

Latha Shankar B

Affiliation (Professor, Dept of....., SIT): Associate Professor, Dept. of IEM

Contact: 9964505469

Email: blshankar@sit.ac.in

Vidwan ID: **90997**

Scopus ID: [55260906700](#)

OrcID: [0000-0003-3516-9319](#)

Faculty ID: SIT0130

Education

| | Degree | Year | Institute | Specialization |
|---|-------------------------|------|--|-------------------------------|
| 1 | B.E. | 1991 | Siddaganga Institute of Technology, Tumakuru | Industrial & Production Engg. |
| 2 | M.Sc.(Engg.)by Research | 2008 | Siddaganga Institute of Technology, Tumakuru | Composite Materials |
| 3 | Ph.D. | 2014 | BDT College of Engineering, Davanagere | Supply Chain Optimization |

Professional Experience

| | Date (from-to) | Designation | Organization |
|---|------------------|---------------------|--|
| 1 | 2015- till today | Associate professor | Siddaganga Institute of Technology, Tumakuru |
| 2 | 2011-2015 | Assistant Professor | Siddaganga Institute of Technology, Tumakuru |
| 3 | 2008 -2011 | Senior lecturer | Siddaganga Institute of Technology, Tumakuru |
| 4 | 2003 -2008 | Lecturer | Siddaganga Institute of Technology, Tumakuru |
| 5 | 1992-1998 | Production Manager | Vidya Industries, Tumakuru |

(Please fill in reverse order. Current designation should be at the top)

Professional Development

1. One-Week Faculty Development Program on Outcome-Based Education, conducted by NITTTR Bhopal (16–21 February 2026)

2. Two-semester course on *Foundations and Advanced Lean Manufacturing Practices*, Mizuho India Japan Study Centre, IIM Bangalore, Bengaluru (Mar.–Dec. 2025).
3. 8-Week NPTEL Course on *Research Methodology* – Top 2% Topper (84%) (Jan.–Mar. 2025)
4. 12-Week NPTEL Course on *Joy of Computing Using Python* – Top 5% Topper (91%) (Jan.-April2023)
5. 12-Week NPTEL Certification Course on *Operations and Supply Chain Management* –81% (July–Oct. 2021).

Positions held

(Please give details of any administrative posts, co Ordinator roles/ responsibilities held)

1. Co-ordinator for Student Induction Program (SIP) from 2018 till today.
2. SPOC for NPTEL courses
3. Member of Strategic Plan Committee 2022-27

Affiliations of Professional organizations

- Fellow -Institutions of Engineers India (IE)
- Senior member-Indian Institution of Industrial Engineering
- Life Member- Indian Institute of Metals (IIM)

Awards and Honors

- Recipient of 10th University rank in B.E.

Courses Taught

Undergraduate Courses

Supply Chain Management(SCM)
 Introduction to Python programming (PLC2)
 Computational Methods in Engineering
 Lean manufacturing
 Research Methodology and IPR
 Product design and development
 Operations Research
 Materials Management
 Enterprise Resource Planning(ERP)
 Production Technology
 Basic Thermodynamics
 Fluid Mechanics
 Computer Integrated Manufacture
 Engineering Economy
 Material Science and Metallurgy

Strength of Materials
Engineering Drawing

Postgraduate Courses

Nil

Research Guidance

| Sl. no | Name of the Scholar | Title | Year of completion |
|--------|---------------------|--|--------------------|
| 1. | TEJASWINI G C | An Investigation of Microstructural and Mechanical Properties of Diffusion Bonded Al 2219 Alloy - Titanium Joints. | Ongoing |

Research Areas

Supply Chain Optimization, Advanced Lean Manufacturing

Sponsored Projects

Ongoing Projects:

1. Title:

Funding Agency:

Amount:

Duration:

Role:

2. Title:

Funding Agency:

Amount:

Duration:

Role:

Completed Projects:

1. Title:

Funding Agency:

Amount:

Duration:

Role:

2. Title:

Funding Agency:

Amount:
Duration:
Role:

Publications

Journals:

