

Name	Dr SHASHIKANT S. GOILKAR PhD, Mechanical Engineering
Designation	Associate Professor and Dean R and D
Department	Mechanical Engineering
Date of Joining the Institute	05/12/2011
Education	BE Mechanical Engineering ME Mechanical Engineering (Design) PhD Mechanical Engineering
Branch / Specialization	Mechanical Engineering
Areas of Interest	Design Engineering, Tribology, Mechanical Vibrations and Acoustics, Mechatronics, Robotics, IC Engines
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Academic Appointments

Name of the University / Institute/ Industry	Duration	Designation
Finolex Academy of Management and Technology, Ratnagiri	From 05/12/2011 to till date	Associate Professor and Dean R and D

Total Experience – 18 Years

Students projects Guided at Masters Level

1. Amol Vijay Patil, 2013, Analysis of Mechanical Face Seal Joint Failure
2. Sumit Suresh Malusare, 2013, Design & Development of MR – Fluid clutch
3. Pranit R. Naik Dalal, 2014, Value analysis based design modification of Mechanical Face Seal Joint
4. Sumit S. Surve, 2015, Vibration analysis of motor cycle handle bar
5. Suraj H. Kumbhar, 2016, Study & vibration response analysis of particle damper

Seminars/Lecture/Invited Talks Conducted

1. Worked as a Resource Person and conducted session in total one week workshop on weekends on **"Funding Schemes Available for Research Proposal"** organized by Research, Development and Consultancy Cell (RDCC) conducted at Finolex Academy of Management & Technology, Ratnagiri, 13th February to 23rd April 2016.
2. Worked as a Resource person and conducted session in **"Entrepreneurship Awareness Camp"** funded by DST and organized by Innovation and Entrepreneurship Development Cell (IEDC) conducted at Finolex Academy of Management & Technology, Ratnagiri, 13th February to 23rd April 2016.

Papers Published

Papers Presented/Published in National / International Journals - 16

National Journals – 01

1. S. S. Goilkar, Hirani H., "Tribological Characterization of Carbon Graphite Secondary Seal" Indian Journal of Tribology, Vol. 4 (2), 2009, pp. 1-6.

International Journals – 15

1. S. S. Goilkar, "Design and Development of a Variable Damping Device for Vibration Control with Electrorheological (ER) Fluid" Advances in Intelligent Systems Research, Vol. 137, pp. 127-133, 2017, Atlantis Press (Springer), Doi:10.2991/iccasp-16.2017.21, AISR (ISSN 1951-6851), ISBN (online): 978-94-6252-305-0.
2. Amol V. Patil, S. S. Goilkar, "Optimization of Wall Thickness for Minimum Heat Losses for Induction Furnace", Asian Journal of Convergence in Technology, Volume II, Issue III, ISSN No. 2350-1146, 2016.
3. Supriya A. Patil, S. S. Goilkar, "Review Paper on Design Strategies for Manufacturing Fixtures as per Machine Operations", Asian Journal of Convergence in Technology, Volume II, Issue III, ISSN No. 2350-1146, 2016.
4. Ajinkya A. Bapat, S. S. Goilkar, "Study and Design of Agitators", Asian Journal of Convergence in Technology, Volume II, Issue III, ISSN No. 2350-1146, 2016.
5. Suraj H Kumbhar, S. S. Goilkar, "Control of Cutting Tool Vibration in CNC using Damping Pad", Asian Journal of Convergence in Technology, Volume II, Issue III, ISSN No. 2350-1146, 2016.
6. Saniket C. Warekar, S. S. Goilkar, "Study of Wear & Corrosion Resistance of Cold Sprayed Components", Asian Journal of Convergence in Technology, Volume II, Issue III, ISSN No. 2350-1146, 2016.
7. S. S. Surve, S. B. Kumbhar, S. S. Goilkar, "Acoustics and Flow Field Analysis of Perforated Muffler Design", International Journal of Engineering Development and Research (IJEDR), Vol. 2, Issue 4, pp. 3565-3570, 2014.
8. P. N. Dalal, S. S. Goilkar, S. Bondave, Datta Kuvalekar, "Materials for Mechanical Face Seals", International Journal of Advances in Management, Technology and Engineering Sciences, IJAMTES, Vol. 2, Issue 9 (III), pp. 104 – 110, June 2013.

