

Name Dr. Milind Shrikant Kirkire.
**B.E(Mechanical),
M.Tech (CAD/CAM & Automation),
PhD (Mechanical Engg.)**

Date of Birth 19/11/1978

Highest Qualification **PhD**

Branch / Specialization **Mechanical Engineering**

Designation Head and Associate Professor

Department Mechanical Engineering

**Date of Joining the
Institute** 02/08/2010



Total Experience -15.5 Years

Details of papers published in International Journal/conference:

International Journals

1. Kirkire MS, Rane SB and Singh SP “Integrated SEM - FTOPSIS Framework for Modelling and Prioritization of Risk Sources in Medical Device Development Process” Accepted for publication in Benchmarking: an International Journal (**Emerald Publications**) **Scopus indexed**
2. Rane SB and Kirkire MS (2016). Analysis of barriers to medical device development in India: an interpretive structural modelling approach. International Journal Systems Assurance Engineering and Management. DOI: 10.1007/s13198-016-0497-0 (**Springer Publications**) **Scopus indexed.**
3. Kirkire MS and Rane SB (2016). Evaluation of success factors for medical device development using grey based DEMATEL approach. Journal of modelling in management. (**Emerald Publications**) **Scopus indexed.**
4. Rane SB and Kirkire MS (2015). Interpretive structural modelling of risk sources in medical device development process. International Journal of System Assurance Engineering and Management. DOI 10.1007/s13198-015-0399-6 (**Springer Publications**) **Scopus indexed.**

5. Kirkire MS, Rane SB and Jadhav JR (2015). Risk management in medical product development process using traditional FMEA and fuzzy linguistic approach: a case study. *Journal of Industrial Engineering International*. (**Springer Publications**) **Scopus indexed**.
6. Kasale BB and Kirkire MS (2016). Investigation of Effect of Joint Clearance on Vibration of Planar Mechanism. *International Journal of Modern Trends in Engineering and Research*, Vol. 3 Issue 7, pp. 139-144.
7. Kavatkar TV, Kirkire MS and Salvi HR (2016). Wear Analysis of Hip Joint Prosthesis: A Review” *International Journal for Research in Applied Science & Engineering Technology (IJRASET)* Volume 4 Issue 2, pp.114-126.
8. Abhyankar GJ, Yadav MS and Kirkire MS (2015). Investigation of Springback design process parameters and effect of unloading Elastic Modulus in V bending of Aluminium HE9. *International Journal of Modern Trends in Engineering and Research (IJMTER)* Volume 2, Issue 7, Special Issue of ICRTET’2015.
9. Kavatkar TV and Kirkire MS (2014) Experimental parametric study of corrugated wire mesh laminates using Taguchi Design of Experiments” *International Journal of Engineering Development and Research*, Vol. 2, No 2 ISSN: 2321-9939.
10. Nagle VV and Kirkire MS (2014) A mathematical model to determine sensitivity of vibration signals for localized defects and to find effective number of balls in ball bearing. *International Journal of Engineering Development and Research*, Vol. 2, No 3 ISSN:2321-9939.
11. Abhyankar GJ and Kirkire MS (2012) “Optimization of the facilities utilization and Improvement in certain parameters of manufacturing System using simulation” published in *International Journal of Design and Manufacturing Technology (IJDMT)*, Volume 2 Issue 1.(ISSN Print- 0976 6995, ISSN Online- 0976 7002).

International Conferences

1. Finite Element Analysis of Femur Prosthesis Using ASYS in Static and Dynamic Condition. 2nd Biennial International Conference on Nascent Technologies in Engineering (ICNTE 2017) (January 27-28). An IEEE Technically Co-Sponsored Conference. Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai, India.
2. Exploring barriers to medical device development from Indian manufacturers’ perspective. 3rd International conference on Industrial Engineering, S V National Institute of Technology, Surat,

Gujarat, India. (Nov. 6-28). Presented and published in proceedings of ICIE15.

