

Welcome To Vibration Research Lab

ABOUT US

Welcome to the Vibration Research Lab at the Department of Mechanical Engineering, Indian Institute of Technology Delhi (IIT Delhi). Our lab is dedicated to the exploration and advancement of vibrations in mechanical systems, encompassing a diverse array of research areas within the realm of vibration engineering. Led by esteemed faculty members and supported by a team of passionate researchers, our lab conducts cutting-edge experiments and investigations to unravel the complexities of vibrations and their applications. Through experimental studies, analytical modeling, and computational simulations, we delve into various aspects of structural dynamics, vibration control, modal analysis, condition monitoring, and vibration-based energy harvesting. Our research efforts extend beyond theoretical frameworks, as we actively engage in practical experiments to validate theories, test novel methodologies, and develop innovative solutions for real-world challenges. By leveraging state-of-the-art equipment and facilities, including vibration shakers, modal testing setups, and advanced instrumentation, we conduct comprehensive experiments to characterize the dynamic behavior of mechanical systems under different operating conditions. These experiments enable us to gain insights into the fundamental principles governing vibrations, identify performance limitations, optimize system designs, and mitigate potential risks associated with vibration-induced failures. Furthermore, our lab serves as a collaborative platform, fostering partnerships with industry stakeholders, academic institutions, and research organizations to address interdisciplinary challenges and drive technological advancements in vibration engineering. Through our dedication to research excellence, education, and innovation, we aim to make significant contributions to the field of mechanical vibrations and inspire future generations of engineers and researchers. Explore our website to learn more about our research projects, experimental capabilities, publications, and the impactful work being carried out at the Vibration Research Lab at IIT Delhi.

NEWS & EVENTS



Last Meeting Highlights

May 31, 2024

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**Position open in lab for the
interested students**

May 04, 2024

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GET CONNECTED



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