

Malaviya National Institute of Technology, Jaipur

Dr. Rakesh Jain

Designation :Professor

Qualifications :Ph.D.(Operations Management) from Liverpool John Moores University, Liverpool, UK
M.E.(Industrial Engg.) from National Institute of Industrial Engineering
B.E.(Mechanical Engineering) from University of Rajasthan

Contact Detail :Dept. of Mechanical Engineering,MNIT Jaipur, Jaipur-302017

Email :rjain.mnit@gmail.com

Phone No. :0141-2713332



Research Interests

Supply Chain Management, Lean manufacturing, New Product Development , Strategic Management, Total Quality Management.

Journal Publication Details:

Manmohan Siddh, Gunjan Soni, Rakesh Jain, Milind kumar Sharma, Vinod Yadav , "Agri-fresh Food Supply Chain Quality: A literature Review" , Industrial Management and Data Systems Volume :117 / 2015 / 2017
Avinash Panwar, Bimal Nepal, Rakesh Jain, A.P.S Rathore, Andrew Lyons , "Understanding the Linkages between Lean Practices and Performance Improvements in Indian Process Industries" , Industrial Management and Data Systems Volume :117 / 346 / 2017
A. Panwar, B. P. Nepal, R. Jain, A. P. S. Rathore , "On the adoption of lean manufacturing principles in process industries" , Production Planning & Control Volume :26 / 564-587 / 2015
Avinash Panwar, Rakesh Jain, APS Rathore , "Lean implementation in Indian process industries – some empirical evidence" , Journal of Manufacturing Technology Management Volume :26 / 131-160 / 2015
Avinash Panwar, Rakesh Jain, A.P.S Rathore , "A Survey On the Adoption Of Lean Practices in the process Sector of India with a Comparison between Continuous And Batch Process Industries " , Journal of Manufacturing Technology Management Volume :29 / 381 / 2015
• Rathod, V., Yadav, O.P., Rathore, A., Jain, R , "Optimizing reliability-based robust design model using multi-objective genetic algorithm" , computer and industrial engineering Volume :66 / 301-310 / 2013
O. Panwar, A., Nepal, B., Jain, R., Yadav P , "Implementation of benchmarking concepts in Indian automobile industry–an empirical study" , Benchmarking: An International Journal Volume :20 / 777-804 / 2013
• Rathod, V., Yadav, O.P., Rathore, A. and Jain, R , "Reliability-based design optimization considering probabilistic degradation behavior" , Quality and Reliability Engineering International Volume :1 / 911-923 / 2012
• Badole, C.M., Jain, R., Rathore, A.P.S., Nepal, B , "Research and Opportunities in Supply Chain Modeling" , International Journal Supply Chain Management Volume :1 / 63-86 / 2012
Augustine, M., Yadav, O. P., Jain, R., Rathore, A , "Cognitive map based system modeling for identifying interaction failure modes" , International journal of Research in Engineering design Volume :23 / 105-124 / 2012
• Panwar, A., Yadav, O.P., Jain, R. and Rathore, A.P.S , "Implementation of benchmarking concepts in Indian automobile industry- an empirical study" , Benchmarking: An International Journal Volume :20 / 777-804 / 2011
• Rajurkar, S.W. and Jain, R , "Food supply chain management: an overview and classification framework" , International Journal of Integrated Supply Management Volume :1 / 33-72 / 2011
Rathod, V., Yadav, O.P., Rathore, A. and Jain, R. , "Reliability-based design optimization considering probabilistic degradation behavior" , Quality and Reliability Engineering International Volume :28 / 671-791 / 2011

