

	Name	Mr. Mahavir Kantilal Beldar		
	Designation	Assistant Professor		
	Department	Mechanical Engineering		
	Qualification	B.E. (Mechanical) (TKIET Warananagar, Shivaji University, Kolhapur) M.Tech (Mechatronics) (Government College of Engineering, Pune(COEP)) Ph.D.(Mechanical Engineering) (Pursuing from Government College of Engineering, Pune(COEP))		
	Contact No.	+91-8275275234	Ph. Extension	297
	Email ID	mkbeldar@bvucoep.edu.in , mahavirbeldar@gmail.com		
	Experience	Teaching:	7 Years 11 Months	Industry:

Title of PhD Thesis	Design and Investigate the Performance of Dynamic Splint for Children with Congenital Clubfoot Deformities.			
Title of M.Tech. Dissertation:	Design and Development of Arm Manikin for Blood Pressure and Pulse Simulation.			
Title of B.Tech. Project:	Improvisation in Silencer Design and Noise Reduction Levels			
Research Area	Mechatronics, Industrial Automation & Robotics, Industrial Fluid Power & Control.			
Publications	International Journal (s):	06	National Journals (s):	-
	International Conference (s):	01	National Conference:	01
Research Metrics	Google Scholar Citations:4 H Index:1 & I 10 Index: -	SCOPUS Citations: H Index	Web of Science Citations: H Index:	
Publication Details	Publications in Refereed Journals <ol style="list-style-type: none"> Prof. Mahavir K. Beldar^{1*} , Prof. Roheshkumar S. Lavate² “Increasing Efficiency of Peltier Module and Parametric Study of Water Extraction from Air Using Peltier Module” International Research Journal of Engineering and Technology (IRJET), Volume: 08 Issue: 06, June 2021, e-ISSN: 2395-0056, p-ISSN: 2395-0072 Prof. M. K. Beldar^{1*}, Komal Waradkar², Mayuresh Lohar³, Rahul Singh⁴ “ Improvisation of efficiency and parametric study of water extraction system using Peltier material” NOVYI MIR Research Journal, Volume-5,Issue-6 June-200, ISSN: 0130-7673 PP:137-142. Mahavir Beldar^{1*}, Chandan Sharma², Ashwini Pravin³, Vineet Kumar Jha⁴ “ Design and Development of Rotor for Energy Extraction Using Nitinol Based Shape Memory Alloy” Journal of Xidian University, Volume 14, Issue 6, June-2020, ISSN: 1001-2400, PP:137-142, https://doi.org/10.37896/jxu14.6/358 			

	<p>4. Pravin Kumar^{1*}, Dr. Pradeep Jadhav², D. B. Jadhav³, Mahavir Beldar⁴ “Design & Development of Electrode for Ultrasonic Assisted Pulse Electro-Chemical Machining” The Board of International Journal of Recent and Innovation Trends in Computing and Communication Volume 5, Issue 6, June 2017 ISSN:2321-8169 PP:120-125</p> <p>5. Mohammed Irfan Shamshoddin Pathan¹, S.R. Pawar², M.K. Beldar³, “Retrofitting of Existing Cam Follower Mechanism for Computer Aided Kinematic Analysis” International Journal of Engineering Research and General Science Volume 4, Issue 4, July-August 2016 ISSN 2091-2730, PP:33-40</p> <p>6. Mr. Mahavir K. Beldar¹, Mr. Prasanna Balan ², Dr. B. B. Ahuja³, “Design and Development of Arm Manikin for Blood Pressure and Pulse Simulation” International Journal of Modern Engineering Research (IJMER)- May 2014 Volume 4/Issue 5/Version-5 ISSN: 2249–6645 PP:37-49</p> <p>Conference Proceedings</p> <p><u>International Conferences:</u></p> <p>1. Pravin Kumar ^{1*}, Dr. Pradeep Jadhav², Mahavir Beldar³, DB Jadhav⁴, Abhay Sawant⁵, “ Review Paper on ECM, PECM and Ultrasonic Assisted PECM”, 7th International Conference of Materials Processing and Characterization,(ICMPC-2017) Materials Today: Proceedings (Elsevier) 5 (2018) 6381–6390. Hyderabad March 17-19, 2017</p> <p>2. Mahavir Beldar¹, Prashant Bharambe² “Recent Developments in Hydrogen Engine” at Quantum09 National Level Technical Symposium held at RIT Sangli on 12th &13th February 2009.</p>
<p>Workshop/ Seminar/Conference attended</p>	<p>1. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Recent Advances in Mechanical Engineering Design" from 2021-7-20 to 2021-7-24 at Bharati Vidyapeeth (Deemed to be University) College of Engineering, Pune.</p> <p>2. Two days Faculty Development workshop on “NAAC Documentation” Organized by B.V.D.U. College of Architecture, Pune-43 on 19th and 20th April 2021</p> <p>3. Successfully completed a One-week Faculty Development Program on “Application of Artificial Intelligence and Machine Learning in Mechanical Engineering” from 22nd March to 26th March 2021 organized by Department of Mechanical Engineering, Dr. D. Y. Patil Institute of Technology, Pimpri, Pune.(VZ5GTW-CE000004).</p> <p>4. Successfully Completed one week FDP on “Research in Energy Technologies” from 6th July to 11th July 2020 Organized by BV(DU) COE, Department of Mechanical Engineering Pune</p> <p>5. Successfully Completed one week FDP on “Future Materials: Nanocomposite” from 15th June to 21st June 2020 Organized by BV(DU) COE, Department of Mechanical Engineering Pune.</p>

