



CURRICULUM VITAE

Name: Dr. P. K. MALL

Designation: Assistant Professor

Department: Mechanical Engineering

Mobile No: +91-8004346532

Official E-mail: pkmech89@bbdniit.ac.in

ACADEMIC/INDUSTRIAL EXPERIENCE: 09 Years

Educational Qualification: B.Tech (Hons) (Mechanical Engineering), M.Tech. (Mechanical Engineering, Production), Ph.D. (Mechanical Engineering in the field of Fluid and Thermal)

AREA OF INTREST: Engineering Mechanics, Theory of Machine, Basic Thermodynamics, Operation Research

COMPUTER SKILLS:

Simulation Tool: MatLab

Designing Tool: Diploma in Auto Cad, CADD Centre Chinhath Lucknow, August 2009.

RESEARCH PUBLICATION:-

#	Title of the Research Paper	URL	Name of Publication	Date of Publication	ISSN / Volume/ Issue No./Page No.	SCI / ESCI / SCIE / SCOPUS
1	Modeling and Analysis of Active Full Vehicle Suspension Model Optimized Using the Advanced Fuzzy Logic Controller	https://www.iiav.org/iiav/content/volumes/27_2022_443331648541588/vol_1/1825_fullpaper_1889611648545179.pdf	International Journal of Acoustics and Vibration	Jan 04, 2022	1027-5851 & 2415-1408 & Vol. 27, No. 1 pp. (26-36)	SCIE Impact Factor 1.60
2	Molding And Analysis And PID Controller Implementation On Suspension System For Quarter Vehicle	https://journal.ump.edu.my/jmes/article/view/4346	Journal of Mechanical Engineering and Sciences (JMES)	Jun 30, 2022	2289-4659 & 2231-8380	ESCI Impact Factor 1.1

	Model				& Vol. 16, No. 2 pp. (8905– 8916)	
3	Analysis of microstructure and micro hardness of aluminum alloy melt for grain refinement by twin-roll casting	doi.org/10.1186/s40712-025-00211-0	Journal of Materials Science: Materials in Engineering	Feb 14, 2025	3004-8958 Volume 20, article number 21 Pp (1-15)	ESCI Impact Factor 1.6
4	Measuring the effects of liquid bulk viscosity numerically on a spherical nitrogen bubble in aqueous H2SO4	doi: 10.1063/5.0255985	AIP Advances	April 8, 2025	2158-3226 Volume 15, Issue - 4 PP-(1-12)	SCIE Impact Factor 1.50
5	Effect of liquid density, ultrasonic velocity, and gas flow rate on the formation of air bubbles in aqueous methanol at temperature 293.15, 303.15, and 313.15 K	doi: 10.1063/5.0251734	AIP Advances	June 30, 2025	2158-3226 Volume 15, Issue 7 PP-(1-19)	SCIE Impact Factor 1.50
6	Impact of surface tension, viscosity and flow rate on air bubble formation in aqueous methanol at temperatures 293.15, 303.15 and 313.15 K	doi.org/10.1007/s11182-025-03508-x	Russian Physics Journal	August 04, 2025	1064-8887 / 1573-9228 Volume 68, pages 895–902	SCIE Impact Factor 0.8
7	Analytical Modeling and Performance Analysis of Fuzzy and PID controller and full active suspension system using 7 degree of freedom	https://doi.org/10.20855/ijav.2026.31.12167	International Journal of Acoustics and Vibration	March 2026	1027-5851 / 2415-1408 Vol. 31, No. 1, PP-(38–49)	SCIE Impact Factor 1.60

8	Thermodynamic investigation on the use of transcritical carbon dioxide in a reheat gas turbine-based combined cooling and power cycle	https://doi.org/10.1007/s44189-026-00097-3	International Journal of Air-Conditioning and Refrigeration	4 January 2026	2010-1325/2010-1333 Volume 68, pages (1-14)	SCIE Impact Factor 2.5
9	Integrated Effects of Aerodynamic Control and Active Suspension Systems on Vehicle Stability and Handling Dynamics During High-Speed Maneuvers	https://doi.org/10.20855/ijav.2025.30.42203	International Journal of Acoustics and Vibration	29 September 2025	1027-5851 / 2415-1408 Vol. 30, No. 4, 2025 pp. (432–442)	SCIE Impact Factor 1.60
10	Stepped single-slope solar still using MWCNT nanofluid and nano-enhanced PCM	https://doi.org/10.1007/s11182-026-03695-1	Russian Physics Journal	Accepted: 21 January 2026 & Published 01 June 2026	1573-9228/1064-8887 Vol. 69, No. 2, 2026 pp. (1-8)	SCIE Impact Factor 0.8
11	Thermal and productivity analysis of a stepped slope solar still using silver nanofluid and nano-enhanced PCM	https://doi.org/10.1007/s11182-026-03698-y	Russian Physics Journal	Accepted: 27 January 2026 & Published 01 June 2026	1573-9228/1064-8887 Vol. 69, No. 2, 2026 pp. (1-8)	SCIE Impact Factor 0.8
12	Experimental Studies on Tungsten Inert Gas Welding on EN-08 Steel with Mild Steel Filler	https://link.springer.com/chapter/10.1007/978-981-96-9521-8_50	Recent Advancement in Production Engineering (Scopus Conference)	30 April, 2026	2195-2195/4364-4356 PP (635–647)	SCOPUS 2.5
13	Review of Manual Scavenging in India and Design and Development of Scavenging Machine	https://doi.org/10.1063/5.0337741	AIP Conf. Proc. 3419, 050002 (2026)	Volume 3419, Issue 1 16 June 2026	1551-7616/0094-243X PP-(050002-	SCOPUS 1.7

