

SANJEEV KUMAR LAMBHA



Official Address:

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Department of Mechanical Engineering
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Personal Profile

I am an enthusiastic and dedicated professional with experience in areas of Teaching and Learning in Machine Design (Mechanical Engineering). I can demonstrate a strong ability to manage different subjects varying from conceptual level to application levels. A proactive individual with a logical approach to challenges, I perform effectively even within a demanding environment.

Objective

I am now looking to progress within the research sector. I am therefore keen to find a new and suitably challenging role in a leading organisation; So that my abilities of hard work and dedication can flourish and can be used for the benefits of the organization. While working in a growing organization my knowledge, attitude of learning, adaptability, analytical approach and innovative mind can be used for a good advantage.

Academic Qualification

Degree	Institute/ Board	Year of Passing
PhD (Mechanical Engineering)	NIT Kurukshetra, Kurukshetra	2023
M.Tech, (Machine Design)	NIT Kurukshetra, Kurukshetra	2010
B.Tech, (Mechanical Engineering)	Galgotia's College of Engineering & Technology, Greater Noida	2008

12 th	B. M. S. S. School Ranipur Haridwar	2004
10 th	B. M. S. S. School Ranipur Haridwar	2001

Work Experience

- Incharge, Department of Mechanical Engineering, Faculty of Engineering and Technology, Gurukul Kangri University, From August 2022 to **till date**.
- Incharge, Department of Mechanical Engineering, Faculty of Engineering and Technology, Gurukul Kangri University, From October 20, 2010 to August 2021.
- Assistant Professor, Department of Mechanical Engineering, Faculty of Engineering and Technology, Gurukul Kangri University, From October 20, 2010 to till date.
- Visiting Faculty, Department of Mechanical Engineering, Faculty of Engineering and Technology, Gurukul Kangri University, From August 13 to October 19, 2014.

Subject Taken

- Fundamental of Mechanical Engineering,
- Engineering Drawing,
- Strength of Materials,
- Fluid Machines,
- Machine Drawing,
- Machine Design I & II
- Mechanical Vibration,
- Computer Aided Design,
- Machine Tool Design.
- Mechanical System Design

M.Tech. Dissertation Supervised

- Supervised Mr. Vikas Kumar Deshwal for his M. Tech. Dissertation entitled “A Study of Thermal Stresses in case of Different Functionally Graded Materials” from Utarakhand Technical University, Dehradun.
- Supervised Mr. Somdev Singh for his M. Tech. Dissertation entitled “Efficiency Variation Analysis of the Solar Air Heater in Cold Climate Zone” from Utarakhand Technical University, Dehradun.

Research Publications

- Vinod Kumar, Sanjeev Kumar Lambha, Rajiv Verma, “*Combined influence of a liner deformation and couple stresses on the partial bearing aspect ratios*” Advances in Science and Technology, Volume 159, 2024, Page 105-110.
- Sanjeev Lambha, Sanyam Sharma, Vinod Mittal, Rajiv Verma, “*Miropolar lubricant effects on the performance of partial journal bearings*” Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2023, p. 208-210.
- Sanjeev Kumar Lambha, Vinod Kumar, Rajiv Verma, “*Performance characteristics of a deformed 120-degree partial bearing with couple stress lubrication*” EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, 09(02), 2022, pp. 269-282

