

Research Publications

Research Centre: - Mechanical Engineering

1. Patents:

| Sr No | Name Of Staff | Title | Date Of Application | Design Number | Patent Office Journal No | Publication Date |
|-------|-----------------------|--|---------------------|----------------|--------------------------|------------------|
| 1 | Dr. J. H. Bhangale | Iot Based Gas Level Monitoring And Indicator Gas Cylinder | 8/2/2024 | 406982-001 | 19/2024 Dated 10/05/2024 | 10/5/2024 |
| | Ms. A. K. Patil | Iot Based Gas Level Monitoring And Indicator Gas Cylinder | 8/2/2024 | 406982-001 | 19/2024 Dated 10/05/2024 | 10/5/2024 |
| 2 | Dr. J. H. Bhangale | Modular Cattle Cage (Mcc) For Transport Vehicle | 28/02/2024 | 409057-001 | Dated 28/02/2024 | 5/9/2024 |
| 3 | Dr. N. C. Ghuge | Transparent Bottle | 15/03/2024 | 410672-001 | 20/2024 Dated 17/05/2024 | 16/05/2024 |
| | Dr. D. D. Palande | Transparent Bottle | 15/03/2024 | 410672-001 | 20/2024 Dated 17/05/2024 | 16/05/2024 |
| | Ms. A. K. Patil | Transparent Bottle | 15/03/2024 | 410672-001 | 20/2024 Dated 17/05/2024 | 16/05/2024 |
| 4 | Dr. Dattatray Palande | The Ultimate Combo Of Water Bottle With Built-In Glass | 16/05/2024 | 417069-001 | Dated 17/10/2024 | 17/10/2024 |
| | Dr. N. C. Ghuge | The Ultimate Combo Of Water Bottle With Built-In Glass | 16/05/2024 | 417069-001 | Dated 17/10/2024 | 17/10/2024 |
| 5 | Dr. G. D. Katala | A Device For Preparing Liquid/Semisolid Jaggery From The Sugarcane Juice | 15/09/2022 | 202221052749 A | 43/2022 Dated 28/10/2022 | 28/10/2022 |
| 6 | Dr. G. D. Katala | A Liquid/Semisolid Jaggery Manufacturing Device | 12/10/2022 | 202221058400 A | 42/2022 Dated 21/10/2022 | 21/10/2022 |

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|----------|--------------------------------|---|------------|------------|------------------|------------|
| 7 | Dr. J. H. Bhangale | Tribometer Spring Load Assembly | 16/05/2024 | 445285-001 | Dated 16/05/2024 | 16/05/2024 |
| 8 | Dr. Dole Niraj Balkrishna | Truck Chassis With Integrated Safety Rod System | 19/03/2025 | 451945-001 | Dated 11/07/2025 | 11/7/2025 |
| | Dr. Jayant Hemchandra Bhangale | Truck Chassis With Integrated Safety Rod System | 19/03/2025 | 451945-001 | Dated 11/07/2025 | 11/7/2025 |
| | Dr. Pratap Ramesh Sonawane | Truck Chassis With Integrated Safety Rod System | 19/03/2025 | 451945-001 | Dated 11/07/2025 | 11/7/2025 |
| | Roshan Santosh Patil | Truck Chassis With Integrated Safety Rod System | 19/03/2025 | 451945-001 | Dated 11/07/2025 | 11/7/2025 |
| | Ankita Kailas Gaidhani | Truck Chassis With Integrated Safety Rod System | 19/03/2025 | 451945-001 | Dated 11/07/2025 | 11/7/2025 |
| 9 | Dr. Niraj Balkrishna Dole | Shoes Dust Cleaning Machine | 6/11/2025 | 479353-001 | Dated 06/11/2025 | 9/2/2026 |
| | Mr. Pratik K Sonawane | Shoes Dust Cleaning Machine | 6/11/2025 | 479353-001 | Dated 06/11/2025 | 9/2/2026 |

