



**Dr. Lalit K. Toke**



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| <b>Date of Birth</b> | <b>24/06/1977</b>                             |
| <b>Designation</b>   | Associate Professor of Production Engineering |

1. Degrees obtained:

| University   | Degree | Year | Field of Specialization           |
|--|--------|------|-----------------------------------|
| North Maharashtra University,<br>Jalgaon, MS   | B.E.   | 1999 | Mechanical Engineering            |
| Rajiv Gandhi Proudhyogiki<br>Vishwavidyalaya, Bhopal.<br>(University of Technology M.P.) | M.E.   | 2001 | Mechanical/Production Engineering |
| Rajiv Gandhi Proudhyogiki<br>Vishwavidyalaya, Bhopal.<br>(University of Technology M.P.) | Ph.D.  | 2014 | Mechanical/Production Engineering |

2. Employment record (starting from present position)

| University/College   | Designation         | Period                   |
|--|---------------------|--------------------------|
| S.G.G.S. Institute of Engineering &<br>Technology, Nanded                  | Associate Professor | 27/09/2023 to till date  |
| Sandip Institute of Engineering<br>and Management, Nashik                  | Associate Professor | 06/05/2016 to 26/09/2023 |
| Shri Sant Gadge Baba College of<br>Engineering and Technology,<br>Bhusawal | Associate Professor | 01/03/2012 to 05/05/2016 |
|  | Assistant Professor | 01/11/2007 to 28/02/2012 |
|  | Lecturer            | 28/01/2002 to 30/10/2007 |

### **Paper Published in Journals: -**

1. Technique to optimize the supply chain in reverse logistics, (June2010) Industrial Engineering Journal, (**UGC-CARE Listed**), Volume II & Issue No.12, ISSN 0970-2555, Pp 04-10.
2. Green Supply Chain Management: Conceptual Basis and Current Status, (March-2011), International Journal of Computer Application in Engineering, Technology and Sciences (IJ-CA-ETS), Volume 3: Issue1, March 2011, Pp 223-228.
3. The implementation and barriers of green supply chain management in Indian manufacturing industries, (March 2012) International Journal of Innovation of Mechanical and Automobile Engineering, Volume-I, Issue-2, 2012, pp 91-97.
4. An empirical study of green supply chain management in Indian perspective, (2012), International Journal of Applied Science and Engineering Research, ISSN: 2277-9442, Vol.1, No.2, pp. 372-383.
5. Green supply chain management: practices, performance and pressure within manufacturing industry, (2013), International Journal of Emerging Technologies in Computational and Applied Sciences. ISSN (Print): 2279-0047, (Online): 2279-0055, Vol. 2, Issue 6, pp.122-127.
6. Study on optimal location and optimal voltage for piezo-electric actuator on aluminum cantilever plate, (Nov.-2013), International Journal of Engineering Research and Industrial Applications, ISSN: 0974-1518, Vol. 6, No. IV, pp.119-126.
7. Optimization of demand based remanufacturing cost estimation model, International Research Journal of Engineering and Technology (IRJET), (June-2015), ISSN: 2395-0072 (Print) 2395-0056 (Online), Vol.2, No.3, pp.1687-1696, UGC Journal List No.-45170.
8. Study on optimal voltage for piezoelectric actuator in vibration control of cantilever beam using Ansys, (2016), International Journal of Emerging Technologies in Computational and Applied Sciences (IJETCAS), ISSN: 2279-0047, Vol.16, No.219, pp.42-47.
9. Vendor evaluation using MCDM method (GTMA), International journal scientific review and research in engineering and technology, (Oct.-2016), ISSN: 2455-3603, Vol.1, No.6, pp.11-22.
10. Design & Fabrication of an Auto cutter Rubber Sheet Cutting, (2017), International Journal for Scientific Research & Development, Vol. 5, Issue 03, ISSN (online): 2321-0613
11. A framework of enablers relationship for implementation of green manufacturing in Indian context, (2018), International Journal of Sustainable Development & World Ecology (**Taylor & Francis Group, SCI, Scopus Index**), ISSN: 1350-4509 (Print) 1745-2627 (Online) Vol.-25, Issue-4, Pp-303-311, <https://doi.org/10.1080/13504509.2017.1393635>
12. Design and fabrication of pneumatic three axis dumping trolley, (April-2018), International Journal of Institutional & Industrial Research, ISSN: 2456-1274, Vol. 3, Issue 1, Jan- April 2018, pp.61-63.
13. Design and Manufacturing of Solar Operated 3 in 1 Agricultural Mechanism, (2019), International Journal of Recent Trends in Production Engineering, Vol.2, Issue-2, HBRP Publication, pp 1-6.
14. Design and fabrication of die threading machine, (2019), International Journal of Advanced Research in Industrial Engineering, HBRP Publication, Vol.-1, Issue-2.
15. Design and Development of Activated Carbon-Based Purification System for Automobile Emissions, (2019), International Journal of Recent Trends in Automation and Automobile Engineering, HBRP Publications, Vol.-2, Issue-2.
16. Critical success of green manufacturing for achieving sustainability in Indian context, (2019), International Journal of Sustainable Engineering, (**Taylor & Francis Group, Scopus Index**), Vol.-12, Issue-6, Pp.- 415-422, ISSN: 1939-7038 (Print) 1939-7046 (Online). <https://doi.org/10.1080/19397038.2019.1660731>