- Sanjeev Kumar Lambha, Vinod Kumar, Rajiv Verma, “*Impact of liner elasticity on couple stress lubricated partial bearing*” EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, 09(01), 2022, pp. 56-71
- Sanjeev Kumar Lambha, Vinod Kumar, Rajiv Verma, “*Effect of elastic deformation on partial arc bearing with couple stress lubrication*”, IOP Conf. Series: Material Science & Engineering, 2020, page 1-8.
- Sanjeev Kumar Lambha, Vinod Kumar, Rajiv Verma, “*Elastohydrodynamic analysis of couple stress lubricated cylindrical journal bearing*”, Journal of Physics-Conference Series, 2019, page 1-9.
- Vinod Kumar, Sanjeev Kumar Lambha, Rajiv Verma, “*Chaotic study of dynamic stability in spindle shaft using couple stress fluid*”, International Journal of Advances in Mechanical and Civil Engineering, volume 4, issue 3, 2017, page 21-25.
- Sanjeev Kumar Lambha, Rajiv Verma, Vinod Kumar, “*Bifurcation Analysis of Hydrodynamic plain journal bearing lubricated with couple stress fluid*”, International Journal of Advance Engineering and Research Development, Volume 3, Issue 3, 2016, Page 487-494.
- Sanjeev Kumar Lambha, Rajiv Verma, Vinod Kumar, “*Chaos and Bifurcation Analysis of a Flexible Rotor supported by couple stress fluid film bearing*”, Proceedings of NSRD-2016, NIT Rourkela, 2016, Page 05-10.

Workshops/Short term course Attended

- One-week Online Training Program on “*NBA Accreditation*” organized by NITTTR Chennai from 20.09.2021 to 24.09.2021.
- One-week Online Training Program on “*Developing Professional Attributes for OBE Curriculum*” organized by NITTTR Chennai from 13.09.2021 to 17.09.2021.
- AICTE Training and Learning (ATAL) Academy online FDP on “*Tribology in Design and manufacturing*” organized by ATAL Academy at *Indian Institute of Technology Jammu* from 23.11.2020 to 27.11.2020.
- AICTE Training and Learning (ATAL) Academy online FDP on “*Sustainability Engineering*” organized by ATAL Academy at *Kongu Engineering College* from 07.09.2020 to 11.09.2020.
- 05 Days online certification program on “*Industrial IOT*” by *AGIMUS Technologies* from May 19, 2020 to May 23, 2020.
- Refresher course on “*Emerging Issues in Information Technology (Interdisciplinary)*” conducted by UGC-HRDC, GJUS&T during October 05-24, 2015 Guru Jambheshwar University of Science & Technology, Hisar.
- Popular Science Lecture (Theme: Waste Water Treatment) organized by Uttarakhand Science Education and Research Centre (USERC), Dehradun in association with UCOST
- Orientation Programme OP-26 conducted by UGC-Academic Staff College Kumaun University Nainital during April 01-28, 2014 held at Hermitage Kumaun University Nainital, Nainital.
- Short Term Course on “*Small Hydro Power Development*” conducted by Alternate Hydro Energy Centre (AHEC) during at AHEC IIT Roorkee.
- QIP Short Term Course on “*How to Promote Innovation and IP in HEIS*” conducted by Indian Institute of Technology, Roorkee during February 3-7, 2014 at IIT, Roorkee.
- Workshop on “*Paper Conversion*” organized by Multi Disciplinary Training Centre, Khadi & Village Industries Commission, Ministry of Micro, Small & Medium Enterprises, Govt of India held at Faculty of Engineering and Technology, Gurukula Kangri Vishwavidyalaya, Haridwar during March 16 – 25, 2013.

- Workshop on “Automobile Mechanics & IC Engine Design” organized by Horizon (A unit of MBS Group) during October 14-15, 2012 held at Faculty of Engineering & Technology Gurukula Kangri Vishwavidyalaya, Haridwar.
- Workshop on “Scientific Computing Theory & Practices” organized by Department of Applied Mathematics, Faculty of Engineering & Technology, Gurukul Kangri Vishwavidyalaya, Haridwar during October 08-13, 2012.

