

Dr. Gurunath V Shinde

Ph.D. (Mech) M.E. (Mech-Prod.) B.E. (Mech)

Contact info

Shriram", Saikedar Nagar,
Vidyanagar, KaradDist. Satara,
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Courses / Research interests

- BUSINESS INTELLIGENCE
- DATA ANALYTICS
- MATERIAL MANAGEMENT
- WELDING AND JOINING OF MATERIALS
- OPTIMIZATION TECHNIQUES
- ADVANCED MANUFACTURING PROCESSES

Software Known:

- ✓ MS Power BI
- ✓ MS SQL
- ✓ SAP-ERP MM
- ✓ Python
- ✓ Advanced Excel
- ✓ WITNESS
- ✓ AUTOCAD
- ✓ CATIA
- ✓ ANSYS
- ✓ MATLAB

Education:

Sr. No.	School /Institute/University	Qualifying Exam	Marks	Year
1	G.H.Raisoni College of Engg. And Mgmt.,Pune (S.P.Pune University)	Ph.D. (Mech.)	Awarded	2022
2	Govt. College of Engineering, Karad (Shivaji University, Kolhapur)	M. E. (Mech)	62.69 %	2012
3	Govt. College of Engineering, Karad (Shivaji University, Kolhapur)	B.E. (Mech.)	59.45 %	2008
4	S.G.M.College Karad (Kolhapur Board)	H.S.C.	78.17 %	2004
5	M.G.Vidyalaya, Dahiwadi, Satara (Kolhapur Board)	S.S.C.	69.20 %	2000

Ph. D. Thesis:

Thesis title: Experimental Investigations of Low-Cost Friction Stir Welding of Aluminium-Copper Alloys

Advisor: Prof. Dr. Rachayya R. Arakerimath

M.E. Project Details:

Project title: Optimizing and Simulating chassis assembly line balancing problem of VW's polo car

Advisor: Prof. Vijay S. Jadhav

Experience (13 + yrs)

Sr. No.	Designation and Organization	Work Details	Duration	
			From	To
1	Adjunct Faculty, Centre of Excellence, Govt. College of Engg, Karad	<ul style="list-style-type: none"> SAP/ERP MM Coordinator at Centre of Excellence 27 Students have successful passed SAP Global Certification exam. Data Analytics (Power BI, SQL and Excel) course co-ordinator. Working on Industry Sponsored Project "Pneumatic Leakage Detection" in collaboration with Sky Industries, Ichalkaranji. Guided M Tech Project on "Corrosion Analysis of Cooling Assisted FSW of aluminium alloys" Taught Engineering Economics for DSY B Tech Students 	4/10/2025	Till date
2	Visiting Lecturer, Govt. College of Engg, Karad	<ul style="list-style-type: none"> SAP/ERP MM Coordinator at Centre of Excellence Conducted one week Power BI training for students at KBP Institute of Management Studies, Satara Participation in organizing committee for Job Fair under BOAT Subjects Taught for UG : Noise and vibration, Welding Technology Subjects Taught for PG: Work System Design, Fabrication and Welding Technology Project Guidance for UG & PG students Seminar and Training presentation assessment 	19/9/2024	3/10/2025
3	Power BI Consultant Qeros Software Consulting Pvt Ltd, Pune	<ul style="list-style-type: none"> Understanding business requirement through discussion Develop various Power BI dashboard to visualize complex data Visualizations like Column, Bar, Pie & Line Charts, Tree Map, Tabular and Matrix Reports Data Modelling and ETL tasks in Power BI query editor Calculated Columns and Measures for 	25/04/2022	25/04/2024

