

Name:

Dr. Hari Vasudevan
Principal

**Professor and Head of the Dept. of
Production Engg.**

Ph.D. (Indian Institute of Technology Bombay)

M.E. Production Engg. (VJTI)

Post-Graduate Diploma in Industrial Engg. (VJTI)

B.E. Industrial Production (GIT)



Date of Birth:

29-5-1969

Qualifications:

- FIE: Fellow of The Institution of Engineers (India).
- FISME: Fellow of The Indian Society of Manufacturing Engineers, Mumbai.
- Ph.D., Indian Institute of Technology Bombay.
- M.E. (Production Engg), 1st class with distinction, VJTI, Mumbai University.
- Post-Graduate Diploma in Industrial Engg., 1 st class, VJTI, Mumbai University.
- B.E. (Industrial Production), 1 st class, GIT, Karnataka University.
- ERP (BaaN): 3 months Full Time Certificate Programme, S.P. Jain Institute of Management & Research, Mumbai under the University Synergy Programme of BaaN Institute, Netherlands.

Area of
Specializations:

Manufacturing Engineering, Manufacturing Systems & Strategy, Market Orientation of Manufacturing Firms and World Class Manufacturing.

Subjects taught-
Under Graduate
Level:

Manufacturing Engineering, Production & Operations Management.

Post Graduate
Level:

World Class Manufacturing, Manufacturing Strategy, Research Methodology.

Approved Ph.D.
Guide:

Field: Mechanical Engineering: University:- University of Mumbai.

Field: Mechanical Engineering: University:- NMIMS (Deemed to be University).

Ph.D. Guided:

03: Titles of the Research Work are :

1) "Exploring Product Cannibalisation and Benefits of Remanufacturing in the Context of a Remanufactured and its counterpart new product" by Dr. Ravi Terkar.

2) "Supplier Selection and Performance Evaluation Issues in Supply Chain Management" by Dr. Ashish Deshmukh.

3) "Thermal Modelling of Orthogonal Machining Process" by Dr. Rajesh Patil.

Presently guiding 8 students at the DJSCE Research Centre, University of Mumbai.

Approved PG
Guide:

Field: Mechanical Engineering: University: - University of Mumbai.

PG Projects
Guided:

16: M. E. (Mechanical Engineering) Projects of University of Mumbai.

Professional
Memberships

Life Member of ISTE, New Delhi,

Senior Member: IEDRC.

Interaction with Professional Institutions

President of the Indian Society of Manufacturing Engineers (ISME);
Member of Alumni Associations of GIT, NITIE, VJTI & IIT Bombay.

Work Experience: Teaching

1. Principal, Dwarkadas J. Sanghvi College of Engineering from 9-2-2009 till date.
2. Vice-Principal, Dwarkadas J. Sanghvi College of Engineering from 17-7-2007 to 08-02-2009 and Convener, Training & Placement Cell from 1-6-2007 to 17-7-2008.
3. Professor in Production Engineering, Dwarkadas J. Sanghvi College of Engineering from 16-7-2007 till date and Head of the Department of Production Engineering from 01-07-2008 till date.
4. Assistant Professor in Production Engineering, Dwarkadas J. Sanghvi College of Engineering from 31-7-2003 to 15-7-2007 and Lecturer in Production Engineering from 17-8-1994 to 30-7-2003.
5. Lecturer, Dept. of Mechanical Engineering, S.B.M. Polytechnic from July 1993 to August 94.
6. Lecturer, Dept. of Mechanical Engineering, Fr. Agnel Polytechnic from June 1992 to July 1993.

Research and Industry:

1. Production Engineer, Crompton Greaves Limited, Kanjur Marg, Mumbai from August, 1997 to November, 1998.
2. Trainee Engineer, PAM Pharmaceuticals and Allied Machinery Co. Ltd., Kandivali, Mumbai from June, 1997 to July, 1997.
3. Production Planning Engineer, Hercules Hoists Ltd., Mulund, Mumbai from January, 1995 to November, 1995.
4. Production Planning Engineer, Plastic Art /Shalimar Plastic Industries, Mumbai from July 1990 to June 1992.

Research Grant Received:

Research grant received under the "Minor Research Grant" scheme of the University of Mumbai:

1. Research grant of Rs. 45,000/- for the work titled "Grey Relational Analysis for Minimising Surface Roughness of Milled NEMA GII GFRP Plates", (Ref. No. 388) for the A.Y. 2015-16 (with Rajguru Ramesh).
2. Research grant of Rs. 30,000/- for the work titled "Multi-Objective Optimisation of Roughness Parameters during turning of GFRP/Epoxy Composite material.", (Ref. No. 389) for the A.Y. 2015-16 (with Deshpande Naresh).
3. Research grant of Rs. 25,000/- for the work titled "BEST_R: Buses for Enhanced State Transport Roadmap to Urban Transport Modelling", (Ref. No. 400) for the A.Y. 2016-17 (with Vulavala Ramesh & Parulekar Mayur).
4. Research grant of Rs. 45,000/- for the work titled "Grey Fuzzy Optimization of Process Parameters for CNC Turning of Inconel 825 Nickel Based Super Alloy", (Ref. No. 393) for the A.Y. 2017-18 (with Rajguru Ramesh).

