

BIO-DATA



1. Name MOHAMMOD AFZAL ALAM ANSARI

2. Designation Assistant Professor

3. Residential Address Ghansoli, Navi Mumbai. 400701

4. Date of birth 26th September 1986

5. Total Experience 11 yrs

Teaching 10.5 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
7.	Computer Aided Engineering	V
8.	Computational Lab	V

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
1	Excellent Engineering Services	PAP R-412, TTC Industrial Area MIDC, Rabale, Navi Mumbai- 400701	FEA Analysis for HPR movement via goose neck arrangement	CAD modelling, FE Analysis	50000/-	1 Month
2	Excellent Engineering Services	PAP R-412, TTC Industrial Area MIDC, Rabale, Navi Mumbai- 400701	Design Optimization and FEA Analysis of High Load Capacity Trailer	Design Optimization using FE Analysis	50000/-	1 Month

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/-	2023-25	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 : 25UG, 3PG

14. Short Term Training Programs attended:

- AICTE Recognized Faculty Development Program On “CAD CAM and FEA”, Conducted by Mechanical Engineering Department from 05/05/2025 to 09/05/2025 (One Week)
- AICTE Recognized Faculty Development Program on “Applications of VR/AR in Manufacturing” Conducted by Mechanical Engineering Department from 09/12/2024 to 13/12/2024 (One Week)
- AICTE Recognized Faculty Development Program 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 15th to 18th 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

- Prathmesh Satish Patil, Athul Krishna, Manas Mali, Tanmay Sarnobat, Arslan Darvesh, Aaryan Bhatjoshi, Kartikeya Prafulla Phale, Afzal Ansari, "Optimization of Drone Design & Components using ANSYS and E-calc", Proceedings of International Conference on Advances in Mechanical, Mechatronics & Civil Engineering (IC-AMMCE 2025), 21-22 Feb 2025
- 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 6th to 10th January 2025
- Five Days STTP on “Tools and Methods of Research and Publication” organized by Fr. C. Rodrigues Institute of Technology, Vashi from 2nd to 6th 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