

**Dr. NAGARKAR MAHESH PURUSHOTTAM**

**M.E. :-** M. E. (Mechanical Engineering - Design Engineering)

**Ph. D. :-** PhD Mechanical Engineering.

maheshnagarkar.skncoe@sinhgad.edu

Mob.No.: 7020691511

**Academic Qualification:**

Degree	Institute Name	University Name	Year of Passing	Qualification Status
<b>Ph.D.</b>	<b>AVCoE, Sangamner</b>	<b>SPPU, Pune.</b>	<b>2019</b>	<b>Awarded.</b>
<b>M.E./M. Tech</b>	<b>SRES CoE, Kopergaon</b>	<b>SPPU, Pune.</b>	<b>2008</b>	<b>Completed</b>
<b>B.E./B. Tech</b>	<b>DVVP CoE, Ahmednagar</b>	<b>SPPU, Pune.</b>	<b>1999</b>	<b>Completed</b>

**Training Details**

Training Title	Arrange By	Venue	Date	Level	Category	Type
<b>PDF</b>	<b>EAU, UK</b>	<b>UK</b>	<b>2022</b>	<b>-</b>	<b>PDF</b>	<b>Research</b>
<b>SRA</b>	<b>AU, Dubai</b>	<b>UAE</b>	<b>2023</b>	<b>International</b>	<b>SRA</b>	<b>Research</b>

**Workshop Attended**

Workshop	Topic	Conducted By	Date	Level	Category	Type
5th Mechanical Engineering Post Graduate Student's Conference MECHPGCON 2019	MECHPGCON 2019	Svaitribai Phule University of Pune, Pune, organised by AVCoE, Ahmednagar.	2019	University	PGCON	Conference
4th International Conference of Engineering Confluence and Lotfi Zadeh Centre of Excellence	Engineering and Technology	Terna Engineering College, Nerul, Navi Mumbai.	2018	International	Conference	Conference
2nd International Conference on Materials, Manufacturing and Design Engineering, iCMMD2017	Materials, Manufacturing and Design	BATU, Lonere and MIT, Aurangabad	2017	International	Conference	Conference
Advanced Engineering Optimization Through Intelligent Techniques (AEOTIT)	Optimization Through Intelligent Techniques	SVNIT, Surat.	2013	National	Workshop	Workshop

IEEE sponsored International Conference on Science, Engineering and Spirituality	Science, Engineering and Spirituality	SES College of Engineering, Navalnagar	2010	International	Conference	Conference
National Conference on Recent Advances in Innovative Materials (RAIM-08)	Materials	NIT, Hamirpur.	2008	National	Conference	Conference
AICTE Sponsored Staff Development Program on Recent Developments in Manufacturing Technology,	Manufacturing Technology	MVSR Engineering College, Hyderabad	2003	National	FDP	FDP
Workshop on Mechatronics Hands on Training Program	Mechatronics	PCCoE, Pune.	2007	State	Workshop	Workshop

### Conference Details

<b>Name</b>	<b>Venue</b>	<b>Date</b>	<b>Level</b>	<b>Category</b>	<b>Sponsored By</b>
5th Mechanical Engineering Post Graduate Student's Conference MECHPGCON 2019	MECHPGCON 2019	2019	University	Conference	SPPU
4th International Conference of Engineering Confluence and Lotfi Zadeh Centre of Excellence	Terna Engineering College, Nerul, Navi Mumbai.	2018	International	Conference	Terna Engineering College, Nerul, Navi Mumbai.
2nd International Conference on Materials, Manufacturing and Design Engineering, iCMMD2017	MIT, Aurangabad	2017	International	Conference	BATU, Lonere
IEEE sponsored International Conference on Science, Engineering and Spirituality	SES College of Engineering, Navalnagar	2010	International	Conference	IEEE
National Conference on Recent Advances in Innovative Materials (RAIM-08)	NIT, Hamirpur.	2008	National	Conference	NIT Hamirpur