International Publications: Journal

1. "A Review and Analysis of the Machining Process involving Nickel Based Super Alloy" in "Lecture Notes in Mechanical Engineering", Springer Singapore, ISSN: 2195-4356, ISSN: 2195-4364 (e), 2018 (with Ramesh Rajguru).
2. "Predictive Modelling of Delamination Factor and Cutting Forces in the Machining of GFRP Composite Material using ANN" in "Lecture Notes in Mechanical Engineering", Springer Singapore, ISSN: 2195-4356, ISSN: 2195-4364 (e), 2018 (with Ramesh Rajguru and Rajnarayan Yadav).
3. "Analyzing the need for a comparative study of Shainin DoE and Traditional DoE tools for deploying Six Sigma in Indian manufacturing companies" in "Materials Science and Engineering", IOP Publications, 2018, DIO: 10.1088/1757-899X/376/1/012121 (with Khavekar Rajendra).

4. "Green Supply Chain Management Practices and its Impact on Business Performance in "Lecture Notes in Mechanical Engineering", Springer Singapore, ISSN: 2195-4356, ISSN: 2195-4364 (e), 2018 (with Gandhi Meeta).
5. "A Combined approach for supplier selection using AHP and Fuzzy AHP in Indian Gear Manufacturing MSMEs" in "Materials Science and Engineering", IOP Publications, 2018, DIO: 10.1088/1757-899X/376/1/012122 (with Deshmukh Ashish).
6. "Multi Characteristics Optimization in the Turning of GFRP Composites based on Grey-Taguchi method" in "Lecture Notes in Mechanical Engineering", Springer Singapore, ISSN: 2195-4356, ISSN: 2195-4364 (e), 2018 (with Ramesh Rajguru and Kalpesh Tank).
7. "Experimental Investigation and Optimization of End Milling Parameters in the Machining of Inconel 825 using Carbide Coated Tool" in "Lecture Notes in Mechanical Engineering", Springer Singapore, ISSN: 2195-4356, ISSN: 2195-4364 (e), 2018 (with Ramesh Rajguru and Geet Dave).
8. "Review and Analysis of issues related to the Implementation of Knowledge Management Practices in Indian Automotive SMEs" in "Materials Science and Engineering" IOP Publications, 2018, DIO: 10.1088/1757-899X/376/1/012125 (with Shaikh Ibrahim).
9. "Optimization of Injection Molding Process Parameters using Response Surface Methodology" in "Lecture Notes in Mechanical Engineering", Springer Singapore, ISSN: 2195-4356, ISSN: 2195-4364 (e), 2018 (with Khavekar Rajendra and Gosar Vimal).
10. "Supplier Selection in Plastic Products Manufacturing MSMEs using a Combined Traditional and Green Criteria Based on AHP and Fuzzy AHP" in "Lecture Notes in Mechanical Engineering", Springer Singapore, ISSN: 2195-4356, ISSN: 2195-4364 (e), 2018 (with Deshmukh Ashish).
11. "Optimization of Machining Parameters in the Turning Operation of Inconel 825 using Grey Relation Analysis in "Lecture Notes in Mechanical Engineering", Springer Singapore, ISSN: 2195-4356, ISSN: 2195-4364 (e), 2018 (with Ramesh Rajguru and Shreyans Jain, Jaineel Desai).
12. Optimization of Multi-Performance Characteristics in the Turning of GFRP(E) Composites using Principal Component Analysis Combined with Grey Relational Analysis" in Materials Today - Proceedings Elsevier, 5 (2018) 5955-5967, DoI: 10.1016/j.matpr.2017.12.197 (with Rajguru Ramesh, Kalpesh Tank & Nishit Shetty).
13. "Application of Shainin Methodology to Reduce Rejections in Spur Gear Manufacturing", in "Material Today" - Proceedings Elsevier, MATPR 5027, PII S2214-7853 (18) 30377-8 (with Khavekar Rajendra and Girish Deshpande).
14. "Application of Shainin DoE Tool to Explore Unknown Variables causing 'Ghost Noise' in 5th Gear Cycle of Transaxles during NVH Testing" in "Advances in Intelligent Systems Research", Vol. 137, PP: 271-276, Atlantis Press (Springer), AISR (ISSN 1951-6851), ISBN (online): 978-94-6252-305-0.
15. "A Comparative Study of Taguchi Methodology and Shainin System DoE in the Optimization of Injection Moulding Process Parameters", in "Materials Science and Engineering", IOP Publications, 225 (2017) 012183 (with Khavekar Rajendra and Modi Bhavik).
16. "Analysis of Supplier Selection Criteria in Traditional as well as Green Supply Chain Management in Indian MSMEs" in the International Journal of Business Quantitative Economics and Applied Management Research, Volumes 3, Issue 3 (August 2016), pp.74-85, ISSN: 2349-5677 (with Ashish Deshmukh).
17. "Suspecting Dominant Variable that causes Porosity Defect in a Cast Made up of Aluminium Alloy (Lm2) Using Shainin's DoE Approach" in the International Journal of Advances in Mechanical and Civil Engineering, Vol - 3, Issue 5, Oct 2016, ISSN : 2394-2827, PP : 124 -130 (with Rajendra Khavekar and Dharam Ranka).