17. Total quality management in small and medium enterprises: An overview in Indian context, (2020), Quality Management Journal (**Taylor & Francis Group, Scopus Index**), ISSN: 1068-6967 (Print) 2575-6222 (Online), Vol.-27, Issue-3, Pp-159-175. <https://doi.org/10.1080/10686967.2020.1767008>
18. Assessment of Green Supply Chain Management practices, performances, pressures and barriers amongst Indian manufacturer, (2020), International Journal of Productivity and Performance Management (**Emerald Publication, Scopus Index**), Vol. 70 No. 8, pp. 2237-2257, ISSN-1741-0401
19. Optimization of machining parameter of Inconel 718 in turning operation for Green Productivity-A Review, (2020), Journal of Solid-State Technology (**Scopus Index**) Volume: 63 Issue: 5, ISSN-0038-111X, Page 3159-3169, <https://www.emerald.com/insight/1741-0401.htm>
20. Design and Development of Fire Fighting Robot and Android Controller, (2020), International Journal of Disaster Recovery and Business Continuity (**Web of Science Index**), Science & Engineering Research Support Society, Australia, Vol.-11, No.-3, ISSN:2005-4289 (Print), 2207-6425 (Online), pp. 2175–2180, **Published on 01/11/2020.**
21. Design and Development of Material Handling Robot, (2020), International Journal of Disaster Recovery and Business Continuity (**Web of Science Index**), Science & Engineering Research Support Society, Australia, Vol.-11, No.-3, ISSN: 2005-4289 (Print), 2207-6425 (Online), pp. 2110–2119, **Published on 01/11/2020.**
22. Design and Construction of Solar and Wind Hybrid System, (2020), International Journal of Disaster Recovery and Business Continuity (**Web of Science Index**), Science & Engineering Research Support Society, Australia, Vol.-11, No.-3, ISSN-2005-4289 (Print), 2207-6425 (Online),pp. 2240–2250, **Published on 01/11/2020.**
23. Strategic planning to investigate the decision index of organization for effective total quality management implementation- In context of Indian small and medium enterprises, (2021), Journal of Engineering, Design and Technology, (**Emerald Publication, Scopus Index**), Paper published on 26 Feb. 2021, Vol. 20 No. 3, pp. 749-776, ISSN-1726-0531. <https://www.emerald.com/insight/1726-0531.htm>
24. A review on the identification of total productive maintenance critical success factors for effective implementation in the manufacturing sector, Journal of Quality in Maintenance Engineering, (**Emerald Publication, Scopus Index**), Vol. 29 No. 1, pp. 114-135. Paper published on 16/12/2021, ISSN-1355-2511, <https://doi.org/10.1108/JQME-11-2020-0118>.
25. Reliability analysis and hypothesis testing of critical success factors of total productive maintenance, International Journal of Quality & Reliability Management, (**Emerald Publication, Scopus Index**), Vol. 40 No. 1, pp. 238-266, Paper published on 06/01/2022, <https://www.emerald.com/insight/0265-671X.htm>
26. Vibration analysis and control of cracked beam using finite element method by using ANSYS, World Journal of Engineering, (**Emerald Publication, Scopus Index**), ISSN-1708-5284, Vol. 20 No. 5, pp. 938-955, paper published on 26/05/2022. <https://www.emerald.com/insight/1708-5284.htm>
27. Critical analysis of green accounting and reporting practises and its implication in the context of Indian automobile industry, Journal of Environment, Development and Sustainability (**Springer Publication, SCI, Scopus Index**), (Print) 1573-2975(Online), Vol. & Issue No.- Ahead of print, Paper published on 27/12/2022, <https://doi.org/10.1007/s10668-022-02816-3>
28. An Assessment of key performance indicators and its relationship for implementation of total productive maintenance in manufacturing sector, International Journal on Interactive Design and Manufacturing (IJIDeM), (**Springer Publication, Scopus Index**), Vol. & Issue No.- Ahead of print, Paper published on 11/03/2023, <https://doi.org/10.1007/s12008-023-01252-5> ISSN: 1955-2513 (Print) 1955-2505 (Online)