2. Research Scholar Publications in Journals:-

| S. N. | Title Of Paper | Name of the author/s | Name of Journal | Year of Publication | ISSN number | Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (doi) number | | |
|-------|--|---|---------------------------------------|---------------------|------------------------------------|---|---|------------------------|
| | | | | | | Link to website of the Journal | Link to article/paper/abstract of the article | UGC/SCOPUS/SCI/WoS/etc |
| 1 | A Survey : Biodiesel An Efficient Source | Ankita K. Patil, Dr. J.H.Bhangale | European Chemical Bulletin | 2023 | 2063-5346 | https://www.eurchembull.com/ | https://www.eurchembull.com/uploads/paper/b77eb91f61ad15ef90a271532772e208.pdf | SCOPUS |
| 2 | Effect Of Ferrofluids In Laminar Flow Applications In The Performance Of PTSC: A Review Approach | Janardhan Bhor Dr. J.H.Bhangale | NeuroQuantology | 2022 | 1303-5150 | https://www.scimagojr.com/journalsearch.php?q=11600154151&tip=sid&clean=0 | https://www.neuroquantology.com/open-access/Effect+of+Ferrofluids+in+Laminar+Flow+Applications+in+the+Performance+of++PTSC%253A+A+Review+Approach_1861/ | SCOPUS |
| 3 | Scope Of Polyether Ether Ketone (PEEK) Material Applications In Healthcare Industry: Review | Pratibha M. Karandikar Dr. N. C. Ghuge | Pravara Med Rev | 2023 | ISSN: 0975-0533, E ISSN: 0976-0164 | https://www.pravara.com/pmrjournal.html | DOI: 10.36848/PMR/2022/99100.51060 | SCOPUS |
| 4 | Imapct Of Industry 4.0 On Supply Chain Management | Ankita K. Patil Dr. J.H.Bhangale | Industrial Engineering Journal | 2023 | ISSN 0970-2555 | http://www.journal-iiie-india.com/ | http://www.journal-iiie-india.com/1_july_23.html | UGC CARE |
| 5 | A Review: Human Models In An Industrial Applications | Ankita K. Patil Dr. J.H.Bhangale | Industrial Engineering Journal | 2023 | ISSN 0970-2555 | http://www.journal-iiie-india.com/ | http://www.journal-iiie-india.com/1_july_23.html | UGC CARE |
| 6 | A Review Of Tribological Behavior Of Composites/Polymers/Polymer Composites Under Variable Loading | Kiran A. Chaudhari Dr. J.H.Bhangale | Indian Journal of Technical Education | Sept. 2023 | ISSN No.: 0971-3034 | http://www.isteonline.in/ | http://www.isteonline.in/Datfiles/cms//Special%20Issues//Special%20issue%20September%202023.pdf | UGC CARE |
| 7 | Review On Cellulose Fibre Insulation Considering Thermal And Mechanical | Deepak P. Patil Dr. J.H.Bhangale | Indian Journal of Technical | 2023 | ISSN No.: 0971- | http://www.isteonline.in/ | http://www.isteonline.in/Datfiles/cms//Special%20Issues//Special%20issue%2 | UGC CARE |