1. J Joseph, RS Kadadevaramath, **BL Shankar**, and SY Chen. (2025). “An Integrated Fuzzy Multi-Criteria Approach For Evaluating Sustainable Suppliers In Supply Chains: AHP, TOPSIS, And VIKOR”, *International Journal of Environmental Sciences*, :173-183.
2. Joseph, Jerin, Rajeshwar S Kadadevaramath, **B. Latha Shankar**, and Akarsha Kadadevaramath. (2025). “Performance Evaluation of Green Suppliers Using the Integrated Fuzzy DEMATEL-AHP-VIKOR Multi Criteria Decision Making Techniques”. *Metallurgical and Materials Engineering*, 31 (4):740-50. <https://doi.org/10.63278/1509>.
3. Siddeshkumar, N. G., Manjula, H. M., Balakrishnan, K., Pramod, T. C., Shankar, B. L., Khan, A. A., Pruthvi, H. M., K, S. P., Nandakumar, M. B., Prabhu, S. R., & Prasad, C. D. (2025). Study on dry sliding wear behavior and machine learning models for wear rate prediction of nano hybrid 2219 MMCs reinforced with n-B 4 C & MoS 2 . *Results in Surfaces and Interfaces*, 20, 100623. <https://doi.org/10.1016/j.rsurfi.2025.100623>
4. GC Tejaswini, **B Lathashankar**, R Suresh, (2024). “Investigation on Effect of Temperature on Mechanical Properties and Microstructure of Dissimilar Ti-5Al-2.5 Sn and AA2219 Alloy Joints through Diffusion Bonding Process”, *Jordan Journal of Mechanical & Industrial Engineering*, 18(4): 891-899. <https://doi.org/10.59038/jjmie/180419>
5. OM Adeyemi, **B Lathashankar**, J Rajan, S Jose, and SA Oke (2024). “A Robust Optimisation-Efficiency-Decision Scheme for Electrohydraulic Forming using Hybrid Taguchi-Data Envelopment Analysispareto Method for Aluminium Alloy 1100 Sheets in Automotive Panels”, *Kufa Journal of Engineering*, 15(3) : 186-212. <https://doi.org/10.30572/2018/KJE/150311>
6. **B. Latha Shankar**, T.R. Veena, Suman Pawar, Asha Gowda and Akarsha R. Kadadevaramath (2024). “A study on value chain of mushroom for value addition: challenges, opportunities and prospects of cultivation of mushroom”, *International Journal of Business and Systems Research*, (IJBSR) 18 (6) : 539-554. (Inderscience Publication, Scopus Indexed). <https://doi.org/10.1504/IJBSR.2024.142079>
7. Kulkarni, G.S., Siddeshkumar, N.G., Prasad, C.D., **B. Latha Shankar**, C. R. Aprameya, Prashant Patane, Udayshinha Dilip Deshmukh & Chandan Prasad (2024). “Synthesis and Investigation on Mechanical Properties of Hybrid FRP Composite Using Taguchi Technique”, *J. Inst. Eng. India Ser.D*, <https://doi.org/10.1007/s40033-024-00664>
8. Kulkarni, G.S., Siddeshkumar, N.G., Prasad, C.D., **Latha Shankar** & R. Suresh (2023). “Drilling of GFRP with Liquid Silicon Rubber Reinforced with fine Aluminium Powder on Hole Surface Quality and Tool Wear using DOE”, *J Bio Tribo Corros*, 9, 53. <https://doi.org/10.1007/s40735-023-00771-8>.
9. **B. Lathashankar**, G. C. Tejaswini, R. Suresh & N. H. S. Swamy (2022). “Advancements in diffusion bonding of aluminium and its alloys: a comprehensive review of similar and dissimilar joints”, *Advances in Materials and Processing Technologies*, 8(4): 4659-4677(Scopus indexed). <https://doi.org/10.1080/2374068X.2022.20792749>.
10. Riddhisha Chitwadgi, B Siddesh, **B Latha Shankar**, R Suresh, N.G Siddeshkumar (2022). “Optimization and analysis of dry sliding wear behaviour of n-B4C/MOS2 reinforced AA2219 nano hybrid composites using response surface methodology”, *Metallurgical and Materials Engineering*, 28(3):469-485 (Scopus indexed), <https://doi.org/10.30544/840>