29. Effect of Innovative Burnishing Method by Utilizing a Flank Face of a Turning Tool on Surface Quality of Al-Alloy, 2nd International Conference & Exposition on Mechanical, Material, and Manufacturing Technology (ICE3MT 2022) AIP Conf. Proc. 2943, 020007-1–020007-12; <https://doi.org/10.1063/5.0183657>, Published on 26 Dec.2023(**SCOPUS Index**)
30. Economic Feasibility and Optimal Ranking of Solar Power Potential Using TOPSIS Approach, Springer Lecturer Note Series in Network and Systems, <https://link.springer.com/book/9783031508868>
31. “Enhancing Agricultural Efficiency in India with IoT based Smart Boats”, Sigma Journal of Engineering and Natural Sciences, Paper is Accepted on 4 April 2024 (**SCOPUS Index**).
32. Optimizing Aluminium Alloy Surface Quality with ANN Driven Burnishing: Machining Parameters and Durability Study (2024), Evergreen - Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Publication- Kyushu University Institutional Repository, Japan, Vol. 11, Issue 02, Pp. 927-937, ISSN: 2189-0420 (Print), 2432-5953 (Online), (**SCOPUS Index**).

**Citations – 608 & h index – 09**

**ORCID ID-** [0000-0003-1117-7541](https://orcid.org/0000-0003-1117-7541)

**Web of Science- C-1190-2018**

**Scopus Author ID-57196461604**

**VIDWAN ID- 254381**

### **Book Chapter Publication:**

“Linkages between Critical Success Factors and Factors of Workforce Performance in Remanufacturing Industry”, Designing Workforce Management Systems for Industry 4.0 Data-Centric and AI-Enabled Approaches, ISBN HBK: 978-1-032-40824-8 PBK: 978-1-032-41265-8 EBK: 978-1-003-35707-0 **Published by CRC Press, Taylor & Francis Group**, LLC, 6000 Broken Sound Parkway NW, Suite 300, Boca Raton, FL 33487, U.S.A., Book chapter accepted on 11 October 2022.

### **Paper Presented in International Conferences: -**

1. Reverse Supply Chain in Paper Recycling Industry, International Conference & Exhibition on Total Engineering Analysis & Manufacturing Technologies, “TEAMTECH -2008” held at Indian Institute of Science (IISc.) Bangalore on Sept.22-25, 2008.
2. Green Supply Chain Management: A Review of Literature and Framework for Future Investigation, International Conference on Recent Advances in Material Processing Technology, held at National Engineering College, Kovilpatti (TN) on Feb.25-27, 2009.
3. How green is the supply chain? Practice and research, International conference on Advances in Industrial Engineering Application “ICAIEA 2010” held at department of Industrial Engineering, Anna University Chennai, India on Jan.6-8, 2010.
4. Design and Development of Material Handling Robot, International Conference on Emerging Trends in Engineering and Technology, virtual conference, 28-29 May 2020, Organized by S.I.E.M, Nashik and IFERP.
5. Design and Construction of Solar and Wind Hybrid Power Generation System, International Conference on Emerging Trends in Engineering and Technology, virtual conference, 28-29 May 2020, Organized by S.I.E.M, Nashik and IFERP.

