

Dr. BHUPENDER SINGH

Assistant Professor in Mechanical Engg. Department at YMCA University of Science and Technology, Faridabad, Haryana, India, Since 2011

Qualifications

:Ph. D. (*Benchmarking Process*)
(YMCA UST, Faridabad-2017)
M. Tech(*Manufacturing & Automation*)
(YMCA UST, Faridabad-2009)
B.E. (*Mechanical Engineering*)
(R.G.P.V, Bhopal-2005)
Diploma (*Automobile Engineering*)
(MPBTE,Bhopal-2002)



Designation

:Assistant Professor (Mechanical)

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**Research: TOTAL PUBLICATIONS(76)
Papers**

International Journal(42)

1. Bhupender Singh, Sandeep Grover and Vikram Singh, An Empirical Study of Benchmarking Evaluation using MCDM in Service Industries, Managerial Auditing Journal, **Emerald Group Publisher**, Vol. 32, No. 2, 2017, pp.11 – 147, ISSN 0268-6902.
2. Bhupender Singh, Application of MOORA method for Benchmarking decision in the Industries, In Press, International Journal of Advanced Operations Management, **Inderscience Publishers**, In Press, ISSN 1758-9398.
3. Bhupender Singh, Sandeep Grover and Vikram Singh, A benchmarking model for Indian service industries using MICMAC and WISM approach, International Journal of System Assurance Engineering and Management, **Springer Publisher**, In press, ISSN 0975-6809.
4. Bhupender Singh, Sandeep Grover and Vikram Singh, Evaluation of benchmarking attribute for service quality using multi attitude decision making approach, International Journal of System Assurance Engineering and Management, **Springer Publisher**, In Press. ISSN 0975-6809.
5. Bhupender Singh, Rajesh Attri and SunlMehra, Analysis of interaction among the barriers to 5S implementation using interpretive structural modeling approach, Benchmarking: an International Journal, **Emerald Group Publisher**, In Press.
6. Bhupender Singh, Sandeep Grover and Vikram Singh, Weighted ISM approach to Interface amongst the Barriers of Benchmarking in Indian Service Industries, International Journal of Advanced Operations Management, **Inderscience Publishers**, Vol.7, No.4, pp.317-340, ISSN 1758-9398
7. Bhupender Singh, Sandeep Grover and Vikram Singh, A Novel Hybrid model for selection of Benchmarking technique in Indian Service Industries, International Journal of Process Management and Benchmarking, **Inderscience Publishers**, Vol. 7, No. 4, 2017, pp.409-436, ISSN 1741-816X.
8. Bhupender Singh, Sandeep Grover and Vikram Singh, Integrated MCDM for Benchmarking techniques in Indian Service Industries, International Journal of Innovation and Technology Management, **World Scientific Publisher**, Vol. 13, No. 06, pp.1750005-18.
9. Bhupender Singh, Sandeep Grover and Vikram Singh, A Benchmark model for Internal assessment of Industry using Fuzzy Topsis Approach, International Journal of Recent advances in Mechanical Engineering (IJMECH) Vol.4, No.1, 2015, 93-105.
10. Bhupender Singh, Sandeep Grover and Vikram Singh, Application of Benchmarking model in Manufacturing Industries, International Journal of Hybrid Information Technology, SERSC Publishers, Vol.8, No.12, 2015, pp. 241-252.
11. Bhupender Singh, Sandeep Grover and Vikram Singh, Factors Analysis for Benchmarking Implementation in Service Industries: Evidence from Indian Context, Journal of Advance Research Production and Industrial Engg., ADR Publications, Vol-2, No.3&4, 2015, pp.6-10. ISSN: 2456-429X.
12. Bhupender Singh, Sandeep Grover, Vikram Singh and Rajesh Attri, An

Analytic Hierarchy Process for benchmarking of automobile car service industry in Indian context, Management Science Letters, Growing Science Publishers, Vol.5 No.6, (2015) 543–554.

