



केन्द्रीय माध्यमिक शिक्षा बोर्ड (शिक्षा मंत्रालय, भारत सरकार के अधीन एक स्वायत्त संगठन) CENTRAL BOARD OF SECONDARY EDUCATION

(An Autonomous Organisation Under the Ministry of Education, Govt. of India)



CBSE/SE/DS/NSS/2022

Date:-23.09.2022

Circular No: ACAD-113A/2022

All the Heads of Institutions affiliated to CBSE

Subject: Online Training on “Virtual Labs for Teaching, Learning and Assessment” - reg.

Dear Principals,

NEP-2020 has recommended creation of virtual laboratories so that all students have equal access to practical and hands-on experiment-based learning experiences. Policy has also suggested content creation of virtual and augmented reality so as to help students understand concepts in a better way by visualising them

Experiments or laboratory work are vital for learners. They are useful in understanding the theories and concepts of science or other subjects that cannot be studied only by textbooks. Though, there is no substitute to direct hands-on experience of a physical laboratory, virtual laboratory has the great potential to enhance actual laboratory experiences. Virtual reality resources increase interest, add fun, help to understand difficult concepts, make learning engaging by being in virtual spaces to learn the concepts in a simulated environment.

With the vision of enhancing professional skills of the teacher, CIET- NCERT is organising a five-day online training on “Virtual Labs for Teaching, Learning and Assessment” from **26-30 September, 2022 from 4:00 pm - 5:00 pm** to enhance the understanding of teachers, students, educators, and various stakeholders on the virtual lab resources, their types, availability of these resources, in order to enrich the classroom experiences.

The online training will be live on NCERT official YouTube channel- <https://www.youtube.com/c/NCERTOFFICIAL> and also be simulcast through PMeVidya DTH TV channels numbered #6-12 and Jio TV mobile app. The official banner containing timings, dates and link are mentioned in the attached **Annexure**.



‘शिक्षा सदन’ , 17 राऊज़ एवेन्यू , इंस्टीटूशनल एरिया, नई दिल्ली-110002
‘Shiksha Sadan’, 17, Rouse Avenue, Institutional Area, New Delhi – 110002





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For detailed instructions on registration, participation, assessment and certification

Visit the event page by using the link:

<https://ciet.nic.in/vltla.php>

Scan the QR code to visit the page



It is requested to share these details with all the stakeholders so that the understanding and applicability of digital technologies in the teaching-learning processes can have an enduring impact.

For any query, contact Dr. Angel Rathnabai, Technical Coordinator, CIET-NCERT at
training.helpdesk@ciet.nic.in
or call at [+918800440559](tel:+918800440559) and talk to the experts during the live telecast.

Biswajit Saha

Dr. Biswajit Saha
Director(Skill Education)

Copy to the respective Heads of Directorates, Organizations and Institutions as indicated below with a request to disseminate the information to all the schools under their jurisdiction:

1. The Commissioner, Kendriya Vidyalaya Sangathan, 18, Institutional Area, Shaheed Jeet Singh Marg, Delhi-110016
2. The Commissioner, Navodaya Vidyalaya Samiti, B-15, Sector-62, Institutional Area, Noida - 201309.
3. The Director of Education, Directorate of Education, Govt. of NCT of Delhi, Old Secretariat, Delhi- 110054
4. The Director of Public Instructions (Schools), Union Territory Secretariat, Sector 9, Chandigarh -160017
5. The Director of Education, Govt. of Sikkim, Gangtok, Sikkim – 737101



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फ़ोन/Telephone: 011-23216963, 23214737 वेबसाइट/Website : <http://www.cbseacademic.nic.in> ई-मेल/e-mail: directorvoc.cbse@gmail.com.



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6. The Director of School Education, Govt. of Arunachal Pradesh, Itanagar - 791 111
7. The Director of Education, Govt. of Andaman & Nicobar Islands, Port Blair – 744101
8. The Director, Central Tibetan School Administration, ESSESS Plaza, Community Centre, Sector 3, Rohini, New Delhi
9. The Secretary, Sainik Schools Society, Room No.101, D-1 Wing, Sena Bhawan, New Delhi- 110001
10. The Joint Director, CIET- NCERT, Sri Aurobindo Marg, New Delhi – 110016.
11. The Additional Director, General of Army Education, A – Wing, Sena Bhawan, DHQ, PO, New Delhi – 110001
12. The Secretary, AWES, Integrated Headquarters of MoD (Army), FDRC Building No. 202, Shankar Vihar (Near APS), Delhi Cantt – 110010
13. The Secretary, Eklavya Model Residential Schools (EMRS), Ministry of Tribal Affairs, Government of India.
14. The Chairman, Odisha Adarsha Vidyalaya Sangathan, N-1/9, Near Doordarshan Kendra, PO Sainik School Nayapalli, Bhubaneswar, Odisha-751005.
15. The Deputy Secretary to Chairman, CBSE - for kind information of the Chairman, CBSE
16. All the Heads of Department of the Board.
17. All the Regional Directors/Regional Officers/Head-COEs, CBSE with the request to send this circular to all the Heads of the affiliated schools of the Board in their respective regions for compliance.
18. Head (Media & Public Relations), CBSE
19. Assistant Secretary (IT), CBSE, Rouse Avenue with the request to upload this notification on the CBSE Academic website.
20. Incharge, Hindi Cell, CBSE HQ – for Hindi Translation of this notification.

Director (Skill Education)



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Annexure

... Online Training on ...

**Virtual Labs for
Teaching, Learning and Assessment**

Organized by CIET-NCERT

From 26th to 30th September 2022 | **@ 4:00 pm - 5:00 pm**

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| DAY 01 26 th September 2022 | Virtual Labs: Policy Perspectives, Need and Scope |
| DAY 02 27 th September 2022 | Virtual Labs: Types & Exemplars |
| DAY 03 28 th September 2022 | Exploring Virtual Labs for Sciences |
| DAY 04 29 th September 2022 | Exploring Virtual Labs for Mathematics |
| DAY 05 30 th September 2022 | Exploring Virtual Labs for Languages |

For further information on registration and certification, visit: <https://ciet.nic.in/vltla.php>

Watch on NCERT official YouTube channel

For any query, write to training.helpdesk@ciet.nic.in or call #8800440559



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