## Research Project

Project name	Description	Status	Budget	Project type
20 KW Solar Power Project <b>Savitribai Phule Pune University</b> , Amount – Year – 2019	20 KW Solar Power Project	Completed	Rs. 500000	BCUD Project
Development of Macpherson Strut Suspension System Agency – <b>Savitribai Phule Pune University</b> , Year – 2014-2016	Development of Macpherson Strut Suspension System	Completed	Rs. 240000	BCUD Research Project
Development of Quarter Car Test Setup Scheme-, Agency – <b>Savitribai Phule Pune University</b> , Year – 2009-2010	Development of Quarter Car Test Setup	Completed	Rs. 200000	BCUD Research Project

## Research Paper & Journal

ISSN/ISBN No	Paper Title	Publi sh Date	Journal/Con ference Name	Level	Paper Status	Authors
<a href="https://doi.org/10.1007/s42452-019-0550-0">https://doi.org/10.1007/s42452-019-0550-0</a>	Artificial Neural Network Predication and Validation of Optimum Suspension Parameters of a Passive Suspension System	2019	Springer Nature Applied Science	International	Accepted	Mahesh P Nagarkar, Dr. M. A. El-Gohary, Dr. Yogesh J Bhalerao, Dr. Gahininath J Vikhe Patil, Rahul N Zaware Patil,
<a href="https://doi.org/10.1186/s40712-018-0096-8">https://doi.org/10.1186/s40712-018-0096-8</a>	GA-based multi-objective optimization of active nonlinear quarter car suspension system—PID and fuzzy logic control	2018	International Journal of Mechanical and Materials Engineering	International	Accepted	Mahesh P. Nagarkar, Yogesh J. Bhalerao, Gahininath J. Vikhe Patil and Rahul N. Zaware Patil,
<a href="https://doi.org/10.1016/j.jare.2016.04.003">https://doi.org/10.1016/j.jare.2016.04.003</a>	Optimization of nonlinear quarter car suspension—seat–driver model	2016	Journal of Advanced Research	International	Accepted	Mahesh P. Nagarkar, Gahininath J. Vikhe Patil, Rahul N. Zaware Patil
-	Multi-Objective Optimization and Experimental Investigation of Quarter Car Suspension System	2023	International Journal of Dynamics and Control	International	Accepted	Mahesh P Nagarkar, Yogesh Bhalerao and et al.
<a href="https://doi.org/10.1186/s43088-022-00291-3">https://doi.org/10.1186/s43088-022-00291-3</a>	Design of Passive Suspension System to Mimic Fuzzy Logic Control Active Suspension System	2022	Beni-Suef University Journal of Basic and Applied Sciences	International	Accepted	M. P. Nagarkar, Y. J. Bhalerao and et al.
<a href="https://doi.org/10.1007/s42417-022-00512-0">https://doi.org/10.1007/s42417-022-00512-0</a>	Improvement of Ride Comfort in a	2022	Journal of Vibration Engineering & Technologies	International	Accepted	Prashant Narwade, Ravindra Deshmukh,