13. Bhupender Singh, Rajesh Attri and Sunil Mehra, Identification of barriers affecting Implementation of 5s, International Journal of Advance Research In Science And Engineering ,(IJARSE), Vol.4, Special Issue (01), 2015, 619-624, ICDAVIM-15, ISSN-2319-8354(E), Impact factor 1.43.

14. Bhupender Singh, Rajesh Attri, Nikhil Dev and Vikas Kumar, Identification of factors for Implementation of ISO 9000, International Journal of Advanced Technology in Engineering and Science , Vol. 03, Special Issue No. 01, April 2015, 491-497, Impact factor 1.012.

15. Bhupender Singh and Bhoop Singh, Optimization of Facility Layout Problem of an Automotive Company using Simulated Annealing: A Case Study”, International Journal of Engineering Research & Technology, Proceedings of NCETEMS-2015, pp.347-354.

16. Bhupender Singh, Nikhil Dev and Surender Singh, Changes in Bead Geometry & Shape of M.S. Specimen with GMAW Process, 2011, International Journal of Applied Engineering Research, Vol- 6, No.21, 2501-2505, ISSN 0973-4562.

17. Mukesh Gupta, Raj Kumar and Bhupender Singh, Exergy based evaluation of thermal power plants review, International journal of Emerging Technology and Advanced Engineering, Vol- 3(2), 2013, Special No.2, 66-68.

18. Bhupender Singh, Sunil Mehra and Vikram Singh A Review of Benchmarking in Service Industries, International Journal of Advanced Technology in Engineering and Science (IJATES), April 2015, Volume 3 , Spl. No. 1, pp.464- 470. Impact factor 1.012.

19. Nikhil Dev, Bhupender Singh, Mohit, Satyapal and Pardeep Kumar, Manufacturing and Study of a MARUTI 800 Gear Box, International Journal of Applied Engineering Research, Vol-6, No.24, 2011, pp. 2731-2735, ISSN 0973-4562.

20. Bhupender Singh and Bharat Bhushan, Improvement in life of RF drill by applying different Machine Tools Process, International Journal of Research in Engineering, IT and Social Sciences, Vol-1, No.2, 2011, 34-42, ISSN: 2250-0588, Impact factor, 0.204.

21. Bhupender Singh, Sandeep Grover, Vikram Singh and Puneet Chaudhary, Identification & Analysis of Gaps in Service Sector Using ISM Approach, International Journal of Engineering Technology, Management and Applied Sciences, Vol.3, No.5, 205-209. Impact factor 2.24.

22. Bhupender Singh, Lokesh Suryavanshi and Surender Singh, A Review on the Influence of Electrical Process Parameters of Electrical Discharge Machining (EDM) on Surface Roughness and Material Removal Rate, Journal of Advance Research Production and Industrial Engg., ADR Publications, Vol-3, No.1, 2016, pp.1-10.

23. Bhupender Singh, Sanjay Kumar and Shrawan Kaushik, An Experimental Investigation of Cutting Performance for Vibration Assisted Work piece in WEDM Using Taguchi Method, Shiv Rudraksha International Journal of Advanced Research in Engineering & Management, Vol. 01, No.05, 2016, pp. 64-77.

24. Bhupender Singh, Sanjay Kumar and Shrawan Kaushik, An Experimental Investigation of Surface Roughness for Vibration Assisted Workpiece in WEDM Using Taguchi Method, International Journal of Engineering Research Online (IJOER), Vol.4, No 3, 2016, 205-218.