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| | Properties | | Education | | 3036 | | 0September% 202023.pdf | |
| 8 | A Review On Cattle Transportation And Available Facility: A Special Emphasis On Indian Continent | Sandip S. Patil Dr. J.H.Bhangale | Indian Journal of Technical Education | 2024 | ISSN No.: 0971-3037 | http://www.isteonline.in/ | http://www.isteonline.in/Datafiles/cms//Special%20Issues//Special%20issue%20September%202023.pdf | UGC CARE |
| 9 | To Evaluate The Impact Of Cuo Additives In Argemone Mexicana Biofuel To Reduce The Harmful Emission Of Diesel Fuel On 4-Stroke Diesel Engine | Ankita K. Patil Dr. J.H.Bhangale | Indian Journal of Technical Education | 2024 | ISSN No.: 0971-3037 | http://www.isteonline.in/ | http://www.isteonline.in/Datafiles/cms//Special%20Issues//Special%20issue%20September%202023.pdf | UGC CARE |
| 10 | Bringing Lean Manufacturing Principles And Industry 4.0 Technologies Together: A Comprehensive Review | Mr. Pradyumana M. Bora Dr. J.H.Bhangale | Library Progress International | 2023 | eISSN: 2320-317X pISSN: 0970-1052 | https://bpasjournals.com/library-science/index.php/journal/index | https://bpasjournals.com/library-science/index.php/journal/article/view/2691 | Scopus |
| 11 | Tribological Behavior Of Polymer And Polymer Composite Material Under Static Loading In The Context Of Rolling Contact Bearing: A Review | Kiran A. Chaudhari Dr. J.H.Bhangale | Library Progress International | 2023 | eISSN: 2320-317X pISSN: 0970-1052 | https://bpasjournals.com/library-science/index.php/journal/index | https://bpasjournals.com/library-science/index.php/journal/article/view/3667/3915 | Scopus |
| 12 | Improving Cattle Transport Systems: A Comprehensive Review Of Design, Welfare, And Technology | Sandip S. Patil Dr. J.H.Bhangale | Library Progress International | 2023 | eISSN: 2320-317X pISSN: 0970-1052 | https://bpasjournals.com/library-science/index.php/journal/index | https://bpasjournals.com/library-science/index.php/journal/article/view/3666/3916 | Scopus |
| 13 | Analysis Of Faults And Dominating Abnormalities In Roller Bearing Elements Under Varied Operating Conditions: A Review | Harshal R. Aher, Nilesh C Ghuge | Nanotechnology Perceptions | 2024 | (ISSN 1660-6795) | http://nanontp.com/index.php/nano | https://nanontp.com/index.php/nano/article/view/4235 | Scopus |
| 14 | Modular And Flexible Cattle Cage Design For Enhanced Safety And Adaptability In Local Goods Carrier Vehicles | Sandip S. Patil Dr. J.H.Bhangale | Industrial Engineering Journal | 2025 | ISSN 0970-2555 | http://www.journal-iiie-india.com/ | http://www.journal-iiie-india.com/1_jan_25.html | UGC CARE |
| 15 | Overview Of Effect Of Laser Hardening Process For Improvement Of Surface Hardness | Nitin V. Lokare, Dr. J. H. Bhangale | Indian Journal of Technical Education | 2025 | ISSN No.: 0971-3037 | http://www.isteonline.in/ | http://www.isteonline.in/Datafiles/cms//IJTE%20Special%20Issue%202025//IJTE%20Spl%20issue%201%20 | UGC CARE |

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| 16 | Future Fuel: A Bio-Fuel As An Alternate Source To Fossil Fuels | Ankita K. Patil, Dr. J. H. Bhangale | Industrial Engineering Journal | 2025 | ISSN 0970-2555 | http://www.journal-iiie-india.com/ | http://www.journal-iiie-india.com/1_feb_25/6.1_feb.pdf | UGC CARE |
| 17 | Tribological Behavior Of Unfilled PTFE Under Static Loading In Dry Sliding Condition: A Taguchi-ANN Perspective | Kiran A. Chaudhari, Dr. J. H. Bhangale | Journal of Materials Science: Materials in Engineering | 2025 | 3004-8958 | https://mjl.clarivate.com://search-results?issn=3004-8958&hide_exact_match_fl=true&utm_source=mjl&utm_medium=share-by-link&utm_campaign=search-results-share-this-journ | https://jmsg.springeropen.com/articles/10.1186/s40712-025-00233-8 | Web of Science (SCI), SpringerOpen |
| 18 | Performance Comparison Of Machine Learning Algorithms For Condition Monitoring Of Tapered Roller Bearings | Harshal R. Aher, Nilesh C Ghuge | Tribology and Materials | 2025 | ISSN 2812-9717 | https://www.tribomat.net/ | https://www.tribomat.net/archive/2025/2025-02/TM-2025-02-05.pdf | Scopus |
| 19 | Vibration-Based Condition Monitoring Of Tapered Roller Bearings Using Kurtosis And ANOVA. | Harshal R. Aher, Nilesh C Ghuge | Tribology in Industry | 2025 | 0354-8996 | https://www.tribology.rs/ | https://www.tribology.rs/journals/2025/2025-2/14-1934.pdf | Scopus |
| 20 | Enhancing Engineering Applications With Glass Fiber-Reinforced Polymer Composites: A Comprehensive Assessment Of Manufacturing Techniques And Performance Properties. | Harshal R. Aher, Nilesh C Ghuge | Tribology in industry (www.tribology.rs) | 2025 | ISSN: 0354-8996 (Print version) eISSN: 2217-7965 (Online version) | https://openurl.ebsco.com/EPDB%3Agcd%3A11%3A38075611/detailv2?sid=ebsco%3Aplink%3Acrawler-gcd&id=ebsco%3A192829462&crl=c&jrnl=03548996&link_origin=www.google.com | https://openurl.ebsco.com/EPDB%3Agcd%3A11%3A38075611/detailv2?sid=ebsco%3Aplink%3Acrawler-gcd&id=ebsco%3A192829462&crl=c&jrnl=03548996&link_origin=www.google.com | Scopus |
| 21 | ANOVA And Vibration Kurtosis-Based Analysis Of Roller Defects In Taper Bearings For Condition Monitoring | Harshal R. Aher, Nilesh C Ghuge | Progress in Engineering Science | 2025 | Online ISSN: 2950-4252 | https://www.sciencedirect.com/journal/progress-in-engineering-science | https://www.sciencedirect.com/science/article/abs/pii/S2950425225000696 | Scopus |
| 22 | A Review On Vegetable | Vijaykumar | International | 2025 | ISSN: | https://www.tandfonline.com | https://www.tandfonline.com | Web of |