9. S. S. Malusare, U. D. Gulhane, S. S. Goilkar, "Review of Magneto rheological Fluid and its Applications", International Journal of Advances in Management, Technology and Engineering Sciences, IJAMTES, Vol. 2, Issue 9 (III), pp. 99 – 103, June 2013.
10. A. V. Patil, S. S. Goilkar, Datta Kuvalekar, "Failures in Mechanical Face Seals", International Journal of Advances in Management, Technology and Engineering Sciences, IJAMTES, Vol. 2, Issue 9 (III), pp. 93 – 98, June 2013.
11. S. S. Goilkar, "Performance analysis and comparison of an I. C. Engine with Petrol, LPG and Biogas-Petrol blend", International Journal of Global Technology Initiatives, ISSN 2277-6591, Issue 1, pp. B- 97-101, March 2012.
12. H. Hirani, S. S. Goilkar, "Rotor dynamic Analysis of Carbon Graphite Seals of a Steam Rotary Joint", Proceedings of the IUTAM - International Symposium on Emerging Trends in Rotor Dynamics, Vol. 1011, pp. 253-262, 2011.
13. Goilkar S. S., and Hirani H., "Parametric Study on Balance Ratio of Mechanical Face Seal in Steam Environment" Tribology International, Vol. 43, No. 5-6, pp. 1180-1185, 2010.
14. H. Hirani and Goilkar S. S., "Formation of Transfer Layer and its Effect on Friction and Wear of Carbon-Graphite Face Seal under Dry, Water and Steam Environments", Wear, Vol. 226 (11-12), 2009, pp. 1141-1154.
15. Goilkar S. S., and Hirani H., "Design and development of test setup for online wear monitoring of mechanical face seals using torque sensor", Tribology Transactions, Vol. 52 (1), 2009, pp. 47-58.

Papers Presented/Published in National/ International Conferences - 24

National Conferences – 08

1. Saniket C. Warekar, S. S. Goilkar, "Study of Wear & Corrosion Resistance of Cold Sprayed Components", 2nd National Conference on Recent Advances in Science and Technology (RAST 2K16), Finolex Academy of Management & Technology, Ratnagiri, February 17-18, 2016.
2. Suraj H Kumbhar, S. S. Goilkar, "Control of Cutting Tool Vibration in CNC using Damping Pad", 2nd National Conference on Recent Advances in Science and Technology (RAST 2K16), Finolex Academy of Management & Technology, Ratnagiri, February 17-18, 2016.
3. Ajinkya A. Bapat, S. S. Goilkar, "Study and Design of Agitators", 2nd National Conference on Recent Advances in Science and Technology (RAST 2K16), Finolex Academy of Management & Technology, Ratnagiri, February 17-18, 2016.
4. Supriya A. Patil, S. S. Goilkar, "Review Paper on Design Strategies for Manufacturing Fixtures as per Machine Operations", 2nd National Conference on Recent Advances in Science and Technology (RAST 2K16), Finolex Academy of Management & Technology, Ratnagiri, February 17-18, 2016.
5. Amol V. Patil, S. S. Goilkar, "Optimization of Wall Thickness for Minimum Heat Losses for Induction Furnace", 2nd National Conference on Recent Advances in Science and Technology (RAST 2K16), Finolex Academy of Management & Technology, Ratnagiri, February 17-18, 2016.

