Faculty Achievements and Awards
Session: 2024-2025

Sr. No.	Name of the Faculty	Details of Faculty Achievements and Awards
1	Dr. Achal Shahare	• Attended the FDP on "3D printing for Industrial & Biomedical Healthcare Applications with Hands-on MIMICS Software" held from 02–07 December 2024 for 6 days, organized by the AICTE Training and Learning (ATAL) Academy in association with G H Raisoni College of Engineering, Nagpur. • Attended the NPTEL-AICTE FDP on "Design Thinking – A Primer", conducted from January 2025 to February 2025 for a duration of 4 weeks. • Published a copyright on the poster titled "Design and Fabrication of Mechanism for Weeder" (L-159528/2025) under the course Design of Machine Elements. • Resource Person in the FDP on "Artificial Intelligence and Machine Learning for Next Generation IoT Network" organized by the E&ICT Academy, IIT Roorkee, held from 20–25 January 2025 at Nagpur, where he delivered an expert session on 22 January 2025. • Participated and presented a paper titled "A Synthetic Study of Mechanical Properties of Material Used in 3D Printed Dental Crowns" at the International Conference on Recent Trends in Material Science and Mechanical Engineering (ICRMSME 2025) held on 25–26 April 2025.
2	Dr. Arvind Mahalle	• Attended the FDP on "Recent Trends in Computational Sciences" held from 22–26 July 2024 for 5 days, organized by the Amity Institute of Applied Sciences, Department of Statistics and Mathematics, Amity University Kolkata.
3	Dr. Tejpal Parshiwanikar	• Published Utility Patent titled "Waste Recycling Assistive Device for Loading Vehicles" (Application No. 202521004900A) on 14 February 2025. • Resource Person in the Short Term Course on "CAD/CAM and Rapid Prototyping Techniques" organized by NITTTR, Chandigarh, held from 22–26 July 2024 at Chandigarh, where he delivered a session on 23 July 2024. • Served as a Resource Person in the STTP on "Modern Trends in Manufacturing and Automation", conducted in offline mode from 27–31 May 2025 for 5 days at GHRCEM, Nagpur. • Developed e-content in the form of a PowerPoint presentation (PPT) on "Dynamics of Machine" under the course Dynamics of Machine. • Successfully completed the NPTEL-AICTE course on "Accreditation and Outcome Based Learning" (Aug–Oct 2024) and received an Elite Certificate with 75% score. • Published research paper titled "Design and Fabrication of Multipurpose

		Agriculture Machine" in the International Journal of Science and Engineering in 2024. • Published copyright titled "Design and Fabrication of Mini Electric Power Tiller" (L-157973/2024) under the course Design of Machine Elements.
4	Dr. Manish Gupta	• Copyright published on poster on Design and Fabrication of Multipurpose Agriculture Machine (L-161861/2025). • Completed 6-day AICTE Training and Learning (ATAL) Academy Faculty Development Program on "Industrial Robotics and CNC with Programming" at VNIT Nagpur And Government College Of Engineering Nagpur from 10/02/2025 to 15/02/2025. • Completed a training on "BS-VI Norms" by BroadArks Foundation from 15/01/2025 to 22/01/2025. • Received grant of Rs 8 Lacs for a startup incubated under MSME Hackathon 3.0(Women). • Resource Person in the Short Term Course on "CAD/CAM and Rapid Prototyping Techniques" organized by the National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh, held from 22–26 July 2024, where he delivered an expert session on 23 July 2024 at Chandigarh. • Attended the Faculty Development Program (FDP) on "Recent Trends in Computational Sciences" organized by the Amity Institute of Applied Sciences, Department of Statistics and Mathematics, Amity University Kolkata, held from 22 July 2024 to 26 July 2024 • Developed e-content in the form of a PowerPoint presentation (PPT) on "Product Design and Development" for academic teaching and learning purposes. • Successfully completed the NPTEL-AICTE Faculty Development Program on "Accreditation and Outcome Based Learning" during Aug–Oct 2024 and obtained a certificate with 52% score. • He served as a speaker in the STTP on "Modern Trends in Manufacturing and Automation", organized by GHRCEM, Nagpur, conducted in offline mode from 27–31 May 2025
5	Dr. Jay Govind Varma	• Copyright Published on Design and Fabrication of Multipurpose Agriculture Machine (L-161861/2025) • Eminent Speaker of the workshop on "Fault Diagnosis of Two Stage Gearbox using AI Technique" conducted by PDPM IIITDM Jabalpur, Date-23/06/2025 • Participated workshop on "Training on BS VI Norms" conducted by BroadArks Foundation, supported by Total Energies India, during 15th -22nd January 2025. • Completed ATAL-FDP on "Cutting-Edge Insight into Artificial Intelligence and its Applications" conducted by Easwari Engineering College, during 16th – 21st December 2024. • Developed e-content in the form of a PowerPoint presentation (PPT) on "Total Quality Management" under the course Total Quality Management. • Resource Person in the STTP on "Modern Trends in Manufacturing and Automation", conducted in offline mode from 27–31 May 2025 for 5 days at GHRCEM, Nagpur.