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| | Seedlings Transplantation Systems And Their Importance In Indian Agriculture | jadhav, Jayant H Bhangale | Journal of Vegetable Science | | 1931-5260 (Print): 1931-5279 | online.com/journals/wijv20 | om/doi/abs/10.1080/19315260.2025.2538493?__cf_chl_tk=7z3sLT7wRMSQGHaTM2MLsBUgQAwDA CLNVAL_fZRvpeE-1779092900-1.0.1.1-3x6nsHQvx9UkHWKZhE V5LaQRDGK.GI41zqdx5g6i1Fo | Science (SCI), SCOPUS |
| 23 | Tribological Behavior Of Unfilled PTFE Under Dynamic Loading In Dry Sliding Condition | Kiran Chaudhari, Jayant H Bhangale | Journal of Materials Science: Materials in Engineering | 2025 | 3004-8958 | https://link.springer.com/journal/40712 | https://link.springer.com/article/10.1186/s40712-025-00302-y | Web of Science (SCI), SpringerOpen |
| 24 | Reducing Cattle Stress during Transport: Structural Design and Analysis of a Ramp-Gate System | Sandip S. Patil, Jayant H. Bhangale | International Journal of Environmental Sciences, | 2025 | 2229-7359 | https://www.scopus.com/sourceid/21101096350 | https://theaspd.com/index.php/ijes/article/view/1003 | Web of Science (SCI), SpringerOpen |
| 25 | Improving Cattle Transport Safety in India: A CFD-Based Analysis of Cage Structures | Sandip S. Patil, Jayant H. Bhangale | Metallurgical and Materials Engineering | 2025 | 2217-8961 | https://mjl.clarivate.com://search-results?issn=2217-8961&hide_exact_match_fl=true&utm_source=mjl&utm_medium=share-by-link&utm_campaign=search-results-share-this-journa | https://metall-mater-eng.com/index.php/home/article/view/1328 | Web of Science (SCI) |
| 26 | A Numerical Study Of Effect Of Ferrofluids Applications In The Performance Of PTSC | Janardhan Bhor, Jayant H Bhangale | Journal of Materials Science: Materials in Engineering | 2026 | 3004-8958 | https://link.springer.com/journal/40712 | https://link.springer.com/article/10.1186/s40712-025-00394-6 | Web of Science (SCI), SpringerOpen |
| 27 | Experimental Investigation Of Ferrofluid-Based Parabolic Trough Solar Collector Employing Twisted Tape Under Variable Flow Conditions | Janardhan Bhor, Jayant H Bhangale | Journal of Materials Science: Materials in Engineering | 2026 | 3004-8958 | https://link.springer.com/journal/40712 | https://link.springer.com/article/10.1186/s40712-026-00417-w | Web of Science (SCI), SpringerOpen |