**International
Publications:
Journal**

18. Optimization of Turning Process Parameters in the Machining of an Accumulator (MDN250) using "TAGHUCHI'S DESIGN OF EXPERIMENTS" in the International Journal of Mechanical and Production Engineering, Vol-3, ISS - 5, May 2015 ISSN: 2320-2092, PP:75-78 (with Shreya Kadwadkar & Dharam Ranka)
19. "Grey Fuzzy Multiobjective Optimization of Process Parameters for CNC Turning of GFRP/Epoxy Composites" in the International Journal "Procedia Engineering", Volume 97, PP 85-94, ELSEVIER/ScienceDirect (2014) (with Naresh Deshpande and Ramesh Rajguru).
20. "Demystifying Knowledge Management in Indian Manufacturing SMEs" in the International Journal "Procedia Engineering", Vol-97, PP:1724-1734, ELSEVIER/ScienceDirect (2014) (with Chavan Anup).
21. "Multiobjective Optimization of Drilling Characteristics for NEMA G -11 GFRP/Epoxy Composite using Desirability Coupled with Taguchi Method" in the International Journal "Procedia Engineering", Volume 97, PP 522-530, ELSEVIER/ScienceDirect (2014) (with Naresh Deshpande and Ramesh Rajguru).
22. "Knowledge Management Practices in Indian Manufacturing MSMEs: Challenges and Opportunities" in the International Journal "Procedia Engineering", Volume 97, PP 1784-1787, ELSEVIER/ScienceDirect (2014) (with Chavan Anup).
23. "A study on Edge Milling Operation of NEMA G11 GFRP Composites based on Grey-Taguchi method" published in the International Journal Applied Mechanics and Materials, (Volumes 592-594), pp.18-22, July 2014 - ISBN: 13: 978-3-03835-163-4 (with Ramesh Rajguru and Naresh Deshpande).
24. "Emerging Supplier Selection Criteria in the Context of Traditional Vs. Green Supply Chain Management" in the International Journal of Managing Value and Supply Chains (IJMVSC), Vol.5, No.1, March 2014, pp.19-33, ISSN: 0976-979X (with Deshmukh Ashish).
25. "Investigation of the Machinability Characteristics of GFRP/Epoxy Composites using Taguchi Methodology", in the journal "Applied Mechanics and Materials" (Volume 612), pp.123-129, August 2014, ISSN 1662-7482 (with Deshpande Naresh and Rajguru Ramesh).
26. "Exploring the performance of a Single Cylinder Diesel Engine with alternative fuels such as CME and CME-Diesel Blends" in the International Journal of Current Engineering and Technology, ISSN 2277-4106, InPressco International Press Corporation, Vol. 3, Issue 3 (with Sandip Mane, Deshpande Naresh and Rajguru Ramesh).
27. "Desirability Fuzzy Multiple Criteria Optimization of Process Parameters in CNC Turning of GFRP/Vinyl ester Composites" in the International Journal "Procedia Materials Science" by Elsevier/ ScienceDirect, Volume: 5 (2014), pp.2458-2467 (with Deshpande Naresh and Rajguru Ramesh).
28. "Experimental Investigation and Optimization in Edge Milling of NEMA G-11 GFRP/Epoxy Composites" in the International Journal "Procedia Materials Science" by Elsevier/ ScienceDirect, Volume: 5 (2014), pp.2105-2114 (with Rajguru Ramesh and Deshpande Naresh).
29. "Exploring the Potential of Remanufacturing in Indian Industries for Sustainability and Economic Growth" in the International Journal of Business Management and Research (IJBMR)', ISSN(P):2249-6920; ISSN(E):2249-8036. Trans Stellar Publications. Vol.4, Issue 1, pp: 25-38, February 2014 (with Kalamkar Vilas, Sunnapwar Vivek & Terkar Ravi).
30. "Validation and Installation of a Narrow belt Conveyor to Cater to High Throughput in FMCG Industries in the Indian Context" in the International Journal of Engineering Research and Development (IJERD), Vol.8, ISS.2, ISSN:2278-067X, P-ISSN:2278-800X, (August 2013), pp.39-48 (with Jobalia Binoy & Majgaonkar Vineet).
31. "Modeling Knowledge Management Barriers in the Indian Manufacturing SMEs Using ISM Approach" in the IUP Journal of Knowledge Management, Vol XI, No.4, pp 36-52, IUP Publications, October 2013 (with Chavan Anup).