					1-8)	
14	A Comprehensive Review of Roll Control and Ride Comfort Optimization of Active Suspension Systems for Passenger Vehicles	https://doi.org/10.1063/5.0337742	AIP Conf. Proc. 3419, 050001 (2026)	Volume 3419, Issue 1 16 June 2026	1551-7616/0094-243X PP-(050001-1-14)	SCOPUS 1.7
15	Optimum utilization of Transport department with application of six sigma	https://doi.org/10.1063/5.0337745	AIP Conf. Proc. 3419, 050001 (2026)	Volume 3419, Issue 1 16 June 2026	1551-7616/0094-243X PP-(060002-1-15)	SCOPUS 1.7
16	Experimental and numerical evaluation of various planes and axial velocity on static pressure from top to bottom of the cyclone separator	https://doi.org/10.1063/5.0337715	AIP Conf. Proc. 3419, 050001 (2026)	Volume 3419, Issue 1 16 June 2026	1551-7616/0094-243X PP-(060009-1-15)	SCOPUS 1.7

RESEARCH PUBLICATION (CONFERENCE PAPERS):-

#	Title of paper	Name of Conference	URL	Page no./ year/ place	conference
1.	Manual Scavenging	Recent Advancement and innovation and technology (RAIET-2023) Maharishi University, Lko	https://easychair.org/cfp/RAIET-2023	43, Feb 24 th to 25 th 2023	International
2.	Conversion Of Normal RC Car Into Solar RC Car	Recent Advancement and innovation and technology (RAIET-2023) Maharishi University,	https://easychair.org/cfp/RAIET-2023	43, Feb 24 th to 25 th 2023	International

		Lko			
3.	Pneumatic Hammer	Recent Advancement and innovation and technology (RAIET-2023) Maharishi University, Lko	https://easychair.org/cfp/RAIET-2023	44, Feb 24 th to 25 th 2023	International
4.	Heat Transfer Performance Analysis Of DASC Using Nano Fluid	RACMEE 2023 Paper ID – MEOFT 243 University of Lucknow	https://www.lkouniv.ac.in/site/writereaddata/UploadNews/pdf/C_202304031048461956.pdf	April 17 to 18 2023.	National
5.	Enhancement of Thermo- Physical Properties Of Molten Salt Using Nano Fluid	RACMEE 2023 Paper ID – MEOFT 238 University of Lucknow	https://www.lkouniv.ac.in/site/writereaddata/UploadNews/pdf/C_202304031048461956.pdf	April 17 to 18 2023.	National

PATENTS:-

S. No.	Title of Patent	Application No.	Date of Publication	Status	Author
1.	An Eco Friendly Direct evaporative cooling system using cotton strip for capillary effect	202211037235 A	08/07/2022	Published	First Inventor
2.	Adoptable walking assistive device	202311018317 A	12/05/2023	Published & Grant	First Inventor
3.	AI based Intruder Identification	404638-001	03/10/2023	Published & Grant	Sixth Inventor
4.	Machine learning Based Glaucoma Screening Device	507576-001	30/06/202	Published & Grant	First Inventor

BOOKS PUBLICATIONS:-

#	Title of the Book	URL	Name of Publication	Date of Publication	ISBN	Author Position
1	Concept of Robotics and Automation	https://www.walnutpublication.com/book/9789359115795/	Walnut	Sep 04, 2023	9789359115795 & 9359115797	First
2	Fundamentals of Mechanical	https://www.walnutpublication.com	Walnut	Nov 29, 2023	9789359113722	First

	Engineering	/book/9789359113722/			& 9359113727	
3	Research Methodology	https://www.walnutpublication.com/book/9789359119762/	Walnut	Mar 13, 2024	9789359119762 & 9359119768	First
4	Basic Mathematics	https://www.walnutpublication.com/book/9789359114521/	Walnut	Mar 13, 2024	9789359114521 & 9359114529	Third
5	A Text Book of Renewable Energy Resources	https://www.walnutpublication.com/book/9789359119861/	Walnut	Apr 24, 2025	9789359119861 & 9359119865	Fifth

BOOKS CHAPTER:-

#	Title of the Book	URL	Name of Publication	Date of Publication	ISBN	Author Position
1	Optimizing Molecular Interactions for Acid-Gas Removal	Accepted, Awaiting for Publication	IIP Series IIP_V6_2026_BS_21_417 Frontiers in Biological Sciences	May 27, 2026	ID: IIPER1777006399	Scond

PROJECTS/THESIS GUIDED:-

1. **U. G. Project Guided:-** - 30 (Fifteen) Students.

