



IIT Delhi

Indian Institute of Technology Delhi

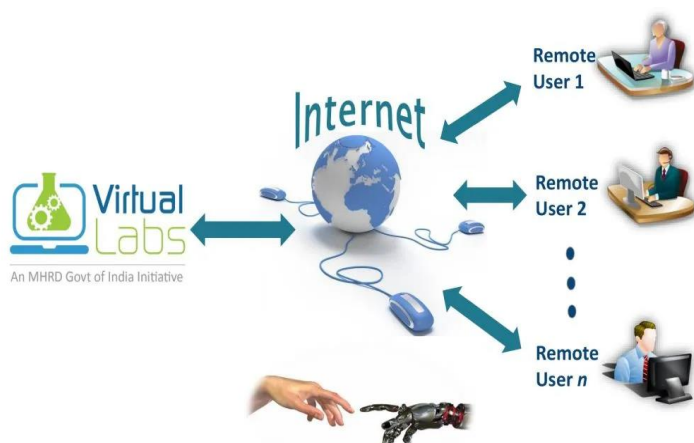
## STATE LEVEL WORKSHOP ON VIRTUAL LABS (14<sup>th</sup> -15<sup>th</sup> JUNE 2024)

### INTRODUCTION & PROGRAM SCHEDULE

With the growing population and availability of the Information and Communication Technologies (ICT), web- based teaching is adopted in education these days, especially in the last couple of years of deadly pandemic. Virtual Labs, a Mission Project developed under the aegis of National Mission on Education through Information and Communication

Technology (NMEICT). In NMEICT, MoE, are the web tools for education that acts as an alternative to the physical laboratories. Virtual labs are an online learning system where students can access and perform their laboratory work on software applications which are virtually installed. Using these labs, students can avail of various tools of learning like additional web resources, video-lectures, animated demonstration, and self-evolution. Virtual labs have been designed to provide remote access to labs at the undergraduate level, postgraduate level and for the research scholar in various disciplines of science and engineering. The virtual labs are being jointly developed by IIT Delhi,

IIT Bombay, IIT Guwahati, IIT Kharagpur, IIT Roorkee, IIT Kanpur, IIIT Hyderabad, College of Engineering Pune, Dayalbagh University Agra, NITK Surathkal and Amrita University Coimbatore. IIT Delhi is the coordinating Institute.



### OBJECTIVES OF THE WORKSHOP

- To understand the concept of Virtual Labs developed by all IITs and other participating institute for remote experimentation. To arouse the curiosity of the students and permit them to learn at their own pace and in their own time through remote experimentation. This would enhance their basic and advanced concepts of the subject.
- To provide Hands-On experience on Virtual Labs related to various disciplines of Engineering and Sciences.

### BENEFITS OF USING VIRTUAL LABS

- Virtual Labs are free to use.
- Developed in Self Learning mode.
- Includes many Innovative experiments.
- Over 120 Virtual Labs be accessed through
- Accessible even on Smartphone/Tablet

**Limited Seats: Participation is First Cum First Serve**  
(For Complete details: check Brochure at <http://gdcnb.org/>)

Registration Link: <https://forms.gle/G9476bLdoZJPQFZCA>

**Contact person:** Dr. Manish Sharma (8629000115), Nodal Coordinator Government Degree College Nagrota Bagwan,  
&  
Virtual Labs Team, Indian Institute of Technology Delh

Virtual Labs, IIT Delhi in Collaboration with Government Degree College Nagrota Bagwan, HP, invites you to the very First State Level Workshop on Virtual Labs in Himachal Pradesh. Our Nodal Centre at GCNB, Himachal Pradesh, is using Virtual Labs for various courses of applied science and computer applications like, Physics, Chemistry, Environment Science Electronics and Computer Science.

**Organized by: Government Degree College Nagrota Bagwan, HP 176047**

**In association with**

**Virtual Labs Team, IIT Delhi, Hauz Khas New Delhi-110016**

## Program Schedule (DAY 1)

14<sup>th</sup> June 2024

(Participants -Faculty of Science from Degree Colleges only)

Registration/High Tea	9:00am-10:00am	Entrance Main Building
Inauguration	10:00 am-10:30am	Chief Patron Address & Program Introduction
<b>Technical Session I</b>		
Introduction of virtual Lab to Science Faculty	10:30am-11:00am	Keynote Speaker from IIT Delhi
<b>Technical Session II</b>		
Demo of Virtual Lab	11:00am-12:00pm	Virtual lab team ,IIT Delhi
Tea Break(12:00pm-12:30 pm)		
<b>Technical Session III</b>		
Hands on Session (In coordination with Virtual Labs Team, IIT Delhi & Technical Assistance Team Host College)	12:30pm-2:00pm	1. Learning Physical Sciences through Vlabs 2. Learning Chemical Sciences through Vlabs 3. Learning Life Sciences through Vlabs & Others
Lunch Break (2:00pm-2:45 pm)		
Closing(Day1)	2:45 pm -3:15pm	Music, Feedback & Distribution of Certificates National Anthem & Group Photograph

## Program Schedule (DAY 2)

15<sup>th</sup> June 2024

(Participants -Faculty of Engineering, Polytechnic, BCA & Host College only)

Registration/High Tea	9:00am-10:00am	Entrance Main Building
Inauguration	10:00 am-10:30 am	Chief Patron Address & Program Introduction
<b>Technical Session I</b>		
Introduction of virtual Labs to Engineers & Others	10:30am-11:00am	Keynote Speaker from IIT Delhi
<b>Technical Session II</b>		
Demo of Virtual Lab	11:00am-12:00pm	Virtual lab team ,IIT Delhi
Tea Break(12:00pm-12:30 pm)		
<b>Technical Session III</b>		
Hands on Session (In coordination with Virtual Labs Team, IIT Delhi & Technical Assistance Team Host College )	12:30pm-2:00pm	Learning Computer Sciences through Vlabs Learning Mechanical Engg. through Vlabs Learning Electronics Engg. through Vlabs Learning Simple Experiments through Vlabs & Others
Lunch Break (2:00pm-2:45 pm)		
Valedictory Function	2:45 pm -3:15pm	Feedback ,Distribution of Certificates Vote of Thanks National Anthem & Group Photograph