



केंद्रीय माध्यमिक शिक्षा बोर्ड
(शिक्षा के क्षेत्र में समानता और उत्कृष्टता के लिए प्रतिबद्ध)
CENTRAL BOARD OF SECONDARY EDUCATION
(Committed to Equity and Excellence in Education)



KAMP in association with CBSE

Presents

Continuous Professional Development Program (CPD)
on

**ENHANCING SCIENCE EDUCATION
A PROGRAM ON VISUAL
AND PRACTICAL LEARNING**

For Teachers, Educators, Administrators etc.

Venue: CSIR-IITR Laboratory

Vishvighyan Bhawan, 31, Mahatma Gandhi Marg, Qaisar
Bagh, Lucknow, Uttar Pradesh 226001

9.30 AM TO 4.00 PM **31ST OCT, 2023**



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KNOWLEDGE AND AWARENESS MAPPING PLATFORM

Continuous Professional Development 02

ORGANIZED BY: KNOWLEDGE AND AWARENESS MAPPING PLATFORM

A KNOWLEDGE ALLIANCE OF



Topic: Enhancing Science Education: A Program on Visual and Practical Learning”.

No. of Participants: 50 Teachers from different schools Delhi

Date: October 31, 2023

Overview:

On 31st October, at the CSIR-IITR, Lucknow a special teacher training workshop was conducted for more than 50 teachers from different schools, on the topic “Enhancing Science Education: A Program on Visual and Practical Learning”. For this KAMP’s Continuous Professional Development program in association with Central Board of Secondary Education (CBSE), the educators joined and received training in various facets of science education from experts.



The event was skillfully moderated by a team of professionals, including Mr. Amit Shukla, Dr. Avisha Soni, Mr. Ankit Kumar, and Ms. Chanchal Tiwari. Their adept management ensured the smooth flow and execution of the various sessions throughout the event. The event served as a valuable platform for the enrichment of knowledge and skills for over 50 teachers who participated.



In the workshop, Dr. V.P. Sharma, Chief Scientist, CSIR-IITR and Dr. Ramakrishnan Parthasarathi, Principal Scientist, CSIR-IITR emphasized the need for a holistic approach to teaching science. They highlighted the importance of hands-on activities, problem-solving, and fostering scientific curiosity. Dr. Sharma shared valuable insights into the practical implementation of these strategies, drawing from his extensive experience in the field.

The Teachers were also taken for a lab visit at the CSIR-IITR facility, where they learned more about Toxicology, its content present in water, food, soil, etc. Dr. Mukul, Senior Project Associate, CSIR-IITR additionally, guided the teachers on water waste management treatment and Dr. Meetali, PhD Student, CSIR-IITR gave an amazing lecture on Computational Toxicology. Dr. Rinni Singh, Incubation Manager, gave a brief lecture on incubation facility established at CSIR-IITR.

Mr. Amit Kumar Shukla, Regional Head, KAMP captivated the audience with his in-depth presentation on the Knowledge and Awareness Mapping Platform (KAMP) - an initiative of CSIR-NIScPR and NCPL. KAMP aims to unearth the innate talents and skills in our students, and the teachers were visibly enthusiastic about this endeavour. Mr. Amit mentioned that science education should extend beyond textbooks and classrooms. It should be a dynamic and immersive experience that encourages students to question, explore, and innovate.



Towards the end of the session, distinguished scientists, Dr. V.P. Sharma overall and Dr. Ramakrishnan Parthasarathi had a group discussion with the teachers on the critical challenges faced in school education and strategies to fulfil them. The thought-provoking discussion aimed to inspire and empower educators in their quest to nurture the scientists and innovators of the future.



It also addressed the challenges that educators face in igniting the passion for science in students and preparing them for future innovations. They emphasized the need for educators to adapt to evolving teaching methods and integrate practical, real-life experiences into the curriculum.

The event, proved to be a highly beneficial experience for all the teachers who attended. It provided them with a unique opportunity to enhance their skills, gain new knowledge, and engage in productive discussions, ultimately contributing to their professional growth and development.

It provided a platform for them to gain fresh perspectives on science education and exchange ideas on effective teaching strategies. The scientists' combined knowledge and experience promise to leave a lasting impact on the future of science education. It was carefully crafted to equip teachers with the necessary knowledge, tools, and instructional techniques essential for effective science education.

These resources serve a dual purpose: not only do they enhance the educators' own understanding of scientific concepts, but they also aim to spark a profound enthusiasm for scientific exploration in their students.



About CSIR-IITR

CSIR-Indian Institute of Toxicology Research, Lucknow, a constituent laboratory of Council of Scientific & Industrial Research, was established in 1965. Its is a multidisciplinary research institute with the motto Safety to Environment, Health and Service to Industry addresses problems critical to human health and environment.

About CBSE (Training/Capacity Building Programmes)

Quality concerns in school education are among the priorities of CBSE as they play a pivotal role in the development of the country. The Board is committed to make provisions for various training programmes for teachers and principals to enhance their understanding of curriculum and delivery mechanism and other professional qualities.

About KAMP

KAMP is an Initiative and Knowledge Alliance of the Council of Scientific & Industrial Research (CSIR) - National Institute of Science Communication and Policy Research (NIScPR) and industrial partner M/S Nysa Communications Pvt. Ltd. (NCPL), it intends to develop creativity, meaningful learning, critical reading and thinking skills that brings out the inherent abilities of the students.

Organized By:

Knowledge and Awareness Mapping Platform
(KAMP Operations and Coordination Office)

Moderated By:

Mr. Aniket Arora
(Outreach Coordinator, KAMP)

Dr. Avisha Soni
(Jigyasa Coordinator, CSIR-IITR)

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