3. Investigation of Springback design process parameters and effect of unloading Elastic Modulus in V bending of Aluminium HE9. 4th International Conference on Recent Trends in Engineering & Technology (ICRTET'2015) (2nd to 4th July) Organized by SNJB's Late. Sau. K. B. Jain College of Engineering, Chandwad, Dist-Nashik. Proceedings published by McGraw Hill Education.
4. "Knowledge management in supply chain: A case study" Indian Institution of Industrial Engineering Journal (22 & 23 November, 2012), International Conference - 'Best Practices in SCM', Bhubeshwar, Odisha'. Proc. of 1st Intl. Conference on "BPSCM", pp. 547-554.
5. "Knowledge based parametric approach for design of gearbox", published in the proc. of International conference on advanced manufacturing & automation 09, Kalasalingam university, Krishnankoil, Tamilnadu, India.(March 26-28).
6. "Artificial intelligence in design", published in the proc. of International conference on Advances in mechanical engg 09, S V National Institute of Technology, Surat, Gujarat, India.(August 3-5)
7. "Soft Technologies for Knowledge Management", published in the proc. of International conference (APORS 09) organized by Association of Asia Pacific operational research society, Jaipur, India.(December 6-9).
8. "Manufacturing System Simulation & Reengineering for Improved Throughput", published in the proc. of International conference on Latest trends in Simulation modeling & analysis (COSMA 09), National Institute of Technology Calicut, India.(December 17-19).
9. "Evaluation of manufacturing System by discrete event simulation", published in the proc. of International conference (APORS 09) organized by Association of Asia Pacific operational research society, Jaipur, India. (December 6-9).
10. "Discrete event simulation and re-engineering to improve performance of manufacturing system", published in the proc. of 9th global conference on flexible systems management, GLOGIFT 09 at National Institute of Industrial Engineering (NITIE), Powai, Mumbai. (November 12-14).
11. "Product design knowledge reuse", published in the proc. of International conference on

Advances in mechanical engg. 2010, S V National Institute of Technology, Surat, Gujarat, India.

12. "Exploring the dimensions of lean Supply chains in Pharmaceutical Industry: A case study" published in the proc. of International conference on Advances in Industrial engg. 2011, S V National Institute of Technology, Surat, Gujarat, India. (Nov. 17-19).

Details of papers published in National Journal/conference

National Journal:

13. "Knowledge management in supply chain: A case study" Indian Institution of Industrial Engineering Journal.

National conference:

14. "Design automation of gears", published in the proc. of National Conf. on Advances in Mech. Engg.09, RGIT, Mumbai. (January 15-16).
15. "Finite element analysis of femur prosthesis using ANSYS in static condition" in the National conference on 30/07/2015 at TKIET, Warananagar, Kolhapur.

Details of STTP, Faculty development programs, workshops, seminars attended

1. Two days workshop on "Research Methodology" at RMCET, Ambav (Devrukh) (University of Mumbai), Ratnagiri, Maharashtra, India (5-6 June, 2014).
2. Two weeks ISTE -IITB workshop on "Engineering Thermodynamics" at Remote centre Finolex Academy of management & Technology (University of Mumbai), Ratnagiri, Maharashtra, India (10-21 Dec, 2012).
3. Two weeks ISTE -IITB workshop on "Introduction to Research Methodologies" at Remote centre Finolex Academy of management & Technology (University of Mumbai), Ratnagiri, Maharashtra, India (25 June - 4 July 2012).
4. Two days workshop on "Akaash for Education" at Remote centre Finolex Academy of management & Technology (University of Mumbai), Ratnagiri, Maharashtra, India (10-11 Nov, 2012).

5. One week IUCEE training program on Advances in manufacturing Systems at SVNIT, Surat, Gujarat, India (20-24 June 2011).
6. One week AICTE sponsored STTP on Knowledge management: Issues & challenges at SVNIT, Surat, Gujarat, India (4-8 Jan,2010).
7. One day national seminar on Institution building & NBA accreditation at TKIET, Warananagar, Kolhapur, Maharashtra, India (2010).
8. Two days seminar on Autodesk Inventor (2009) at Finolex Academy of management & Technology(University of Mumbai), Ratnagiri, Maharashtra, India.
9. One week AICTE-ISTE STTP on TQM in engineering education at VNR VJIET, Hyderabad, Andhra Pradesh, India (17-21 June, 2008).
10. Two days conference & seminar on CFD at I²IIT (International Institute of Information Technology), Pune, Maharashtra, India (14-15 Dec, 2007).
11. Two days AICTE sponsored national seminar on Application of soft technologies in higher education at RMCET, Devrukh, Ratnagiri, Maharashtra, India (25-26 July, 2008).
12. Two days training program on Mechatronics at SAE, Kondhava, Pune, Maharashtra, India (17-18 Jan, 2007).
13. Two weeks STTP on developing teaching competencies at NITTR, Bhopal, Extn. Centre, Pune, Maharashtra, India (9-20 May, 2005).

Students projects Guided at Masters Level (ME, Machine Design):

Completed: 04; On-going: 04

1. Finite Element Analysis of Femur Prosthesis during Daily Activity.
2. Condition Monitoring for Fault Detection and Diagnosis of Rolling Element Bearing.
3. Investigation of Mechanical Behavior of Corrugated Wire mesh Laminates.

4. Investigation of Effect of Lubricated Joint Clearance on Vibration of Four Bar Mechanism.

Students projects Guided at UG Level

More than 25 groups

Details of book publication

‘Medical Product Development Process and Risk Management’. Lambert Academic Publishers, Germany (2016). ISBN 978-3-659-90426-4.

Membership in Professional Bodies

Indian Society of Technical Education (ISTE).