

# Yogesh B Karandikar

Assistant Professor



## CONTACT DETAILS

**E-mail:** ybkarandikar@aissmscoe.com

**Phone:** +91 (20) 2605 8587

**Office:** MECH 214 (Mechanical Department)

<i>Research Interests</i>	<i>Courses Taught</i>	<i>Qualifications</i>
<ol style="list-style-type: none"><li>1. Fracture Mechanics</li><li>2. Vehicle Dynamics</li><li>3. Machine Tool Design</li><li>4. Non-Linear Dynamics and Chaos</li></ol>	<ol style="list-style-type: none"><li>1. Engineering Graphics</li><li>2. Basic Mechanical Engineering</li><li>3. Strength of Materials</li><li>4. Theory of Machines</li><li>5. Machine Design</li><li>6. Industrial Fluid Power</li><li>7. Automobile Engineering</li><li>8. Machine Tool Design</li><li>9. Mechanical System Design</li><li>10. Industrial Engineering and Production Management</li><li>11. Design of Material Handling Equipment (PG)</li><li>12. Process Equipment Design (PG)</li></ol>	<ol style="list-style-type: none"><li>1. BE (Mechanical Sandwich) COEP</li><li>2. M. Tech. (Design Engineering) IIT Powai, Mumbai</li><li>3. CSQA (Certified Software Quality Analyst) QAI Global Institute, New Delhi</li><li>4. NPTEL Course on "Spur and Helical Gear Cutting" conducted by IIT Kharagpur (Elite + Topper Member)</li></ol>

## **PROJECTS**

1. Analysis of Modified Steering Gear Mechanism to achieve condition of correct steering at all positions
2. Load Sensitive Braking
3. Design and Development of Oil Groove Cutting Machine
4. Design and Development of Portable Rail Drilling Machine
5. Flow Analysis of an Automotive Silencer using CFD and Experimental Validation to Reduce Back Pressure
6. Design and Manufacturing of Welding Fixture of Geyser Pipe Dome
7. Design and Development of Assembly and Fixture for Auto Component Machining

## **PUBLICATIONS**

1. Analytical and FEA Investigation of natural mode shape frequencies of Air Compressor Crank Shaft - A Comparative Approach published in "Cooling India" Magazine, Vol 10, No. 1, Pages 74-77 (April 2014)
2. Book entitled "Applied Thermodynamics" (as per SPPU Syllabus for SE Mechanical) published by Technical Publications, Pune (April 2015)

## **COURSES / SEMINARS / WORKSHOPS ATTENDED**

1. One Day Workshop on Syllabus Revision for SE Mechanical Course "Strength of Materials" (2012 Pattern) held at Sinhgad College of Engineering (SCOE), Vadgaon, Pune (July 2013)
2. One Day Workshop on Syllabus Revision for SE Mechanical Course "Manufacturing Processes - I" (2012 Pattern) held at All India Shri Shivaji Memorial Society's College of Engineering (AISSMS COE), Pune (July 2013)
3. One Day Workshop on Syllabus Revision for ME Mechanical Course "Advanced Stress Analysis" (2013 Pattern) held at Vishwakarma Institute of Information Technology (VIIT), Pune (August 2013)

4. One Day Workshop on Syllabus Revision of TE Mechanical Courses “Design of Machine Elements - I” and “Design of Machine Elements - II” (2012 Pattern) held at TSSM’s BSCOER, Pune (April 2014)
5. Two Day Faculty Development Program (FDP) at AISSMS CoE, Pune (May 2014)
6. One Day Faculty Development Program on “Mentorship” at AISSMS CoE, Pune (June 2014)
7. One Day Faculty Development Program on “Quality Objectives” at AISSMS CoE, Pune (December 2014)
8. One Day Workshop on “NBA Criteria I, II and III” at AISSMS CoE, Pune (June 2015)
9. Two Day Workshop on “Zero Defects” at AISSMS CoE, Pune (March 2016)
10. Two Day FDP on Counseling by Holistic Healing India at AISSMS CoE, Pune (August 2016)
11. One Day Workshop on Syllabus Implementation for Subject "Seminar" (TE Mechanical 2015 Credit System Course) at PVPIT Bavdhan, Pune (November 2016)
12. One Day Workshop on "Lean Six Sigma" at AISSMS CoE, Pune (October 2017)
13. One Day Workshop on "Automation Studio Users Meet 2017" at Maratha Chamber of Commerce and Industries, Pune (October 2017)

#### **GUEST LECTURE DELIVERED / OTHER TASKS**

1. Guest Lecture on "Electric Traction" to students of TE/BE Electrical at Bhivarabai Sawant College of Engineering, Pune (March 2016)
2. Pune Municipal Corporation Election Duty (Presiding Officer for Ward No. 37 Upper / Super Indira Nagar) at Pune (February 2017)