



DEPARTMENT OF MECHANICAL ENGINEERING
FACULTY OF ENGINEERING AND TECHNOLOGY
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PROFESSIONAL QUALIFICATIONS

- ✚ Ph.D. (Tribology) (2015) from Indian Institute of Technology Delhi, IIT Delhi
- ✚ M. Tech. (Design of Mechanical Equipment) (1996) from Indian Institute of Technology Delhi, IIT Delhi
- ✚ B. Sc. Engg. (Mechanical) (1990) from Jamia Millia Islamia, New Delhi

Research papers published: 45 (Scopus); 39 (non-Scopus)

Publications in international conferences: 21

Patents Granted: 4; Patents Published: 2

Awards: 5

Book Chapters: 5

M. Tech. Thesis supervised: 18, Ph. D. Thesis supervised: 01

TEACHING EXPERIENCE: 34 years

S. No.	From	To	Position Held	Name of Institute
1	2015	till date	Professor	Jamia Millia Islamia, New Delhi
2	2007	2015	Associate Professor	Jamia Millia Islamia, New Delhi
3	2005	2007	Lecturer (Selection grade)	Jamia Millia Islamia, New Delhi
4	2000	2005	Senior Lecturer	Jamia Millia Islamia, New Delhi
5	1995	2000	Lecturer	Jamia Millia Islamia, New Delhi
6	1991	1995	Lecturer	University Polytechnic, Jamia Millia Islamia, New Delhi

RESEARCH INTERESTS & FIELDS OF SPECIALIZATION

- ✚ Tribology (Nano-Lubricants, Wear, Journal Bearings, Magnetic Bearings, MR Brakes)
- ✚ Mechanical Vibrations (Modal Analysis, Fault Diagnostics)
- ✚ Innovative Product Design

PATENTS

Details of the Patents Granted:				
	Inventor(s)	Title	Patent No.	Date of Grant
1	Sameera Mufazzal Noor Zaman Khan S. M. Muzakkir Zahid A. Khan Sarfaraz Masood Mohd. Tauheed Khan	A feature boosted Web-based product purchase recommendation method and system	Australia: AU 2021103131 A4	07.04.2022
2	Sameera Mufazzal and S M Muzakkir	Agitator Assembly for a Top Load Washing Machine	IPO: 401938	25.07.2022
3	S M Muzakkir	Sweeping Brush with Pressurized Air Nozzles for Street Sweeping Machines	IPO: 482097	13.12.2023
4	Sameera Mufazzal and S M Muzakkir	Agitator Design for Gentle Cleaning Action for Top Loading Washing Machine	IPO: 495717	08.01.2024
Details of the Patents filed and Published:				
	Inventor(s)	Title	Date of Publishing	File Number
1	Sameera Mufazzal and S M Muzakkir	Adjustable Multifunctional Geometric Ruler	09-02-2024	202411004968

Details of the Design Patents filed and Published:

1	Sameera Mufazzal and S M Muzakkir	Design Patent		
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AWARDS**Details of the Awards**

1.	Best Research Paper Award	International Conference on Industrial Tribology 02-04 Dec, 2010, RDCIS, SAIL, Ranchi, India.
2.	Best Research Paper Award	International Conference on Recent Advances in Nano Science and Technology (RAINSAT-2015) 8-10 July, 2015, Sathyabama University & CLRI (CSIR), Chennai.
3.	Best Research Paper Award	International Conference and Exhibition on Building Utilities, (ICEBU-16) Jamia Millia Islamia, New Delhi.
4.	Membership Award	Five Year Membership of International Association of Advanced Materials (IAAM), Sweden, 2016
5.	Membership Award	Quarterly Franklin Membership by London Journals Press (UK), 2020

BOOK CHAPTERS**Details of the Book Chapters**

S. No.	Chapter Title	Book Title	Publisher
1.	<i>Novel Approach for the Design of Valve System</i>	Advanced Engineering Research and Applications	Editors: B.S. Ajay kumar and D. Sarkar Research India Publications, ISBN No. 978-93-84443-48-1
2.	<i>Design of valve system using up-gradation approach</i>	Introduction to Mechanical Engineering	Editor: S. Rajendran Publisher: Research India Publications, ISBN No. 978-93-84443-49-8
3.	<i>Methodology for the control of wear of journal bearing operating in mixed lubrication regime</i>	Advances in Chemistry and Chemical Engineering	Editors: David N. Reinhoudt and Hongkai WU Publisher: Research India Publications, ISBN No. 978-93-84443-47-4
4.	<i>Numerical Investigation of the Effect of Ball Bearing Geometry on Oil Film Damping Due to Lubricated Contact at Different Loads</i>	<i>Advances in Mechanical Engineering, Lecture Notes in Mechanical Engineering</i>	Springer, Singapore, pp. 11-24, 2021.
5.	<i>Intelligent Evaluation of Ball Bearing Health Degradation Using Wavelet Packet Transform and k-Nearest Neighbor</i>	<i>Advances in Mechanical Engineering, Lecture Notes in Mechanical Engineering</i>	Springer, 2022