**International
Publications:
Journal**

32. "Investigation of the machinability characteristics of GFRP/ Vinyl ester composite using design of experiments" in the International Journal of Machining and Machinability of Materials, Vol.15, Nos. 3/4, pp.186-200, 2014, Inderscience Publishers (with Deshpande Naresh and Rajguru Ramesh).
33. "Optimization of Injection Moulding Process Parameters in the Moulding of Low Density Polyethylene (LDPE)" in the International Journal of Engineering Research and Development (IJERD), Vol.7, ISS.5, e-ISSN: 2278-067X, p-ISSN:2278-800X, (June 2013), pp.35-39 (with Sajjankumar Lal).
34. "Enhancing Productivity through Cost and Lead Time Reduction in Remanufacturing" in the International Journal of Mechanical Engineering & Technology (IJMET), Vol.4, ISS.2, ISSN 0976-6340(P), ISSN 0976-6359(O), (March-April 2013), PP.286-297 (with Terkar Ravi and Kalamkar Vilas).
35. "Remanufacturing for Profitability and Green Growth sustainability: A Case Study of Printer Cartridge Sector in India" in the International Journal of Production Technology & Management (IJPTM), Vol.4, ISS.1, ISSN 0976-6383(P), ISSN 0976-6391(O), (January - April 2013), PP.17-30 (with Terkar Ravi and Kalamkar Vilas).
36. "Heat and Temperatures in Machining: Effects and Significance" in the International Journal: Advanced Materials Research, Vols. 622-623 (2012), pp 1550-1553 (with Patil Rajesh and Kalamkar Vilas).
37. "Importance of Closed Loop Supply Chain in the Product Recovery Processes such as Remanufacturing" in the International Journal of Engineering Research and Applications (IJERA). ISSN 2248-9622, Special Issue - March 2012, pp 121-127 (with Ravi Terkar and Vilas Kalamkar).
38. "Remanufacturing for Sustainable Development: Challenges, Elements and Benefits" in the International Journal of Innovation, Management and Technology (IJIMT), February 2012, Vol. 3(1): pp: 84- 89, ISSN: 2010-0248 (with Ravi Terkar and Vilas Kalamkar).
39. "Market Orientation and Manufacturing Performance of Indian SMEs: Moderating Role of Firm Resources and Environmental Factors" European Journal of Marketing (ISSN: 0309-0566), Emerald in sight publications, Vol.45, ISS: 7/8, PP: 1172-1193, 2011 (with S.S. Gaur and Ajai S. Gaur).
40. "Importance of Innovative Product Launching and Product Life Cycle Management in small Scale Consumer Industries" in the International Journal of Computer Applications (IJCA), Number 3 (ISBN: 978-93-80746-62-5), 2011 (with Ravi Terkar and Vivek Sunnapwar).
41. "Effect of Customer Orientation and Competitor Orientation on Small and Medium Scale Manufacturing Firm's Performance in Turbulent Markets" in the International Journal of Entrepreneurship and Small Business (IJESB), Inderscience Publishers (with Gaur S. S.).
42. "Relational Switching Costs, Satisfaction and Commitment: A Study in the Indian Manufacturing Context" in the Asia Pacific Journal of Marketing and Logistics (APJML), Emeraldinsight Publications, 2006, Vol.18, No.04 (Oct.) (with Gaur S.S. and Shinde R. K).

**International
Publications:
Conference**

1. "Effect of Machining Parameters on Surface Integrity in End Milling of Inconel 625", accepted for presentation and publication in the 7th International and 28th All India Manufacturing Technology, Design and Research Conference 2018 (AIMTDR 2018), being organised by the college of Engineering Guindy, Anna University from 13th to 15th December, 2018.
2. "Multi Criteria Decision Making Techniques for Supplier Selection in the Context of Gear Manufacturing in India", in the proceedings of the Diamond Jubilee National Convention of IIIE & International Conference (Role of Industrial Engineering in Industry 4.0 Paradigm ICIEIND 2018), organised from 27th to 30th September 2018 at Bhubaneshwar, Odisha, India (with Deshmukh Ashish).

**International
Publications:
Conference**

3. "Optimization of Injection Moulding Process Parameters using Taguchi DoE Methodology", in the proceedings of the Diamond Jubilee National Convention of IIE & International Conference (Role of Industrial Engineering in Industry 4.0 Paradigm ICIEIND 2018), organised from 27th to 30th September 2018 at Bhubaneswar, Odisa, India (with Khavekar Rajendra).
4. "Optimization of Process Parameters in Electrical Discharge Machining of DIN-X36CrMo17 steel using Grey Relational Analysis", in the proceedings of the 4th International Conference on Industrial Engineering (ICIE-2017) organised by SV National Institute of Technology, Surat from 21st to 23rd of December 2017 (with Khavekar Rajendra and Ajaykrishna C.).
5. "Understanding the Benefits of Green Supply Chain Management and the frame work for a generic approach in measuring the organizational programme", in the proceedings of the 4th International Conference on Industrial Engineering (ICIE-2017) organised by SVNIT, Surat from 21st to 23rd of December 2017 (with Meeta Gandhi).
6. "Shainin Tool Approach for Quality Monitoring in Injection Moulding", in the proceedings of the 4th International Conference on Industrial Engineering (ICIE-2017) organised by SV National Institute of Technology, Surat from 21st to 23rd December 2017 (with Khavekar Rajendra and Salian Harshitha).
7. "Improvement of Gear Quality in Machining Industry using Shainin System", in the International Conference on Materials, Manufacturing and Design 2016, organised by Dr. Babasaheb Ambedkar Technological University, Maharashtra on 20th & 21st December, 2016 (with Khavekar Rajendra and Deshpande Girish).
8. "Optimization of Injection Moulding Process Parameters using Shainin System", in the International Conference on Materials, Manufacturing and Design 2016, organised by Dr. Babasaheb Ambedkar Technological University, Maharashtra on 20th & 21st December, 2016 (with Khavekar Rajendra and Modi Bhavik).
9. "Grey Fuzzy Multiple Criteria Optimization of Process Parameters for CNC Turning of GFRP/Vinyl-Ester Composites", in the International Conference on Materials, Manufacturing and Design 2016, organised by Dr. Babasaheb Ambedkar Technological University, Maharashtra on 20th & 21st December, 2016 (with Naresh Deshpande and Ramesh Rajguru).
10. "Multiple Criteria Optimization of Process Parameters for Edge Milling of NEMA G II Composites using Desirability Function Analysis", in the International Conference on Materials, Manufacturing and Design 2016, organised by Dr. Babasaheb Ambedkar Technological University, Maharashtra on 20th & 21st December, 2016 (with Ramesh Rajguru and Naresh Deshpande).
11. "Optimization of cutting Parameters for surface Roughness in the Machining of GFRP composites using Grey fuzzy method in the 6th International & 27th All India Manufacturing Technology, Design & Research Conference (AIMTDR-2016) held at College of Engineering, Pune from 16-18 December 2016 (With Naresh Deshpande, Ramesh Rajguru, Kalpesh and Mandar).
12. "Optimization of Material Removal Rate and Cutting Forces in Turning of GFRP composites" in the 6th International & 27th All India Manufacturing Technology, Design & Research Conference (AIMTDR-2016) held at College of Engineering, Pune from 16-18 December 2016 (With Ramesh Rajguru, Kalpesh and Mandar).
13. "Strength Analysis of two Component Epoxy Adhesive Bond between Carbon Fibre AND SS302" in the 6th International & 27th All India Manufacturing Technology, Design & Research Conference (AIMTDR-2016) held at College of Engineering, Pune from 16-18 December 2016 (with Narendran, Karan, Akash and Gaurav).