11. Hanumantharayappa, Anjan Kumar B., Prasanna, Chaithra, Ragavendra, Chethana C., Beekam, Chandrasekhar Singh, **Bolubar, Latha Shankar**, Nagaral, Madeva and Rangappa, Suresh (2021). "Synthesis and mechanical characterization of Si₃N₄ reinforced copper-tin matrix composites" *Journal of the Mechanical Behavior of Materials*, 30(1): 199-206(Scopus indexed).DOI: <https://doi.org/10.1515/jmbm-2021-0020>
12. **B Latha Shankar**, RN Darshan, Sagar B Sansuddi, S Aditya (2020). "Evaluation of mechanical properties of teak sawdust and PVC wood plastic composite", *International Journal of Engineering, Science and Technology*, 12 (2), 52-58.
13. N.G. Guruchannabasavaiah, **B. Latha Shankar** (2019) "Development of green channel suppliers in oil and gas sector: a Kaizen approach", *International Journal of Business and Systems Research (IJBSR)*, 13(2): 203-213. (Inderscience Publication, Scopus Indexed). <https://doi.org/10.1504/IJBSR.2019.098656>
14. K V Chidhambara, **B Latha shankar**, Vijaykumar (2018). "Optimization of Robotic Spray Painting process Parameters using Taguchi Method", *Materials Science and Engineering*, 310(1): 012108.(Scopus Indexed). 10.1088/1757-899X/310/1/012108
15. Srinivas D, R.S. Kadadevaramath, **B Latha Shankar**, Nagraj P M, J.Bhaskaran & Mallapur, D. G (2017), "Optimization of Machinability Parameters of Al1100-B4C Composites using Taguchi Method", *Materials Today*, 4 (1): 11305–11313.(Scopus Indexed). <https://doi.org/10.1016/j.matpr.2017.09.055>
16. GV Prabhushankar, **BL Shankar**, TR Veena (2016). "Curriculum redesign in higher education using QFD: A case study", *Proceedings of the International Conference on Transformations in Engineering Education: ICTIEE 2014*, pp. 249-258, publisher: Springer India. DOI: https://doi.org/10.1007/978-81-322-1931-6_30
17. **B Latha Shankar**, T Sudeep Kumar, G S Shiva Shankar (2016) "Numerical and experimental analysis on load sharing & optimization of the joint parameters of polymer composite multi bolted joints", *Materials Science and Engineering*, 149: 012132.(Scopus Indexed) DOI: 10.1088/1757-899X/149/1/012132
18. **B.Latha Shankar**, S.Basavarajappa, Rajeshwar S. Kadadevaramath, Jason C.H.Chen (2013) "A bi-objective optimization of supply chain design and distribution operations using Non-Dominated Sorting algorithm: A case study." *Expert Systems with Applications*, Vol.40, pp. 5730-5739 (Q1 Journal: Elsevier Publication) DOI: <https://doi.org/10.1016/j.eswa.2013.03.047>
19. **B.Latha Shankar**, S.Basavarajappa, Rajeshwar S. Kadadevaramath, Jason C.H.Chen (2013) "Location and allocation decisions for multi-echelon supply chain network", *Expert Systems with Applications*, Vol.40, pp. 551-562. (Q1 Journal: Elsevier Publication). This has been cited in a U.S. patent. DOI: <https://doi.org/10.1016/j.eswa.2012.07.065>
20. **B.Latha Shankar**, S.Basavarajappa, Rajeshwar S. Kadadevaramath, Jason C.H.Chen (2013) "Constrained Optimization of Distribution Network Using New Hybrid PSO Optimizer", *International Journal of Business and Systems Research (IJBSR)* Vol. 7, No. 2, 105-120(Q4 Journal: Inderscience Publication). DOI: <https://doi.org/10.1504/IJBSR.2013.053754>
21. **B.Latha Shankar**, S.Basavarajappa, Rajeshwar S. Kadadevaramath (2012) "Bi-objective optimization of distribution scheduling using mopso optimizer", *Journal of Modelling in Management*, Vol.7, issue 3, pp. 304-327. (Q2 Journal: Emerald Publication). DOI: <https://doi.org/10.1108/17465661211283296>
22. Rajeshwar S. Kadadevaramath, **B.Latha Shankar**, S.Basavarajappa, Jason C.H. Chen (2012) "Application of particle swarm intelligence algorithms in supply chain network architecture optimization." *Expert Systems with Applications*, Vol.39, pp. 10160-10176 (Q1 Journal: Elsevier Publication). DOI: <https://doi.org/10.1016/j.eswa.2012.02.116>

Conference Proceedings:

