REPORT
ON
AWARENESS ON VIRTUAL LAB AND ITS APPLICATIONS
ORGANIZED BY:
SETH GYANIRAM BANSIDHAR PODAR COLLEGE NAWALGARH
In Collaboration WITH
IIT KANPUR

DATE: 02/04/2024   **TIMINGS: 11:00 AM**

A one-day workshop on "**report on awareness on virtual lab and its applications**" is organized on for the Faculty member on 02/04/2024.

The main Aim of the workshop is to bring the awareness on the Virtual Lab and utilization in the regular curriculum and to provide a complete Learning Management System for laboratory education where the teaching and learning experience is enriched through simulations, additional web resources, video lectures, animated demonstrations, and tools. The workshop is inaugurated by Dr. Rajendra Kumar, COO and Dr. Satyendra Singh, Principal Seth Gyaniram Bansidhar Podar College, Nawalgarh & Nodal Coordinator of Virtual Lab.

91 Students including faculty members participated in the workshop. The Workshop Convener Dr. Nand Kumar Mishra, in his welcome address emphasized on the importance of conducting such a workshop and described the theme of the workshop along with programme details.

The workshop was conducted online methodology used was live demonstration of Virtual Lab experiments from main virtual lab website.

Mrs. SumanTripathi, Senior Project Associate, Virtual Lab, IIT Kanpur, **U.P**, of Virtual Labs at IIT Kanpur Keynote Speaker discussed basic idea, objectives, and types of virtual labs. She also demonstrated practically the function of virtual labs in different discipline.

She said that with simulated experiments students get a real feel of practical problems through remote access. She also insisted the Faculty to go through the experiments of the V-labs before conducting the experiment in the physical lab. This will bring a better understanding and the deep learning among the concepts learnt. She also informed the faculty members to use the virtual labs not only for the lab component but also this can be used to substitute the theory concepts learnt in the few of the courses in the regular curriculum.

She demonstrated various experiments from Computer Sciences then provided a training starting from how to open the corresponding website to access a particular experiment, describing in detail each step. She illustrated in detail several experiments.
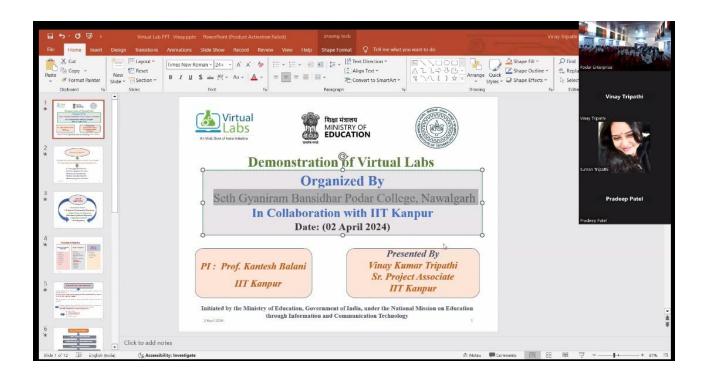

Mrs. SumanTripathi, demonstrating the experiments during the workshop

Later the session was addressed by **Mr. Vinay Kumar Tripathi, Senior Project Associate Virtual Lab, IIT Kanpur, U.P,** and of Virtual Labs at IIT Kanpur and Keynote Speaker. He demonstrated various experiments from Biotechnology & Biomedical Engineering, he delivered the demonstration on Biochemistry Virtual Lab. he conducted experimental demonstration on isoelectric precipitation of casein present in the milk, Test to determine isoelectric precipitation of casein present in milk of a given specimen and demonstration on Cell biology Virtual Lab I & Molecular BiologyVirtual Lab I.

Mr. Vinay Kumar Tripathi demonstrating the experiments during the workshop

Mr. Vinay Kumar Tripathi demonstrating the experiments during the workshop

The workshop, with its topic of extreme relevance found great interest among the Students and teachers, which was reflected very much in the number of participants in the workshop.

Outcomes:

➤ Fundamental knowledge on handling of virtual lab in online platform was learnt.

➤ Virtual laboratory is a media that can provide direct experimental visualizations, interactive virtual environment, and practical experimentation, to do experiments more efficiently.

➤ Learning by using a virtual laboratory can also be done anywhere and anytime without taking the class lessons.

Number of Student's and Faculty member enrolled for the One-day Workshop onVirtual labs

Attendance Sheet

Workshop Title : AWARENESS ON VIRTUAL LAB AND ITS APPLICATIONS
Institute Name : SETH GYANIRAM BANSIDHAR PODAR COLLEGE
Address : Nawalgarh, Jhunjhunu, Rajasthan, 333042
Date & Time : 02-April, 2024
Organizer Name : Dr. Nand Kumar Mishra

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Conduct of Workshop on May 02-April, 2024, Seth Gyaniram Bansidhar Podar College, Nawalgarh was indeed a successful conclusion of dissemination of

V-Labs

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Nodal Coordinator, Virtual Lab
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