National/ International Conferences Attended

- International Webinar on “Science & Technology for Sustainable Development” organized by The Indian Science Congress Association Kanpur Chapter and DAV College Kanpur on September 19, 2020.
- National Webinar on “Modern methods for remote teaching – learning practices” organized by Faculty of Engineering & Technology in association with SWAYAM-NPTEL committee GKV Haridwar on May 25 2020.
- National Conference on Science & Technology for Indigenous Development in India” jointly organized by The Indian Science Congress Association: Haridwar Chapter and Faculty of Engg. & Tech., Gurukula Kangri University, Haridwar on September 28-30, 2015 held at Faculty of Engineering & Technology, Gurukula Kangri Vishwavidyalaya, Haridwar.
- National Conference on “Science & Technology for Human Development” jointly organized by The Indian Science Congress Association: Haridwar Chapter and Department of Ancient Indian History, Culture & Archaeology, Gurukul Kangri University, Haridwar 249 404, Uttarakhand on March 20-21, 2015.
- National Symposium on “Technovations for Inclusive Human Development” organized by The Indian Science Congress Association: Haridwar Chapter, on October 12, 2014 held at Faculty of Engineering & Technology, Gurukula Kangri Vishwavidyalaya, Haridwar.
- 39th National Symposium on “Instrumentation” jointly organized by Indian Society of Instrumentation (ISOI) & Gurukula Kangri Vishwavidyalaya on October 15-17, 2014 held at Faculty of Engineering & Technology, Gurukula Kangri Vishwavidyalaya, Haridwar.
- National Conference on “Innovations in Science and Technology for Inclusive Development” jointly organized by The Indian Science Congress Association: Haridwar Chapter & Department of Chemistry, Ch. Charan Singh University, Meerut during March 22-23, 2014 at CCSU, Meerut.
- 3rd National Conference on “Advances in Chemical and Environmental Sciences” jointly organized by The Indian Science Congress Association: Haridwar Chapter & Department of Chemistry, Arya P. G. College, Panipat, Haryana during February 27-28, 2014.
- National Symposium on “Innovations in Science & Technology for Inclusive Development” organized by Indian Science Congress, Haridwar Chapter on February 16, 2014
- National Conference on “Emerging Trends in Engineering & Sciences” (ETES-2013) organized by Department of Mechanical Engineering, Faculty of Engineering and Technology, Gurukul Kangri University, Haridwar during November 9 – 10, 2013.
- National Conference on “Progres in Electronics & Allied Sciences” organized by Faculty of Engineering & Technology on November 03-04, 2012.
- International Conference “Green Technologies for Environmental Rehabilitation” at Faculty of Engineering and Technology, Gurukul Kangri Vishwavidyalaya, Haridwar during 11 – 13 February, 2012.
- National Seminar on “Innovations & Applications in Engineering and Applied Sciences” at Faculty of Engineering and Technology, Gurukul Kangri Vishwavidyalaya, Haridwar during 9th – 10th November, 2011.

Invited Lectures

- Presented an **Invited Talk** on topic “*Career Opportunities in Government Sector-Challenges & Solution*” in Roorkee Degree College, Roorkee on October 17, 2021.
- Presented an **Invited Talk** on topic entitled “*Scientific Innovations and their impact for society*” in National Conference on “Science Congress for the Upliftment of Common Men” organized by The Indian Science Congress Association: Haridwar Chapter on March 21, 2021.
- Presented an **Invited talk** on topic entitled “*Mechanical Vibration*” in the Department of Mechanical Engineering, Quantum University Roorkee.
- Presented an **Invited Talk** on topic entitled “*Design & Analysis of Bearing Spindles with Rotating Shafts*” in National Conference on “*Innovations in Science & Technology for Inclusive Development*” jointly organized by The Indian Science Congress Association: Haridwar Chapter and Department of Chemistry, Ch. Charan Singh University, Meerut (U.P.) on March 22-23, 2014.
- Presented an **Invited Talk** on the topic “*Rheological Behaviour of Journal Bearing*” in the National Conference on Science and Technology for Indigenous Development in India organized by The Indian Science Congress Association: Haridwar Chapter in the session 2015-2016.
- Presented an **Invited Talk** on the topic “*Bifurcation study in Rotordynamics*” in the National Conference on Science and Technology for Indigenous Development in India organized by The Indian Science Congress Association: Haridwar Chapter in the session 2015-2016.
- Presented an **Invited Talk** on the topic “*Stress management in Human Life*” in the National Conference on ‘*Science and Technology for Human Development*’ organized by The Indian Science Congress Association: Haridwar Chapter in the session 2014-2015.
- Presented an **Invited Talk** on the topic “*Fundamental Human rights for technological development*” in the National Conference on ‘*Science and Technology for Human Development*’ organized by The Indian Science Congress Association: Haridwar Chapter in the session 2014-2015.
- Presented an **Invited Talk** on the topic “*Technology v/s Human being*” in the Regional Symposium on ‘*Technovations for Inclusive Human Development*’ organized by The Indian Science Congress Association: Haridwar Chapter in the session 2014-2015.
- Presented an **Invited Talk** on the topic “*Design & Analysis of Bearing Spindles with Rotating shafts*” in the National Conference on ‘*Innovations in Science and Technology for Inclusive Development*’ organized by The Indian Science Congress Association: Haridwar Chapter at CCSU Meerut in the session 2013-2014.