6. P. N. Dalal, S. S. Goilkar, "Value Analysis based Design Modification of Mechanical Face Seal", National Conference on Emerging Trends in Productivity (ETP 2014), Shri Guru Gobind Singhji Institute of Engg. & Tech., Nanded, January 10-11, 2014.
7. S. S. Goilkar, Harish Hirani, Anirban Guha, "An experimental study of wear process and mechanism of Mechanical face seal", 1st TRIBO-INDIA conference on Tribology of Automotive Systems, IIT, Delhi, December 11-12, 2009.
8. S. S. Goilkar, S. K. Thorat, "Finite element analysis of Stepped Cantilever Beams for Crack location and Size" In National conference on 'Optimization Techniques in Engineering Sciences and Technologies' at BIT, Sathyamangalam, April 11-12, 2006.

International Conferences – 16

1. S. S. Goilkar, "Establishment of Innovative and Entrepreneurship Development Centre to Promote Entrepreneurship among Engineering Students – A case Study" International Conference on Emerging Issues in Commerce, Management, Finance, Humanities and Extension Work, at St. Gonsalo Garcia College of Arts and Commerce, Vasai, organized in association with Department of Life Long Learning and Extension (DLLE), Mumbai University, 4th February 2017.
2. S. S. Goilkar, "Implementation of University Policy to Inculcate Extension Work among Professional Students" International Conference on Emerging Issues in Commerce, Management, Finance, Humanities and Extension Work, at St. Gonsalo Garcia College of Arts and Commerce, Vasai, organized in association with Department of Life Long Learning and Extension (DLLE), Mumbai University, 4th February 2017.
3. S. S. Goilkar, "Design and Development of a Variable Damping Device for Vibration Control with Electrorheological (ER) Fluid" International Conference on Materials, Manufacturing and Design (ICMMD2016), at Dr. Babasaheb Ambedkar Technological University, Maharashtra, December 20-21, 2016.
4. S B Kulkarni , S. S. Goilkar, "On the class of Exact Solutions of Elastico-viscous Fluid in a tube of Elliptical cross section over an inclined rigid plane on the porous Boundary", International Conference on "Ethical Prospects: Economy, Society and Environment (EPESE-2015), University of Mumbai, Ratnagiri Sub center, Ratnagiri, March 13-14, 2015.
5. S. H. Kumbhar, S. S. Surve, S. S. Goilkar, "Effect Of Particle Damping On Vibrating Cantilever Beam", International Conference on "Ethical Prospects: Economy, Society and Environment (EPESE-2015), University of Mumbai, Ratnagiri Sub center, Ratnagiri, March 13-14, 2015.
6. S. S. Surve, S. S. Goilkar, "Modal Analysis of Motorcycle Handlebar from Rider's Comfort Perspective", International Conference on "Ethical Prospects: Economy, Society and Environment (EPESE-2015), University of Mumbai, Ratnagiri Sub center, Ratnagiri, March 13-14, 2015.
7. S. S. Goilkar, "Performance analysis and comparison of an I. C. Engine with Petrol, LPG and Biogas-Petrol blend", International Conference on Global Technology Initiatives, Rizvi College of Engineering, Mumbai, March 29 – 30, 2012.
8. S. S. Goilkar, H. Hirani, "Design of Mechanical face seal rotary joint using Innovative Tribo-design", PDMA (Product Development and Management Association) India, 4th International Conference on New Product Development: Challenges in Meltdown Times, NPDC-2009, IIT Madras, December 17-19, 2009.

