

BIO-DATA



1. **Name** AQLEEM AHMED SIDDIQUI
2. **Designation** Associate Professor & Head – Mechanical Engineering
3. **Residential Address** Navi Mumbai
4. **Date of birth** September
5. **Total Experience** 25 yrs
Teaching 25 yrs
6. **Qualifications**

Exam Passed	Year	Institution/ University	Branch/Specialization
Ph.D.	2019	Mumbai University	Mechanical Engineering
M.E.	2007	Mumbai University	Mechanical (Machine Design)
B.E.	1999	Mumbai University	Automobile Engineering

7. **Employment Record**

Institution	Year (From To)	Designation
Fr. C. Rodrigues Institute of Technology	03/01/2022 till date	Associate Professor
	01/07/2011 to 02/01/2022	Assistant Professor (6th Pay)
	01/07/2010 to 30/06/2011	Lecturer (Sel. Gr.)
	01/06/2009 to 30/06/2010	Sr. Lecturer
Rizvi College of Engg.	01/03/2003 to 31/05/2009	Lecturer
M.H. Saboo Siddik College Of Engg.	19/07/1999 to 28/02/2003	

8. **Undergraduate / Postgraduate Teaching Experience and Subjects Taught**

Subjects Taught at UG level

Sr.No.	Name of Subject	Semester
1.	Automobile Engineering	VII / VIII
2.	Internal Combustion Engines	V / VI
3.	Design of Machine Elements	VI
4.	Engineering Mechanics	I
5.	Machine Design – I	VI
6.	Vehicle Systems	VII

Subjects Taught at PG level

Sr.No.	Name of Subject	Semester
1.	Design of Power Transmission Systems	II
2.	Design of Experiments & Reliability Engineering	I
3.	Reliability Engineering	II / I
4.	Statistical Techniques and Design of Experiments (CBSGS)	I
5.	Research Methodology	I

9. Research Funding / Consultancy Services:

Sr.No.	Name of the Company	Address	Product	Consulting Service	Consulting Fees	Period

Research Grants:

Sr.No.	Name of Funding Organization	Type of Grant	Amount (Rs.)	Year	Name of Research Project
1.	University of Mumbai	Minor Research Grant	30,000/-	2014-15	Experimental and Statistical Optimization of Binder composition in Brake pads to minimize wear
2.	University of Mumbai	Minor Research Grant	50,000/-	2019-20	Active Vibration Control of Cantilever Beam using Optimal Controllers

Technical Collaboration / Lab Funding with Industries

Sr.No.	Name of the Funding Organization	Type of Support	Amount (Rs.)	Year

10. Professional Societies Fellowship / Membership : SAE, ISTE**11. Achievements / Awards / Position****12. Projects guided in UG/PG level : 7 PG**

13. Short Term Training Programmes attended/conducted :

Conducted

- 1 week – “MS Office Tools for Effective Technical Presentations”, at FCRIT, Vashi, 6th August 2022 to 9th September 2022 (Every Saturday).
- 1 week – “Training Program On Ansys Mechanical and CFD” at FCRIT, Vashi, in association with ARK Infosolutions Pvt. Ltd., 25th to 29th June 2019.
- 1 week – Online Industrial Concepts Awareness Module on “Introduction to Reliability & Condition Monitoring”, in association with Theia New Consultancy, 20th to 23rd April 2020
- 1 week – AICTE Teaching and Learning (ATAL) Academy sponsored Faculty Development Program on “Electric and Hybrid Electric Vehicles”, 2nd to 6th November 2020.

