



Virtual Labs

by IIT Delhi at **Our University**

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Introduction to Virtual Labs

Virtual Labs, an initiative by IIT Delhi under the Ministry of Education, Government of India, aims to provide remote access to laboratory-based experiments across various engineering and science disciplines. This initiative enhances learning by enabling students to perform experiments in a virtual environment, reducing dependence on physical infrastructure while maintaining high educational standards. Our university has embraced this initiative, allowing students to benefit from cutting-edge virtual laboratory experiences.

Nodal Center for Virtual Labs

Our university has been designated as a Nodal Center for Virtual Labs, serving as a key hub for implementing and expanding this initiative. The Nodal Center acts as a bridge between IIT Delhi and students, providing seamless access to virtual experiments and ensuring effective utilization of digital laboratory resources.

Key Functions of the Nodal Center

- Facilitating training sessions and awareness programs for students and faculty members.
- Coordinating with IIT Delhi for technical support and updates on new virtual experiments.
- Integrating Virtual Labs into the university's academic curriculum.
- Conducting workshops, webinars, and hands-on sessions to enhance virtual learning experiences.
- Providing assistance and guidance to students for effectively using Virtual Labs.

Nodal Coordinator: Dr. Ankur Kulshreshtha

Role in Virtual Labs Implementation

As the Nodal Coordinator, has been instrumental in establishing and promoting Virtual Labs at our university. His responsibilities include:

- Coordinating with IIT Delhi to ensure smooth implementation of Virtual Labs.
- Conducting training sessions and workshops for faculty and students to maximize the benefits of virtual experimentation.
- Facilitating seamless integration of Virtual Labs into academic courses.
- Promoting interdisciplinary learning and research through virtual simulations.
- Encouraging students to actively engage in hands-on virtual experimentation to enhance conceptual understanding.

Under the guidance of Nodal Coordinator, the adoption of Virtual Labs at our university has led to improved student engagement, better accessibility to experimental learning, and the development of practical skills without the constraints of physical laboratories. Looking ahead, he aims to expand the scope of Virtual Labs, introduce more advanced simulations, and collaborate with industry experts to enhance experiential learning.



➤ **Impact
and
Future Goals**



Conclusion ←

The Virtual Labs initiative, spearheaded by IIT Delhi and championed by our university's Nodal Center, stands as a transformative step toward digital education. Through this program, students gain hands-on experience in a virtual environment, bridging the gap between theoretical knowledge and practical application. With continuous efforts, our university remains committed to leveraging Virtual Labs for academic excellence and innovation.

visit:  www.vlab.co.in



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