer Reviewee
33	Pramar Bakane	"Design And Fabrication Of Recycle Plastic Extruder Machine"	Gis Science Journal	ISSN: 1869-9391 VOLUME 9 ISSUE - 5 ,2022	UGC CAR
34	Ravindra Shende	Design And Fabrication Of Pneumatic Sheet Metal cutting	International Journal Of Advance Research And Innovative Ideas In Education	ISSN: 2395-4396 VOLUME 8 ISSUE - 3 ,2022	Peer Reviewee
35	Ravindra Shende	Design And Fabrication Of Pesticides Sprying Drone	International Research Journal Of Engineering And Research (Irjet)	ISSN: 2395-0072 VOLUME 9 ISSUE - 5 MAY- AUG 2022	Peer Reviewee
36	Mr. Ravindra Shende Ms. Dipali Bhoyar and Mr. Gaurav Nagdeve	Design and fabrication of sand filter Machine	International Journal of Mechanical Engineering	ISSN: 0974-5823 VOLUME 7 ISSUE - 4 ,2022	Scopus
37	Mr. Vishwjeet Ambade	Design and Fabrication of Electromagnetic Braking System	International Journal Of Advance Research And Innovative Ideas In Education (Issn(O) : 2395-4396, Volume- 8 Issue-2 2022) (Title- Design And Fabrication Of Electromagnetic Braking System: A Critical Review)	VOLUME 5 ISSUE - 1	Peer Reviewee
38	Dr. Prashant Kadu	A Review on Design and Analysis of Power Generation from Waste Heat	International Journal For Research in Applied Science and Engineering Technology Ijraset	ISSN: 2321-9653 VOLUME 10 ISSUE - 5 MAY- 2022	Peer Reviewee
39	Prof. Vidhyadhar Kshirsagar	Ergonomic Design of CNC Machine for Disabled Operators	International Journal of Advance Engineering	ISSN: 2395-4396 VOLUME 8 ISSUE - 3 ,2022	Peer Reviewee
40	Prof. Vidhyadhar Kshirsagar	Design & Fabrication of Motorized Windshield Car and Bus Mechanism	International Journal of Advance Engineering	ISSN: 2395-5252 VOLUME4 ISSUE - 5 MAY- AUG 2022	Peer Reviewee

41	Ritesh Banpurkar	Investigation and Analysis of Characteristics of 3D Printed Parts Produced by Fusion of Different Filament Materials	International Journal Of Scientific Research In Science, Engineering And Technology	ISSN: 2395-1990 VOLUME 9 ISSUE - 10 MARCH 2022	Peer Reviewed
42	Ritesh Banpurkar	Investigation and Analysis of Characteristics of 3D Printed Parts Produced by Fusion of Different Filament Materials	International Journal Of Scientific Research In Science, Engineering And Technology	ISSN: 2395-1990 VOLUME 9 ISSUE - 10 MARCH 2022	Peer Reviewed
43	Ritesh Banpurkar	Review Paper on Design And Analysis of Leaf Spring Using Composite material.	International Research Journal of Engineering Research And Applications.	ISSN: 2248-9622 VOLUME12 ISSUE - 3 MARCH 2022	Peer Reviewed
44	Prof. Praful Randive	Design and Fabrication of Automatic T-shirt Folding Machine	International Journal of Engineering Research and Applications,	ISSN: 2438-9622 VOLUME 12 ISSUE - 5 MAY 2022	Peer Reviewed
45	Prof. Vijay Talodhikar	Design and Development of Turmeric polishing machine	International Journal of Innovative Research in science, Engineering and Technology	ISSN: 2319-8753 Volume 10, Issue 6, June 2021	Peer Reviewed
46	Prof. Vijay Talodhikar	FEA Analysis of Stresses Induced in 3- Pass Roller of Re-Rolling Mill1	International Journal for Scientific Research & Development	ISSN: 2321-0613 Volume 8, Issue 1, June 2021	Peer Reviewed
47	Prof. Vijay Talodhikar	Design and development of box shifting mechanism using gearless power transmission system	International Journal of Innovative Science and Research Technology	ISSN: 2456-2156 Volume 6, Issue 6, June 2021	Peer Reviewed
48	Dr. Prashant S. Kadu	Design and Development of Agricultural Spraying Drone: Frame and Analysis	International Journal for Modern Trends in Science and Technology	ISSN: 2455-3778 Volume 6, Issue8, 2020	Peer Reviewed
49	Prof. Vidhyadhar kshirsagar	Design and fabrication of automatic three axis welding machine	International journal of innovative research in science, engineering and technology (ijirset)	ISSN: 2319-8753 Volume 10, issue 5,2021	Peer reviewed
50	Prof. Ravindra Shende	Design and development of solar operated e-bicycle	International journal of research in engineering and science Research Journal	ISSN: 2320-9364 Volume 9, issue 6,2021	Peer reviewed
51	Prof. Ravindra Shende	Design and development of solar operated e-bicycle	International journal for scientific research & development	ISSN: 2581-5792 Volume 4, issue 5,2021	Peer reviewed
52	Prof. Ravindra Shende	Effect of changes in different necessities on the performance of vortex tubes	The International Organization of Scientific Research journal of engineering	ISSN: 2250-3021 , 2021	Peer reviewed
53	Prof. Ashwadeep Fulzele	Theory and optimization of turmeric polishing machine	International journal of innovative science and research technology	ISSN: 2456-2165 Volume 6, issue 5, May 2021	Peer reviewed
54	Prof. Ashwadeep Fulzele	Introduction and literature reviews of turmeric polishing machine	International journal of research in engineering, science and management	ISSN: 2581-5792 Volume 4, issue 5, May 2021	Peer reviewed
55	Prof. Ashwadeep Fulzele	Design calculations of turmeric polishing machine	International journal of research in engineering, science and management	ISSN: 2581-5792 Volume 4, issue 5, May 2021	Peer reviewed
56	Dr. Prashant S. Kadu	Analysis of Airflow and Reaction in Rotor System for Stability of Drone	International journal of advanced engineering and global technology	ISSN.2267-9545 Vol.8,Issue 5,2019	Peer reviewed
57	Prof. Ritesh Banpurkar	Conceptual analysis and interpretation of differentially stress on spur gear	IOSR Journal of Engineering Science	ISSN: 2250-3021 SPECIAL ISSUE Dec 2019	Peer reviewed
58	Prof. Ravindra Shende	Effect of changes in materials and working fluids on the performance of vortex tubes	international journal for scientific research & development	ISSN: 2321-0613 vol. 7, issue 01 ,2019	Peer reviewed
59	Prof. Sunil Telang	An experimental study of the effect of capillary tube in different length and different configuration on the performance of simple VCRS	International Research journal of Engg. Ant Tech.	ISSN: 2395-0056 vol. 6, issue 7 ,2019	Peer reviewed
60	Prof. Sunil Telang	The effect of Capillary tube length and configuration on the performance of vapour compression refrigeration system	International journal for Research and Development in Technology	ISSN: 2395-0056 vol. 6, issue 7 ,2019	Peer reviewed