Attended

- 30 hrs Certification Program on “Python for Mechanical Systems” organized by Department of Mechanical Engineering, FCRIT, Vashi, 10th Nov 2022 to 25th Feb 2023.
- 1 Week – AICTE-ISTE approved - Faculty Development Program on “Electric Mobility as a Future”, organized by Dr. D. Y. Patil Institute of Engineering, Management & Research, Pune, 25th Oct to 29th Oct 2021.
- 1 Week – ISTE Approved – Faculty Development Program on "Research in Engineering - A Way Forward", organized by A. P. Shah Institute of Technology, Thane, 6th – 10th July 2020.
- 1 Week – AICTE Teaching and Learning (ATAL) Academy sponsored – Faculty Development Program on “Sensors Technology”, organized by Tripura University, 21st - 25th September 2020.
- 8 Week – Faculty Development Programme by AICTE-NPTEL in “Design Practice – II”, Aug-Oct 2018.
- Three days’ workshop on “ANSYS SKILL DEVELOPMENT PROGRAM” under Margdarshan Scheme of AICTE, conducted by VJTI and FrCRIT, Vashi at FCRIT, Vashi from 5th December to 7th December 2017
- One Week – Short Term Course on “Design of Experiments: An Optimization Tool (DOEOT-2013)” organized by NIT, Rourkela from 27th Dec to 29th Dec 2013
- 2 Weeks – ISTE – Short Term Summer Course on “AutoCAD 2000 and Internet” organized by MHSSCE from 17th April to 3rd May, 2000.
- 1 Week – ISTE – STTP on “Finite Element Analysis and Design Optimisation” organized by KIT, Kolhapur, from 24th June to 29th June, 2006.
- 1 Week – ISTE – STTP on “Marvels of Engineering using MATLAB” organized by RCOE, Mumbai, from 28th January, 2008 to 1st February, 2008.
- 1 Week– QIP on “Diesel Particulate Emissions and NOx control” organized by I.I.T. Kanpur, from 13th February, 2010 to 18th February, 2010.
- Attended Seminar on “Advances in Automotive Technology” organized by K.J. Somaiya College of Engineering.
- Attended a One Day National Workshop on “Environment, Pollution & Public Awareness” at M.H.Saboo Siddik College of Engineering.
- Attended a one day National Seminar on “Rapid Prototyping and its Applications” at Parsvanath College of Engineering, Thane.

14. List of Journal Papers Published

- Aqleem Siddiqui, Girish Dalvi, Akshay Patil, Surabhi Chavan, “Simulation Study on Effect of Variable Curvature on the Modal Properties of Curved Cantilever Beams”, *Journal of Advances in Mechanical Engineering, Springer Nature*, pp 407-414
- Aqleem Siddiqui, Girish Dalvi, Surabhi Chavan, “A Generalized Methodology to Plot Mode Shapes of the Curved Fixed-Fixed Beams using ANSYS® & MATLAB®”, IEEE Explore, doi.: 10.1109/ICNTE51185.2021.9487658
- Praseed Kumar, Aqleem Siddiqui, Ashay Ghadi, Denisa Tony, Stephen Rhenius, “Damage Detection in beams using Vibration analysis and Artificial Neural Network”, IEEE Explore, ISSN : 978-1-7281-9062-4
- S. M. Khot, Aqleem Siddiqui, “Optimal placement strategy of multiple patches for active vibration control of cantilever beams based on modal strain”, *Mechanical Engineering eJournal*, SSRN Publications, Feb 2018.
- S. M. Khot, Aqleem Siddiqui, “Placement strategy of piezoelectric patches for multimode active vibration control of fixed-fixed beam using strain topological pattern”, *International Journal of Current Research*, volume 10, issue 8.
- Swapnil Jugal, K. Jayarajan and Aqleem Siddiqui, “Effect of Link Length Ratio on the Workspace of a Delta Robot”, *International Journal of Engineering and Advanced Technology(IJEAT)*, Volume-5 Issue 4, April 2016.
- C. Wadile, R. Dubal, R. Kolhe, V. Rangaswamy, Aqleem Siddiqui, and N. Gurav, “Selection, Modification and Analysis of Power Transmission and Braking System of an ATV”, *International Journal on Mechanical Engineering and Robotics (IJMER)*, Volume-1, Issue-1, 2013.
- Eshaan Ayyar, Isaac de Souza, Aditya Pravin, Sanket Tambe, Aqleem Siddiqui, Nitin Gurav, “Selection Modification and Analysis of Suspension System for an All-Terrain Vehicle”, *International Journal on Theoretical and Applied Research in Mechanical Engineering (IJTARME)*, Volume-2, Issue-4, 2013
- Chetan Dhuri, Aditya Masur, Aniket Warang, Aditya Sudhir, Aqleem Siddiqui and Nitin Gurav, “Selection, Modification And Analysis of Steering Mechanism For An All-Terrain Vehicle”, *International Journal on Theoretical and Applied Research in Mechanical Engineering (IJTARME)*, Volume-2, Issue-4, 2013