		• Participated in the Industrial Training Program on "BS-IV Importance and Latest Changes in Automobile Industry" held from 7–9 January 2025 for 3 days at Ashok Leyland, STC Workshop, MIDC Hingna. • Published research paper titled "Design and Fabrication of Multipurpose Agriculture Machine" in the International Journal of Science and Engineering in 2024. • Developed a working model of a Rotary I.C. Engine for the Advanced IC Engine course, which supported the conceptual understanding of advanced internal combustion engine configurations and alternative engine mechanisms.
6	Dr. Nilesh C Kanojiya	• Published SCI indexed research paper titled "Extraction of Drinking Water from a Modified Tubular Solar Still Integrated with Straight Tube and Spiral Tube Flat Plate Collector" in Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, Taylor & Francis, 2025. • Presented and published research paper titled "Enhancing Pyramid Solar Still Performance: A Comparative Study with Solar Water Heaters and Photovoltaic Systems" at National Symposium on Green Energy Interventions to Support MSME's in Technology Deprived Areas, organized by Mahatma Gandhi Institute for Rural Industrialization (MGIRI), Wardha, 13–14 February 2025. • Presented and published a research paper titled "Performance Enhancement of PV Panel Using Copper Pipe and Steel Wool Based Cooling System" in the 3rd International Conference on Advanced Communication, Energy and Big Data, organized at G. H. Raisoni College of Engineering and Management, Nagpur, held on 5–6 June 2025. • Registered Design Patent titled "Device to Enhance the Efficiency of Solar Photovoltaic (PV) Systems Using Passive Cooling Technology", Design No. 461245-001, dated 04 June 2025. • Successfully published a Utility Patent titled "Waste Recycling Assistive Device for Loading Vehicles." Application Number: 202521004900A, Patent Type: Utility Patent, Publication Date: 14 February 2025. • Copyright Published on Performance Investigation of Pyramid Solar Still Augmented With Solar Water Heater In Passive and Active Mode (L-154492/2024) • Successfully completed Faculty Development Program on "Smart Manufacturing Systems from Industry 5.0 Perspective" organized by AICTE Training and Learning (ATAL) Academy and National Institute of Technology (NIT) Puducherry from 11 December 2024 to 17 December 2024 (7 Days). • Delivered expert lecture in Faculty Development Program on "Renewable Energy Systems: Design, Integration and Performance" organized by GH Raisoni College of Engineering and Management, Nagpur from 2–7 December 2024. • Completed AICTE ATAL Faculty Development Program on "Innovative Green Energy Generation and Storage Technologies" from 02 December 2024 to 07 December 2024. • Completed Industrial Training Program on "Production Processes" at Sanvijay Rolling & Engineering Pvt. Ltd., Nagpur from 14 December 2024 to 19 December

		2024 (6 Days) to enhance practical exposure to industrial manufacturing processes and production systems. • Participated in the NPTEL E-Awareness workshop on July 4, 2024 organized by IIT Madras. • Continued contribution as Peer Reviewer for reputed international journals including journals published by Elsevier, Springer, and Taylor & Francis in the areas of renewable energy, solar desalination and thermal engineering. • Developed a Differential Gear Assembly working model for the subject Automobile Engineering. The model demonstrates the mechanism of torque transmission and differential gear action in automobiles, enabling students to clearly visualize how wheels rotate at different speeds during turning and thereby strengthening application-based learning. • Developed a Hermetically Sealed Compressor working model for the subject Refrigeration and Air Conditioning. The model illustrates the construction and working principle of hermetically sealed compressors used in refrigeration systems, helping students understand compressor operation and its role in cooling applications. • Developed a Carburetor Cut-Section model for the subject Automobile Engineering. The model displays the internal components and air–fuel mixing mechanism of a carburetor used in internal combustion engines, which improved students' understanding of fuel supply systems and mixture formation processes. • Received Certificate of Appreciation for exceptional efforts in organizing Deepam Diwali Celebration – 2024. • Serving as Reviewer for various SCI indexed journals.
