


ACADEMIC PROFILE

Name	Dr. Vijay Mulchand Barethiye		
Designation	<ul style="list-style-type: none"> • Lecturer (Selection Grade), Mechanical Engineering Department, VJTI Mumbai. 		
Qualification	<ul style="list-style-type: none"> • B.E. (Mechanical): Govt. Engineering College Amravati. • M.E. (Cad/Cam): Amravati University. • Ph.D.(Mechanical): Jadavpur University, Kolkata (India) 		
Date of Birth	29 th March 1978		
Contact No.	Office: 022 24198 216	Mobile: 9029923833	
Email ID	vmbarethiye@me.vjti.ac.in		
Academic Experience	17 years		
Research Interest	Automobile Engineering, Vehicle Suspension System, Cad/Cam, Fuzzy Control System, AI Techniques, Manufacturing Process		
Ph.D. Thesis	Modeling and Analysis of Passive and Active Vehicle Suspension System , at Jadavpur University, Kolkata (India), 2018		
Publications	International Journals	02	
	International Conferences	07	
Diploma Project Guided	51		
M.Tech. Dissertations Guided	02		
Book Published	<ul style="list-style-type: none"> • “Fluid Mechanics and Machinery” S’Chand, New Delhi - April 2012 (For Diploma in Mechanical and Production Engineering Group) 		
Interaction with outside world	<ul style="list-style-type: none"> • Greece: Visited to Athens and Crete, Greece to attend and present the research paper in 14th ICOVP International Conference on Vibration Problems at Crete, Greece during September 1-4, 2019 organised by National Technical University of Athens. • Italy: Visited to Department of Industrial Engineering, University of Rome Tor Vergata, Rome during 5-8 September 2019 and interacted with researchers and the state-of-the-art research facilities available in the laboratories. 		
Membership of Professional Body	<ul style="list-style-type: none"> • Senior Member --Indian Society of Mechanical Engineers (ISME) • Fellow-- The Society of Innovative Educationalist & Scientific Research Professional Chennai 		
Event Coordinator	<ul style="list-style-type: none"> • Diploma Convocation Ceremony for the Academic Year 2017-18 and 2018-19 • One Week Faculty Development Program on “Emerging Trends in Automotive Technology” during 13th -17th January 2020. 		

List of Publications

1. Referred Journals

- **V. M. Barethiye**, G. Pohit and A. Mitra, (2017), "Analysis of A Quarter Car Suspension System Based on Nonlinear Shock Absorber Damping Models" International Journal of Automotive and Mechanical Engineering, Volume 14, Issue 3 pp. 4401-4418 September 2017.
- **Vijay Barethiye**, G. Pohit, A. Mitra,(2017), "A combined nonlinear and hysteresis model of shock absorber for quarter car simulation on the basis of experimental data." Engineering Science and Technology, an International Journal, DOI: 10.1016/j.jestech.2017.12.2003.

2. List of Presentations/Publications in International Conferences

- **V. M. Barethiye**, G. Pohit, and A. Mitra, (2016), "Simulation of Quarter Car Model for the Shock Absorber Compliance with Rubber Bush and Washers," in 6th International Congress on Computational Mechanics and Simulation (ICCMS 2016), 27th June – 1st July 2016, Indian Institute of Technology (IIT), Bombay, Maharashtra, India.
- **V. M. Barethiye**, G. Pohit, and A. Mitra, (2016), "Study on the Performance of Vehicle Characteristics by Varying Damping Coefficients Using Car Model," in 61st Indian Society of Theoretical and Applied Mechanics Conference (ISTAM 2016), December 11-14, 2016, Vellore Institute of Technology (VIT), Vellore, India.
- **V. M. Barethiye**, G. Pohit, and A. Mitra, (2017), "Application of Magnetorheological Damper in Automotive suspension," in 1st International and 18th National ISME Conference (ISME-2017), February 23-25, 2017, National Institute of Technology (NITW), Warangal, India.
- **V. M. Barethiye**, G. Pohit, and A. Mitra, (2017), "Simulation and Analysis of Semiactive and Active Suspension System," in International Conference on Recent Innovations in Production Engineering (RIPE-2017), March 24-25, 2017, Madras Institute of Technology (MIT), Chennai, India.
- **V. M. Barethiye**, G. Pohit, and A. Mitra, (2018), "Active Suspension System for Nonlinear Half Car Model," in 1st International Conference on Mechanical Engineering (INCOM-2018), January 4-6, 2018, Jadavpur University, Kolkata, India.
- **V. M. Barethiye**, G. Pohit, and A. Mitra (2019), "Modeling and Analysis of Passive Suspension System using Half Car based on Hybrid Shock Absorber Model" in the 14th ICOVP International Conference on Vibration Problems at Crete, Greece during September 1-4, 2019.
- **V. M. Barethiye**, G. Pohit, and A. Mitra (2020), "Modeling and Simulation of Full Car Suspension System Based on Hybrid Shock Absorber Model" in 2nd International Conference on Advances In Mechanical Engineering and Nanotechnology during Feb 28-29, 2020 organised by Manipal University Jaipur, India and National Institute of Technology Uttarakhand, India.

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