CURRICULUM VITAE

Mr. Kumbhar Mahadev Bapu
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Contact No. 9665323589
Date of Birth- 17/11/1989

A/P- Arag
Tal- Miraj, Dist- Sangli
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Research Interest

Energy, Frequency, Vibration and Nano Science & Technology, Dynamic Vibration Absorbers, Smart Fluid

Work Experience

SN	Organization	Position	Duration	
			From	To
01	Govt. College of Engg. Karad	Visiting Faculty	Feb, 2021	Till Date
02	SIT, Kusgaon (BK), Lonavala, Dist-Pune, Maharashtra-411041	Assistant Professor	Jun, 2018	May,2020
03	AITRC, Vita, Dist- Sangli, Maharashtra-415311	Assistant Professor	Jun,2016	May,2018
04	Ojas Plastics, Kupwad MIDC, Sangli, Maharashtra-416436	Application Engineer	March,2013	April,2015
05	VPPID, Inam-Dhamni, Tal-Miraj, Dist- Sangli, Maharashtra-416416	Lecturer	June, 2011	May, 2012

Educational Qualification

Pursuing PhD in Mechanical Engineering @ Shivaji University, Kolhapur

Level	Qualification	Board/ University	Year	Percentage
Post-Graduation	M.E. Design	ADCET, Ashta	2016	64.37%
B.E.	B.E. (Mechanical)	BMIT, Solapur	2011	66.67%
Diploma	Diploma (Mechanical)	Govt. Polytechnic, Miraj	2008	70.46%
X STD	S.S.C.	Kolhapur Board	2005	70.53%

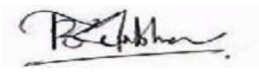
Subject Taught	➢ Finite Element Analysis ➢ Engineering Graphics ➢ Theory of Machine ➢ Manufacturing Process-II ➢ Automobile Engineering
ME Mechanical Design Project	➢ **Design, development and testing of a pendulum type DVA for SDOF system subjected to base excitation.** Theoretical mathematical modelling of a PTDVA for optimizations of amplitude ratio is verified through MATLAB software with two nondimensional categories (Multivariable optimization). Based on the analysis, design and development of a PTDVA attached to the Single degree of freedom (SDOF) system subjected to base excitation. The theoretical results are in good agreement with experimental studies with harmonic base excitation.
Industrial Training	➢ 10 days industrial training at **Eaton Fluid Power Pvt. Limited**, Pimpri, Pune in Dec, 2009.
Journal Publication	➢ **M.B. Kumbhar**, V.G. Salunkhe, A.V. Borgaonkar, T. Jagadeesha "Mathematical Modelling and Experimental Evaluation of an Air Spring-Air Damper Dynamic Vibration Absorber" Journal of Vibration Engineering & Technologies, 9, PP 781–789 (2021) Published by Springer. https://doi.org/10.1007/s42417-020-00263-w ➢ A.V. Borgaonkar, Salunkhe V.G., **M. B. Kumbhar,** et.al.; "Theoretical and experimental investigation of effect of boundary conditions on SEA parameters for idealized subsystems" Materials Today: Proceedings, 2020, Published by Elsevier. https://doi.org/10.1016/j.matpr.2020.06.267 ➢ Ganapati Shastry, Ashish Toby, M. B. Kumbhar, T. Jagadeesha; "Simulation and Optimization of materials used for Prosthetic Leg for Above-Knee Amputees Using MR Fluid" Materials Today: Proceedings, 2021, Published by Elsevier. https://doi.org/10.1016/j.matpr.2021.01.862
Conference Publication	➢ T. Jagadeesha,V. G. Salunkhe,R. G. Desavale,**M. B. Kumbhar** ,et.al.; "Investigation of Crack Detection Technique in a Rotating Shaft by Using Vibration Measurement" International Conference on Advances in Industrial Automation and Smart Manufacturing (ICAIASM) 2019, published by Springer, Singapore, https://doi.org/10.1007/978-981-15-4739-3_54. ➢ **M.B. Kumbhar**, V.G. Salunkhe, "Dynamic vibration absorber using pendulum structure" 1st international and 18th ISME Conference, 23-25 February, 2017, NIT Warangal, Warangal. ➢ V.G. Salunkhe, **M.B. Kumbhar** "Dynamic Modeling of Taper Roller Bearings with Surface Defects using Matrix Method" 1st international

	and 18th ISME Conference, 23-25 February, 2017, NIT Warangal, Warangal.
Book Chapter Publication	➢ **M. B. Kumbhar**, P. E. Lokhande, U. S. Chavan, V.G. Salunkhe "A Global Scenario of Sustainable Technologies and Progress in a Biodiesel Production" in the book edition entitled "Biodiesel Technology and Application" published by Wiley- Scrivener, ISBN 9781119724643,**https://doi.org/10.1002/9781119724957.ch7**
Patent	➢ T. Jagadeesha, P.B. Patil, **M.B. Kumbhar** et.al. "A system for dynamic vibration absorber and method of operation" Application No. 2021102312, Australian Innovation Patent, Dated-16 June 2021.
NPTEL Course	➢ 4 Week Online Course on "Python for Data Science"
Workshop	➢ Three days Continuing Education and QIP on "Expo- Product Design and Innovation" at IIT, Bombay in Aug, 2016. ➢ One week STTP workshop on MATLAB & SIMULINK at SKNCOE, Vadgaon BK, Pune in Dec, 2016. ➢ One Week QIP Course on "Machining Dynamics" at IIT Kanpur, in Oct-2018. ➢ Three days TEQIP Sponsored Short Term Course on "Research and Development in Condition Monitoring of Rotating Machines" at IIT, Indore in Dec. 2018. ➢ Three days' Short term course on "Nonlinear Oscillations, Waves and Asymptotic methods" at IIT Gandhinagar from Nov, 2019. ➢ AICTE sponsored online Short-Term Training Program conducted on "Software Tools used in Finite Element Analysis (FEA)" organized by Kalasalingam Academy of Research and Education during August, 2020. ➢ One-week online workshop on "NEMS Technologies: Modern Interdisciplinary Approach in Engineering (NEMS Tech 2020)" organized by NIT, Silchar from August, 2020. ➢ AICTE sponsored online Short-Term Training Program conducted on "Structural Dynamics" organized by IIT, Khargpur during October 2020.
Social Activity	➢ Worked as a Presiding Officer during Maharashtra Loksabha Election, April 2019 and Maharashtra Legislative Assembly Election, October 2019.

DECLARATION:

I hereby declare that all the information documented above is correct.

Date:14/11/2021
Place-Karad



(Mr. KUMBHAR MAHADEV BAPU)