25. Bhupender Singh, Bhaskar Nagar, B.S. Kadam and Anuj Kumar Modeling and Finite Element Analysis of Crane Boom. International Journal of Advanced Engineering Research and Studies, Vol. 1, No.1, 2011, pp. 51-54, E-ISSN 2249 – 8974.
26. Bhupender Singh, Arvind Gupta and Abhishek Chauhan, Value Stream Mapping for Consumer Durables Manufacturer (A Case Study), Journal of Recent Activities in Production, MAT Journal, Volume 1, Issue 2, 2016, 1-11.
27. Bhupender Singh, Arvind Gupta and Abhishek Chauhan, Application of Graph Theoretic Approach in Performance Analysis of Refrigerants. Journal of Advanced Research in Mechanical Engineering and Technology, ADR publication. Vol.3, No.1/2, 2016, pp.9-23, ISSN: 2454-8650.
28. Bhupender Singh, Arvind Gupta and Kanwarpal, CFD Modeling for Silica sand slurry in horizontal pipeline system, International Journal of YMCAUST, Vol.3, No.2, 2015, pp. 24-26.
29. Bhupender Singh, Kanchan and Aditi Sharma, Improvement of an Organization by using Better Quality System, International Journal of YMCAUST, Vol. – 4, No.1, 2016, pp.51-54.
30. Bhupender Singh, Surender Singh and Lokesh Kumar, Electric Discharge Machining and Its Parameters: A Review, Journal of Advanced Research in Production and Industrial Engineering, ADR Publications, 2016, Vol. 3, No.2, pp. 61-75, ISSN: 2456-429X.
31. Bhupender Singh, Surender Singh and Lokesh Kumar, Advanced Research Trends In Electrical Discharge Machining: A Review, International Journal for Research & Development in Technology, Vol 5, No. 7, 2016, pp.196-202.
32. Bhupender Singh and Anil Kumar, Role of Customer Satisfaction in Automobile Service Sector, International Journal of Engineering Technology, Management and Applied Sciences, Vol. 4, No. 10, 2016, pp. 131-135. ISSN 2349-4476.
33. Bhupender Singh and Mahesh Chand, Quality Identified of a Manufacturing Organization From Supply Chain Perspectives: A Case Study. International Journal of Research In Social Science, Vol-2, No.1, 2012, pp. 289-301, ISSN: 2249-2496, Impact factor, 5.650.
34. Bhupender Singh, Sandeep Grover and Vikram Singh, An overview of Benchmarking process: The Continuous Improvement Tool, International Journal of YMCAUST, Vol 1(ii), 2013.
35. Bhupender Singh, O P Mishra and Surender Singh, Process Improvement of An Organization Enhancing Better Quality System -Applying TQM, International Journals of Multidisciplinary Research Academy, Vol.1, No.7, 2011, pp. 277-28, ISSN: 2249-1058, Impact factor, 5.299.
36. Bhupender Singh, Arvind Gupta and Vijay Yadav, Effect of Process Parameters of WEDM on Surface Roughness and Material Removal Rate For Alloy Material (Al6101-T6) Using Taguchi Method, International Educational and Research Journal, Vol.3, No.5, May 2017, pp. 477-478, E-ISSN: 2454-9916.
37. Anil Kumar and Bhupender Singh, Study on performance measurement of

the indian automobile service sector, International Educational and Research Journal, Vol.3,No.5, May 2017,pp. 479-480, ISSN No. 2454-9916.

38. SwapnilChauhan and Bhupender Singh,Barriers in implementing effective reverse logistics in Indian automobile sector,International Educational and Research Journal,Vol.3, No. 6,June 2017, pp.296-297, E-ISSN No : 2454-9916.

39. VivekYadav, Surender Singh, Bhupender Singh, Effect of electrical process parameters of Electric Discharge Machine (EDM) on surface roughness and material removal rate for En 8 alloy steel, International Educational and Research Journal, Vol. 3,No. 6, June 2017, pp.146-148, E-ISSN No : 2454-9916.

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41. Bhupender Singh, Sanjay Kumar andShrawan Kumar, Electric Discharge Machining and Its Parameters: A Review,Journal of Advanced Research in Production and Industrial Engineering, ADR Publications. Vol.3, No.2, 2016, pp. 61-75, ISSN: 2456-429X.

42. BhupenderSingh,Sandeep Grover and Vikram Singh, An assessment model for Benchmarking techniques in manufacturing sector, Journal of Advance Research Production and Industrial Engg.,Vol-2,No.2,2015, pp.3-11, ISSN: 2456-429X.