6. Design and Development of Fire Fighting Robot and Android Controller, International Conference on Emerging Trends in Engineering and Technology, virtual conference, 28-29 May 2020, Organized by S.I.E.M, Nashik and IFERP.
7. Overview of gravity die casting process parameters affecting product quality, The 2nd International Conference on “Recent Advances in Materials, Manufacturing and Machine Learning (RAMMML-2023)” organized by Department of Mechanical Engineering, Yeshwantrao Chavan College of Engineering, Nagpur, technically sponsored by NPTC Group of Colleges, United Kingdom held on 2nd – 4th February 2023
8. Enhancement of heat transfer of Nickel Manganese Cobalt (NMC) Lithium-ion battery packs using Herringbone Fins for electric mobility applications, 2nd International Conference on Fluid, Thermal and Energy Systems on June 6-8, 2024, at the National Institute of Technology Calicut, India.
9. Design and optimization of cold plate for prismatic battery cell for electric vehicles applications, 2nd International Conference on Fluid, Thermal and Energy Systems on June 6-8, 2024, at the National Institute of Technology Calicut, India.

**PAPER PRESENTED IN NATIONAL CONFERENCE: -**

1. Mechatronics, National Conference on Advances in Mechanical Engineering Sciences, held at Shri Siddhartha Institute of Technology, Tumkur (Karnataka) on Sept.24 – 25,2004.
2. Biomass Gasifier, National Conference on Energy from Biomass held at Lakshmi Narain College of Technology, Bhopal on March 11- 13, 2005.
3. Supply Chain Management, National Conference on Innovations in Mechanical Engineering, held at J.T.M. College of Engineering, Faizpur on March 29-30, 2007.
4. Vibration Control by Electro and Magneto-Rheological Fluid, National Conference on Recent Developments & Futuristic Trends in Mechanical Engineering held at Shri Ram College of Engineering and Management Gwalior on April 28-29, 2007.
5. Multi Design Optimization –Fluid Structure Interaction. National Conference on Computer Applications in Manufacturing Process held at Sinhgad Institute of Technology, Lonawala on March 13-14, 2008.
6. Finite Element Modeling of Plastic Crack Growth Phenomenon, National Conference on Computer Applications in Manufacturing Process, held at Sinhgad Institute of Technology, Lonawala on March 13-14, 2008.
7. Nanotechnology, National Conference ORION- 08 held at Pravara Rural Engineering College, Loni, Dist.-Ahmednagar on March 29-30, 2008.
8. Environmental SCM using life cycle assessment to structure supply chain, National Conference on Innovations in Mechanical Engineering, held at J.T. Mahajan College of Engineering, Faizpur on Jan. 28-29, 2010.
9. Identifying the relative importance of implementation strategies in GSCM practices via Fuzzy Analytical Hierarchy Process, National Conference on Recent Trends in Mechanical Engineering, held at MET’s Institute of Engineering, Nasik on March 3-6, 2010.
10. Modern technology in direct digital manufacturing, 2<sup>nd</sup> National Conference on Recent Innovations in Engineering, Science and Technology, held at Sandip Institute of Engineering and Management, Nashik on 15-16 April 2019.

**TRAINING AND WORKSHOP ATTENDED: -**

1. Computer Application in Mechanical Engineering (CAME -03), Sponsored by I.S.T.E. New Delhi. Held at Yashwantrao Chavan College of Engineering Nagpur.  
Duration Two Weeks (Nov. 17-30, 2003).

