



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)



In association with CSIR - CSIO & CBSE  
*Presents*  
Continuous Professional Development Program (CPD)  
on

# NANO QUEST

A JOURNEY OF EXPLORATION  
THROUGH NANOWORLD

For Teachers, Educators, Administrators etc.

**Venue: CSIR-CSIO Laboratory**  
**Sector-30 C, Chandigarh-160030**



**November 20th, 2023**

**09:30 AM - 05:00 PM**



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**KNOWLEDGE AND AWARENESS MAPPING PLATFORM**

Continuous Professional Development 03

Organised By: Knowledge & Awareness Mapping Platform (KAMP) In Knowledge Alliance with CSIR - NIScPR and M/s NCPL

**Topic:** Science Communication

**Date:** November 20, 2023

**No. of Participants:** 40 Teachers from different schools Chandigarh

### Overview:

A specialized Teacher Training Workshop convened at CSIR-CSIO in Chandigarh on November 20th marking a significant milestone in the realm of science education. The workshop, organized as part of KAMP's third Continuous Professional Development (CPD) program for educators in collaboration with the Central Board of Secondary Education (CBSE), brought together over 40 enthusiastic teachers from diverse schools.



The central theme of the workshop, "Nano Quest – A Journey of Exploration through Nanoworld," underscored the commitment of educators to enhance their knowledge and teaching skills in the field of science education. The diverse training modules covered various facets of science education, providing a unique opportunity for educators to learn from esteemed scientists and experts associated with CSIR-CSIO, Chandigarh.



Dr. Sachin Tyagi, Principal Scientist at CSIR-CSIO, delivered an enlightening technical session on ***“माइक्रोवेव अवशोषण अनुप्रयोग - “माइक्रोवेव अवशोषण अनुप्रयोग - चुम्बकीय सामग्री आधारित त समिश्रण”*** which translates to *"Microwave Absorption Applications – Magnetic Material Based Composites."*

The workshop also featured a session by Dr. Abhay Sachdev, Senior Scientist at CSIR-CSIO, exploring the *"Prospects and Applications of Nanomedicines."* In a practical turn, Dr. B. Sreekanth and Dr. Inderpreet Kaur, scientists from CSIR-CSIO, guided teachers on Environmental Monitoring, providing insights into skill development in a scientific context.

Mr. Dhiraj Singh Rajput and Mr. Kaushal Payal, (Regional Head of KAMP) captivated the audience with an in-depth presentation on the Knowledge and Awareness Mapping Platform (KAMP). Stressing the importance of science education beyond textbooks and classrooms, Mr. Dheerj also emphasized the need for a dynamic and immersive experience that encourages students to question, explore, and innovate.





The workshop served as a platform for educators and administrators to gain fresh perspectives on science education, exchange ideas on effective teaching strategies, and align with the latest developments in the field. The collective knowledge and experience shared by the scientists promise to leave a lasting impact on the future of science education.

Continuous Professional Development programs of this nature play a vital role in equipping teachers with the latest tools and knowledge to enrich the learning experiences of their students. Beyond enhancing educators' understanding of scientific concepts, these initiatives aim to spark a profound

enthusiasm for scientific exploration in students.

### **About CSIR-CSIO:**

CSIR-Central Scientific Instruments Organisation (CSIO) is a premier national laboratory dedicated to the research, design, and development of scientific and industrial instruments. As a multi-disciplinary and multi-dimensional apex industrial research & development organization, CSIO stimulates the growth of the Instrument Industry in India.

### **About CBSE (Training/Capacity Building Programmes):**

CBSE is committed to addressing quality concerns in school education, prioritizing the development of teachers and principals. The Board provides various training programs to enhance their understanding of curriculum, delivery mechanisms, and other professional qualities.

### **About KAMP:**

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

### **Organized By:**

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

### **Team Credits:**

**Ms. Arika Mathur**  
(Product Head, KAMP)

### **Moderated By:**

**Mr. Aniket Arora**  
(Outreach Coordinator)