

## **BIO-DATA**



1. **Name** MOHAMMOD AFZAL ALAM ANSARI
2. **Designation** Assistant Professor
3. **Residential Address** Ghansoli, Navi Mumbai. 400701
4. **Date of birth** 26<sup>th</sup> September
5. **Total Experience** 10.5 yrs  
**Teaching** 10 yrs

6. **Qualifications**

Exam Passed	Year	Institution/ University	Branch/Specialization
M.Tech.	2014	IIT Bombay	Aerospace Engineering (Aerospace Propulsion)
B.Tech.	2011	Aeronautical Society of India	Aeronautical Engineering (Aero-Mechanical)

7. **Employment Record**

Institution	Year (From To)	Designation
Fr. C. Rodrigues Institute of Technology, Vashi	June 2018 till date	Assistant Professor
Lokmanya Tilak College of Engineering, Koperkhairane	Jan 2017 to May 2018	Assistant Professor
Vasantdada Patil Pratisthan's College of Engineering, Sion	Jan 2015 to Dec 2016	Assistant Professor
Technoforce Solutions, Mumbai	Aug 2014-Dec 2014	Research Engineer

**8. Undergraduate / Postgraduate Teaching Experience and Subjects Taught****Subjects Taught at UG level**

Sr.No.	Name of Subject	Semester
1.	Finite Element Analysis	V / VI
2.	Heat Transfer	V
3.	Thermal Engineering	V
4.	Fluid Mechanics	IV
5.	Engineering Mechanics	I
6.	Engineering Drawing/AutoCAD	II

**Subjects Taught at PG level**

1.	Finite Element Analysis Lab	II
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**9. Research Experience: Nil****10. Research Funding / Consultancy Services:**

Sr.No.	Name of the Company	Address	Product	Consulting Service	Consulting Fees	Period
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**Research Grants:**

Sr.No.	Name of Funding Organization	Type of Grant	Amount (Rs.)	Year	Name of Research Project
1.	Fr. C. Rodrigues Institute of Technology, Vashi	Institute Level Research Funding (ILRF)	Rs.80000/-	2023-24	Development of Closed-Loop Active Control Method for Suppression of TAI

**Technical Collaboration / Lab Funding with Industries**

Sr.No.	Name of the Funding Organization	Type of Support	Amount (Rs.)	Year
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**11. Professional Societies Fellowship / Membership : AMAeSI, SAE India****12. Achievements / Awards / Position: Nil****13. Projects guided in UG/PG level : 21UG, 3PG****14. Short Term Training Programmes attended:**

- AICTE Recognized Faculty Development Programme on "Modelling and Simulation using MATLAB/ Scilab" Conducted by Mechanical Engineering Department from 25/12/2023 to 29/12/2023 (One Week) at NITTTR, Chandigarh
- AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Lighter-than-Air Systems" from 13/12/2021 to 17/12/2021 at Manipal Institute of Technology.

- Online Short Term Training Program on “GNU Octave” organized by the Department of Aerospace Engineering, Department of Electronics and Communication Engineering and IQAC Cell of Amity School of Engineering and Technology, Amity University Maharashtra from June 21, 2021 to June 25, 2021.
- Webinar series on “Fundamentals of Combustion” organized by Pimpri Chinchwad College of Engineering from 15<sup>th</sup> to 18<sup>th</sup> June 2020.