15. List of Papers Published in National and International Conferences

- Shamim Pathan, Praseed Kumar, Bipin Mashilkar, Nilaj Deshmukh, and Aqleem Siddiqui, “Vibration Analysis of Faults in Rotating Machineries Design Overview of Experimental Setup,” in International Conference on Technologies for Energy, Agriculture, and Healthcare (ICTEAH 2024), Mumbai, INDIA, 15-16 April 2024.
- Omkar Patil, Sherwin Moncy, Faaiz Nakhwa, Aqleem Siddiqui, "Smart Utility Basket: Design, Coding, And Fabrication Of A Smart Robotic System", in Conference for Technologies in Future Cities, Pillai College of Engineering, Panvel, 6-7 October 2023
- Aqleem Siddiqui, Adithya Basker, Malcolm Dias, Kushal Chavan, Nageshwar Avhad, " Human Following Carts (HFC) for multipurpose applications", in Proc. 5th Biennial International Conference on Nascent Technologies in Engineering, Vashi , Navi Mumbai, India, 20-21 Jan 2023.
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- Aqleem Siddiqui, Adithya Basker, Malcolm Dias, Kushal Chavan, Nageshwar Avhad, " Line Following Cart (LFC) for office applications", in Proc. 5th Biennial International Conference on Nascent Technologies in Engineering, Vashi , Navi Mumbai, India, 2023.
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- Kamlesh Sasane, Dr. Aqleem Siddiqui, Shivam Kumar, Sabil Lopes, Sebastian Dsouza and Vishal Yadav, "An investigation on addition of HHO gas in gasoline engine", in Proc. 3rd Biennial International Conference on Future Learning Aspects of Mechanical Engineering (FLAME - 2022), Noida, UP, INDIA, 3-5 August, 2022.
- Kamlesh sasane , Dr. Aqleem S ,Suryateja, Shanto Mathai, Quirenius Mendonsa, Aldrin Rego, and Melissa Vazapully, "Design and Development of Semi - Automated Manual Transmission" in Proc. International Conference on Recent Developments in Mechanical Engineering, (ICRAMERD-2022), Bhubaneshwar, INDIA, Aug 12-13, 2022.
- Adithya Basker, Malcolm Dias, Kushal Chavan, Nageshwar Avhad, Aqleem Siddiqui, "Automated Line Following (ALF) robot for office purpose", IEEE Conference of Technologies for Future Cities (CTFC2021), PCE, Panvel, 8-9 October 2021.
- Aqleem Siddiqui, Girish Dalvi, Surabhi Chavan, "A Generalized Methodology to Plot Mode Shapes of the Curved Fixed-Fixed Beams using ANSYS® & MATLAB®", 4th Biennial International Conference on Nascent Technologies in Engineering (ICNTE – 2021), FCRIT, Vashi, 15-16 January 2021.
- Praseed Kumar, Aqleem Siddiqui, Ashay Ghadi, Denisa Tony, Stephen Rhenius, "Damage Detection in beams using Vibration analysis and Artificial Neural Network", 4th Biennial International Conference on Nascent Technologies in Engineering (ICNTE – 2021), FCRIT, Vashi, 15-16 January 2021.
- Shreyas Abhyanka, Agnel Thomas, Leslie Fernandes, Rohan John, Kamlesh Sasane and Aqleem Siddiqui, "Incorporating additional power cycle in conventional four stroke SI Engine to develop six stroke engine", *1st International Conference on Applied Mechanical Engineering Research (ICAMER 2019)*, NIT Warangal, May 2019
- S. M. Khot, Aqleem Siddiqui, "Multiple Piezopatch Placement Strategy For Active Vibration Control of Pin-Pin Beams", *International Conference on Frontiers in Engineering, Applied Sciences and Technology, (FEAST18)*, NIT, Tiruchirappalli, 2018
- Vibhanshu Singh, Shamika Phatak, Mathew Thomas, Aqleem Siddiqui, "Design & Development of Automatic Manual Gear Transmission In Motorbikes", *International Conference on Frontiers in Engineering, Applied Sciences and Technology, (FEAST18)*, NIT, Tiruchirappalli, 2018
- "S.M. Khot, Aqleem Siddiqui, Darshan V Dorugade MR Saraf and Prashant R Pawar", Suspension optimization of SUV using genetic algorithm and pattern search, *International Conference on Advanced Research in Mechanical Engineering, ICARME-2012*.
- SM Khot, Aqleem Siddiqui, "Optimal Placement Strategy of Multiple Patches for Active Vibration Control of Cantilever Beams Based on Modal Strain", *International Conference on Advances in Thermal Systems, Materials and Design Engineering (ATSMDE2017)*, VJTI, Mumbai, December 21, 2017