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1. BhupenderSingh,Sandeep Grover and Vikram Singh, Application of Different Techniques used in Service Industries, AIMS,IIM Kozhikode,2-5 Jan.2015

2. BhupenderSingh,Sandeep Grover and Vikram Singh, Intensity of Critical Factors for Implementing Benchmarking Technique– An ANP Approach, ISTE Delhi Convention at Delhi Technological University, 5-6 sept.2013.

3. Bhupender Singh and SandeepGrover,Pre TQM Assessment of an Organization Readiness to TQM a case study ,Advances in Mechanical Engineering, S.V. National Institute of Technology, Surat, India ,Jan 4-6, 2010.

4. Bhupender Singh, Arpit Kumar, OmbirYadav and Kuldeep Kumar, A Cooperative Learning based model for Engg. Students in College, Education Informatics at Chitkara,Rajpura Punjab 22-23 May 2010.

5.DharampalYadav, HaripalDhariwal and Bhupender Singh, Quality Check for Technical Institutions using QIM (A QFD Approach)Education Informatics at Chitkara,Rajpura Punjab 22-23 May 2010.

6. Bhupender Singh, Sandeep Grover and Vikram Singh, Effectiveness of success factors for implementation of Benchmarking technique. in CETCME - 2015 at NIET Noida, 21-22 march 2015.

7. Bhupender Singh, Sunil Kumar and Vikram Singh, Identification of gaps between different service industries: a review, in CETCME -2015 at NIET Noida, 21-22 march 2015.

8. Bhupender Singh, Sandeep Grover and Vikram Singh, Identification of gaps among manufacturing and service industries, 2nd International Conference and Exhibition on Industrial Engineering Dubai, UAE, 16-18 Nov. 2015.

9. Bhupender Singh, Sandeep Grover and Vikram Singh, A Benchmarking model for Indian Service Industries, International Conference on CAR & FOF at College Engg. & Mgmt, Kolaghat, Kolkata, 6-8 Jan. 2016.

10. Bhupender Singh and Swapnil Chauhan, "Review on concept of Reverse Supply Chain in Industries", International Conference on Sustainable Development through Research in Engg. and Management at YMCA university of science and technology, Faridabad, 26th - 27th December 2016.

11. Bhupender Singh and Swapnil Chauhan, "Identification of Barriers in Reverse Logistics for Indian Industries," International Conference on Sustainable Development through Research in Engg. and Management at YMCA university of science and technology, Faridabad, 26th - 27th December 2016.

12. Bhupender Singh and Anil Kumar, "Study on performance measurement for Indian Automobile Service Sector", International Conference on Sustainable Development through Research in Engg. and Management at YMCA university of science and technology, Faridabad, 26th - 27th December 2016.

13. Vaishali Khola, Bhupender Singh and Sanjeev Kumar, "Development of Defrosting model for simple air conditioner," International Conference on Sustainable Development through Research in Engg. and Management at YMCA university of science and technology, Faridabad, 26th - 27th December 2016.

NATIONAL CONFERENCES (21)

1. Bhupender Singh, Sandeep Grover and Vikram Singh, A systematic Review on Benchmarking, YMCAUST, Faridabad, TAME 2012

2. Bhupender Singh, Ajit Singh and Sanjeev Kumar, A Review Paper on Application of Benchmarking Technique in Industry, AKGEC, Gaziabad, 2014