**International
Publications:
Conference**

14. "A review and proposed framework of the generic approach for organisational performance measurement in Green Supply Chain Management" is published in the International Conference on "Big Data Analytics for Optimising Supply Chains", organised by SPJIMR in collaboration with Production and Operations Management Society (POMS) India Chapter on 29th-30th July, 2016 (with Gandhi Meeta).
15. "Utility Fuzzy Multicriteria Optimization of Process Parameters in CNC Turning of GFRP/ Vinyl ester Composites" presented and published in the ICMMM2014, International Colloquium on Materials, Manufacturing and Metrology, held at Indian Institute of Technology Madras, Chennai, during August 8-9, 2014 (with Naresh Deshpande and Ramesh Rajguru).
16. "Grey fuzzy optimization of milling parameters for G-11 GFRP/Epoxy composites with multiple performance characteristics" presented and published in the ICMMM2014, International Colloquium on Materials, Manufacturing and Metrology, held at Indian Institute of Technology Madras, Chennai, during August 8-9, 2014 (with Ramesh Rajguru and Naresh Deshpande).
17. "Multi Criteria Decision Making using Fuzzy Inference System: A Case in Manufacturing" in the ICCICT 2014 conference held at Noorul Islam centre for higher education Noorul Islam university Kumaracoil, Tamilnadu, India, during July 10-11, 2014, published in the IEEE Xplore Digital Library (with Naresh Deshpande and Ramesh Rajguru).
18. "Utility Fuzzy Multiobjective Optimization of Process Parameters for CNC Turning of GFRP/Epoxy Composites" in the 5th International and 26th All India Manufacturing Technology, Design and Research Conference - "AIMTDR 2014" organized by the Department of Mechanical Engineering, IIT Guwahati, India from December 12-14, 2014 (with Naresh Deshpande, Ramesh Rajguru, Sandip Mane).
19. "Experimental Investigation and Optimization of Milling Parameters in the Machining of NEMA G -11 GFRP Composite Material using PCD Tool" in the 5th International and 26th All India Manufacturing Technology, Design and Research Conference - "AIMTDR 2014" organized by the Department of Mechanical Engineering, IIT Guwahati, India from December 12-14, 2014 (with Ramesh Rajguru, Naresh Deshpande, Sandip Mane).
20. "An Experimental Investigation into the Optimization of Cutting Force in CNC Turning of Woven Fabric based GFRP/Epoxy Composites using PCD Cutting Tool", in the International Conference on Design, Manufacturing and Mechatronics (ICDMM-2014) organized by KJEI's Trinity College of Engineering and Research, Pune from 9th to 10th January 2014 (with Deshpande Naresh, Rajguru Ramesh).
21. "An Experimental Study on the Performance and Emission Characteristics of a Single Cylinder Diesel Engine Using CME-Diesel Blends", in the International Conference on Renewable Energy and Sustainable Development (ICRES-2014) organized by KJEI's Trinity College of Engineering and Research, Pune from 9th to 10th January 2014 (with Mane Sandeep, Deshpande Naresh and Rajguru Ramesh).
22. "Analysis of a Multi-criteria optimization problem using Taguchi and Grey relational analysis: A case study in the machining of composite materials" in the International Conference on Advances in Mechanical Engineering (ICAME), organized by the department of Mechanical Engineering, College of Engineering Pune, Maharashtra from 29th-31st May 2013 (with Ramesh Rajguru and Naresh Deshpande).
23. "Knowledge Management Barriers in Indian Manufacturing SEMs: Modeling using an Interpretive Structural Modeling Approach" in the International Conference on Business Intelligence, Analytics and Knowledge Management (BIAKM-2013) organized by IBS Hyderabad, IFHE University, Hyderabad, India from 17th to 19th April 2013 (with Chawan Anup). **Received the best Research Paper Award during the Conference.**
24. "Study of Cutting Force in CNC Turning of Woven Fabric based GFRP/Vinylester Composites using PCD Cutting Tool" in the International Conference on Advanced Manufacturing and Automation (INCAMA-2013) organised by the Department of

