

District Institute of Education and Training
Darya Ganj, Ansari Road, New Delhi-110002

F.No. 30(40)DIET/DG/C&P/MD Science/2022/827-834

Date: 12-10-2022

CIRCULAR

Subject: Call for Innovative Strategies/Best Practices used in the Teaching of Science by the Teachers of DoE

"Imagining and acting like a scientist" - the very ideology to be impregnated into the attitude of a student. The very workflow in the process of science teaching have been like: Concept-> Process -> Social implication. Every aspect of our day to day lives is hugely influenced by scientific changes happening around us. The most causative catalysts for these changes are revolutionary advancement in information technology and communication along with globalization. Socio-economic changes intermingling with the scientific advancement in real life caters to open up enormous scope of learning before the new generation. This also creates some challenges to the new generation teachers. Knowledge of some new skills side by side with the traditional skills become inevitable such as – logical thinking and problem-solving, creativity and innovation, communication and co-operation.

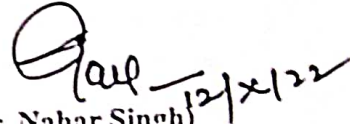
Presently all the schools aim to incorporate all these essential skills in the methodology of teaching process. The teachers can cater their services purposefully to help overall development of their learners. The tasks of science teacher also include them to inculcate science education amongst the learners of various levels. The school level science classrooms are the hatching field for learners who will take science in their higher studies. The very science of science teaching emphasizes on innovation greatly. In fact, the New Education Policy also promote the innovations in the Teaching-Learning process. Delhi state is doing great in the Education Sector and the Science Teachers especially are currently working hard to make science popular for the students so that they can take up science as a career option. It is very much important to showcase such practices among the teacher community so that everyone can learn and share the strategies to enhance classroom learning.

In this regard, DIET Darya Ganj has taken up a Material Development Project titled **"To Prepare a Handbook of the Innovative Strategies/Best Practices used in the Teaching of Science by the Teachers of DoE"**. This handbook envisages the compilation of such good innovative practices/ideas and dissemination of these to larger teaching community. Good and innovative teaching practices pertaining to elementary level are invited from the school teachers and other practitioners. All teachers and educational professionals irrespective of their stage of teaching (preparatory, middle, secondary etc.) are encouraged to make submission.

The suggestive areas in which the innovative strategies/ ideas are invited and the format which is to be followed while writing is attached as **Annexure-1** for your reference.

Instructions:

1. The innovative Strategy/ idea must be a practice already being or previously used by the teacher in their classroom.
2. The entries must be submitted in English or Hindi Language only.
3. The entries must be provided in typed format, i.e. MS Word along with Photographs and /or Videos (Video must be attached separately).
4. In the English Language write up, the Font Style should be Times New Roman, Font Size for the headings should be 14 and for the content should be 12.
5. In the Hindi Language write up, the content should be in Arial Unicode/ Mangal Font Style.
6. All submitted entries will be reviewed by a committee of experts whose decision shall be final and binding.
7. If any content is taken from any website or any other source, then proper references must be given at the end of the write up.
8. The selected write up will be published in the form of a handbook and same will readily be available for all the stakeholders with ISBN No.
9. The last date of submission of the write up is 15th November 2022. The write up must be mailed on scienceinnovationdietsg@gmail.com.
10. In case of any query/ clarification, you may contact Ms. Neha Sharma, Assistant Professor/ Coordinator, DIET Darya Ganj on the above-mentioned e-mail ID or on 9873211700.

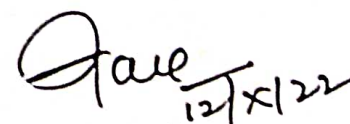

(Dr. Nahar Singh)
Joint Director (Academics)

Date:

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Copy to:

1. P.S. to Secy. Education/Chairperson. SCERT
2. P.S. to Director (Education), DoE
3. P.S. to Director, SCERT
4. P.S. to Joint Director (Academics), SCERT
5. Addl. DE (School), DoE
6. Web Information Manager, SCERT
7. OS IT (To upload on MIS), DoE
8. Guard File


(Dr. Nahar Singh)
Joint Director (Academics)

Innovative Strategies / Practices (Targeted Approach)

- Hands on learning
- Story telling
- Role play
- Sports based learning
- Science Q / Flash text cards
- Word Games (Bingo, Scrabble etc.)
- Simulation / Augmented reality
- Virtual Science labs(OLabs / Phet)

Novel Strategies:-

- Flipped classroom
- Embodied learning
- Crossover learning
- Science stations

Any other innovation in teaching strategies

- Group discussion
- Case studies
- Laboratory experiments
- Outdoor teaching
- Creative illustration
- Science seminars
- Dramatization
- Creative and interactive lectures

Amalgamation of Innovations in conventional and non-convention practices :-

ICT (K Yan), Projects
Science mind- maps
Science games/ movies /maps
Models, Science Quiz,
Science kit
Museums, Field Trips

Topic/ Name of the Innovative Strategy/ Idea:-

Level:- *Elementary / Secondary*

Introduction: - Introduction to the Innovation Practices

Instructional Objectives: -

Teaching aids / Material required

Improvisation (if any)

Lesson Plan (Micro teaching)

New ideas generated by students

Innovative home task for the students