Lyons, AC. Vidamour, K. , Jain, R. , Suthuland, M. ,"developing an understanding of lean thinking in process industries" , Production planning and control Volume :22 / 1-20 / 2011
• Lyons, AC. Vidamour, K., Jain, R. , Suthuland, M ,"Developing an understanding of lean thinking in process industries" , Production planning and control Vol Volume :24 / 475-494 / 2011
Rajurkar, S. and Jain, R. ."Development of an integrated modeling framework for retailers of perishable products: A dynamic programming approach" , International Journal of Operational Research Volume :11 / 262-289 / 2011
Rathod, V., Yadav, O. P., Jain, R., Rathore, A. ,"Probabilistic modelling of fatigue demand accumulation of reliability prediction" , " International Journal of Quality Statistic and Reliability Volume :2011 / 10 / 2011
Krishna, A. Dangayach and Jain, R. ,"" , Volume : / 1-10 / 2011
Krishna, A. Dangayach and Jain, R. ,"A Conceptual frame work forth Service Recovery Paradox" , The Marketing Review Volume :1 / 41-56 / 2011
Rajurkar, S.W. and Jain, R. ,"Food supply chain management: an overview and classification framework" , International Journal of Integrated Supply Management Volume :6 / 33-72 / 2011
• Krishna, A., Dangayach and Jain, R ,"Service Recovery Literature review and research issues" , " Journal and Service Research Volume :3 / 71-121 / 2011
• Rajurkar, S.W. and Jain, R ,"Development of an integrated modelling framework for retailers of perishable products: A dynamic programming approach" , International Journal of Operational Research Volume :11 / 262-289 / 2011
Krishna, A., Dangayach and Jain, R. ,"Service Recovery Literature review and research issues" , Journal of Service Science Research Volume :3 / 71-121 / 2011
Augustine, M., Yadav, O. P., Jain, R., Rathore, A. ,"Cognitive map based system modeling for identifying interaction failure modes" , International journal of Research in Engineering design Volume :23 / 105-124 / 2011
Yadav, O.P., Nepal, B., Goel, P.S., Jain, R., Mohanty, R.P. ."Insights and learnings from lean manufacturing implementation practices" , International Journal of Services and Operations Management Volume :6 / 398-422 / 2010
• Augustine, M., Yadav, O.P., Jain, R., Rathore, A ,"Concept convergence process: A framework for improving product concepts" , International journal of Computers & Industrial Engineering Volume :59 / 369-377 / 2010
Augustine, M., Yadav, O.P., Jain, R., Rathore, A. ,"Concept convergence process: A framework for improving product concepts" , International journal of Computers & Industrial Engineering Volume :59 / 367-377 / 2010
Jain, R., Augustine, M. ,"A Fuzzy-Based Framework for Prioritizing Benchmarks in the Service Sector" , productivity and Quality Management Volume :5 / 452-472 / 2010
Jain, R. and Lyons, A.C. ,"Implementation of lean manufacturing in select UK food & drink industries" , International Journal of services and Operations Management Volume :5 / 548-573 / 2009
Jain, R. and Lyons, A.C. ,"Implementation of lean manufacturing in select UK food & drink industries" , International Journal of services and Operations Management Volume :5 / 548-573 / 2009
Jain, R., Yadav, O.P., Rathore A. P. S ," The propagation of benchmarking concepts in Indian manufacturing industry" , Benchmarking: An International Journal Volume :15 / 101-117 / 2008
Yadav, O.P., Jain, R., and Bimal, N. ,"Managing product development process complexity and challenges: a state-of-the-art review" , Journal of Design Research Volume :6 / 487-508 / 2007
Yadav, O.P., Jain, R., and Bimal, N. ,"Managing product development process complexity and challenges: a state-of-the-art review" , Journal of Design Research Volume :6 / 487-508 / 2007
Jain, R., and Yadav, O.P. ,"Driving improvement opportunities in the food processing industries through benchmarking" , International Journal of Process Management and Benchmarking Volume :1 / 352-369 / 2006