**International
Publications:
Conference**

- Mechanical Engineering (DST-FIST Sponsored) Kalasalingam University, Madurai, Tamil Nadu from the 28th-30th March 2013 (with Naresh Deshpande and Ramesh Rajguru).
25. "Multi-criteria optimization using Taguchi and Grey relational analysis in CNC drilling of GFRP/E composite material" in the International Conference on Advanced Manufacturing and Automation (INCAMA-2013) organised by the Department of Mechanical Engineering (DST-FIST Sponsored) Kalasalingam University, Madurai, Tamil Nadu from the 28th-30th March 2013 (with Ramesh Rajguru and Naresh Deshpande).
 26. "Recent Trends and Developments in the use of Woven Fabric Reinforcements for Composite Materials" in the International Conference on Innovations in Automation and Mechatronics Engineering 2013 (ICIAME2013), organised by G.H. Patel College of Engineering & Technology, Vallabh Vidyanagar, Gujarat, India, 21-23 February 2013 (with Deshpande N.C. & Rajguru Ramesh).
 27. "Remanufacturing Benefits Versus Fear of Product Cannibalization: An Analysis of Recent Trends in the Indian Context", in the International Conference on Agile Manufacturing-2012 (ICAM-2012) organized by the Mechanical Engineering Department, Indian Institute of Technology- BHU, Varanasi, December 16-19, 2012 (with Terkar Ravi & Kalmkar Vilas).
 28. "Decision Criterion and Methods of Supplier Selection" in the International Conference on Recent Advances In Engineering, Technology And Management: SPICON 2012, organized by the Department of Mechanical Engineering, SPCE, May 31st - June 2nd, 2012 (with Ashish Deshmukh).
 29. "Importance of Remanufacturing Sector as a Secondary Market in India in view of Optimum Profit Life Cycle" in the International Conference on Recent Advances In Engineering, Technology And Management: SPICON 2012, organized by the Department of Mechanical Engineering, SPCE, May 31st - June 2nd, 2012 (with R. Terkar and V.R. Kalamkar).
 30. "Need for Product Cannibalization in Small Scale Manufacturing Industries through Product Life Cycle" in the International Conference on Industrial Engineering ICIE-2011 organized by Mechanical Engg. Dept., S.V.N.I.T., Surat, during 17th - 19th November 2011 (with Ravi Terkar).
 31. "Product Cannibalization due to Remanufacturing and its decisive strategies" in the International Conference on 'Sustainable Manufacturing: Issues, Trends and Practices' (ICSM2011) organized by Mechanical Engg. Dept., BITS Pilani, during 10th - 12th November 2011 (with Ravi Terkar and Vilas Kalamkar).
 32. "Achieving Zero Defects at an Economically Affordable Cost" in the International Conference of Society of Operations Management (Nasik: Symbiosis Institute of Operations Management, Maharashtra, Dec., 2007) (with Sawan Kumar Naik).
 33. "Market Orientation-Manufacturing Performance Relationship: An Empirical Study" in the International Conference-COSMAR (Bangalore: Indian Institute of Science, Karnataka, India, September, 2006).
 34. "Vibration Analysis of an Assembly by Converting it into a Mass Spring System" in the International Conference on Advances in Materials Processing and Characterization (Chennai: Anna University, Tamil Nadu, India, August, 2006) (with Bhosale Ajith, Lakal Narendra and Khavekar Rajendra).
 35. "Effect of Market Orientation on Manufacturing Performance of Emerging Market SMEs" in the Academy of Management Annual Meeting and Conference on Knowledge, Action and Public Concern (Atlanta: USA, Aug., 2006) (with Gaur, S. S. and Singh, D. A.).
 36. "Influence of Environment, Resources and Market Orientation on Manufacturing Performance" in the American Marketing Association Annual Meeting and Summer Educator's Conference (Chicago: USA, Aug., 2006) (with Gaur S S. and Singh, D. A.).

**International
Publications:
Conference**

37. "Market Orientation-Manufacturing Performance Relationship: Role of Firm Resources and External Environment" in the Academy of International Business Annual Meeting and Conference (Beijing: China, June, 2006) (with Gaur, S.S. and Singh, D. A.).
38. "Effect of Market Turbulence and Market Focus on Firm's Performance in Small and Medium Scale Manufacturing Firms" in the International Seminar on Creating Entrepreneurship Environment and Developing Entrepreneurial Management (Mumbai: Indian Institute of Technology Bombay, India, Mar., 2006) (with Gaur, S. S.).
39. "Market Orientation and Manufacturing Outputs" in the AMS 12th Biennial World Marketing Congress (Muenster: University of Muenster, Germany, July, 2005) (with Gaur S. S.).
40. "A Review of the Determinants of Customer Loyalty" in the AMS 12th Biennial World Marketing Congress (Muenster: University of Muenster, Germany, July, 2005) (with Gaur S.S. and Agarwal Richa).
41. "Exploring Relational Switching Cost-Commitment Link in Small and Medium Manufacturing Firms" in the International Conference on Marketing Paradigms for Emerging Economies (Ahmedabad: Indian Institute of Management Ahmedabad, Gujarat, India, January, 2005) (with Gaur S. S. and Shinde R K.).
42. "Developing an Understanding of the Mid-Size Manufacturing Firms' Buying Behavior for ERP" in the International Conference on Indian Midsize Manufacturing Enterprises- 'Opportunities and Challenges in a Global economy', jointly organized by MDI Gurgaon and Confederation of Indian Industry in New Delhi (Hotel Le Meridien) from 19-20, 2004 (with Gaur S.S. and Kundu Protik).