9. H. Hirani, S. S. Goilkar, "Rotor dynamic Analysis of Carbon Graphite Seals of a Steam Rotary Joint", IUTAM – International Symposium on Emerging Trends in Rotor Dynamics, IUROTOR-2009, IIT, Delhi, March 23-26, 2009.
10. S. S. Goilkar, H. Hirani, "Parametric Study on Balance Ratio of Mechanical Face Seal in Steam Environment", 2nd International Conference on Advanced Tribology, ICAT 2008, Singapore, December 3-5, 2008.
11. S. S. Goilkar, H. Hirani, "Tribological Characterization of Carbon Graphite Secondary seal", 6th International Conference on Industrial Tribology, ICIT-08, SCOPE Convention Centre, CORE8, Lodhi road, New Delhi, November 6 – 8, 2008.
12. S. S. Goilkar, H. Hirani, "Vibration Analysis to Estimate the Life of Spur Gears", IISc Centenary – International Conference on Advances in Mechanical Engineering, IC-ICAME, IISc Bangalore, July 2 – 4, 2008.
13. S. S. Goilkar, D. S. Patil, S. S. Mohite, "Design and development of computer based bench drilling machine" 22nd International conference on "CAD/CAM, Robotics and factories of the future at VIT, Vellore, July 19-22, 2006.
14. S. S. Goilkar, R.S. Shinde, D. S. Patil, "Experimental analysis of Diesel engine with Karanji Seed (Pongamia Glabra) Oil – Diesel Blend" International conference on Bio-Fuels Vision 2015 at BCE, Bikaner, October 13-15, 2006.
15. S. S. Goilkar, D. S. Patil, S. S. Mohite, "The low cost Automation of Computer based bench drilling machine" International conference on 'Recent Trends in Automation and its Adaptation to Industries' at PEC&A, Nagpur, July 11-14, 2006.
16. S. S. Goilkar, Dr. J. A. Tamboli, "Dynamic response analysis of Electrorheological fluid damper" International conference on 'Advances in Materials, Product Design and Manufacturing Systems' at BIT, Sathyamangalam, December 12-14, 2005.

Number of Workshops, Seminars, STTPs, FDPs Attended – 20

STTPs and FDPs

1. Attended the "**Orientation workshop for Remote Centre Coordinators**" on 30th March 2017 at IIT Bombay conducted under the National Mission on Education through ICT (MHRD, Government of India).
2. Attended Four Weeks AICTE approved IITB workshop on "**Use of ICT in Education for Online and Blended Learning**" conducted at Finolex Academy Remote center from 2nd May to 10th July 2016.
3. Attended Three days Training program for chapter writers of "**Human Development Report of Ratnagiri District**" at Yashada, Government of Maharashtra, Pune from 14th to 16th March 2016.
4. Attended Two weeks ISTE-IITKGP workshop on "**Fluid Mechanics**" conducted at Finolex Academy Remote center from 20th to 30th May 2014.
5. Attended Two weeks ISTE-IITB workshop on "**Engineering Mechanics**" conducted at Finolex Academy Remote center from 26th November to 06th December 2013.

6. Attended Two weeks ISTE-IITB workshop on **“Engineering Thermodynamics”** conducted at Finolex Academy Remote center from 11th to 21th December 2012.
7. Attended two days MHRD funded and IIT Bombay conducted workshop on **‘Introduction to Robotics’**, at Mumbai University, Kalina Campus, from 30th November to 1st December 2012.
8. Attended one day MHRD funded ISTE-IITB Coordinators workshop on **“Aakash for Education”** at IIT Bombay, on 5th November 2012.
9. Attended three days MHRD funded ISTE-IITB Coordinators workshop on **“Introduction to Research Methodology”** at IIT Bombay, from 13th to 15 June 2012.
10. Attended One day workshop on **“Intellectual Property Rights”** at DKTE, Ichalkaranji, Kolhapur, on 11th March 2011.
11. Attended One day workshop on **‘Geometry Modeling using Solidworks’**, at WIT Solapur on 6th March 2010.
12. Attended One day workshop on **‘Teaching Methodology of T. E. (Mechanical Engineering) Subjects’** at BIGCE, Solapur on 17th February 2010.
13. Attended One day workshop on **‘Syllabus Setting of B. E. (Mechanical Engineering), in curriculum of Solapur University’** at BMIT, Solapur on 11th February 2010.
14. Attended two weekends workshop on **‘Patent Searching & Drafting’** at IPR Cell, IIT Bombay on 20th September and 10th October 2009.
15. Attended Two weeks Certificate Course on **‘Piping Engineering’**, under the Continuing Education and Quality Improvement Programmes, at Piping Engineering Cell, CAD Center, IIT Bombay from 10th to 24th May 2006.
16. Attended One day Pre – Conference school on **‘Recent Trends in Automation and its Adaptation to Industries’** at PEC&A, Nagpur, on July 11, 2006.
17. Attended Two weeks I. S. T. E. Summer school on **“Mechatronics”**, at KIT’s college of engineering, Kolhapur from 6th to 17th June 2005.
18. Attended Three days workshop on **‘Mechatronics’**, at Fr. Rodrigues College of Engg. Vashi, Navi-Mumbai on 28th, 29th & 30th October 2004.
19. Attended one day workshop on **‘Curriculum development - Restructuring of syllabus for B.E. (Production) course’**, at KIT’s college of engineering, Kolhapur on 30th August 2002.

