



COUNCIL FOR THE INDIAN SCHOOL CERTIFICATE EXAMINATIONS

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NOTICE

10th July 2023

Five hours Online Training on “Pedagogical Perspective of Virtual Labs on DIKSHA” from 10- 14 July 2023

CIET-NCERT is organising an online training series on “Recommendations of NEP-2020 on use and integration of technology”, in the second week of every month from 4:00 pm to 5:00 pm from Monday to Friday to orient the stakeholders on use and integration of technology.

As a part of the series for the month of July, CIET-NCERT is organising five hours of online training on **“Pedagogical Perspective of Virtual Labs on DIKSHA”** from **10-14 July 2023** from **4.00 pm - 5.00 pm** in order to harness the knowledge and perspectives of various stakeholders involved in school education, including teachers, students, teacher educators, administrators, and other key individuals, it is crucial to tap into their understanding regarding the necessity, significance, advancement, and utilisation of virtual labs in the education. The online training will be live telecasted on NCERT official YouTube channel- <https://www.youtube.com/c/NCERTOFFICIAL> and also be simulcast through PM eVidya DTH TV channels numbered #6-12 and Jio TV mobile app. The participants who appear in the post training quiz and score 70% and above will be issued a certificate of participation. The banner and the information brochure of this online training programme is attached herewith and may also be disseminated through websites/ social media posts/ instant messenger groups etc.

All information regarding this event is accessible at:

Webpage Link: <https://ciet.nic.in/ppvl.php>

The above information may be shared with all concerned.



Online Training on

Pedagogical Perspective of Virtual Labs on DIKSHA

Organized by Central Institute of Educational Technology, NCERT, New Delhi



10-14 July 2023



4:00 pm-5:00 pm

Day 1	10 July 2023	Virtual Labs: Policy Perspectives, Need and Scope
Day 2	11 July 2023	Virtual Labs as a Learning Tool
Day 3	12 July 2023	Pedagogical usage of Virtual Labs- Mathematics
Day 4	13 July 2023	Pedagogical usage of Virtual Labs- Languages
Day 5	14 July 2023	Pedagogical usage of Virtual Labs- Science

For further information on
Registration and Certification, visit:
<https://ciet.nic.in/ppvl.php>



Watch the sessions live at
NCERT Official YouTube Channel
<https://www.youtube.com/@NCERTOFFICIAL>



You can watch at:

DD Free Dish Channel
Dish TV Channel #2027-2033

PM eVidya Channel #6-12

Jio TV

For any further queries, mail to: training.helpdesk@ciet.nic.in or call: 8800440559

Online Training on “Pedagogical Perspective of Virtual Labs on DIKSHA”

10-14 July 2023

Information Brochure

The global education development agenda reflected in the Goal 4 (SDG4) of the 2030 Agenda for Sustainable Development, adopted by India in 2015 - seeks to “ensure inclusive and equitable quality education and promote lifelong learning opportunities for all” by 2030. To accomplish Goal 4, NEP 2020 emphasized on creating virtual labs so that all students have equal access to quality practical and hands-on experiment-based learning experiences.

With the increasing challenges posed by the technological advancements, the young generation is required to develop skills of critical thinking and problem solving. Such opportunities can be provided to learners through pedagogical modifications. Pedagogy must evolve to make education more experiential, inquiry-driven, discovery-oriented, learner-centered, discussion-based, flexible, and enjoyable. This can be achieved by following learning by doing approach. Learning by doing is a process in which learners understand concepts by their experience which they get by engaging in the activities. This gives them a chance to explore and dive into the details. Teachers can support by using hands-on and creative modes of learning on a regular basis.

As per recommendation of NEP 2020, Virtual Labs were launched on DIKSHA on 29th July 2022, which not only help learners but educators as well by making learning experiential, using simulator students understand concepts by performing experiments online not merely by watching videos or reading text. **Till date, around 218 virtual lab activities are available in DIKSHA portal for Science (164 activities), Maths (37 activities), English (12 activities), and Computer science (5 activities). As of date, the usage report shows 98804 plays with 149329.49 minutes playtime.**

Virtual labs provide equal access to laboratory experience virtually to every child. Using this platform, experiments can be performed anytime and anywhere. Simulations not only provide opportunity to perform experiments but also to think and analyze the outcomes of the different

combinations selected during the experiment. Simulations stimulate the nerve cells to improve critical thinking ability of children.