1. Anusha, Tripthi, B Latha Shankar, TR Veena, Asha, Suman Pawar, RSK Mutt, “Study and analysis of Mushroom Value Chain in Tumkur Taluk: Challenges and opportunities”, International Conference on Industrial Engineering and Management (ICIEM) 2021, 17th-19th December, 2021 organized by Malaviya National Institute of Technology Jaipur-India
2. Sagar B Sansuddi, G S Shivashankar, B Latha Shankar and Dushyanth Kumar K R, “Studies on Tensile Strength of Notched Woven Fabric Composites for Different Stacking Sequence”, International Conference on Trends in Mechanical Engineering Sciences (ICTMES 2020), 5-7th of August 2020 organized by Malnad College of Engineering, Hassan
3. Sagar B Sansuddi, G S Shivashankar, B Latha Shankar and Dushyanth Kumar K R, “Influence of Heat Treatment on Stress Intensity Factor of Nano Boron Carbide Hybrid Al₂₂19 Composites with MoS₂”, International Conference on Trends in Mechanical Engineering Sciences (ICTMES 2020), 5-7th of August 2020 organized by Malnad College of Engineering, Hassan
4. B Latha Shankar, G S Shiva Shankar “Experimental study on effect of addition of Cadmium on delayed aging of AL356 alloy”, IC On recent advancement and interdisciplinary research, 5th Online Conference ICRAIR 2020 organized by City University Malaysia.
5. B Latha Shankar, G S Shiva Shankar, D Thulasi Durai, “Effect of stress concentration and stacking sequence on tensile strength of notched woven fabric composites”, International Conference on Future Engineering [ICFE – 2020], jointly organized by Mazedan International Research Academy, Dr. Rammanohar Lohia Avadh University, Ayodhya and Dr. Ambedkar Institute of Technology, Bengaluru.
6. B P Darshan, G S Shivashankar, B Lathashankar, “A study on dry sliding wear behavior of metal matrix composites using Taguchi Technique”, International Conference on Emerging Trends in Science and Technology [ICETST – 2018], Holymary Institute of Technology and Science, Hyderabad, Telangana, India.
7. Niranjana D.B. G. S. Shiva Shankar and B Latha Shankar “Study on fracture behaviour of Hybrid Aluminium Composite”, International Conference on Research in Mechanical Engineering Sciences (RiMES 2017), MATEC web of conferences.
8. B. Latha Shankar, K C Anil and Rahul Patil, “Optimization of wear behavior of AA8011-Gr composites using Taguchi Technique”, International Conference on Advanced Materials, Manufacturing, Management and Thermal Sciences [AMMMT – 2016] 16-17 September 2016, SIT, Tumkur, India.
9. Srinivas D, R S Kadavevaramath, B Latha Shankar, P M Nagaraj, J Bhaskaran, D G Mallapur, “Optimization of machinability parameters of AL 1100-B4C composites using Taguchi Method”, International Conference on Advanced Materials, Manufacturing, Management and Thermal Sciences [AMMMT – 2016], 16-17 September 2016, SIT, Tumkur, India.
10. Vineeth Kumar T V, G S Shiva Shankar, B Latha Shankar, “Experimental study on effect of stacking sequence, clearance and clamping torque on strength of FRP composite bolted joints”, International Conference on Advanced Materials, Manufacturing, Management and Thermal Sciences [AMMMT – 2016], 16-17 September 2016, SIT, Tumkur, India.
11. B. Latha Shankar, T Sudeep Kumar and G S Shiva Shankar, “Numerical and experimental analysis on load sharing & optimization of the joint parameters of polymer composite multi bolted joints”, International Conference on Advances in Materials and Manufacturing Applications (IConAMMA-2016), 14–16 July 2016, Amrita Vishwa Vidyapeetham, Bangalore, India.