3. Bhupender Singh and Sandeep Grover, Total Quality Management: Application in Educational Institute Emerging Trends in Mechanical, Ideal Institute of Engg. Ghaziabad, 2011
4. Bhupender Singh and Bhoop Singh, A Study on Facility layout problem and Simulated Annealing :A Meta heuristic approach to facility layout problem, AKGEC, Gaziabad, 2014
5. Pardeep Yadav, Pawan Kumar and Bhupender Singh, Study of Flow & Heat Transfer In Plate Fin Heat Exchanger at Varying Reynold's No, YMCAUST, Faridabad, Tame 2012
6. Madan Gopal, Naresh Yadav and Bhupender Singh, Sensitive analysis of EDM Process using Diagraph Method, YMCAUST, Faridabad, Tame 2012
7. Hari Pal Dhariwal, Barun Kumar Roy, Bhupender Yadav, Predicting Wind Turbine Design Parameter Using Actuator Disk Theory as Roatational Basis, YMCAUST , Faridabad, Tame 2012
8. Nikhil Dev Arvind Gupta, Bhupender Singh Rajesh Attri, Thermodynamics and the Design, Analysis and Improvement of 30 MW CHP System, Competitive Manufacturing: Strategies & Decision Support Systems , GLA university Mathura, pp.298-311, 5-6 Nov.2011.
9. Bhupender Singh, Sandeep Grover and Vikram Singh, Ranking of Benchmarking Technique by using MADM Approach. PEC University, October 2014.
10. Bhupender Singh, Surender Singh and Lokesh Kumar, Study of Effects of Process Parameters of Electrical Discharge Machining (EDM), National Conference on Role of Science and Technology Towards 'Make in India' (RSTTMI 2016), YMCA University of Science and Technology, Faridabad MARCH 5-7, 2016
11. Bhupender Singh, Arvind Gupta and Abhishek Chauhan, Selection of a Refrigerant by Graph Theoretic Approach, National Conference on Role of Science and Technology Towards 'Make in India' (RSTTMI 2016), YMCA University of Science and Technology, Faridabad MARCH 5-7, 2016
12. Bhupender Singh, Manjeet Singh and Jitender Yadav, Application of Klann's Mechanism for Mechanical Spider System, National Conference on Role of Science and Technology Towards 'Make in India' (RSTTMI 2016), YMCA University of Science and Technology, Faridabad MARCH 5-7, 2016
13. Bhupender Singh, Manish Nain, Chander Shekhar and Kuldeep, Mechanical Spider System, National Conference on Role of Science and Technology Towards 'Make in India' (RSTTMI 2016), YMCA University of Science and Technology, Faridabad MARCH 5-7, 2016
14. Bhupender Singh, Kaamran Sheikh and Sanjeev Goyal, Fabrication of Roll Cage and Suspension of ATV National Conference on Role of Science and Technology Towards 'Make in India' (RSTTMI 2016), YMCA University

of Science and Technology, Faridabad MARCH 5-7, 2016

15. Bhupender Singh, Rajesh Attri, Pramod Kumar and Sanjeev Goyal, Skill Development for Make in India, National Conference on Role of Science and Technology Towards 'Make in India' (RSTTMI 2016), YMCA University of Science and Technology, Faridabad MARCH 5-7, 2016

16. Bhupender Singh, Rajesh Attri, Sanjay Kumar and Tilak Gaur, Prevailing Challenges In Present Teacher Education, National Conference on Role of Science and Technology Towards 'Make in India' (RSTTMI 2016), YMCA University of Science and Technology, Faridabad MARCH 5-7, 2016.

17. Application of Rollage and Suspension in Fabrication of ATV, National Conference on Innovative Concepts in Mechanical Engineering -2016, at AKGEC Ghaziabad, India, 29-30 April 2016.

18. Bhupender Singh, Arvind Gupta and Abhishek Chauhan, Enhancement of Productivity –A Value Stream Mapping Case Study, National Conference on Innovative Concepts in Mechanical Engineering -2016, at AKGEC Ghaziabad, India, 29-30 April 2016.

19. Satyaprakash and Bhupender Singh, An Approach to Increase the Efficiency of Internal Combustion Engine, National Conference on Trends and Advances in Mechanical Engineering (TAME-2017) YMCA University Science Technology, Faridabad, March 16-17, 2017, pp.103-105, ISBN 978-93-5268-269-0.

20. Anil Kumar, Bhupender Singh and Rajesh Attri, Review On Performance Measurement For Automobile Service Sector, National Conference on Trends and Advances in Mechanical Engineering (TAME-2017) YMCA University Science Technology, Faridabad, March 16-17, 2017, pp.276-279, ISBN 978-93-5268-269-0.