3. Research Scholar Presentations in Conference:-

| Sr No. | Name Of The Teacher | Title of the Journal Published | Title Of The Paper | Title Of The Proceedings Of The Conference | Name Of The Conference | National / International | Year Of Publication | Isbn/ Issn Number Of The Proceeding | Affiliating Institute At The Time Of Publication | Name of The Publisher |
|--------|---------------------|--------------------------------|--|--|------------------------|--------------------------|---------------------|-------------------------------------|--|-----------------------|
| 1 | Mr. S. S. Patil | -- | A Need Analysis Of Cattle Transportation: Observations & Findings. | 2nd International Conference & Exposition On Advances In Mechanical Engineering | Icame-2022 | International | 2022 | -- | College Of Engineering Pune | -- |
| 2 | Ms. A. K. Patil | -- | Performance Characterization Of Cockerbur Biodiesel On Nanoparticle On A Four-Stroke Diesel Engine. | International Conference On Challenges And Opportunities For Innovation In India | Iccoi - 2023 | International | 2023 | -- | Ambalika Institute Of Management And Technology, Lucknow. | -- |
| 3 | Mr. M. L. Mohite | -- | Transforming Diesel Engines: Exploring The Potential Of Waste Cooking Oil And Nano Additives In Variable Compression Ratio Systems - A Literature Review | 4th International Conference On Contents, Computing And Communication | Icccc-2023 | International | 2023 | -- | Matoshri College Of Engineering And Research Centre, Nashik. | -- |
| 4 | Mrs. A. K. Patil | -- | Critical Literature: Biofuel As An Alternate Source To Fossil Fuels | 4th International Conference On Contents, Computing And Communication | Icccc-2023 | International | 2023 | -- | Matoshri College Of Engineering And Research Centre, Nashik. | -- |
| 5 | Mr. K. A. Chaudhari | -- | Tribological Behavior Of Polymer And Polymer Composite Material Under Static Loading In The Context Of Rolling Contact Bearing: A Review | 4th International Conference On Contents, Computing And Communication | Icccc-2023 | International | 2023 | -- | Matoshri College Of Engineering And Research Centre, Nashik. | -- |
| 6 | Mrs. A. K. Patil | Indian Journal Of | To Evaluate The Impact Of Cuo | 2nd International Conference On | Icastm - 2023 | International | 2023 | Issn No.: 0971-3034 | S. B. Jain Institute Of Technology, | Indian Society |

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| | | Technical Education | Additives In Argemone Mexicana Biofuel To Reduce The Harmful Emission Of Diesel Fuel On 4-Stroke Diesel Engine. | Advancement In Science, Technology And Management | | | | | Management & Research, Nagpur | For Technical Education |
| 7 | Mr. D. P. Patil | Indian Journal Of Technical Education | Review On Cellulose Fibre Insulation Considering Thermal And Mechanical Properties | 2nd International Conference On Advancement In Science, Technology And Management | Icastm - 2023 | International | 2023 | Issn No.: 0971-3034 | S. B. Jain Institute Of Technology, Management & Research, Nagpur | Indian Society For Technical Education |
| 8 | Mr. K. A. Chaudhari | Indian Journal Of Technical Education | A Review Of Tribological Behavior Of Composite/Polymers /Polymer Composites Under Variable Loading | 2nd International Conference On Advancement In Science, Technology And Management | Icastm - 2023 | International | 2023 | Issn No.: 0971-3034 | S. B. Jain Institute Of Technology, Management & Research, Nagpur | Indian Society For Technical Education |
| 9 | Mr. D. H. Chavan | -- | A Review Of Recent Developments In Wedm Parametric Optimizations | 4th International Conference On Contents, Computing And Communication | Icccc-2023 | International | 2023 | -- | Matoshri College Of Engineering And Research Centre, Nashik. | -- |
| 10 | Mr. N. V. Lokare | -- | Overview Of Laser Hardening Process And Its Applicability | 4th International Conference On Contents, Computing And Communication | Icccc-2023 | International | 2023 | -- | Matoshri College Of Engineering And Research Centre, Nashik. | -- |
| 11 | Mr. H. R. Aher | -- | A Review On Comprehensive Failure Analysis Of Roller Element Bearing Under Different Working Conditions | 4th International Conference On Contents, Computing And Communication | Icccc-2023 | International | 2023 | -- | Matoshri College Of Engineering And Research Centre, Nashik. | -- |
| 12 | Mr. J. K. Bhor | -- | An Extended Review Of Toxic Effect Of Metallic Nano Fluids In Laminar Flow Applications In The Performance Of Ptsc | 4th International Conference On Contents, Computing And Communication | Icccc-2023 | International | 2023 | -- | Matoshri College Of Engineering And Research Centre, Nashik. | -- |
| 13 | Mr. Bharat N. Kharad | -- | “Performance Optimization Of Tilting Pad Journal Bearings: A Comprehensive Review” | Design Strategies For Noise And Vibration Control 2024 National Conference. | Dsnvc-2024 | International | 2024 | -- | National Institute Of Technology Rourkela | -- |