Conferences and Seminars

1. Attended International Conference on **‘Advanced Manufacturing Technology’**, at VJTI, Matunga, Mumbai on 29th, 30th & 31st January 2003.

Professional Membership

1. Indian Society of Technical Education (I.S.T.E)

College Exam Duties

1. Carried out exam related duties such as **Paper Setter, Moderator, Examiner and External Examiner** for conducting practical and oral exam as appointed by Controller of Examination, Mumbai University.

Other Experience

Workshops, Seminars, Conferences, STTPs, FDPs organized for Faculty Members

1. Worked as coordinator of Six days workshop organized jointly by Directorate of Technical Education (DTE), Govt. Of Maharashtra & NASSCOM on **"Foundation Skill in Information Technology"** conducted at Finolex Academy of Management & Technology, Ratnagiri, May 02nd to 07th 2016.
2. Organized and worked as Chairman of 2nd National Conference on **"Recent Advances in Science & Technology, RAST 2K16"**, FAMT, Ratnagiri, February 17-18, 2016.
3. Worked as a Remote Center Coordinator of Two Weeks ISTE-STTP on **"Technical Communication"** conducted at Finolex Academy Remote center from 8th October to 5th December 2015.
4. Worked as Organizing Committee member of **"International conference on "Ethical prospects: economy, society and environment (EPESE 2015)"** University of Mumbai, Ratnagiri Sub center, Ratnagiri, March 13 - 14, 2015.
5. Worked as a Remote Center Coordinator of Two Weeks ISTE-IITB workshop on **"Cyber Security"** conducted at Finolex Academy Remote center from 10th July to 20th July 2014.
6. Worked as a Remote Center Coordinator of Two Weeks ISTE-IITB workshop on **"Computer Networking"** conducted at Finolex Academy Remote center from 30th June to 05th July 2014.
7. Worked as a Remote Center Coordinator of Two Weeks ISTE-IITB workshop on **"Computer Programming"** conducted at Finolex Academy Remote center from 20th May to 21st June 2014.
8. Worked as a workshop coordinator of Two days ISTE-IITB workshop on **"Aakash for Education"** conducted at Finolex Academy Remote center from 10th to 11th November 2012.
9. Worked as a workshop coordinator of two weeks ISTE-IITB workshop on **"Introduction to Research Methodology"** conducted at Finolex Academy Remote center from 25th June to 4th July 2012.
10. Worked as a Course coordinator of one day workshop on **"Industrial Consultancy"** conducted at Dr. JJMCOE, Jaysingpur, Kolhapur, on 9th September 2011.

11. Worked as a Course coordinator of Two Days workshop on **“Mechatronic Systems and PLC Programming”** conducted at Dr. JJMCOE, Jaysingpur, Kolhapur, from 25th to 26th February 2011.

Workshops organized for Students

1. Organized One Day workshop on **“Robotics”**, conducted at FAMT, on 04 October 2014.
2. Worked as Convener of One Day Orientation-cum-workshop for **“Inter Collegiate Research Convention Avishkar 2014-15”** on 12th August 2014, organized by FAMT on behalf of Mumbai University.
3. Organized Two Days workshop on **“Robotics”**, conducted at FAMT, from 17th to 18th August 2013.
4. Worked as a Workshop Coordinator for **“Aakash Android Application Development Programming for Students”** Under National Mission on Education through ICT (MHRD, Govt. of India) through online IIT Bombay Remote Center from 23rd to 24th February and 2nd -3rd March 2013.

