



ACTIVITY REPORT

ONE DAY WORKSHOP ON VIRTUAL LABS

Event Details

Event Title

One Day Workshop on Virtual Labs

Organized By

Deptt of Physics, NSCBM Govt. College Hamirpur

Sponsored By

IIT Delhi (An MoE Govt of India Initiative)

Date & Time

December 09, 2025, 10:00 am Onwards

Venue

Conference Hall, NSCBM Govt. College Hamirpur

Resource Persons

1. Mr. Shani Kumar, Senior Executive Trainer, Virtual Labs, IIT Delhi
2. Mr. Ubaid Mushtaq Najar, Senior Executive Engineer, Virtual Labs IIT Delhi

Information

1. Introduction and Objectives

The Department of Physics, NSCBM Govt. College Hamirpur, organized a One Day Workshop on "Virtual Labs" on December 09, 2025. The workshop was conducted in collaboration with IIT Delhi as part of the Ministry of Education (MoE), Government of India initiative.

The primary objective of the workshop was to introduce students and faculty to the concept of Virtual Laboratories : an innovative tool that allows for remote experimentation, simulation, and 24/7 access to high-quality laboratory resources, bridging the gap between physical infrastructure and digital learning.

IIT Delhi
Indian Institute of Technology Delhi

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Senior Executive Trainer
Virtual lab IIT Delhi

Ubaid Mushtaq Najar
Senior Executive Engineer
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Virtual Labs
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2. Event Proceedings

The event began at 10:00 AM in the Conference Hall with a formal welcome of the resource team from IIT Delhi.

Inaugural Session

The workshop was inaugurated by Dr. Satish Soni, who emphasized the importance of blending traditional learning with modern digital tools. The dignitaries highlighted how Virtual Labs can democratize access to quality education.

Technical Sessions

The technical sessions were led by the expert team from IIT Delhi:

- Session 1: Introduction to Virtual Labs (Mr. Shani Kumar) Mr. Shani Kumar, Senior Executive Trainer, introduced the Virtual Labs portal. He demonstrated the user interface, explaining how students can access various experiments across different disciplines. He highlighted the "Learning Management System" aspect, where students can perform experiments, record data, and analyze results virtually.
- Session 2: Hands-on Demonstration & Engineering Aspects (Mr. Ubaid Mushtaq Najar) Mr. Ubaid Mushtaq Najar, Senior Executive Engineer, conducted a technical walkthrough of specific physics and electronics experiments. He explained the backend engineering that powers these simulations and guided the students on how to perform complex experiments that might be difficult or expensive to replicate in a physical lab.



3. Conclusion and Outcomes

The workshop was highly effective in upgrading the technical skills of the students.

- Skill Enhancement: Participants gained practical knowledge on how to utilize the Virtual Labs platform for their regular studies and practical files.
- Resource Access: Students learned how to access premier lab resources from IIT Delhi from the comfort of their homes.
- Digital Literacy: The event successfully promoted digital literacy and self-reliant learning among the students.

The session concluded with a Vote of Thanks and the distribution of certificates/participation acknowledgment to the attendees.





ACKNOWLEDGEMENT

On behalf of the Department of Physics, I would like to place on record our sincere appreciation for everyone who made this event possible.

We are deeply grateful to IIT Delhi and the Virtual Labs team for sponsoring this workshop and sharing their expertise with us. Special thanks to Mr. Shani Kumar and Mr. Ubaid Mushtaq Najar for their patience and excellent training methodology.

I thank all the students and faculty participants who attended the workshop with great enthusiasm, making the event interactive and successful.

Report Compiled By:
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