21. Swapnil Chauhan and Bhupender Singh, A Literature Review On Reverse Supply Chain, National Conference on Trends and Advances in Mechanical Engineering (TAME-2017) YMCA University Science Technology, Faridabad, March 16-17, 2017, pp.370-376, ISBN 978-93-5268-269-0.

Masters Project Supervision:

M. Tech. Supervision (14)

1. Bhoop Singh, A Study on Facility layout problem and Simulated Annealing :A Meta heuristic approach to facility layout problem, Major Thesis, May 2014, YMCA UST

2. Ajit Singh, Application of Benchmarking Technique in Industry, Major Thesis, May 2014, YMCA UST

3. Naveen Yadav, Development of An Organization by Enhancing Supply Chain Management-A Case Study, Major Thesis, May 2013, YMCA UST

4. Kuldeep Singh, A Case Study of an Organization for the assessment of internal quality Using TOPSIS Approach, Co-Guide in Major Thesis July 2013. MRKIET, MDU, Rohtak

5. Sunil Mehra, Interpretive Structure Modelling of the barriers to 5s implementation in Indian Manufacturing Organizations, Major Thesis, May 2015, YMCAUST
6. Puneet Chaudhary, Identification & Analysis of Gaps in service sector using ISM approach, May 2015, YMCAUST
7. Vikas, An Integrated ISM –MICMAC approach for analysis of the factors in ISO 9000 implementation in Indian Organizations, May 2015, YMCAUST
8. Abhishek, Value Stream Mapping for Consumer Durables Manufacturer – A Case Study, May 2016, YMCAUST
9. Lokesh Suryavanshi, Effect of Process Parameters of Electrical Discharge Machining (EDM) on Surface Roughness & Material Removal Rate for Alloy Material (AL6101-T6)
10. Shrawan Kaushik, Parametric Study of low frequency vibrations assisted EDM Using Taguchi Method, May 2016, YMCAUST
11. Swapnil Chauhan, Disposition decisions in reverse logistics for Indian Automobile sector: Graph theory and matrix approach, May 2017, YMCAUST
12. Anil Kumar, Study on Performance Measurement of the Indian Automobile Service Sector, May 2017, YMCAUST
13. Vijay Yadav, Effect of Process Parameters of WEDM on Surface Roughness & Material Removal Rate for Alloy Material (AL6101-T6) using Taguchi Method, May 2017, YMCAUST
14. Vivek Yadav, Effect of Electrical Process Parameters of Electrical Discharge Machining (EDM) on Surface Roughness and Material Removal Rate for EN 8 Alloy Steel, May 2017, YMCAUST

Under Graduate (B.Tech) Project Supervision: *Numerous*

Memberships

: Member of IAENG International Association of Engineers.
Member of IAENG Society of Industrial Engineering
Member of IAENG Society of Operations Research
Member of AIMS International -2015
Member of Editorial Board, Canadian Journal of Basic and Applied Sciences
Member of Editorial Board, Journal of Mechanical and Mechanics Engineering
Member of Editorial Board, International Journal for Research in Mechanical Engineering and its Applications
Life Member of Indian Institution of Industrial Engineering, (IIIE) LM-10784(99)
Life Member of Indian Society of Technical Education, (ISTE) LM-108065
Member of Indian Green Building Counseling (IGBC)
Member of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) for INDIA Chapter

Duties and Responsibilities:

Member of Equal Opportunity Cell at University level
Faculty Coordinator of Mechanical Engineering Department for Indian Green Building Chapter (IGBC)
Faculty Coordinator of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
Paper setter, Evaluator and External Examiner in various Examinations
Organizing member of various Conferences and Workshops at University level
Class Test (Sessional Coordinator) at Department level
Member of NAAC Core Team committee also for NBA and 12 B visit for university
Members of various Committees like Admission, Anti-Ragging, Discipline, Inspection Committees, Staff Selection and other duties assigned by University