<p>Mohanty, R.P., Yadav, O.P., and Jain, R. ,"Implementation of lean manufacturing principles in auto industry: A comprehensive study " , XIMB Journal of Management Volume :3 / 1-32 / 2006</p>
<p>Jain, R., and Yadav, O.P. ," Driving improvement opportunities in the food processing industries through benchmarking" , International Journal of Process Management and Benchmarking Volume :1 / 352-369 / 2006</p>
<p>Stevenson, L., and Jain, R. ,"Lean Manufacturing in the Food Industry" , Food Science and Technology Volume :19 / 32-34 / 2005</p>
<p>Stevenson, L., and Jain, R. ,"Lean Manufacturing in the Food Industry" , Food Science and Technology Volume :19 / 32-34 / 2005</p>
<p>Jain, R., Khandelwal, D., and Rathore, A.P.S. ,"Quality Cost System in a Cement Plant" , Indian Journal of Quality Management Volume :2 / 3-8 / 2003</p>
<p>Rathore, A.P.S. and Jain R. ,"Quality & Productivity linkage: A Case Study" , Indian Journal of Quality Management Volume :2 / 31-33 / 2002</p>
<p>Jain, R., Meena, B., Mittal M.L. ,"ISO 9000 in Indian Industries: An Empirical Study" , Indian Journal of Quality Management Volume :2 / 33-35 / 2002</p>

☐ Conference Publication Details:

<p>Vinod yadav, Rakesh jain ,"Lean Manufacturing Within Indian SMEs" International Conference on Emerging Trend in Mechanical Engineering by Industrial Engineering at Hyderabad // 2016</p>
<p>Umardaraj, Rakesh jain ,"Constructive Cognitive Network for Failure Analysis of Multi Component System" International Conference on Emerging Trend in Mechanical Engineering by Industrial Engineering at Hyderabad // 2016</p>
<p>Man Mohan Siddh, Gunjan Soni and Rakesh Jain ,"Quality Management Issue in Agri-Fresh Food Supply Chain Environment: A Review" 3rd International Conference on Industrial Engineering by Industrial Engineering at SVNIT Surat // 2015</p>
<p>Man Mohan Siddh, Gaurav Gaddekar, Om ji shukla, Gunjan Soni and Rakesh Jain ,"Assessment of Retailers Quality in Dairy Supply Chain Using AHP Technique" International Conference on Industrial Engineering Science and Application by Industrial Engineering at NIT Durgapur // 2014</p>
<p>Ankur Pareek, Rakesh Jain, A.P.S. Rathore ,"Exploring Linkages Between New Product Development and Supply Chain Management in Indian Automotive Supply Chain" 3rd International Conference on Supply Chain Management on Best Practices in Supply Chain Management (BPSCM-2014) by IIIE at Udaipur // 2014</p>
