



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

Sr. No. 103, Parvati, Pune - 411 009.  
Tel.: 020-24218901/8959 Tele Fax: 020-24213929  
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Approved by AICTE & Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University  
Savitribai Phule Pune University Identification No. PU/PN/Engg. /441/2012, DTE CODE:- EN 6794

## **Research and Development Profile**



**Prof. Kolambe Chetan E.**

**Experience: 09 Years**

**Email : [kolambe.chetan@abmspcoerpune.org](mailto:kolambe.chetan@abmspcoerpune.org)**

**Contact No.: + 919552201336**

### **Department of Mechanical Engineering**

I Prof. kolambe C.E. completed Master of Technology in CAD/CAM from VIT University, Vellore, Tamil Nadu in 2013 & Bachelor of Engineering from Savitribai Phule University in 2008. I have 9.0 years of experience in teaching and 2.3 years in industry as Tool Room engineer and Project Planner in Reliable Autotech Pvt Ltd. Nasik in Ador Welding Ltd, Pune. In teaching I have taught 7 subjects which include Material Science, Engineering Metallurgy, Theory of Machines, Numerical Methods & Optimization and CAD/CAM & Automation. Also played a role of Project coordinator for 2016, 2017 & 2018th batch. I have published 8 papers in international journals and 3 papers in national conference. I have guided 2 under graduate's projects which were sponsored by Defence Research Development Organization, Pune. In 2019, I have received a grant of Rs. 300000/- under ASPIRE Research Mentorship Grant Savitribai Phule Pune University for research project "Design and Development of Sprinkling Nozzle in Drones".

#### **PATENTS:**

1. Title of the Invention: **"A METHOD FOR FRONT AXLE DESIGN WITH DIFFERENT MATERIALS"**

Application No. 202221023898 A, Publication Date: 22/04/2022, INDIA

The Patent Office Journal No. 21/2022 Dated 27/05/2022

International classification: G06F0030230000, G06F0030170000, G06F0119060000,  
G06F0111100000, G01M0005000000



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### **DETAILS OF PROFESSIONAL EXPERIENCE**

- i. UGC Approved Assistant Professor Department of Mechanical Engineering, ABMSP's APCOER, Pune- affiliated to SPPU, Pune. (01-07-2013 to Present).
- ii. Reliable Autotech Pvt Ltd, Nashik (June 2008-Sept2009).
- iii. Ador Welding Ltd, Pune (June 2010-June-2011).

### **LIST OF PUBLICATIONS**

#### **a) Journal Papers**

- i. Prof. Kolambe Chetan and Prof. Kasar Sanket (March 2016) "*Vibration Analysis of a Bicycle Exposed to Base Excitation*", published in International Journal of Research in Engineering, Science & Technologies (IJRESTs) .Vol-1 ,Issue No.-7. Pp-10-17.
- ii. Prof. Kolambe Chetan and Kapil Shah (March 2016) "*A study of Buckling mode analysis of Thin Shell Cylinder using FEA Software*", published in International Journal of Engineering Science & Computing .Vol-6 ,Issue No.-3. Pp-15-24.
- iii. Prof. Kolambe Chetan and Dhananjay Barde (March 2016) "*A study of helical gear analysis by FEA Software*", published in International Journal of Engineering Science & Computing.Vol-6, Issue No.-3. Pp-2147-2151.
- iv. Prof. Kolambe Chetan and Kapil Shah (March 2016) "*A study of Buckling mode analysis of Thin Shell Cylinder using FEA Software*", published in International Journal of Engineering Science & Computing .Vol-6 ,Issue No.-3. Pp-2136-2141.
- v. Prof. Kolambe Chetan (March 2016) "*Design of Boom Mechanism for Liner Coating Machine*", published in International Journal of Engineering Science & Computing.Vol-6, Issue No.-3. Pp-2400-2403.
- vi. Prof. Kolambe Chetan (April 2020) "*Use of Hexacopter for Agriculture Application - A Review*", International Journal of Research in Engineering, Science and Management.Vol-3, Issue No.-4.
- vii. Prof. Kolambe Chetan (June 2021) "*DESIGN AND DEVELOPMENT OF DRONE FOR SMART AGRICULTURE*", published in International Journal of ADVANCE SCIENTIFIC RESEARCH & ENGINEERING TRENDS Vol-5, Issue No.-12. Pp-620-626.