Papers Presented in National/ International Conferences

- Paper presented on “*Effect of elastic deformation on partial arc bearing with couple stress lubrication*”, in 8th International Symposium on Fusion of Science and Technology organized at Faridabad on January 06-10, 2020.
- Paper presented on “*Elastohydrodynamic analysis of couple stress lubricated cylindrical journal bearing*” in a National conference on Reaching the unreached through Science & Technology, organized by The Indian Science Congress Association: Haridwar Chapter at Kumaun University Nainital on October 14-15, 2017.
- Presented a paper entitled “*Effect of Thermal and Elastic deformations in performance of Journal Bearing*” in a National conference on Future India: Science & Technology, organized by The Indian Science Congress Association: Haridwar Chapter at G. B. Pant University of Agriculture Technology, Pantnagar on October 13-14, 2018.

- Paper presented on “*Bearing as a key element in rotordynamics*” in a National conference on Reaching the unreached through Science & Technology, organized by The Indian Science Congress Association: Haridwar Chapter at Kumaun University Nainital on October 14-15, 2017.
- Paper presented on “*Study of dynamic characteristics for a couple stress lubricated hydrodynamic plain journal bearing*” in a National conference on Recent Advances in Mechanical Engineering, organized by National Institute of Technology Kurukshetra during June02-03, 2017.
- Presented a paper entitled “*Chaotic study of dynamic stability in spindle shaft using couple stress fluid as lubricant*” in an international conference on Science, Technology, Engineering and Management organized at Las Vegas, USA on March 16-17, 2017.
- Presented a paper entitled “Study of Factors Responsible for Global Warming in Haridwar” in National Conference on “Advances in Chemical & Environmental Sciences” jointly organized by The Indian Science Congress Association: Haridwar Chapter and Arya P. G. College, Panipat on February 27-28, 2014.
- Presented a paper entitled “Simulation of DC Drives for Motion Control Selection & Application” in National Conference on “Innovations in Science & Technology for Inclusive Development” organized by The Indian Science Congress Association: Haridwar Chapter on February 16, 2014.
- Presented a paper entitled “Stability Analysis of Plain short Circular Journal Bearing” in National Conference on “Innovations in Science & Technology for Inclusive Development” organized by The Indian Science Congress Association: Haridwar Chapter on February 16, 2014.
- Presented a paper entitled “An Experimental Investigation on BioDiesel using Waste Veg Oil” in National Conference on “Emerging Trends in Engineering & Sciences” organized by Department of Mechanical Engineering Faculty of Engineering & Technology, Gurukula Kangri Vishwavidyalaya, Haridwar on November 09-10, 2013.
- Presented a paper entitled “Bifurcation Analysis of Plain Hydrodynamic Journal Bearing Lubricated with Coupled stress fluid” in National Seminar on “Innovations and Applications in Engineering & Applied Sciences” organized by Faculty of Engineering & Technology, Gurukula Kangri Vishwavidyalaya, Haridwar on November 09-10, 2011.