7	Mr. Pratik Dhage	• Presented research paper titled "Performance Enhancement of PV Panels using Copper Pipe and Steel Wool Based Cooling System" at ICACEBD-2025 International Conference, G. H. Raisoni College of Engineering and Management, Nagpur as First Author. • Presented research paper titled "Enhancing Pyramid Solar Still Performance: A Comparative Study with Solar Water Heaters and Photovoltaic Systems" at National Symposium on Green Energy Interventions to Support MSMEs, organized by Mahatma Gandhi Institute for Rural Industrialization (MGIRI), Wardha under the Ministry of MSME, Government of India. • Resource Person in the FDP on "Artificial Intelligence and Machine Learning for Next Generation IoT Network" organized by the E&ICT Academy, IIT Roorkee, held from 20–25 January 2025 at Nagpur, where he delivered an expert session on 22 January 2025. • Successfully completed 8-Day UHV III, Faculty Development Program at IIT Kanpur organized by AICTE, enhancing knowledge in Universal Human Values and engineering education. • Delivered expert lecture in Faculty Development Program on "Renewable Energy Systems: Design, Integration and Performance" organized by GH Raisoni College of Engineering and Management, Nagpur from 2–7 December 2024. • Completed 8-Day Faculty Development Program organized by BroadArks

		Foundation for academic and professional development. • Participated in NPTEL SPOC Workshop organized by IIT Madras, contributing to continuous academic skill enhancement. • Received Certificate of Appreciation from NPTEL for NPTEL Prospective Local Chapter (July–Dec 2024) for promoting online learning initiatives. • Received Certificate of Appreciation from NPTEL as NPTEL Aspirant (Jan–Apr 2025) for contribution towards NPTEL activities. • Received Certificate of Appreciation for exceptional efforts in organizing Deepam Diwali Milan 2024 at institutional level. • Appointed as Exam Paper Setter at TGPCET, Nagpur, contributing to university examination activities. • Served as NPTEL Examination Observer, supporting national level online certification examinations conducted by IIT Madras. • Worked as Observer for AICTE Universal Human Values Faculty Development Program, contributing to national academic initiatives. • Session Expert in FDP on "Universal Human Values" held from 09–11 April 2025 at Nagpur, organized by MKSSS's Sitabai Nargundkar College of Nursing for Women's, Nagpur. • Published e-content copyright titled "Mini Low-Cost Scooter" (L-158742/2024) under the course Automobile Engineering. • Successfully completed the NPTEL-AICTE Faculty Development Program on "Accreditation and Outcome Based Learning" during Aug–Oct 2024. • Developed a Differential Gear Assembly working model for the subject Automobile Engineering. • Developed a Carburetor Cut-Section model for the subject Automobile Engineering.