<p>Man Mohan Siddh, Gaurav Gaddekar, Gunjan Soni and Rakesh Jain ,"Integrating Lean Six Sigma and Supply Chain Approach for Quality and Business Performance" 2nd International Conference on Business and Information Management by IIIE at NIT Durgapur // 2014</p>
<p>Man Mohan Siddh, Gunjan Soni, Rakesh Jain ,"Agri-Fresh Food Supply Chain Quality (AFSCQ): A Structured Review" 3rd International Conference on Supply Chain Management on Best Practices in Supply Chain Management (BPSCM-2014) by IIIE at Udaipur // 2014</p>
<p>Ayush Mathur, Rakesh Jain ,"Optimization of Container Yard Operations in an Indian Automotive Industry: A Case Study" 3rd International Conference on Supply Chain Management on Best Practices in Supply Chain Management (BPSCM-2014) by IIIE at Udaipur // 2014</p>
<p>R. Jain, A. Panwar, A. P. S. Rathore ,"Adoption of Lean Manufacturing Concepts in Process Sector- Case Studies From Indian Process Industries" 3rd International Conference on Supply Chain Management on Best Practices in Supply Chain Management (BPSCM-2014) by IIIE at Udaipur // 2014</p>
<p>Dr Rakesh Jain ,"Lean Manufacturing in the Process Industry" 56 Th National Convention of IIIE by IIIE at Visakhapatnam / 120-23 / 2014</p>
<p>Man Mohan Siddh, Gaurav Gaddekar, Gunjan Soni, Rakesh jain ,"Parameters of Quality in Indian Cold Chain: A Review and Case Study " 55th International Conference on Management Supply Chain for Global Competitiveness by Industrial Engineering at NIT Nagpur // 2013</p>
<p>chandrakumar badole, APS rathore, Rakesh Jain, Ritu Agarwal, Bimal Nepal ,"RFID and Perishable Product Supply Chain With Shortages " International Conference on Recent Trends in Engineering Science by Industrial Engineering at Nashik, Maharashtra // 2013</p>
<p>Manmohan Siddh, Gaurav Gaddekar, Gunjan Soni, Rakesh Jain ,"Investigating the Issues in Perishable Food Supply Chain: A Case Study" 2nd International Conference on Industrial Engineering by Industrial Engineering at SVNIT, Surat // 2013</p>
<p>A. Pareek, R. Jain, A. P. S. Rathore ,"Linkages Influencing NPD-SCM Alignment - Evidence From Indian Automotive Industry" IEEE International Conference on Industrial Engineering and Engineering Management IEEM by IEEE at Bangkok, Thailand / 192 / 2013</p>