12. B. Latha Shankar, K C Anil and Rahul Patil, "A Study on 3-Body Abrasive Wear Behaviour of Aluminium 8011 / Graphite Metal Matrix Composite", International Conference on Advances in Materials and Manufacturing Applications (IConAMMA-2016), 14–16 July 2016, Amrita Vishwa Vidyapeetham, Bangalore, India.
13. B. Latha Shankar, K C Anil and Prasanna J Karibasappagol, "A Study on Effect of Graphite Particles on Tensile, Hardness and Machinability of Aluminium 8011 Matrix Material", International Conference on Advances in Materials and Manufacturing Applications (IConAMMA-2016), 14–16 July 2016, Amrita Vishwa Vidyapeetham, Bangalore, India.
14. Nandesh J I, B. Latha Shankar, "Optimization of grinding cycle time for end mill manufacturing", International Conference on Emerging Trends in Engineering and Technology, IFERP, Bengaluru, 9th August, 2015.
15. Prabhushankar G.V. , B. Latha Shankar , and T. R. Veena, "Curriculum Re-Design In Higher Education Using QFD – A Case Study", International Conference on Transformation in Engineering Education (ICTEE-Hubli-2014), January 16-18, 2014, BVBCET, Hubli
16. Rajeshwar S. Kadadevaramath, Mohanasundaram K.M., Udayashankar Aradya T.B., Lathashankar B., "Optimizing Supply Chain Operations Using Particle Swarm Algorithm", The 5th International conference on Supply Chain Management and Information Systems (SCMIS), Melbourne, Australia, 9–12, Dec 2007
17. Rajeshwar S. Kadadevaramath, Mohanasundaram K.M., Udayashankar T.B., Aradhya, Lathashankar B., "Determination of Base Stock Level and Total Supply Chain Cost in a Supply Chain Network", National Conference on Advances in Materials and Manufacturing Processes, University BDT College of Engineering, Davangere, Karnataka, 5-6, October, 2007.
18. Rajeshwar S. Kadadevaramath, Mohanasundaram K.M., Rameshkumar K., Udayashankar Aradhya T.B., Lathashankar B., "Multi Echelon Supply Chain Optimization Using Particle Swarm Intelligence Algorithm", Fifth Annual International Symposium on Supply Chain Management, The Grand Hotel & Suites, Toronto, Ontario, Canada, October 17-19, 2007.
19. Dr Rajeshwar.S.Kadadevaramath, Latha Shankar B., K. Vidya S Dandagi, T. B. U. S. Aradya, 'Profit maximization of Multi-Echelon Supply Chain Network Architecture using new Heuristic Approach', National conference on manufacturing: Vision for Future (MVF), Indian Institute of Technology Guwahati, 12th - 13th October, 2013.
20. Dr. Rajeshwar.S.Kadadevaramath, Latha Shankar B., Jason C.H. Chen, "Application of swarm intelligence algorithm for multi objective optimization of multi echelon supply chain", International Conference on Applied Business and Economics (ICABE), City University of New York USA, 2nd - 4th October, 2013.
21. Utsav Lall, Santosh Avvanavar, C. E Megharaj, Latha Shankar B., "Advancement in Teaching through Technology", International conference on Advanced Materials, Manufacturing, Management and Thermal Sciences, May 3 –4, 2013, SIT, Tumkur.
22. B.Latha Shankar, S.Basavarajappa, Rajeshwar S. Kadadevaramath, Jason C.H. Chen (2012). "Bi-objective optimization of location-allocation decisions for three-Echelon supply Chain architecture using multi - objective hybrid particle swarm optimizer". IIIE Annual Convention and international conference 2012. NIMHANS Convention Center, Bangalore, 29th – 31st Oct 2012.
23. B.Latha Shankar, S.Basavarajappa, Rajeshwar S. Kadadevaramath, Jason C.H. Chen (2011). "Study on Three-Echelon supply chain network: optimization using a hybrid PSO optimizer", Operational Excellence for Global Competitiveness [ICOEGC-2011]. R.V. College of Engineering, Bangalore, 3- 5th Feb. 2011.
24. B.Latha Shankar, S.Basavarajappa, Rajeshwar S. Kadadevaramath, Jason C.H. Chen (2010). "Constrained optimization of production distribution scheduling using new hybrid PSO optimizer",

Advanced Materials, Manufacturing, Management and Thermal Sciences AMMMT-2010. Siddaganga Institute of Technology, Tumkur, 18-19th Nov 2010.

Book Chapters

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Books

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Editorial

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Reviewer of Journals

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(Please give details in IEEE format)

Editor/ Reviewer of Journal

Served as ad hoc reviewer for:

Journal of Modelling in Management, Emerald Publication.

Supply Chain Management: an International Journal, Emerald Publication

British Food Journal, Emerald Publication

Patents

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Invited Lectures, talks and workshops

Delivered a lecture on 'Human values & Ethics' in Siddaganga Polytechnic, Tumkur during Student Induction Program on

1. 25th June 2025
2. 25th June 2024
3. 7th July 2023
4. 19th July 2022
5. 4th October 2021
6. 25th November 2020