8	Dr. Ritesh Sambare	• Published 2 SCI indexed research papers in the journal Energy Sources, Part A: Recovery, Utilization and Environmental Effects. • Paper titled **"**Experimental Investigations of Tubular Solar Stills Using Supplementary Solar Thermal Collectors for Improved Production**"** published on **4** February 2025 (SCI Journal). • Paper titled **"**Extraction of Drinking Water from a Modified Tubular Solar Still Integrated with Straight Tube and Spiral Tube Flat Plate Collector**"** published on 3 April 2025 (SCI Journal). • Presented research paper **"**Enhancing Pyramid Solar Still Performance: A Comparative Study with Solar Water Heaters and Photovoltaic Systems" at National Symposium on Green Energy Interventions to Support MSMEs in Technology-Deprived Areas organized by MGIRI. • Delivered expert lecture in Faculty Development Program on "Renewable Energy Systems: Design, Integration and Performance" organized by GH Raisoni College of Engineering and Management, Nagpur from 2–7 December 2024. • Presented research work at 9th International Conference on Human Values in Higher Education (ICHVHE 2024) organized by AICTE.

		• Presented paper titled "Performance Enhancement of PV Panel Using Copper Pipe and Steel Wool" at 3rd International Conference on Advanced Communication, Energy and Big Data (2025). • Registered Design Patent titled "Device to Enhance the Efficiency of Solar Photovoltaic (PV) Systems Using Passive Cooling Technology", Design No. 461245-001, dated 04 June 2025. • Registered Design Patent titled Compound Parabolic Concentrator Solar Distiller System Application No- 419615-001. • Successfully published a Utility Patent titled "Waste Recycling Assistive Device for Loading Vehicles." Application Number: 202521004900A, Patent Type: Utility Patent, Publication Date: 14 February 2025. • Successfully published a Utility Patent titled: A Tubular Solar Distillation System Integrated with Secondary Solar Collector. Application No- 202321027741. • Developed a Hermetically Sealed Compressor working model for the subject Refrigeration and Air Conditioning. The model illustrates the construction and working principle of hermetically sealed compressors used in refrigeration systems, helping students understand compressor operation and its role in cooling applications. • Serving as Reviewer for various SCI indexed journals. • Achieved H-Index ≥ 8 and i10-Index ≥ 5. • Joint research publications with reputed institutions/organizations. • Member of Board of Study / Academic advisory activities. • Attended 1 Week ATAL Faculty Development Program (FDP) on Renewable Energy Systems (Dec 2024). • Attended NPTEL Workshop conducted by IIT Madras. • Registered for NPTEL course "Electric Vehicle Technology for Academia. • Received Certificate of Appreciation for exceptional efforts in organizing Deepam Diwali Celebration – 2024. • Participated in the Industrial Skill Training Program titled "Plastic Material and Modern Plastic Processing Techniques" for students and faculty held on 19 March 2025 at the Central Institute of Petrochemicals Engineering & Technology (CIPET), Chandrapur for a duration of 3 days.
9	Mrs. Seema Rewatkar	• Successfully presented the paper titled Heat Camber Formation from Condenser Heat loss in the International Conference On Multidisciplinary Innovations for Global Sustainability and Development (MIGS-2025) on April 17 - 18, 2025 at G H Raisoni University, Amravati (GHRUA) • Copyright Published on Fabrication Of Waste Food Shredder Compost Maker Machine (L-161331/2025) • Achieved Silver model in the 8 weeks FDP on Laser Based Manufacturing by IIT Guwahati under NPTEL • Completed AICTE Training And Learning (ATAL) Academy Faculty

		Development Program on Smart Manufacturing Systems From Industry 5.0 Perspective at NIT Puducherry from 11/12/2024 to 17/12/2024. • Completed 2 Days workshop on Advanced AI Tools for preparing Research Paper organized by CSE Department SASI Institute of Engineering & Technology., AP • Completed Workshop on Art of Academic and Textbook Writing From 08th December 2024 to 10th December 2024 conducted by Udaan Educational Services
