

"Making Virtual Labs a Meaningful Learning Experience"

Sponsored by IIT, Delhi

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IIT- Delhi



An MHRD Govt of India Initiative

STATE LEVEL WORKSHOP

ON

VIRTUAL LABS

28 February, 2017



Jaypee University of Information
Technology, Wagnaghat-173234

State Nodal Centre, Himachal Pradesh



An MHRD Government of INDIA Initiative

Introduction

Physical distances and the limited availability of resources often put restrictions on conducting experiments, especially when they involve sophisticated instruments. Virtual Labs have been designed to provide remote access to Labs in various disciplines of Science and Engineering. These Virtual Labs would cater to students at the undergraduate level, postgraduate level as well as to research scholar. Virtual Labs enable the students to learn at their own pace, and enthuse them to conduct experiments by arousing their curiosity. Virtual Labs also provide a complete learning management system where the students can avail various tools for learning, including additional web-resources, video-lectures, animated demonstration and self-evaluation. The Virtual Labs can be used to complement physical Labs. Virtual Lab enables the user to perform experiments remotely as an on-demand service over the web. 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.

Objective of the workshop

- To understand the concept of Virtual Labs developed by all IITs and other Participating Institute for remote experimentation.
- To gain hands-on experience on Virtual Labs related to ECE, CSE, EE, Applied Sciences.

Benefits for the Colleges using Virtual Labs

- Access to all Virtual Labs for remote experimentations.
- Training to staff and students for using Virtual Labs.
- Regular updates and feedback on Virtual Labs developments and events.
- Providing technical knowledge regarding how to develop your own Virtual Labs experiment for its world-wise usage.
- Visits by Virtual Lab experts when requested.
- Providing technical support on phone/ e-mail for sorting out the difficulties faced while carrying out remote experiments.
- No registration fee will be charged.

Virtual Labs, IIT Delhi with Jaypee University of Information Technology invite you for making Virtual Labs a meaningful learning experience for professional education schedule for centralized State-Level Workshop on Virtual Labs in Himachal Pradesh .

Nodal Institute

Jaypee University of Information Technology, Wagnaghat as the Nodal Center has undertaken the following:

- *Using Virtual Labs for Engineering, bio metrics, Bio technology .*
- *Integration of Virtual Labs with curriculum.*
- *Conduct of state level workshop for institute of the region.*
- *Plans to create virtual labs in field of Bio-technology.*

28 February, 2017

Session	Participation	Time
Registration / Welcome Tea	Local Subject Coordinators	10:00-10:30
Inauguration / Introduction To Virtual labs	IIT-Delhi Representatives, Participants, Invited Dignitaries	10:30-11:30
Tea / Snacks		11:30-12:00
Demonstration Of Experiments		12:00-13:30
LUNCH BREAK		13:30-14:30

Parallel hands on Sessions/Query Session

DEMO - I (CSE / IT)	Participants from different Collages, virtual Lab Mentors from IIT-Delhi	14:30-15:30
DEMO -- II (ECE / EE)		
DEMO - III (APPLIED SCIENCE)		
Certificate Distribution	IIT-Delhi Representatives, Participants, Invited Dignitaries	15:30-16:00
Closing Tea / Closing Ceremony		16:00 - 16:30

Venue: Jaypee University of Information Technology, Wagnaghat-173234

Date : 28 February, 2017