Panwar,A., Jain,R. and Rathore, A.P.S ,,"Identification of Non Value Added Activities in Process Industries in Context to Lean Manufacturing Implementation" ICIE 2013 by ICIE at SVNIT, Surat, India / 126 / 2013
A.Pareek, R.Jain, A.P.S. Rathore ,,"Evaluating NPD-SCM Alignment in Indian Automotive Industry" International Conference on Mechanical Engineering and Mechatronics by International Conference on Mechanical Engineering and Mechatronics at CANADA / 184 / 2013
Chandrakumar Badole, Bimal Nepal, APS Rathore, Rakesh Jain ,,"Supply Chain Modelling Scope and Methodology: A Review of Literature in the Last Decade" IIE Annual Conference by Proceeding Hilton Bonnet Creek at Orlando // 2012
Vijay Pratap Singh Rathore, Om Prakash Yadav, APS Rathore, Rakesh Jain ,,"An Evolutionary Optimization Approach to Reliability Based Robust Design Model " IIE Annual Conference by Proceeding Hilton Bonnet Creek at Orlando // 2012
Sanjay W. Rajurkar, Rakesh Jain ,,"Development of an Integrated Two-Tier Supply Chain Model for Perishable Products With Non Deterministic Demand " International Conference on Industrial Engineering by Industrial Engineering at SVNIT Surat // 2011
M. Augustine, O. P. Yadav, R. Jain, A. Rathore ,,"An Approach to Capture System Interaction Failures of a Complex System" Reliability and Maintainability Symposium by RAMS at Lake Buena Vista, Florida, USA / 120-123 / 2011
A. Pareek, R. Jain, A. P. S. Rathore ,,"Integrating Product Development and Supply Chain Management" International Conference on Industrial Engineering by SVNIT Surat at SVNIT, Surat / 89-63 / 2011
• Panwar,A., Jain,R. and Rathore, A.P.S ,,"Lean Initiatives in Process Industries" International Conference on Industrial Engineering Organized by SVNIT by SVINT,Surat at SVNIT, Surat / 123-127 / 2011
Vijay Rathod, Om prakash Yadav, Ajay Rathore, Rakesh Jain ,,"Reliability Based Robust Design Optimization: A Comparative Study" Industrial Engineering and Engineering Management by Industrial Engineering at Singapore // 2011
Manu Augustine, Om prakash Yadav, Rakesh Jain, Ajay Rathore ,,"Modelling Physical Systems for Faliure Analysis With Rate Cognitive Maps " IEEE International Conference by IEEE at Hong Kong, Chaina // 2011
V. P. Rathod, O. P. Yadav, A. P. S. Rathore, R. Jain ,,"Reliability Based Design Optimization by Integrating Degradation to Improve Reliability of the Product for a Given Life Target" International Conference on Frontiers in Mechanical Engineering by FIME at NIT-Surathkal / 120-124 / 2010
V. P. Rathod, O. P. Yadav, A. P. S. Rathore, R. Jain ,,"Capturing Life Cycle Issues by Incorporating Degradation Behavior in RBRDO" International Conference on Production and Industrial Engineering by CPIE at NIT, Jalandhar / 23-24 / 2010
V. P. Rathod, O. P. Yadav, A. P. S. Rathore, R. Jain ,,"Capturing Life Cycle Issues by Incorporating Degradation Behavior in Reliability Based Design Optimization" Proceedings of the Annual IIE Conference and Expo by IIE at Mexico / 23-27 / 2010
• Rajurkar,S.,and Jain, R ,,"Optimal Order Quantity Model for Retailers of Perishable Products With Non-Deterministic Demand" Operation Research Society of India , by APORS at India / 30-34 / 2009
• Rajurkar,S.,and Jain, R ,,"Role of RFID in Food Supply Chain Management" Industrial Automation, Mobile Robots and Autonomous System by Institution of Engineers at Jaipur / 120-23 / 2009
• Jain, R., and Rajurkar, S ,,"Challenges in the Food Supply Chain : A Case Study of an Indian Dairy Plant" " International Conference on Issues and Challenges in Supply Chain Management by IT-BHU at Varanasi / 12-16 / 2008
• Rajurkar,S.,and Jain, R ,,"Review of Food Supply Chain Management Research" International Conference on Supply Chain Management and Information System by Department of Production Engineering at Tiruchirappalli, Tamilnadu / 12-15 / 2008
Rakesh Jain, Shrihari Ravindra Upasani, A.P.S Rathore ,,"Lean Thinking in the Indian Food Processing Industry " XI Annual International Conference of the Society of Operation Management by Society of Operational Management at Pune / 5 / 2007
• Jain, R., and Pawar, A., and Rathore, APS ,,"Implementation of Benchmarking Concepts in SMEs- an Empirical Study of Indian Automobile Industry" XI Annual International Conference of the Society of Operations Management by Annual International Conference of the Society of Operations Management at INDIA / 36-38 / 2007