To make efficient use of the potential of resources available on Virtual Labs, teachers need to be provided orientation from the purpose to pedagogical incorporation and implications of Virtual Labs in the classroom. CIET-NCERT is organizing an online training series on “Recommendations of NEP-2020 on use and integration of technology”, in the second week of every month from 4:00 pm to 5:00 pm from Monday to Friday to orient the stakeholders on use and integration of technology. As a part of the series for the month of July, CIET-NCERT is organizing five hours of online training on **“Pedagogical Perspective of Virtual Labs”** from **10-14 July 2023** from **4.00 pm - 5.00 pm**. The online training will be live telecasted on NCERT official YouTube channel- <https://www.youtube.com/c/NCERTOFFICIAL> and also be simulcast through PM eVidya DTH TV channels numbered #6-12 and Jio TV mobile app.

A post session quiz will be conducted and the participants scoring 70% and above will be certified.

Objectives:

After completion of the training, the learner will be able to:

- explain the policy recommendations for the requirement of Virtual labs
- describe the significance of using virtual labs in teaching, learning, and assessment
- describe the scope of virtual labs in developing experimentation skills
- explore the possibilities of integrating virtual labs in teaching, learning, and assessment of english, science, and mathematics

Programme Schedule:

Day & Date	Title of the Session	Name of the Resource Person
Day 1: Monday 10 July 2023	Virtual Labs: Policy Perspectives, Need and Scope	Prof. Amarendra P. Behera, Joint Director, CIET-NCERT

		Prof. Indu Kumar, Head, DICT & TD, CIET-NCERT
Day 2: Tuesday 11 July 2023	Virtual Labs as a Learning Tool	Mr. Anand Arya, Associate Professor, RIE Ajmer
Day 3: Wednesday 12 July 2023	Pedagogical Usage of Virtual Labs- Mathematics	Dr. Madhu B, Assistant Professor, RIE, Mysore
Day 4: Thursday 13 July 2023	Pedagogical usage of Virtual Labs- Languages	Dr. Amit Ranjan, Assistant Professor, CIET-NCERT
Day 5: Friday 14 July 2023	Pedagogical Usage of Virtual Labs- Science	Prof. Shashi Prabha, Head, PRD, CIET-NCERT

Who can participate?

Students, Teachers, Teacher Educators, Parents, Administrators, General Public, etc.

How to participate?

Step 1: Registration:

Register yourself by clicking the link- <https://forms.gle/xjiq1wWxyxGYyLuS6> or scan the QR code-



Step 2: Watch live training sessions:

Participants have to attend training sessions, which will be live-streamed on NCERT Official YouTube channel - <http://youtube.com/ncertofficial> from **10-14 July 2023** at **4:00- 5:00 pm** (Monday to Friday). The session will also be telecasted live on the following:

- PM eVIDYA Channels #6-12
- DD Free Dish Channel
- DISH TV Channel #2027-2033
- Jio TV mobile app

If you have missed the live Sessions, you can watch the recording at the given link- (*Link will be updated on 10 July 2023*)

Step: 3 Participation in Post-Session Activity and Certification:

Participate in the post session quiz, score 70% & above to get a certificate.

Post-Session Quiz Link - (*Link will be updated on 14 July 2023*)

Opening Date: 14 July 2023, by 6:00 pm

Closing Date: 19 August 2023, by 6:00 pm

Participants are allowed to attempt the quiz only once and those scoring 70% and above in the quiz **will receive a certificate of participation in their registered mail ID within 30 days of taking the post session quiz (Check in SPAM Mail if not found in the Inbox).**

Step 4: Submit Your Feedback:

Submit your feedback using the link- <https://forms.gle/PeQ8bCsJ15EttBsC9> or by scanning the QR code-



This feedback form is intended to know your experiences, learning, and suggestions regarding the online training on “**Pedagogical Perspective of Virtual Labs**” organized by CIET-NCERT. Kindly share your experiences and suggestions with us. This will help us in further improvement of the virtual training process. Confidentiality of your responses will be ensured.

For any queries, mail to: training.helpdesk@ciet.nic.in or call: 8800440559.

Event Page:

All information regarding this event is accessible at,

Webpage Link: <https://ciet.nic.in/ppvl.php>

QR Code:

**Organising Team:****Programme Advisory:**

Prof. Amarendra P Behra, Joint Director, Central Institute of Educational Technology (CIET), NCERT, New Delhi.

Course Coordinator:

Prof. Indu Kumar, Head- DICT, Central Institute of Educational Technology (CIET), NCERT, New Delhi.

Course Co-Coordinator:

Ms. Nidhi Adlakha, Senior Academic Consultant, Central Institute of Educational Technology (CIET), NCERT, New Delhi.

Programme Coordinator:

Dr. Angel Rathnabai, Assistant Professor, Central Institute of Educational Technology (CIET), NCERT, New Delhi.

Technical Coordinator:

Ms. Shruti Joshi, Junior Project Fellow, Central Institute of Educational Technology (CIET), NCERT, New Delhi.

