



Akhil Bharatiya Maratha Shikshan Parishad's  
**Anantrao Pawar College of Engineering & Research**

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Web.: <http://www.abmspcoerpune.org>

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## **Research and Development Profile**



**Prof. Nilesh A. Jadhav**

**Experience: 9 Years**

**Email : [nilesh.jadhav@abmspcoerpune.org](mailto:nilesh.jadhav@abmspcoerpune.org)**

**Contact No.: + 91 9975303670**

**Department of Mechanical Engineering**

Prof. Nilesh A. Jadhav has completed his Master of Technology in CAD/CAM from Vellore Institute of Technology (affiliated to VIT University, Vellore, Tamil Nadu). His areas of interest are mechanical design and analysis. He has an adequate hands on knowledge of softwares like CATIA and ANSYS. Currently he is involved with the course of Machine Design, CAD/CAM automation, Finite Element Analysis.

He is dedicated towards the students for their knowledge enhancement and committed to preserve the wisdom of institute.

### **Publications (Research Papers):**

[1] **“Stress Solutions of some Axisymmetric and Non-axisymmetric Cases with the Principles of Elasticity: A Review”** in “International Journal for Applied Mechanics and Materials”, Vols. 215-216 (2012) pp1026-1032, Trans Tech Publications, Switzerland and indexed by EI COMPENDEX, SCOPUS and Thomson ISTP

[2] **“Elasticity based stress solution of curved bar under Pure Bending and its Numerical validation”** in “International Journal of Advanced Research in Mechanical and Production Engineering and Development” (Volume-1, Issue-1 JAN 2013)

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- [3] **“Comparative Analysis of ANSYS, Beam and Hexahedron Elements, for establishing result trends and variances, for bending loads applied in case of regulating valve”** in “International Journal of Research in Engineering Science and Technologies” (IJREST) (Volume-1, Issue-1, March 2016 )
- [4] **“Geometry stabilization and Width control of Body in White”** in “International Journal of innovative Research in Science Engineering and Technology”. ( Volume 5, Issue-3, March 2016)
- [5] **“Vibration Analysis Of Lathe Machine Tool”** in “International Journal of Research in Engineering Science and Technologies” (IJREST) (Volume-2, Issue-1, February 2017 )
- [6] **“Value stream mapping of front axle beam for Heavy Commercial Vehicle “**in “International Journal of innovative Research in Science Engineering and Technology”. (Volume 6, Issue-5, May 2017)
- [7] **“Optimization of Front axle for heavy commercial vehicle by Analytical and FEA Method”** In “International Research journal of Engineering and Technology” (Volume 4, Issue-3, March 2017)
- [8] **“Development and Design of Fixture for face milling operation on Tool Shank”** in “International Journal of innovative Research in Science Engineering and Technology”. (Volume 6, Issue-2, Feb 2017)
- [9] **“Automatic fertigation using Microcontroller- A Review”** in International Journal of Scientific and Engineering Research (ISSN 2229-5518) Feb 2020.
- [10] Project work entitled **“Design of a self regulated pressure valve by using Finite Element Analysis”** has been selected for oral presentation in **“International conference on Advances in Mechanical Engineering 2013” (ICAME-2013)** organized by College of Engineering Pune.
- [11] Presented Paper on **“Elasticity based stress solution of curved bar under Pure Bending and its Numerical validation”** in 4th International Conference on Science Engineering Technology (SET) held at VIT University, Vellore in May 2012.
- [12] **“Vibration Analysis of Lathe Machine Tool”** in 3rd International Conference on Science Engineering Technology (SET) held at VIT University, Vellore in Dec 2011.

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**Patents:**

1. Title of the Invention: “A METHOD TO REDUCE THE NUMBER OF SPOT WELDS FOR A PASSENGER CAR WHEEL”(Application No. 202221023899 A, Publication Date: 27/05/2022)
2. Title of the Invention: “A DESIGN AND FORMULATION OF SOLAR PANEL COMPATIBLE FOR WIND LOAD” (Application No. 202221023895 A, Publication Date: 27/05/2022 )

**Workshops / FDPs / STTPs :**

- [1] 3 Days Faculty Development Programme on “**Teaching Methodologies in Engineering Graphics**” organized by Sinhgad Institute of Technology, Narhe on June 2015
- [2] Syllabus Implementation workshop for the subject Skill Development at VIIT Pune.
- [3] Attended syllabus detailing workshop of Systems in Mechanical Engineering FE(2019 Pat) at AISSMSCOE, Pune
- [4] Organized and attended One week Workshop on “**Emerging Trends in Electric Vehicle**” In Association with Science and Engineering Research Board (SERB), DST, Govt. of India. (Feb 2020)
- [5] Organized One week Online workshop on “**Scilab**” in association with Spoken Tutorial, IIT Bombay (May 2020)
- [6] Participated and completed One Week Faculty Development Programme on ‘**Revolution in Engineering Education**’ from 04th May 2020 To 08th May 2020 organized by Sandeep University, Nashik.
- [7] Completed **LaTeX** test organized at Pimpri Chinchwad College of Engineering & Research with course material provided by the Spoken Tutorial Project, IIT Bombay.
- [8] Attended one week online Faculty Development Program on “**OUTCOME BASED EDUCATION: A STEP TOWARDS EXCELLENCE**” from 11-15 May 2020 under Margdarshan Scheme of AICTE, New Delhi

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[9] Completed various online FDP under ATAL academy in 2021

[10] Attended One Day Online Webinar on "Design Thinking as Strategic Approach to Innovation and Startup Creation" In Association with Innodesk Design innovation Services, Ahmedabad, Gujarat. on 20-May-2021



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