	Passenger Car Using Magneto Rheological (MR) Damper					Mahesh Nagarkar, Vijaykumar Sukhwani
<a href="https://doi.org/10.5937/fmet1602187N">https://doi.org/10.5937/fmet1602187N</a>	Multi-Objective Optimization of LQR Control Quarter Car Suspension System using Genetic Algorithm	2016	FME Transactions	International	Accepted	M. P. Nagarkar, G. J. Vikhe Patil
<a href="http://dx.doi.org/10.15282/ijame.3.2011.11.0030">http://dx.doi.org/10.15282/ijame.3.2011.11.0030</a>	Active Control of Quarter-Car Suspension System using Linear Quadratic Regulator	2011	International Journal of Automotive and Mechanical Engineering	International	Accepted	M.P. Nagarkar, G.J. Vikhe, K.R. Borole and V.M. Nandedkar,
<a href="https://doi.org/10.16920/jeet/2023/v36i4/23124">10.16920/jeet/2023/v36i4/23124</a>	Effects of Globalization and Isomorphism on Higher Education Institutions in India - Pathways of Academic Autonomy	2023	Journal of Engineering Education Transformation (JEET)	International	Accepted	Yogesh Bhalerao, Dan Davies, Sunil Karad, Mahesh Nagarkar
-	Thermal Analysis of Friction Stir Process using Finite Element and Experimental Analysis	Accepted	Materials Physics and Mechanics	International	Accepted	Amol Wable, Shrikant Patil, Sujit Pardeshi, Mahesh Nagarkar
<a href="https://doi.org/10.1016/j.matpr.23023.02.219">https://doi.org/10.1016/j.matpr.23023.02.219</a>	Experimental study and rheology of magnetorheology fluid for a suspension system	2023	Materials Today: Proceedings	International	Accepted	Prashant Narwade, Ravindra Deshmukh, Mahesh Nagarkar
<a href="http://dx.doi.org/10.15446/ing.investig.v36n1.49253">http://dx.doi.org/10.15446/ing.investig.v36n1.49253</a>	Optimization of the linear quadratic regulator (LQR) control quarter car suspension system using genetic algorithm	2016	Ingeniería e Investigación	International	Accepted	M. P. Nagarkar, and G. J. Vikhe
<a href="https://doi.org/10.2298/APT1243179N">10.2298/APT1243179N</a>	Finite Element Simulation of Sink Pass Round Tubes using Ansys	2012	Acta Periodica Technologica	International	Accepted	M.P. Nagarkar, R.N. Zaware, S.G. Ghalme
-	A Review on Sedimentation of Magnetorheological (MR) Fluid	2020	International Journal of Future Generation Communication and Networking	International	Accepted	Prashant Narwade, Ravindra Deshmukh, Mahesh Nagarkar
-	Analysis of a Passive Suspension System and Active Control of Vehicle Suspension System Using Linear Quadratic Regulator (LQR)	2009	Programmable Device Circuits and Systems	International	Accepted	KR Borole, MP Nagarkar, VM Nandedkar
-	Experimental Study and Rheology of Magneto-rheological Fluid for a Suspension	2022	Material Today: Proceedings 4th International Conference on Contemporary	International	Accepted	Prashant Narwade, Ravindra Deshmukh, Mahesh P. Nagarkar

	System		Advances in Mechanical Engineering, Chandigarh Engineering College, Mohali, Punjab, India.			
-	Force transmissibility analysis of a magneto-rheological damper	2024	Recent Advances in Materials Manufacturing and Machine Learning	International	Accepted	Nagarkar M., Narwade P., Deshmukh R.
-	Investigation of mechanical properties of nitrided-microblasted and tcn coated D3 tool steel	2024	Recent Advances in Materials Manufacturing and Machine Learning	International	Accepted	Nagarkar, M., Bhaskar S., Bhaskar D., Shaikh A., Patil P., Ahemad J.
ISBN No. 978-981-32-9514-8	Intelligent Threshold Prediction for Hybrid Mesh Segmentation Through Artificial Neural Network	2019	Advances in Intelligent Systems and Computing, Vol 1025	International	Accepted	Hase V.J., Bhalerao Y.J., Vikhe Patil G.J., Nagarkar M.P
ISBN No. 978-981-10-1771-1	GA-Based Multi-objective Optimal Control of Nonlinear Quarter Car Suspension	2017	Lecture Notes in Mechanical Engineering. Springer, Singapore	International	Accepted	Nagarkar M.P., Vikhe Patil G.J
ISBN No. 978-3-030-47560-4	Quantitative Performance Analysis of Hybrid Mesh Segmentation	2021	EAI/Springer Innovations in Communication and Computing book series (EAIISCC)	International	Accepted	Vaibhav J Hase, Mahesh P. Nagarkar
-	Performance Analysis of Quarter Car Active Suspension System: LQR and $H_{\infty}$ Control Strategies	2012	IEEE-20180, Third International Conference on Computing, Communication and Networking Technologies (ICCCNT'12)	International	Accepted	M. P. Nagarkar, Dr. G.J. Vikhe Patil

### Membership Details

Membership Body		Details	Duration	Level
ISTE	-	-	LM	-

### Declaration

I hereby declare that all the above information furnished by me are true to the best of my knowledge.

Date: 08 Aug 2024

Name: **MAHESH PURUSHOTTAM NAGARKAR**