Seminar/Symposia/Workshop/Conference/STC Organized:

National Workshop on Six Sigma tools and applications at MNIT, Jaipur, India from 16-12-2013 to 20-12-2013.
--

National Workshop on Six sigma:Basics and applications at MNIT, Jaipur, India from 17-12-2012 to 21-12-2012.
National Workshop on Curriculum development workshop at MNIT, Jaipur, India from 27-10-2012 to 27-10-2012.
National Workshop on Creating Excellence in Technical Institute at MNIT Jaipur, Jaipur, India from 09-12-2008 to 10-12-2008.
National Workshop on Pedagogy at MNIT Jaipur, Jaipur, India from 06-10-2008 to 11-10-2008.
National Short Term Course on Induction Training for New Faculty members at MNIT Jaipur, Jaipur, India from 20-07-2008 to 22-07-2008.
National Short Term Course on Six Sigma Quality at MNIT Jaipur, Jaipur, India from 17-12-2007 to 21-12-2007.

Professional Affiliation:

Life member of Indian Society for Technical Education.	
Life member of Indian Institute of Industrial Engineering.	
Senior member of Indian Institute of Industrial Engineering.	

Research Supervised:

Niketa Jain on A methodology of multi-objective optimization of reliability based design Year - 2013 (Completed)
Vijay Pratap Singh Rathore on Capturing life cycle issues in an early design optimization through degradation modelling Year - 2011 (Completed)
Manu Augustine on Investigating system interaction failure behavior of a complex system at an early design stage Year - 2011 (Completed)
Chandra Kumar Badole on Development of an integrated framework of RFID based supply chain of perishable products Year - 2016 (Completed)
Avinash Panwar on Lean Manufacturing in Indian Process Industry - An Empirical Study Year - 2015 (Completed)
Ankur Pareek on Development of an Integrated Framework for Aligning New Product Development and Supply Chain Management Activities Year - 2015 (Completed)
Anupam Krishna on Service failures and recovery:Some issues and challenges Year - 2012 (Completed)
Aniruddha Wagire on Industry 4.0 in Indian Manufacturing Industry Year - 2017 (Ongoing)
Umardaraj on Modelling of multi component system at early design stage Year - 2013 (Ongoing)
Ramkaran Yadav on Lean Project Management Year - 2012 (Ongoing)
Manmohan Siddh on Quality issues in Supply Chain of perishable product Year - 2013 (Ongoing)
Vinod Yadav on Lean Initiative in Small and Medium sized Enterprises Year - 2015 (Ongoing)

Book/Chapter Publications:

"Book Chapter" Measuring Sustainability Achieved by Lean Efforts in SMEs /Development Sustainability and Happiness ISBN:978-93-86432-09-4 published by - Bloomsbury Publishing Year:2017 authors- Vinod Yadav, M.L. Mittal, Rakesh Jain
"Book Chapter" Enhancing Human Resource Quality through Quality Function Deployment/ Quality Management Practices ISBN:978-81-7446-582-5 published by - Excel Books Year:2008 authors- Rakesh Jain, Sushil Kumar, APS Rathore, Om Prakash Yadav

"Book Chapter" QFD Application in Human Resource Development/ Human Resource Management: Linkages with organizational Processes ISBN:978-81-7446-567-2 published by - Excel Books Year:2007 authors- APS Rathore, Rakesh Jain, Om Prakash Yadav
"Reference Book" Adoption Of lean Manufacturing in Process Industry ISBN:978-620-2-01905-7 published by - LAP Lambert Academic Publishing Year:2017 authors- Avinash Panwar, APS Rathore, Rakesh jain
"Reference Book" Supply Chain Modelling for Perishable Food Products ISBN:978-3-659-87717-9 published by - LAP Lambert Academic Publishing Year:2017 authors- Sanjay W. Rajurkar Rakesh Jain
"Reference Book" Adoption of Benchmarking Concepts in Indian Automotive Industries ISBN:978-3-659-67351-1 published by - LAP Lambert Academic Publishing Year:2017 authors- Rakesh Jain, Divya Singh

Research Projects:

Title	Total Outlay(In Lacs)	Duration	Funding Agency
Development of Multi-agent System for dynamic Multiproject scheduling	6.00	2010-2012	DST

Administrative Responsibilities:

"Head department of Mechanical Engineering" in Malaviya national Institute of Technology jaipur from 15-11-2011 to 30-06-2015
"Chairman" in Senate Post Graduate Board(SPGB) from 01-01-2012 to 31-03-2014
"TEQIP Coordinator" in MNIT jaipur from 27-06-2011 to 12-01-2012
"Coordinator Student technical Function" in MNIT Jaipur from 27-06-2011 to 31-05-2012
"Coordinator Planning And Coordination Cell" in MNIT Jaipur from 17-06-2010 to 31-05-2011
"Public Information Officer" in MNIT Jaipur from 27-01-2015 to 30-06-2015
"Convener Seniority of Non Teaching Staff" in MNIT Jaipur from 06-08-2015 to 11-02-2016
"Convener" in MNIT Jaipur from 24-11-2009 to 31-05-2010

Awards & Honours:

"fellowship" for promotion of Industrial Engineering given by Indian Institution of Industrial Engineering Year - 2014
"Highly Commended Paper Award" for publishing a paper entiteled Implementation of Benchmarking concepts in Indian automobile Industry given by Emerald Group Publishing Limited Year - 2014