2. Industrial Vibration – A Diagnostic Approach, Organized by Pravara Rural Engineering College, Loni, Dist. -Ahmednagar, Duration Two Days (April 1 – 2, 2005)
3. QIP-Short Term Course on “Micro/Nano Tribology” Organized by Indian Institute of Technology Bombay. Duration (Jan. 1-5, 2007)
4. TEQIP –Short Term Course on Recent Trends in Industrial and Production Engineering at S. G.S. Institute of Technology and Science, Indore, Duration (Nov.10-14,2008)
5. Faculty development Including Research Methodology and Mathematical Modeling in Engineering & Technology, at S.S.G.B. College of Engineering and Technology, Bhusawal. Duration (Nov. 2-7,2009)
6. High impact teaching skills”, by Dale Carnegie and Associates, Inc. Trainer and Wipro Limited, Banglore, at S.S.G.B. College of Engineering and Technology, Bhusawal. Duration (April 19-24,2010)
7. Finite element analysis and their engineering applications, Sponsored by I.S.T.E. New Delhi. Held at S.S.G.B.College of Engineering and Technology, Bhusawal. Duration (October 25-30, 2010)
8. Energy Conservation, organized by J.T.Mahajan College of Engineering, Faizpur. Duration (February 14-15, 2011)
9. Syllabus structure framing for engineering and technology, NMU, Jalgaon at R.C.Patel Institute of Technology, Shirpur on Feb.11, 2012.
10. Aakash for Education, under the National Mission on Education through ICT (MHRD), on Nov.10-11,2012
11. Matlab Fundamentals & Applications, Sponsored by I.S.T.E. New Delhi. Held at S.S.G.B.College of Engineering and Technology, Bhusawal. Duration (April 22-27, 2013)
12. Fluid Mechanics, conducted by Indian Institute of Technology Kharagpur, held at S.S.G.B. College of Engineering and Technology, Bhusawal. Duration (May 20-30, 2014)
13. Condition monitoring of rotating machinery using vibration analysis”, held at S.R.E.S.C.O.E. Kopergaon (6/10/2016)
14. Capacity Building Workshop Strengthening Industry-Academia collaboration, held at Lonawala, Supported By: Program for Modernization and Innovation Promotion in Micro, Small, and Medium-sized Enterprises in India (MSME INNO)
15. Faculty Development Program for Student Induction (FDP-SI), All India Council for Technical Education (AICTE) held at Sandip Institute of Engineering and Management, Nashik. Duration: 9 - 15 December 2019
16. “Soft computing techniques and its applications in engineering” Approved by ISTE, New Delhi held at SGGSIET, Nanded on March.12-16, 2024.
17. “Design Thinking, Prototyping & Product Commercialization” Approved by ISTE, New Delhi held at The National Institute of Engineering, Mysuru, Karnataka **on March**. 04-08, 2024.
18. “Sustainability and Sustainability Development Goals”, Sponsored by Sustainability Promoters & Sustainability Collaborators (SPSC), UK, held at Sandip Institute of Engineering and Management, Nashik on 13-17 May 2024.
19. Personal Effectiveness Programs, held at SGGSIET, Nanded on 24-25 May 2024
20. Revolutionizing Vibration Analysis through Artificial Intelligence and Machine Learning Integration, Approved by ISTE New Delhi held at Dr. D. Y. Patil Institute of Technology, Pimpri, Pune on 11-15 June 2024
21. Inculcating Universal Human Values in Technical Education, organized by All India Council for Technical Education (AICTE) at Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded from 8th August to 10th August 2024

### **Short-term training Conducted**

SSA101x: Hands-on training on Solar Study Lamp Assembly, Sponsored by Indian Institute of Technology Bombay from 01/05/2019 to 31/12/2019 at SIEM, Nashik

### **COORDINATOR**

1. International Conference on Emerging Trends in Engineering and Technology (ICETET-2020), virtual conference, 28-29 May 2020, Organized by S.I.E.M, Nashik and IFERP.
2. An online course, recognized by Skill Council for Green Jobs, conducted from 01 May 2019 to 31 Dec 2019 for Student Solar Ambassador Workshop 2019, by Indian Institute of Technology Bombay.
3. International Conference on Emerging Trends in Engineering and Technology (ICETET-2021), virtual conference, 7-8 July 2021, Organized by S.I.E.M, Nashik and IFERP.

### **SESSION CHAIR**

1. International Conference on Emerging Trends of Manufacturing, Engines and Modeling 2015 held at NMIMS Shirpur (Maharashtra) on 27 & 28 Feb. 2015.
2. National level technical symposium on undergraduate projects on 20-22 June 2020 held at Guru Gobind Singh College of Engineering and Research Centre, Nashik.
3. International Conference on Research challenges to multi-disciplinary innovations, held at Guru Gobind Singh College of Engineering and Research Centre, Nashik on 31 March 2021.
4. 2nd International Conference on Emerging Trends in Science, Engineering and Management (ICETSEM-2021) held at GM Institute of Technology, Davangere, Karnataka, India on 15 & 16 July 2021

### **PATENTS:**

1. Portable Powder Metrology Press, Design No. 395813-001, Dated on 01/02/2024.
2. Agriculture Drone for Monitoring and Spraying Pesticides, Design No. 407760-001, Dated on 16/02/2024.

### **MEMBERSHIP:**

1. Life Member of "Institution of Engineers (India)" Fellow-1230588 as on 31/07/2017
2. Life Member of "Indian Society for Technical Education" LM -37668.
3. Life Member of "Indian Institution of Industrial Engineering" MIIE-9399.
4. Membership of "Industrial Engineering and Operations Management" (IEOM).