		<ul style="list-style-type: none"> expressions using DAX • Writing SQL queries using DDL and DML commands • Use of SQL joins Left, Right, Inner and Full Join • Use of Stored procedure, CTE, subquery and SQL views 		
4	<p>Asst. Professor</p> <p>Dr. Daulatrao Aher</p> <p>College of Engineering, Karad</p>	<ul style="list-style-type: none"> • Taught subjects Finite Element Analysis, Machine Tools and Production Management • Conducted Lab Sessions for CIM, FEA, AutoCAD, PM • Organized workshop and training sessions on various Mechanical Engineering Trends • Lab In charge for CAD Lab • Attended various International and National conference at reputed institutes like IIT and NIT • Guided Various Projects for Final Year students • Participated in various university exam activities for assessment 	01/07/2013	31/03/2021
5	<p>Assistant Professor</p> <p>RIT, Islampur Sangli</p>	<ul style="list-style-type: none"> • Taught subjects like Engg Graphics, IFP and CIM • Conducted practical sessions of IFP and CIM • Team member of Best Practices • Guided mini projects to FY students • Worked as Jr Supervisor for University Examination 	1/1/2013	31/6/2013
6	<p>Volkswagon India Pvt Ltd, Pune</p>	<ul style="list-style-type: none"> • Preparing assembly line layout in AutoCAD • Conducted time study to know TAKT time with stop watch • Motion study with HD video camera to find bottleneck • Ergonomic and anthropometric study on workstation • Improvement with line balancing techniques to achieve required TAKT • Simulation of improved strategies in WITNESS simulation software 	29/08/2011	29/02/2012
7	<p>Production Engineer,</p> <p>Yogi Engineering Pvt Ltd, Pune</p>	<ul style="list-style-type: none"> • Preparing CAD drawing with details of FSB,RSB,FSS,RSS components • Quality inspection of component before delivery to TATA Motors, Pune 	1/11/2009	31/4/2010

		<ul style="list-style-type: none"> • Calibration of tools and measuring instruments according to ISO standard • Preparing Production Part Approval Process(PPAP) report and Failure Mode Effective Analysis Report(FMEA) • Preparing Pre Dispatch (PDI) Report before delivery to TATA Motors • Worked on Project of agricultural grass cutter machine with assembly and disassembly of grass cutting machine 		
8	CAD Trainer Gurukul Computer Education, Karad	<ul style="list-style-type: none"> • Taught AutoCAD 2007 to engineering students • Various 2D commands and basics of drafting • Draw, Modify and Dimension toolbar • Use of layers and View toolbar • Basic drafting of Mechanical Engineering components and dimensioning • 3-dimensional solid modelling of various components 	01/07/2008	01/10/2009
9	Assistant Professor, COEP Technological University, Pune	<ul style="list-style-type: none"> • Offer from COEP Technological University, Pune as Assistant Professor in Manufacturing Engineering Department 	2025	-
10	Graduate Engineer Trainee TACO FAURECIA Design Centre, Pune	<ul style="list-style-type: none"> • Offer from TACO FAURECIA DESIGN CENTRE, Pune as a Graduate Engineer Trainee (GET) 	2008	-

Research Projects

Research funding of 90,000/- sanctioned under the Research Initiation Scheme (RIS) 2019 of Shivaji University, Kolhapur for 2 years for project entitled ***"Experimental Investigations of friction stir welding of Aluminium-Copper Alloys for Refrigeration and Air Conditioning Applications"***

Awards and Recognition

Received award **"Dr.A.P.J. Abdul Kalam Academician of Year 2025"** from WelRed Foundation

Reviewer

1. International Journal of Advanced Manufacturing Technology
2. Journal of Institute of Engineers : Part C
3. Cogent Engineering
4. SAGE Journal of Process Mechanical Engineering : Part E

Certifications:

- SAP S4HANA Cloud Private Edition, Sourcing and Procurement.

Memberships:

- Life member of Indian Society for Technical Education (ISTE)

Citation Indices based on my publications

- Google Scholar: <https://scholar.google.com/citations?user=DoKMX-MAAAAJ&hl=en>

Workshops/Training Conducted

- One day expert session on “**Business Intelligence with Power BI**” at Jaywant College of Engg , K.Gad ,Sangli from 24th March 2025.
- One Week Training for students on “**Data Analytics with Power BI**” at KBP Institute of Management Studies, Satara from 23rd June to 27th June 2025.

Workshops Attended

- Two days workshop on “**Noise and Vibration**” by **Southampton University, UK** at COEP from 16th to 17th Sept. 2013.
- Two days workshop on “**Ergonomics at IIT Guwahati**” from 1st – 2nd Dec. 2014.
- Two days workshop on “**Mechatronics System and PLC**” at JJMCOE, Jaysingpur from 25th to 27th Feb. 2011
- Two days workshop on “**Research Methodology**” at RMCET, Devrukh, Ratnagiri from 5th to 6th June 2014.
- Three days workshop on “**Advances in Measurement of Noise and Vibration**” at Cummins COE, Pune from 1st to 3rd July. 2015.