Membership of Professional Bodies

- **Convener** of The Indian Science Congress Association: Haridwar Chapter (2019-20 to till date).
- **Treasurer** of The Indian Science Congress Association: Haridwar Chapter (2013-14 to 2018-19).
- Life Time Member of “The Indian Science Congress Association” membership no. L22529 from August 01, 2013.
- Member of American Society of Mechanical Engineering(ASME)
- Member of The Indian Association of Engineers.

Project Work

- “Bifurcation Analysis of Plain Hydrodynamic Journal Bearing” – M. Tech Dissertation.
- “Submerged Arc Welding Machine Model and its Interfacing with Programming” – Major Project in B.Tech.

Training

- Participated in an online training program on *CAD modelling for finite element analysis* conducted by Entuple Technologies on May 22, 2020.
- Participated in an online training program on *Introduction to Ansys Workbench* conducted by Entuple Technologies on May 21, 2020.
- Vocational Training in Bharat Heavy Electricals Limited Haridwar after B.Tech. II year & III year.

Computer Exposure

- **Programming in Computer Languages:** Matlab, Catia, ProE
- **Operating systems:** WIN VISTA, WIN 7, WIN 8, WIN 10, WIN 11

Extra Curricular Activities

- Coordinated as a **Coordinator** the *ATAL Online Faculty Development Program on Alternate Fuels* under ATAL Academy of AICTE from 21.09.2020 to 25.09.2020.
- Coordinated as **Coordinator** the Lathe Operator Course under Pradhan Mantri Kaushal Vikas Yojna (PMKVY) sanctioned by AICTE in session 2017-18.
- Worked as the **Organizing Secretary** of National Symposium on “Technovations for Inclusive Human Development” organized by The Indian Science Congress Association: Haridwar Chapter on October 12, 2014.
- Worked as **Member of Organizing Committee** in National Conference on Progress in Electronics & Allied Sciences organized by Department of Electronics & Communication Engineering, Faculty of Engineering & Technology, Gurukula Kangri Vishwavidyalaya, Haridwar on November 3-4, 2012
- Worked as **Member of Organizing Committee** in One Day National Conference on Innovations in Science & Technology for Inclusive Development organized by Indian Science Congress, Haridwar Chapter on February 16, 2014 held at Department of Zoology & Environmental Sciences, Gurukula Kangri Vishwavidyalaya, Haridwar.
- Worked as the **Organizing Secretary** of National Conference on Emerging Trends in Engineering & Sciences organized by Department of Mechanical Engineering, Faculty of Engineering & Technology, Gurukula Kangri Vishwavidyalaya, Haridwar during November 09-10, 2013
- Worked in **organising committee** in International Conference on Green Technologies for Environmental Rehabilitation (GTER-2012), during 11th – 13th February, 2012 organized by Faculty of Engineering and Technology, Gurukul Kangri Vishwavidyalaya, Haridwar
- Worked in **organising committee** in National Seminar on Innovations & Applications in Engineering and Applied Sciences IAEAS- 2011 during 9th – 10th November, 2011 organized by Faculty of Engineering and Technology, Gurukul Kangri Vishwavidyalaya, Haridwar
- Worked as a organizer for the cultural events in “JNANAGNI 2011”
- Worked as a **organizing secretary** of the cultural events in “JNANAGNI 2018”

Hobbies

- Teaching and learning.
- Surfing internet for New Technology and Updates.
- Reading books.

Personal Details

Father's Name	Mr. Tilak Ram Lambha
Date of Birth	17-02-1986
Marital Status	Married
Sex	Male
Languages Known	English, Hindi

Place: Haridwar

(Sanjeev Kumar Lambha)