**Book Chapter/
Proceedings:**

1. "Lecture notes in Mechanical Engineering", Springer Publications, ISBN: 978-981-10-9040-0, ISBN: 978-981-10-9041-7 (e), Proceedings of International Conference on Intelligent Manufacturing and Automation: ICIMA 2018 (with K. N. Vijayakumar and Amool A. Raina).
2. "Lecture Notes on Data Engineering and Communications Technologies", Volume 19, Springer Publications, ISSN: 2367-4512, ISBN: 978-981-10-8338-9, Proceedings of International Conference on Wireless Communication: ICWiCom 2017 (with Deshmukh Amit & Ray K. P.).
3. Editor in Chief of Procedia Computer Science: ELSEVIER/ScienceDirect, Volume 45 (2015); Proceedings of International Conference on Advanced Computing Technologies and Applications (ICACTA) organised by SVKM's DJSCE, ISSN: 1877-0509 (with Dr. Abhijit R. Joshi and Dr. Narendra Shekokar).
4. "Perfect Product Launching strategies in the Context of Survival of Small Scale, Consumer Products Industries" Dr. Hari Vasudevan, in K. Shah, V.R. Lakshmi Gorty and A. Phirke (Eds.): ICTSM 2011, CCIS 145, pp.321-326, 2011, Springer "Verlag Berlin Heidelberg 2011.
5. "Effect of Market Turbulence and Market Focus on Firm's Performance in Small and Medium Scale Manufacturing Firms" in S. Bhargava (ed.) IIT Bombay, Entrepreneurial Management, (Sage Publications), Feb. 2008 (with Gaur S.S.).

**National
Publications:
Journal**

1. "A Review of Machining Processes and Machinability in the case of GFRP Composite Materials" in the IPI Journal, the Official Publication of Indian Plastics Institute, Vol.18, ISS 03, August/September 2013 (with Rajguru Ramesh).
2. "Electron- Beam Curing of Polymeric Composites: An Enabling Technology for Advanced Manufacturing in the IPI Journal/Official Publication of Indian Plastic Institute, Vol.18, ISS.2, June/July 2013 (with Deshpande Naresh).
3. "Quality Improvement in the Manufacture of Air Circuit Breakers" Dr. Hari Vasudevan, TECHNOFOCUS: Journal for Budding Engineers Vol.1 (2), 2011 (with Valia Akash).
4. "Press working of Composite Sheets: A Compound Die Design Approach" Dr. Hari Vasudevan, TECHNOFOCUS: Journal for Budding Engineers Vol.1 (1), 2010 (with Phadnavis Vrushank).

**National
Publications:
Journal**

5. "Understanding the Benefits and Need for Implementation of ERP in Small and Medium Manufacturing Firms" in Voice of Technology, Indian Society of Manufacturing Engineers, 2004, Combined Issues 3 and 4, July/Sep and Oct/ Dec.
6. "Information & Communication" in Voice of Technology Indian Society of Manufacturing Engineers, 2000, Issue 4, Oct/Dec.

Work Books:

Two Engineering Drawing Workbooks covering the syllabus of "Engineering Drawing-I" and "Engineering Drawing -II" for Semester 1 and 2 respectively of the University of Mumbai during the academic year 1996-1997.

**National
Publications:
Conference**

1. "Application of Knowledge Management in an Indian Automotive Industry" in the National Conference of Emerging Trends in Engineering 'NCETE-13' during 4th & 5th January 2013, organized by M. H. Saboo Siddik College of Engineering, Byculla, Mumbai (with Chawan Anup).
2. "Delamination in Machining of Composite Materials: A Review in the Context of Drilling Operation" in the National Conference on Emerging Trends in Engineering 'NCETE-13' during 4th & 5th January 2013, organized by M.H. Saboo Siddik College of Engineering, Byculla, Mumbai (with Rajguru Ramesh & Deshpande N.C.).
3. "Near Dry Machining- a minimum quantity lubrication machining" in the National conference on Advances In Mechanical Engineering & Emerging Technologies (AMEET-12), organized by the Department of Mechanical Engineering, Kamla Nehru Institute of Technology, Sultanpur from April 07-08, 2012 (with Rajesh Patil and V.R. Kalamkar).
4. "A Modified Approach in Precision Manufacturing by Abrasive Flow Machining" in the National conference on Advances in Mechanical Engineering (Hyderabad: Vasavi College of Engineering, Andra Pradesh, India, May, 2005) (with Khavekar Rajendra, Lakal Narendra and Bhosale Ajit).
5. "Achieving Competitive Excellence in Contract processing in a Manufacturing Firm" in the National Conference on World Class Manufacturing (Wardha: B. D. College of Engineering, Sevagram, Maharashtra, India, March, 2004) (with Khavekar Rajendra and Lakal Narendra).

**Other
Experience:**

1. Member of the Board of Studies in Mechanical/Production/ Automobile/Marine Engineering of the University of Mumbai and Convener, Syllabus revision committee in Production Engineering from the year 2006.
2. Visiting Faculty at Veermata Jijabai Technological Institute (VJTI), teaching M.Tech. (Production Engg.) students the subject of Supply Chain Management during January - May 2008.
3. Visiting faculty at NMIMS University's MPSTME, teaching subjects like "World Class Manufacturing" and "Manufacturing Systems & Strategy" for the MBA (Tech) course during the academic years 2006-2007, 07-08, 08-09 & 09-10.
4. Visiting faculty at NMIMS University's MPSTME, Shirpur (Dhule) Campus teaching subjects like "Engineering Drawing" and "Material Science" for the MBA (Tech.) and B.Tech courses during the academic years 2007-2008 & 08-09.
5. Visiting faculty at Chetana's Ramprasad Khandelwal Institute of Management and Research, Bandra (E), Mumbai - 51 in the subject of Production Management for the academic year 1996-1997.
6. Visiting faculty at Shri Bhagubhai Mafatlal Polytechnic, Vile Parle (W), Mumbai during 1994-1996, teaching subjects such as Production Management, Work Study & Ergonomics and Engineering Drawing.
7. Mumbai University panel member for conducting group discussion and personal interview for the MMS admissions during 1996-1997 and 1997-1998 on behalf of Directorate of Technical Education, Maharashtra state.
8. Panel member at NMIMS University for conducting personal interview for the MBA (Technology) admissions during 2005-2006, 06-07, 07-08 & 08-09.