- Khelan Chaudhari, Amogh Joshi, Ranjit Kunte, Kushal Nair, Aqleem Siddiqui, “Design and Development of Roll Cage for an All-Terrain Vehicle”, *International Conference on Emerging Intelligent Sustainable Technologies (ICEISTCON 2013)*, 2013
- Rithesh R., Shridhar C., Aqleem Siddiqui, “Application of Touch Sensitive Digital Interface Pad to Vehicle Steering System”, *National Conference on Recent Trends in Engineering & Technology (ZENITH-2009)*, October 30 - 31, 2009, Agnel Polytechnic, Vashi, Navi Mumbai.
- Geroge J., Akshay R., Vittal S., Aqleem Siddiqui, Nilaj Deshmukh, An Investigation Of A Piezoelectric Controlled Hydraulically Actuated Valve-Train Mechanism For I.C. Engines, *National Conference on Recent Trends in Engineering & Technology (ZENITH-2009)*, October 30 - 31, 2009, Agnel Polytechnic, Vashi, Navi Mumbai

16. Invited Lectures in FDP/ STTP :

- Invited online lecture on “Effective Technical Presentation using PowerPoint®”, organized by Department of Mechanical Engineering, FCRIT, Vashi in association with Institute of Engineers, Belapur Local Center (IEI-BLC), on 8th August 2020.
- Invited lecture on “Basic Concepts of Automobile Engineering” in One week STTP on "Electric and Hybrid Electric Vehicle Technology" organized by Electrical Engineering Department, FCRIT, Vashi, Navi Mumbai, from 18 – 23 June 2018.
- Invited lecture on “Introduction to Reliability Engineering” in One week STTP on "Reliability in Electrical and Electronic System" organized by Electrical Engineering Department, FCRIT, Vashi, Navi Mumbai, on 28th June 2017.

17. International Conference/Technical Program Committee Member / Reviewer :

- Technical Judge, National Project Presentation competition, ‘TECHNOSCOPE 2K24’, organized by Kalsekar College of Engineering, Panvel, held on 9th March 2024
- Reviewer, IEEE and IAS Technically Co-Sponsored, 4th Biennial International Conference on Nascent Technologies in Engineering (ICNTE 2023) held in 2021 in Mumbai, India (Proceedings published by IEEE Xplore Digital Library), organized by FCRIT, Vashi
- Reviewer, IEEE Conference of Technologies for Future Cities (CTFC2021), PCE, Panvel, 8-9 October 2021.
- Reviewer, IEEE and IAS Technically Co-Sponsored, 4th Biennial International Conference on Nascent Technologies in Engineering (ICNTE 2021) held in 2021 in Mumbai, India (Proceedings published by IEEE Xplore Digital Library), organized by FCRIT, Vashi
- Co- Chair, IEEE Technically Co-Sponsored, 3rd Biennial International Conference on “Nascent Technologies in Engineering” to be held on Jan. 4 – 5, 2019 at Fr. C. Rodrigues Institute of Technology, Vashi, India.
- Reviewer, IEEE Technically Co-Sponsored 2nd Biennial International Conference on Nascent Technologies in Engineering (ICNTE 2017) held in 2017 in Mumbai, India (Proceedings published by IEEE Xplore Digital Library), organized by FCRIT, Vashi.
- Reviewer, International Conference on Advances in Science, Technology and Engineering (ICASTe-2018) held in 2018 in Mumbai, India, Organized by A.P. Shah Institute of Technology, Thane.