6. Successfully completing One-week Online Faculty Development Program (FDP) on **“Exploring the Dimensions of Innovation, Incubation and Emerging Technologies”** to Embrace Post COVID Changes Organized by Hope Foundation’s Finolex Academy of Management & Technology, Ratnagiri, Department of Mechanical Engineering from 08th June to 12th June 2020
7. Successfully Organized and Attended one week FDP on **“Research Opportunities in Advanced Manufacturing Processes”** from 22nd June to 28th June 2020 by BV(DU) COE, Department of Mechanical Engineering Pune
8. Attended one-week online Faculty Development Program on **“Outcome Based Education: A Step Towards Excellence”** from 11th to 15th May 2020 under Margdarshan Scheme of AICTE, New Delhi Organised by Government College of Engineering Karad.
9. Attended one week faculty development program on **“Advanced NDT Techniques and Applications in Industry”** from 25th to 29th May 2020 organized by Indian Society for non destructive testing hyderabad
10. Participated in the webinar on **“Design, Simulation and Development of Unmanned Aerial Vehicles (Drones) and Applications in Various Engineering Sectors”** organized by NAFEMS in association with Rajarambapu Institute of Technology, Islampur, Maharashtra and Ramachandra College of Engineering, Eluru, Andhra Pradesh from 30th April to 4th May 2020.
11. Participated in the webinar on **“3D Printing for Design and Advanced Development -Applications for Automotive Sector, Medical Devices, Missiles, Customized Gifts, Drones and Robots”** organized by NAFEMS in association with Rajarambapu Institute of Technology, Islampur, Maharashtra and Siddaganga Institute of Technology, Tumkuru, Karnataka from 6th to 9th May, 2020.
12. Successfully Completed 12 Week NPTEL Course on **NBA Accreditation and Teaching-Learning in Engineering (NATE)** with Score 86%
13. Completed a four weeks online training on **Advanced Excel** from 1st May, 2020 to 31st May, 2020 organized by Internshala.
14. Successfully completed **“Presenting Effectively”** an online course conducted by Atyaasaa on 30th April 2020.
15. Successfully Completed one-week Short Term Training Programme through ICT Mode on **“Assessment and Evaluation under Outcome Based Education”** organized by NITTTR, Kolkata from 10th June to 14th June 2019 (1 Week)
16. Successfully organized, Attended, and worked as Coordinator for 2 days Workshop on **“3D Printing and its Application”** conducted on 24th Jan and 25th Jan 2019 Organized by BV(DU) COE, Department of Mechanical Engineering Pune

17. Successfully completed one-day workshop on “**Digital Marketing Fundamental**” organized by MCCIA Hadapsar Pune on 18th May 2018
18. Successfully completed Five Days Short Term Course on “**Recent Trends in Internet of Things (IoT) and Robotics**” during 8th Dec to 12th Dec 2018 organized by Center for Robotics and Security in Internet in Internet of Things (IoT) Space of Indian Institute of Information Technology Pune (IIIT Pune)
19. Successfully completed three days FDP on “**Patent Drafting and Filing workshop**” under TEQIP-II at Bharati Vidyapeeth (Deemed to be University) college of engineering pune-43, from 17th to 21st March 2017
20. Successfully completed five days FDP on “**Industrial Automation and Robotics**” under TEQIP-II at NITTTR Bhopal from 20th to 24th Feb 2017
21. Successfully completed five days Short Term Course on “**Mechatronics, MEMS and Micro-fabrication**” under TEQIP-II at IIT Indore from 19th to 23rd Dec 2016
22. Successfully completed Six Days Faculty Development Programme on “**Virtual Learning Environments**” organized by Bharati Vidyapeeth deemed University College of engineering pune-43, from 23rd to 28th February 2016.
23. Successfully completed Six Days TEQIP-II sponsored workshop on “**PLC-SCADA and HMI**” organized by Bharati Vidyapeeth deemed university college of engineering pune-43, from 18th to 23rd January 2016 and conducted by Prolific Systems and Technology Pvt. Ltd., Pune.
24. Participated in the **Faculty Development & Learning Mission to Industry: “Bridging the gap between Industry-Academia**” from 7th to 9th July 2016 in Pune organized by Confederation of Indian Industry (CII)
25. Two days TEQIP-II Sponsored workshop on “**High Impact Teaching Skills**” organized by Bharati Vidyapeeth deemed University College of engineering pune-43, from 29th to 30th September 2015 and conducted by **Dale Carnegie**.
26. Two days’ national level Faculty Development Program on “**Industrial Automation**” organized by PVG College of Engineering, Pune in association with India Soft Technologies (P) Ltd., Pune from 18th to 19th September 2015.
27. Two days TEQIP-II Sponsored Workshop at BVDU COE Pune on “**Secrets of GURU**” in Aug 2015.
28. Participated in **Design of Experiments** Workshop organized by Institute of Quality and Reliability Pune in March 2015.
29. One day TEQIP-II Sponsored Workshop at BVDU COE Pune on Understanding the **Mind & Conditioning Ourselves Through EFT** in July 2014.
30. Attended 3rd International Conference “**NANOCON014**”-Smart Materials, Composites, Applications and New Inventions in Oct 2014.
31. Successfully completed 45 days “**Industrial Automation**” workshop at College of Engineering Pune (COEP) from 2nd Dec 2013 to 14th Jan 2014.