10	Mr. Swapnil Sanjay Nishane	• Granted design patent (No. 423700-001) on 28/04/2025 for a "Foldable Crucible Tray for Sintering in Furnaces," • Granted a design patent (No. 432065-001) on 01/05/2025 for a "Vibration Measurement Device for Analyzing Plate Frequencies. • Granted a design patent (No. 419679-001) on 24/07/2024 for a "Versatile Crucible Tray for Tubular and Muffle Furnaces. • Successfully completed a five days (hybrid) national workshop, on metal matrix composites : Exploring new frontiers in manufacturing and automation date 03-03-25 to 07-03-25 at anand international college of engineering, Jaipur • Successfully completed Faculty Development Program on "advanced technology and trends in robotics" organized by department of mechanical engineering, SR university Warangal , India from 24 Feb 2025 to 25 Feb 2025. • Successfully completed Faculty Development Program on "Advances In Material Science & Engineering" organized by department of mechanical engineering, Nagpur Institute of Technology, held from 15th to 20th December 2025 in Hybrid Mode. • Published research paper titled "Fabrication of Stair Climbing Trolley for Material Handling" in the International Journal of Advance Scientific Research and Engineering Trends in December 2024 • Participated in the Industrial Training Program on "BS-IV Importance and Latest Changes in Automobile Industry" held from 7–9 January 2025 for 3 days at Ashok Leyland, STC Workshop, MIDC Hingna. • Successfully completed a 7-day Industrial Training Program on the casting and machining process of evaporators used in refrigerators from 22–28 November 2024 at Chanvim Engg. Pvt. Ltd., Nagpur, gaining practical exposure to manufacturing and production techniques. • Developed a working model of a Rotary I.C. Engine for the Advanced IC Engine course, which supported the conceptual understanding of advanced internal combustion engine configurations and alternative engine mechanisms. • Participated in the Industrial Training Program on "BS-IV Importance and Latest Changes in Automobile Industry" held from 7–9 January 2025 for 3 days at Ashok Leyland, STC Workshop, MIDC Hingna. • Developed a working model of a Rotary I.C. Engine for the Advanced IC Engine course, which supported the conceptual understanding of advanced internal combustion engine configurations and alternative engine mechanisms. • Developed e-content in the form of a PPT on Non-Conventional Energy Sources, contributing to enhanced understanding of alternative and renewable energy technologies.

		• Developed e-content in the form of a PPT on Basics of Manufacturing Process, enhancing understanding of fundamental manufacturing techniques and processes. • Developed a working model of a Biomass/Biogas Plant in the field of Non-Conventional Energy Sources, which facilitated effective understanding of renewable energy conversion processes and enhanced experiential learning in alternative energy systems. • Developed a working model of a Rotary I.C. Engine for the Advanced IC Engine course, which supported the conceptual understanding of advanced internal combustion engine configurations and alternative engine mechanisms. • Mr. Swapnil Nishane contributed a book chapter titled "Advanced Materials & Manufacturing – Exploring Open Water Characteristics of Marine Propeller Blades Across Variable Advance Velocities," published by Springer (ISBN: 978-981-96-8166-2)
11	Dr. Prashant Namdeorao Awachat	• Attended the FDP on "Advanced Technologies and Trends in Robotics" held from 24–28 February 2025 for 5 days, organized by SR University, Warangal. • Successfully completed Faculty Development Program on "advanced technology and trends in robotics" organized by department of mechanical engineering, SR university Warangal , India from 24 Feb 2025 to 25 Feb 2025. • Delivered sessions in a 5-day offline STTP on "Modern Trends in Manufacturing and Automation" held from 27–31 May 2025 at GHRCEM Nagpur. • Successfully completed a 7-day Industrial Training Program on "Casting and Machining Process of Evaporator Used in Refrigerators" from 22–28 November 2024 at Chanvim Engg. Pvt. Ltd., Nagpur.
12	Dr. Shrikant Arunrao Thote	• Attended a 6-day FDP on "Generative AI Unveiled: Concepts, Models, and Real-world Applications" from 02/12/2024 to 07/12/2024, organized by Anjuman Institute of Technology and Management and AICTE ATAL Academy. • Attended a 6-day FDP on "Emerging Technologies in Optimizing Renewable Energy Systems with Smart Materials and Storage Solutions" from 20/01/2025 to 25/01/2025, organized by University College of Engineering Kakinada and AICTE ATAL Academy. • Attended a 5-day FDP on "Recent Trends in Computational Sciences" from 22/07/2024 to 26/07/2024, organized by Amity Institute of Applied Sciences, Department of Statistics and Mathematics, Amity University Kolkata. • Successfully completed a 5-day Industrial Training Program on "Quality Control and Automation in Production" from 9–13 December 2024 at Bentex Engineering Pvt. Ltd., Nagpur.