Events of Mumbai University organized in the Institute

1. Worked as Chief Organizer for **“Mumbai University Inter-Collegiate Cross Country Races (M & W) 2016-17”** on 29th August 2016 as a part of National Sports Day organized by FAMT on behalf of Mumbai University.
2. Worked as Chief Coordinator of Organizing Committee for **“District Level Round of Avishkar Research Convention 2016-17”** on 19th October 2016, organized by FAMT on behalf of Mumbai University.

Advisory Committee Member / Conference Session Chair / Conference Paper Reviewer etc.

1. Reviewer of 5th National Conference on **“Innovations in Mechanical Engineering (NCIME2017)”** organized by and held at Sinhgad Institute of Technology, Lonavala on April 7–9, 2017.
2. Worked as Advisory Committee member of National Conference on **“Changing Technology and Rural Development (CTRD2k16)”** organized by and held at Rajendra Mane College of Engineering & Technology, Ambav, Devrukh, Ratnagiri on December 16–17, 2016.
3. Worked as Session Chair on 20th December 2016 in **1st International Conference on Materials, Manufacturing and Design Engineering (ICMMD2016)**, organized by and held at Dr Babasaheb Ambedkar Technological University, Lonere, Raigad on December 20-21, 2016.
4. Reviewer of International Journals.
5. Selected as a panel member and writer of chapter of **“Human Development Report of Ratnagiri District”** a project of Yashada, Government of Maharashtra.
6. Worked as Local Inquiry Committee member of Mumbai University for UG and PG courses.
7. Worked as Adhoc Board of Studies member of Railway Engineering of Mumbai University.

Other Experience

1. Set up an approved Remote Center of IITs in Konkan region with funding of 2.8 Lakh Rupees from MHRD through IIT Bombay to conduct online workshops for the faculty members and students in which the IIT professors conduct the sessions and interact directly with participants.
2. Set up High End Aakash Sever environment with WIFI connectivity through funding from IIT Bombay of 1 lakh Rupees.
3. Set up an Aakash Laboratory in association with IIT Bombay with funding from MHRD through IIT Bombay approximately of 6 Lakh Rupees.
4. Set up Robotics Laboratory in FAMT through funding of 6 Lakh Rupees from AICTE under MODROB Scheme. The laboratory also consists two robots (FIRE BIRD V) received from IIT Bombay under its E-Yantra Project sponsored by MHRD.
5. Set up an approved online Examination center in Konkan region for IIT GATE Examination and other exams of National Importance.
6. Encouraged students for participation in SAE BAJA 2014 and brought good amount of sponsorship from industries.
7. Set up a new Innovation and Entrepreneurship Development Cell (IEDC) in FAMT and also organized Entrepreneurship Awareness Camp through funding from Department of Science and Technology (DST), Government of India.
8. Set up a new Self Learning Center in Finolex Academy of Management and Technology (FAMT) Library, well equipped with latest E- contents which are purchased from National Program on Technology Enhanced Learning (NPTEL) project of Ministry of HRD - Government of India.
9. Set up Robotics Laboratory in Dr JJMCOE, Jaysingpur through funding of 6 Lakh Rupees from AICTE under MODROB Scheme.

Subject Taught

Sr. No.	Name of the Subject	Year/Branch/Semester	Experience
1.	Advanced Machine design	M. E. / Mech. (Sem - II)	4 Years
2.	Advanced Stress Analysis	M. E. / Mech. (Sem - I)	4 Years
3.	Tribology	M. E. / Mech. (Sem - I)	2 Years
4.	Machine Tool Design	M. E. / Mech. (Sem - II)	1 Year
5.	Machine Design II	B. E. / Mech. (Sem - VII)	3 Years
6.	Mechanical Vibrations	T. E. / Mech. (Sem - VI)	2 Years
7.	Machine Design I	T. E. / Mech. (Sem - VI)	1 Year