	<p>32. One-day Workshop on “Robot Design and Control” held at PES MCOE, Pune in 25th March 2013.</p> <p>33. Two days’ Workshop on "Recent Trends in AUTOTRONICS" at PES MCOE, Pune sponsored by University of Pune under QIP from 1st to 2nd March 2012.</p> <p>34. One-day Workshop Sponsored by ISTE, New Delhi at TKIET Kolhapur on Entrepreneurship Awareness Camp for Students 2007-08.</p>
<p>Research Projects Completed/ Undergoing</p>	<ol style="list-style-type: none"> 1. Design and Development of Arm Manikin for Blood Pressure and Pulse Simulation. 2. Design and Investigate the Performance of Dynamic Splint for Children with Congenital Clubfoot Deformities. 3. Improvisation in Silencer Design & Noise Levels Reduction. 4. Increasing Efficiency of Peltier Module and Parametric Study of Water Extraction from Air Using Peltier Module. 5. Design and Development of Rotor for Energy Extraction Using Nitinol Based Shape Memory Alloy. 6. Design and Development of Dynamic Splint for Indian Children Born with Congenital Clubfoot Deformities. 7. Design & Development of a Control System for Conservation of Cold Water in solar water heaters. 8. Design and Development of Light Weight Unmanned Aerial Vehicle (Ornithopter) Using DFAM Approach 9. Design and development of DAS for displacement measurement using NI DAQ Card. 10. PLC Based Home Automation System 11. Interfacing of Pneumatically operated pick and place robot with Automation Studio Software. 12. Effect of solar tracking system on the efficiency of solar panel.
<p>Awards/ Achievements</p>	<ol style="list-style-type: none"> 1. Successfully coordinated ATAL Online Faculty Development Programme on "Robotics" from 2020-11-24 to 2020-11-28. 2. Received grant of Rs. 93,000/- from AICTE Training and Learning (ATAL) Academy for Conduction of ATAL Online Faculty Development Programme on "Robotics" from 24-11-2020 to 28-11-2020. 3. Registered copyright under Government of India Titled “Invention of Generation and Measurement of Blood Pressure and Heart Rate using Arm Manikin” Registration Number: L-67188/2017. 4. Delivered Keynote Speech at Automation Studio Academic User Meet organized by India Soft Technologies, India in association with Famic Technologies Inc. Canada at Pune on 6th Oct 2017. 5. Successfully contributed for work towards NAAC committee for Bharati Vidyapeeth University. 6. Successfully contributed for work towards UGC committee for Bharati Vidyapeeth University.

	<ol style="list-style-type: none"> 7. Successfully contributed for work towards conduction of All India Level CET for Bharati Vidyapeeth University during 2014 and 2016. 8. Successfully conducted the activity “Engagement of people with science and technology” at Chakradhar Swami Secondary School and Junior College, Pune-411046 on 13th Sept 2017. 9. Successfully conducted the activity “Engagement of people with science and technology” at Shri Narsinh High School, A/P-Dhom, Taluka-Vai, and District-Satara on 27th Jan 2016. 10. Conducted two virtual lab workshops for mechanical engineering students in the year 2015-16. 11. Worked as a committee member of “Bharatiyam016” a national level technical and cultural festival in the year 2015 and 2016. 12. Successfully completed seven days NSS camp from 22nd Jan to 28th Jan 2016 held at Dhom, Satara. 13. Actively participated and completed NSS activities viz. Vanmohatsav, Sant Gadgebaba Gram Swachta Abhiyan, Nirmalya Sankalan, Fort Awareness and Trekking, NSS day celebration and blood donation camp held in the year 2015-16. 14. Successfully conducted “Orientation Programme” for NSS Volunteers in the year 2015. 15. Successfully completed seven days NSS camp from 12th March to 18th March 2015 held at Gujar-Nimbalkarwadi, Pune. 16. Won 2nd Prize in the National Level Quiz Contest held at BCE, Shravanbelagola (Karnataka). 17. Secured 2nd rank in the M.Tech Mechatronics Course in College of Engineering Pune. 18. Qualified GATE-2011 examination with Gate Score-354 and 88.41 Percentile. 19. Successfully developed Mechatronics Laboratory with modern equipment’s.
<p>Extra Activities</p>	<ol style="list-style-type: none"> 1. Lab In-charge of Mechatronics Lab 2. Mechanical Department Placement Co-Ordinator 3. Admissions Counselor at Institute Level