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**b) Conference Papers**

- i. *"Vibration Analysis of a Bicycle Exposed to Base Excitation"*. 3<sup>rd</sup> Science, Engineering & Technology conference at VIT University, Vellore, Tamil Nadu.
- ii. *"Finite Element Examination of Stress-Strain Field near Ductile Crack Tip"*. 4<sup>th</sup> Science, Engineering & Technology conference at VIT University, Vellore, Tamil Nadu.
- iii. *"Revisiting Inglis Theory "*, National Conference on Technical Revolution 2015. APCOER, Pune.
- iv. *"Evaluation of the Effect of Angular Positioning of Legs on the Structural Stability of a Pressure Vessel Using Finite Element Analysis"* selected for Poster Presentation at International Conference on Advances in Mechanical Engineering organized by College of Engineering, Pune (COEP) in May 2013.

**c) Conference Organized**

- i. NATIONAL CONFERENCE FOR TECHNICAL REVOLUTION-2016 at ABMSP's APCOER, Pune.
- ii. One Week Workshop on "EMERGING TRENDS IN ELECTRIC VEHICLE TECHNOLOGY: OPPORTUNITIES AND CHALLENGES" under SERB.

**d) Workshops Attended**

- i. *"Finite Element Methods for Engineering Applications (FMEA-2015) "*, Organized by S.V. National Institute of Technology, Surat under Technical Education Quality Improvement Program II for one week on November, 30<sup>th</sup> 2015 to 4<sup>th</sup> December 2015.
- ii. Attended One Day Seminar on Awareness about DRDO Research Projects & Opportunities under ARMREB, a research board of DRDO at COEP.
- iii. Attended Online One day Workshop on "DRONE TECHNOLOGY" organized by SANDIP UNIVERSITY.
- iv. Attended Online One day Workshop on "NUMERICAL METHODS" organized by COEP.
- v. Short Term Training Programme through ICT mode on CAD/CAM organized by National Institutes Teachers Training and Research, Kolkata from 27/04/2020 to 01/05/2020.
- vi. ATAL Elementary Online FDP on "Electric Vehicles" from 05-07-2021 to 09-07-



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2021.

- vii. ATAL Elementary Online FDP on "Drone: Control, Navigation & Guidance from 26-07-2021 to 30-07-2021.
- viii. ATAL Elementary Online FDP on "Data Science and machine Learning with Python" from 23/08/2021 to 27/08/2021 at Rabindranath Tagore University.
- ix. Successfully completing the Foundation Educator Training as part of BLUE PRISM ACADEMIA PROGRAM in the field of Robotic Process Automation on 22/09/2021.
- x. Successfully completed 5 week Faculty Development Program on Innovation and Industry readiness from 24.12.2021 to 21.01.2022 to inculcate the concept of innovation, IPR and process of establishing connect with industries to capture their problem for innovative idea titled AgroDrone in association with Scientific Jugaad Funda.

**e) Awards**

- i. Bagged Most Effective Kaizen Facilitator Award with 2<sup>nd</sup> rank at Reliable Autotech Pvt. Ltd., Nashik.
- ii. Received a grant of Rs. 300000/- under SPPU ASPIRE Research Mentorship Grant for the year 2019-21. Research Topic: Design & Development of Sprinkling Nozzle in Drones.
- iii. Patent on published on title "A METHOD FOR FRONT AXLE DESIGN WITH DIFFERENT MATERIALS" having application no. 202221023898A, date of publishing 27/05/2022.

**f) Extra-Curricular Activities**

- i. Worked as Class teacher, Seminar co-coordinator, Project coordinator.
- ii. Worked as Paper Setter for Bharti Vidyapeeth, Deemed University, Pune for Numerical Methods subject.
- iii. Working as a Secretary, ALUMNI ASSOCIATION of APCOER, PUNE.
- iv. Working as a Departmental Placement Coordinator.

**g) Non-Technical: National**

1. Published Paper on, "Effective Use of Teaching Aids: Blended Learning Pros and Cons", Indian Society for Technical Education, Volume 42, No. 4, OCT-DEC 2019.



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