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|----|-----------------------|-----|---|--|-----------------|---------------|------|-----|--|-------------|
| 14 | Mr. Bharat N. Kharad | -- | “Optimising Performance A Comprehensive Review Of Tilting Pad Journal Bearings “ | Fourth International Conference On Advances In Materials Study 2024 | Icams-2024 | International | 2024 | -- | Dr. Vithalrao Vikhe Patil College Of Engineering, Ahilyanagar. | -- |
| 15 | Mr. Bharat N. Kharad | -- | “Design Innovations And Performance Optimization In Tilting Pad And Journal Bearings: A Review” | 39th Indian Engineering Congress | 39th Iec - 2024 | International | 2024 | -- | The Institution Of Engineers, India | -- |
| 16 | Pratibha M Karandikar | -- | Tribological Analysis Of Ptfе Composites: Optimal Filler Combinations For Low Friction And High Wear Resistance | Engineering Advances 2024: First International Conference | Ea - 2024 | International | 2024 | -- | Pravara Rural Engineering College, Loni, Ahmednagar | -- |
| 17 | Ankita K. Patil | -- | Experimental Validation Of Palm Biodiesel And Mexicana Biodiesel For Hybrid Biodiesel Testing | 39th Indian Engineering Congress | 39th Iec - 2024 | International | 2024 | -- | The Institution Of Engineers, India | -- |
| | Harshal Ramesh Aher | ' - | A Real-Time Corrective Framework For Fault Mitigation In Tapered Roller Bearings Using Vibration Analysis And Ann | I-Mace-4 Th International Conference Of Innovation In Mechanical & Civil Engineering (I-Mace 2025) | I-Mace 2025 | International | 2025 | ' - | Pimpri Chinchwad College Of Engineering (Pccoe), Pune | I-Mace 2025 |
| | Vinaykumar Jadhav | ' - | Design Development And Analysis Of 3d Printed Mechanical Gripper For Vegetable Seedling Transplanter | I-Mace-4 Th International Conference Of Innovation In Mechanical & Civil Engineering (I-Mace 2025) | I-Mace 2025 | International | 2025 | ' - | Pimpri Chinchwad College Of Engineering (Pccoe), Pune | I-Mace 2025 |
| | Vinaykumar Jadhav | ' - | Design Development And Fea Analysis Of Vegetable Seedling Transplanter Chassis | I-Mace-4 Th International Conference Of Innovation In Mechanical & Civil Engineering | I-Mace 2025 | International | 2025 | ' - | Pimpri Chinchwad College Of Engineering (Pccoe), Pune | I-Mace 2025 |

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| | | | | (I-Mace 2025) | | | | | | |
| | Ganesh Mhaske | ' - | Performance Evaluation Of Gasketed Plate Heat Exchanger: A Comprehensive Review | I-Mace-4 Th International Conference Of Innovation In Mechanical & Civil Engineering (I-Mace 2025) | I-Mace 2025 | International | 2025 | ' - | Pimpri Chinchwad College Of Engineering (Pccoe), Pune | I-Mace 2025 |
| | Janardhan K Bhor | ' - | A Review On Eco-Friendly Nanoparticle-Enhanced Heat Exchangers Using Twisted Tape Inserts For Enhanced Thermal Performance | I-Mace-4 Th International Conference Of Innovation In Mechanical & Civil Engineering (I-Mace 2025) | I-Mace 2025 | International | 2025 | ' - | Pimpri Chinchwad College Of Engineering (Pccoe), Pune | I-Mace 2025 |
| | Deepak Patil | ' - | Experimental Analysis Of Cellulose Fiber Insulation Considering Thermal Conductivity Dependence On Density Using Environment Friendly Additives | I-Mace-4 Th International Conference Of Innovation In Mechanical & Civil Engineering (I-Mace 2025) | I-Mace 2025 | International | 2025 | ' - | Pimpri Chinchwad College Of Engineering (Pccoe), Pune | I-Mace 2025 |