VOCATIONAL TRAINING:-

2. One Month Industrial straining at Suratgarh Super Thermal Power Plant Ganga Nagar Rajsthan.

FACULTY DEVELOPMENT PROGRAM:-

3. Attended the One-week Faculty Development Program on “Universal Human Values and Professional ETHICS” organized TEQIP-III and conducted by AKTU Lucknow, From

June.12 to June. 19, 2019.

4. Attended the One-week Faculty Development Program on “Natural Language Processing” Jointly organized by Electronics and ICT Academies held from 06-10 January 2020, at KNIT Sultanpur, through National Knowledge Network under the “Scheme of financial assistance for setting up of Electronics and ICT Academies” of the Ministry of Electronics and Information Technology (MeitY), Government of India.
5. Attended the AICTE Sponsored Two-week Faculty Development Program on Process Improvement Methodologies “Lean & Six Sigma” organized by Department of Mechanical Engineering, KNIT Sultanpur, and From Nov.20 to Dec. 01, 2019.
6. Attended the AICTE Sponsored One-week Faculty Development Program on “Materials Characterization Techniques” organized by NITTTR, Chandigarh, From Dec 04 to Dec. 08, 2023.
7. Attended the AICTE Sponsored One-week Faculty Development Program on “STEM Teaching” organized by NITTTR, Chandigarh, From Dec 18 to Dec. 22, 2023.

SHORT TERM COURSE & TRAINING PROGRAMM:-

1. Attended the One-week Short-Term Course on “Practical Aspects of Optimization (PAO-2019)” organized by Department of Mechanical Engineering, Kamla Nehru Institute of Technology, Sultanpur from August 01 to 05, 2019.
2. Attended the AICTE Sponsored One-week Short Term Training Program on “Simulation Techniques for Engineering Research” organized by Department of Electronics Engineering, Kamla Nehru Institute of Technology, Sultanpur, from November 14 to 19, 2019.

WORKSHOP:-

1. Attended the One-Day Workshop on “Selection PhD Problem and Identification Research Gap” organized by organized by AKTU Lucknow, On Mach.30 2019.
2. Attended the One-Day Workshop on “Developing Scientific Paper Writing Skills and Research Ethics” organized by organized by AKTU Lucknow, On April.05, 2019.
3. Attended the One-week Workshop on “Mechatronics & instrumentation” organized by Department of Mechanical Engineering, Kamla Nehru Institute of Technology, Sultanpur from October 18 to 22, 2019.
4. Attended the One-week Workshop on “The Importance of technical words in Indian

technical education in Indian Languages “Organize by Govt of India (Commission for Scientific and Technical Terminology) at BBD Educational Groups, August 18 to 22, 2019.

ACHIEVEMENTS:-

1. **Smt. Nirmala Agrawal memorial Award for College Merit Holders from First Year to Final Year in B.Tech Program.**
2. **GATE-2013**(Graduate Aptitude Test in Engineering) Qualified.
3. **Awarded as Best Faculty** on 5th September 2018 **(BBD Educational Group, Lucknow).**

OTHER RESPONSIBILITIES:-

1. **Working as Training and Placement Coordinator** (From 2017 to 2023)
2. **Member of Proctorial Board** of BBD Educational Group (From 2017 to 2023)
3. **Worked as the Assistant Convenor of Sports** at BBD Educational Group, Lucknow.
4. **Member of Value Education Cell** BBDEC, Lucknow.
5. **Member of Examination cell** BBDEC, Lucknow.
6. **Expert Member** for Developing the **Curriculum Structure and Contents of Diploma Programs in Renewable Energy for UP State Board of Technical Education at IRDT, Kanpur** (Syllabus Committee Member).
7. **Appointed as an Observer** by Dr. A.P.J. Abdul Kalam Technical University (AKTU), Lucknow, for AKTU External Examinations.
8. **Served as a Jury Member for the State-Level Skill Competition 2026** organized by the Uttar Pradesh Skill Development Mission (UPSDM), Government of Uttar Pradesh, at ITI Campus, Aliganj, Lucknow.
9. **Worked as a Question Paper Moderator** at Dr. A.P.J. Abdul Kalam Technical University (AKTU), Lucknow.

Declaration:

I solemnly declare that the statement made by me in this form is correct to the best of my knowledge and belief.

Date:

Place: Lucknow

Dr. P. K.MALL

Assistant Professor

Mechanical Engineering Department

BBBDNIIT, LUCKNOW