Other Experience:

9. Visiting Faculty at SVKM's Institute of International Studies (IIS), teaching students of IIS and Kingston University, London for their graduate program, the subject of "Technology and Change" during academic year 2006-2007.

Short Term Training Undergone/ Programs Attended

One-day workshop on "Skill India" under TEQIP, conducted by VJTI, Matunga, Mumbai on 25th February, 2016.

Indian Engineering Deans Council: Global Summit on Engineering Education – Current Scenario & Future Prospects organised by the Indian Society for Technical Education at Chennai during 31st July – 1st August, 2015.

- NITIE:**
1. Just in Time for Indian Industries.
 2. Production Management.

- ISME/IIF:**
1. Advances in Press Tool Design and Manufacturing.
 2. Preparing Foundries for the Challenges Ahead.
 3. National Seminar on Centre less Grinding.
 4. International Conference on Advances in Manufacturing Technology.
 5. National seminar on Metrology and Inspection.
 6. High Tech Manufacturing.

ISTE Trends and Advances in Machine Tools and Manufacturing.

NCQM Three Keys for Business Excellence.

IIT PAN-IIT Conferences at IIT Bombay and IIT Madras.

Programs Coordinated/ Chaired

Session Chairman (Session: Advanced and Traditional Optimization Techniques) in the 4th International Conference on Industrial Engineering (ICIE-2017) organised by SVNIT, Surat from 21st to 23rd of Dec-2017.

Session Chairman during the 1st International Conference on Emerging Trends in Computer and Mechanical Engineering (ICETCAME-17) organised by SBMP, Mumbai from 15th to 16th of December 2017.

Panel member: Discussion on "How Internet of things will be the game changer" organised by NASSCOM jointly with L&T Technology Services & Accenture as part of the NASSCOM COE-IOT conclave on 20th May 2016.

Session Chairman (Mechanical Engineering) in the International Conference on "Emerging Trends in Technology and its Applications" (ICETTA-2014), organized by Yadavrao Tasgaonkar College of Engineering & Management, Karjat, from 7th – 8th March 2014.

Convenor of the International Conference on Communication Technologies (ICCT 2013) organized by Dwarkadas J. Sanghvi College of Engineering during October 2013.

Member-Interactive Panel, Session titled "An Exchange between Science and Spirituality- Outer Space and Inner Space" in the SSTech 2012, i.e. the 2-Day National Conference on Science and Spirituality in the age of Technology held from October 05-06, 2012, organized by the University of Mumbai, India jointly with Dr. T. D. Singh's Institute of Science and Religion at the University of Mumbai campus, Kalina, Mumbai.

Session Chairman in the International Conference on Recent Advances in Engineering, Technology and Management: SPICON 2012, organized by the Mechanical Engineering Department., SPCE from May 31st – June 2nd, 2012.

Session Chairman in the International Conference on 'Sustainable Manufacturing: Issues, Trends and Practices' (ICSM2011) organized by the Mechanical Engg. Dept., BITS Pilani, from 10th – 12th November 2011.

Convener, National Conference on Communication Technology (NCCT 2011) organized by Dwarkadas J. Sanghvi College of Engineering during October 2011.

Organising Secretary, International Conference on Technology Systems and Management (ICTSM) organized by Dwarkadas J. Sanghvi College of Engineering jointly with MPSTME of NMIMS (Deemed to be university) during February 2011.

Vice Chairman, Asia Pacific Regional Conference in ICTM – 2010 organized by Dwarkadas J. Sanghvi College of Engineering jointly with MPSTME of NMIMS (Deemed to be university) during March 2010.

Session Chairman (Manufacturing/Automobile/Others): National Conference on Recent Trends in Mechanical engineering (NCRTME-2010) organised by Datta Meghe College of Engineering, Airoli, Mumbai (August 2010).

Session Chairman National Conference on Advances in Mechanical Engineering (NCAME09), organized by the Mechanical Engineering department of MCT's Rajiv Gandhi Institute of Technology of Technology, Mumbai in Association with Bhabha Atomic Research Centre, Mumbai during 15-16th January 2009.

Organizing Committee member: National Conferences on Information and Communication Technology (NCICT) organized by Dwarkadas J Sanghvi College of Engineering during the years 2007, 2008 and 2009 as well as "Faculty Development Program" and "Seminar on Engineering Education: Challenges and Perspectives" approved by Indian Society for Technical Education at DJSCE from the 2nd to 6th January,2007.

Coordinator: Short Term Training Program on "Computer Aided Solutions for Engineering Applications" recognized and approved by the Indian Society for Technical Education, New Delhi at DJSCE from 11th Dec' 2006 to 22nd Dec 2006.

**Awards
Received:**

- 1) Received the "Distinguished Principal" award from the CSI (Computer Society of India) during the "TechNext India 2017", Symbiosis of Academicians and IT Industry, held at the Victor Menezes Convention Centre (VMCC) of IIT Bombay on 15/01/2017.
- 2) Received the "Social Action Award" from Indian Development foundation, a National Level NGO during the year 2015-16.
- 3) Received the Best Research Paper Award during the International Conference on Mechanical and Production Engineering (ICMPE) at Pune on 07th of August 2016.

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