STTP's Attended

- One week Short Term Training Programme on “**Recent trends in Mechanical Engineering**” at GHRCOEM, Pune from 13th Aug. 2020 to 17th Aug. 2020.
- One week Short Term Training Programme on “**Reliability, Maintainability and Quality Issues in Process Industries**” at NIT Jalandhar from 4th Aug 2020 to 8th Aug 2020.
- One week Short Term Training Programme on “**Research opportunities in advanced manufacturing processes**” at BVCOE, Pune from 22nd June 2020 to 28th June 2020.
- One week Short Term Training Programme on “**Machine Learning and Deep Learning Applications in Engineering and Science**” at GCE, Karad from 16th May to 20th May 2020.
- One week Short Term Training Programme on “**Outcome based education: A step towards excellence**” from 11th May 2020 to 15th May 2020.
- One week Short Term Training Programme on “**Advances in Manufacturing Processes**” at D.A.C.O.E. Karad from 1st Jan 2016 to 5th Jan. 2016.
- One week Short Term Training Programme on “**MEMS: Design, Characterization and fabrication**” at S.P.C.O.E. Mumbai from 1st Jan 2016 to 5th Jan. 2016.
- One week Short Term Training Programme on “**Finite Element Methods and its applications**” (**FEMIE-2014**) at GCOE, Karad from 17th Feb. 2014 to 21st Feb. 2014.

Publications in International Journals

1. Gurunath Shinde, Abhijeet Suryawanshi, Niranjana Behera (2024) “**Optimization of process parameters for corrosion resistance during friction stir welding of aluminium AA3003-H12 and copper C12200-H01**” Corrosion Engineering ,Science and Technology (Under Review-SCI indexed)
2. Gurunath Shinde, Rachayya Arakerimath, (2024) “**Microstructural and Metallurgical Investigations of friction stir welding of dissimilar aluminium AA3003-H12 and copper C12200-H01**” SAGE Material Science and Technology (*Under Review- SCI Indexed*)
3. Gurunath Shinde, Abhijeet Suryawanshi, Niranjana Behera (2024) “**Prediction of Friction Stir Welding Performances of dissimilar AA3003-H12 and C12200-H01 using Machine**

Learning Algorithms" SAGE Proceedings of Institution of Engineers Part E: Journal of Process Mechanical Engineering (*SCI Indexed*)

4. Gurunath Shinde, Rachayya Arakerimath, (2021) **"multi-response optimization of friction stir welding of dissimilar aluminium AA3003-H12 and copper C12200-H01 using full factorial method"** SAGE Proceedings of Institution of Engineers Part E: Journal of Process Mechanical Engineering (*SCI Indexed*)
5. Gurunath Shinde, Rachayya Arakerimath (2021) **"Experimental Investigations of friction stir welding of dissimilar aluminium and copper for Impact Energy using full factorial method"** Metallurgical and Materials Science Journal. University of Serbia (*Scopus Indexed*)
6. Gurunath Shinde, Sameer Gajghate, Prakash Dabeer, Chandrakant Seemikeri (2016), **"Low-Cost Friction Stir Welding: A Review"** accepted in Elsevier Material Procedia from International Conference on Advancements in Aeromechanical Materials for Manufacturing at MLR Institute, Hyderabad (*Scopus Indexed*)
7. Gurunath Shinde, Prakash Dabeer (2017), **"Perspectives of Friction Stir Welding Tools"** accepted in Elsevier Materials Today Proceedings from International Conference on Materials, Manufacturing and Modelling at VIT-Vellore (*Scopus Indexed*)
8. G.V.Shinde, Prof.V.S.Jadhav. (2012) **"Ergonomic analysis of an assembly workstation to identify time consuming and fatigue causing factors using application of motion study"**. International Journal of Engineering and Technology. Vol. 4 (4), ISSN: 0975-4024, 220-227 (*Scopus Indexed*)
9. G.V.Shinde, Prof.V.S.Jadhav. (2012) **"A Computer based novel approach of ergonomic study and analysis of a workstation in a manual process"**. International Journal of Engineering Research and Technology. Vol. 1 (6), ISSN: 2278- 0181, 1-5 (*Scopus Indexed*)

Publications in International Conferences:

1. Gurunath Shinde, Ganesh Jadhav, Amit Kanunje (2014), **"Work assessment during assembly process by rapid analysis methods "**International Ergonomics Conference (IIT Guwahati) pp.420-423ISBN(13):978-93-392-1970-3
2. Gurunath Shinde, Vinayak Yadav, Ganesh Jadhav (2014), **"Stress Analysis of connecting rod using FEA "** International Conference on recent trends in Mechanical Engineering, at G.H. Rasoni College of Engg.,Pune
3. Gurunath Shinde, Prakash Dabeer (2017), **"Recent studies in experimental analysis of Friction Welding Technique"** International Conference on Science and Engineering for Sustainable Development Bangkok, Thailand
4. Gurunath Shinde, Sarafaraj Mulani, Pradip Gunavant, Abhijeet Suryawanshi (2018) **"Experimental Investigation of Friction Welding on Aluminium AA5083 Alloy"** in Springer Proceedings of First International Conference on Energy and Environment: Global Challenges, at NIT Calicut, Kerala
5. Abhijeet Suryawanshi, Swapnil Patil, Gurunath Shinde (2018) **" Experimental Investigation of Tribological Behavior of Various Engine Oils"** in Springer Proceedings of First International Conference on Energy and Environment: Global Challenges, at NIT Calicut, Kerala
6. Pradip Gunavant, Gurunath Shinde, Sarafaraj Mulani (2018) **"Numerical Simulation of Single Bubble Dynamics during Nucleate Pool Boiling by Altering Contact Angles"** in Springer

Proceedings of First International Conference on Energy and Environment: Global Challenges, at NIT Calicut, Kerala

7. Gurunath Shinde, Rachayya Arakerimath (2019), **"Reliability based design approach for development of friction stir welding fixture"** Book Chapter in proceedings of ICRRM 2019 – System Reliability, Quality Control, Safety, Maintenance and Management, pp. 1–7, 2020 at GHRCEM,Pune
8. Gurunath Shinde, Rachayya Arakerimath (2020), **"Optimization of Process Parameters for Peak Temperature generation during friction stir welding of Al alloys"** at ICDAC-2020,VIT,Vellore

Publications in National Conferences:

1. Gurunath Shinde, Ganesh Jadhav, Dr S M Sawant .(2014) **"Ergonomic Evaluation tools RULA and REBA: A case study"**. National Conference on Industrial Engg. And Technology Management at NITIE Mumbai.
2. Vipul Todkar, Gurunath Shinde, Sandeep Kamble, Pradip Gunavant (2017), **"An Overview of Wind Mills"**. National Conference on Design, Manufacturing, Energy and Thermal Engg at DACOE, Karad.
3. G. V. Shinde, P. U.Katu, H. S. Shete, A. S. Nigave, S. S. Shelke, S. B. Chougule (2017), **"Review of State of Art of Friction Stir Welding"** National Conference on Design, Manufacturing, Energy and Thermal Engg at DACOE, Karad.
4. Anand Shivade, Pravin R. Kubade, Gurunath Shinde (2017), **"Multi-Parametric Optimization of WEDM Process using Desirability Function Analysis"** National Conference on Design, Manufacturing, Energy and Thermal Engg at DACOE, Karad.

Portfolios held at the institute level and tasks accomplished:

Lab In-charge (CAD/CAM)

- Maintaining CAD/CAM laboratory with advanced software as per curriculum
- Keeping detailed record of all computational equipment in dead stock registrar
- Providing internet and computational facilities for students and faculty

STTP Coordinator

- Organizing short term training programs for faculty and students on recent trends in mechanical engineering,
- Invitation to eminent resource persons from academia and industry for expert talk sessions
- Hands on sessions for STTP and course materials

Supervisor for Internal/External University Examination

- Scheduling of examination facilities and supervisors
- Providing examinations supplies such as question papers, answer sheet and attendance sheets etc.
- Collection, sealing and submission of written answer sheets to university exam section

Personal Details:

Date of Birth : 12th March, 1986
Gender : Male
Marital Status : Married
Languages known : English, Hindi, Marathi.
Hobbies : Listening Music, Travelling, Photography
Address : "Shriram", Sai Kedar Nagar, Vidyanagar,
Karad Tal –Karad, Dist-Satara, (M.S.-India) 415124

I declare that all above statement made are true, complete and correct of the best of my knowledge and belief.

Place: Karad

Date:

(GURUNATH VIVEK SHINDE)