## **15. List of Journal Papers Published**

- Deshmukh, N.N., Kulkarni A., Ansari, A., Suppression of Thermo-Acoustic Instability inside a Rijke Tube using an Adaptive Passive Helmholtz Resonator. J. Inst. Eng. India Ser. C (2024).
- N.N. Deshmukh, A. Ansari, A.P. Tajir, C.C. Almeida, A.S. Shetty, N.S. Danie, S.K. Kadam., “Suppression of thermo-acoustic instabilities in horizontal Rijke tube using pulsating radial jets,” MethodsX, vol. 11, no., p. 102325, Dec. 2023
- N. N. Deshmukh, A. Ansari, S. Degwekar, B. Paul, and R. Unnikrishnan, “Effect of geometrical parameters and use of porous material in a Helmholtz resonator on suppression of thermo-acoustic instabilities,” Int. J. Spray Combust. Dyn., p. 175682772311589, Mar. 2023, doi: 10.1177/17568277231158900
- N. N. Deshmukh, A. Ansari, P. Kumar, A. V. George, F. J. Thomas, and M. S. George, “MethodsX Development of closed-loop active control method for suppression of thermoacoustic instability using radial air micro-jets,” MethodsX, vol. 10, no. March, p. 102123, 2023, doi: 10.1016/j.mex.2023.102123.
- N. N. Deshmukh, S. D. Sharma, and A. Ansari, “Experimental method for temperature measurement on lateral planes along a Rijke tube to assess efficacy of control method,” MethodsX, vol. 10, no. January, p. 102170, 2023
- Deshmukh N. N., Ansari A., Kumar P, George AV, Thomas FJ, George MS., "Effect of position of radial air injection plane on control of thermo-acoustic instability using active closed-loop method", Journal of Vibration and Control, vol. 0, no. 0, pp 1-9, 2021. doi:10.1177/10775463211050175
- N. N. Deshmukh, A. Ansari, S. Degwekar, R. Unnikrishnan and B. T. Paul, "Effects of Volume and Neck Length of Helmholtz Resonator on Thermo-Acoustic Instability," 2021 4th Biennial International Conference on Nascent Technologies in Engineering (ICNTE), 2021, pp. 1-5, doi: 10.1109/ICNTE51185.2021.9487662.

## **16. List of Papers Published in National and International Conferences**

- Prathamesh Patil, Athul Krishna T.B., Manas Mali, Tanmay Sarnobat, Arsalan Darvesh, Afzal Ansari, “Additively Manufactured UAV for Disaster Relief and First Aid”, Fifth International Structural Integrity Conference and Exhibition 2024 (SICE 2024)

- Khushi H. Sharma, Aryan S. Nandgaonkar, Arin A. Thale, Ankita J. Sartape, Sunny Sarraf and Afzal Ansari, Adjustable Prosthetic Feet for the Age Group of 5-10 Years", 30th International Conference on Processing and Fabrication of Advanced Materials and Fabrication of Products
- Nilaj N Deshmukh, Afzal Ansari, Axin Samuel, "Investigation of Effect of Porous Material on Performance of Helmholtz Resonator", in Proc.1st International Conf. on Vibration Engineering, Science and Technology, Vashi, Navi Mumbai, India, Dec. 9-10, pp. 09
- N. N. Deshmukh, A. Ansari, S. Degwekar, R. Unnikrishnan and B. T. Paul, "Effects of Volume and Neck Length of Helmholtz Resonator on Thermo-Acoustic Instability," 2021 4th Biennial International Conference on Nascent Technologies in Engineering (ICNTE), 2021, pp. 1-5, doi: 10.1109/ICNTE51185.2021.9487662.
- N. N. Deshmukh, A. Ansari, A. Phalak, and J. D. 'M C. A. Mathew, "Effect of Helmholtz resonator shape on suppression of thermo-acoustic instability," IOP Conf. Ser. Mater. Sci. Eng., vol. 1259, no. 1, p. 012002, Oct. 2022, doi: 10.1088/1757-899X/1259/1/012002.

**17. Books/Reports/General articles etc.**

Nilaj N. Deshmukh, Afzal Ansari, Axin A. Samuel, "Investigation of Effect of Porous Material on Performance of Helmholtz Resonator", Vibration Engineering, CRC Press, 2024, doi: <https://doi.org/10.1201/9781003402695-8>

**18. Invited Lectures in FDP/ STTP:**

- Five Days STTP on "Tools and Methods of Research and Publication" organized by Fr. C. Rodrigues Institute of Technology, Vashi from 6<sup>th</sup> to 10<sup>th</sup> January 2025
- Five Days STTP on "Tools and Methods of Research and Publication" organized by Fr. C. Rodrigues Institute of Technology, Vashi from 2<sup>nd</sup> to 6<sup>th</sup> January 2024

**19. International Conference Technical Program Committee Member / Reviewer:**

**20. List of Patents Published:**

- Deshmukh Nilaj N.' Ansari Afzal, Kumar Praseed, George Allen Varghese, Thomas, Febin Joseph, George Merick Steve, George Joe Nishit "A Method of Suppressing Thermo-Acoustic Instabilities by Means of Active Closed Loop", the Patent Office Journal No. 52/2021 Dated 24/12/2021, Application No.202021026306 A

