2-DAY WORKSHOP
ON
VIRTUAL LABS

9-10 Nov., 2020
Uttarakhand Open University, Haldwani

The focus of this workshop is on creating awareness about Virtual Labs for internet-based remote experimentation and enabling faculty to use Virtual Labs and to integrate them effectively in teaching practice.

Registration Link: https://forms.gle/zyyU1yBwS4uHGVsF6

Organized by

School of Computer Science & IT
In collaboration with
Commonwealth Educational Media Centre for Asia, New Delhi

Key Persons for the Workshop

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2-Day Workshop
on
Virtual Labs

ANCHOR AND HOST BY
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PROGRAM DETAILS	
DAY/TIME (IST)	TOPICS
November 9, 2020 [11: 00 AM – 11:40 AM]	Inaugural Session and Overview of Virtual Labs
November 9, 2020 [11:40 AM – 12:45 PM]	Demonstration of experiments
November 9, 2020 [12:45 PM - 01:00 PM]	Question & Answer session
November 10, 2020 [11:00 AM – 12:15 PM]	Demonstration of experiments
November 10, 2020 [12:15 PM - 12:40 PM]	Teaching and learning with Virtual Labs: Sharing of insights
November 10, 2020 [12:40 PM - 01:00 PM]	Concluding session

Workshop Modality:
This workshop will be held on 9th and 10th November 2020. The live sessions will be conducted from 11.00 am to 1.00 pm using videoconferencing technology. In addition to the synchronous online sessions, participants would be encouraged to explore virtual labs and share comments and queries in the asynchronous mode through WhatsApp.
CONTACT PERSONS

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Background and Need

Virtual Labs is an initiative of the Ministry of Human Resource Development (MHRD) now Ministry of Education) under the National Mission on Education through ICT (NMEICT). This initiative provides remote access to labs in various science and engineering disciplines at the undergraduate, post graduate level and research scholar levels.

One of the challenges in science and engineering education in our country is that access to costly lab equipment is constrained by lack of resources and geographical distances. Virtual Labs can provide an alternative to traditional hands-on labs where labs are not present or augment existing access to labs and experiments. Thus, Virtual Labs can extend the use of scarce or costly equipment.

Another challenge is how to improve the quality of the teaching and learning experience. Virtual Labs can play an important role in this regard as they allow students to engage with interactive simulators to perform experiments remotely. The aim is to provide a complete Learning Management System where the teaching and learning experience is enriched through simulations, additional web resources, video lectures, animated demonstrations, and tools for self-evaluation. Through sharing of knowledge, data, tools, and many other resources, Virtual Labs provide an environment to enhance the teaching and learning of many subjects in science and engineering.

There is, therefore, an urgent need for effective deployment, use, and integration of Virtual Labs into curricula. Further, during this time of educational disruption, it is critical that students continue to learn through laboratory experiments online through virtual labs. Recognizing this need, CEMCA is organizing a two-day workshop on Virtual Labs for faculty of Uttarakhand Open University.

The focus of this workshop is on creating awareness about Virtual Labs for internet-based remote experimentation and enabling faculty to use Virtual Labs and to integrate them effectively in teaching practice.

Objectives

The workshop participants will be able to

 i. Demonstrate awareness about Virtual Labs
 ii. Use Virtual Labs for performing experiments
 iii. Integrate Virtual Labs into teaching and learning practices