

Centre for Learning and Pedagogic Study

Two Weeks Workshop
on

Instructional Strategies for Science Teachers and Teacher Educators in Pedagogy of Science

(06-19 September, 2019)

Organized by

School of Education, Guru Nanak Dev University, Amritsar

Under the scheme of

Pandit Madan Mohan Malaviya National Mission

On Teachers and Teaching

Department of Higher Education,

Ministry of Human Resource Development, Government of India

Organizing Committee

Chief patron

Prof (Dr) Jaspal Singh Sandhu
(Hon'ble Vice Chancellor)

Program coordinator

Prof. Amit Kauts
(Dean, Faculty of Education)

Project Coordinator

School of Education, PMMMNMTT

Prof. Amit Kauts
(Dean, Faculty of Education)

Organizing secretary

Dr. Deepa Sikand Kauts
(Head, Department of Education)
Dr. Franky Rani
(Assistant Prof., Department of Education)



Guru Nanak Dev University, Amritsar



www.gndu.ac.in



0183-2258802

About Guru Nanak Dev University

Guru Nanak Dev University was established at Amritsar, India on November 24, 1969 to commemorate Guru Nanak Dev's birth quincentenary celebrations. The university has marked its emblem across the globe and is continuing its journey of achieving new heights in pursuance of its cherished goals. University grant commission (UGC) has granted category -1 status to the university, the only university to get this ELITE STATUS in the region of Punjab , Haryana , Himachal Pradesh & Chandigarh . Improving its rank from last year, Guru Nanak Dev University has been ranked 59 in the All – India university ranking released under the national institution ranking framework (NIRF) by the ministry of human resource development (MHRD), Govt. of India. Under swachh campus ranking 2018 of higher educational institutions university got 2nd rank at national level amongst the cleanest higher educational institution in the country in the category of government universities. The University is ranked as one of the top universities in North India with a score of 3.51 on a 4 point scale by National Assessment and Accreditation Council (accredited at highest level i.e. A++ as per the new modified criteria) and it has also been conferred with potential for excellence (UPE) by UGC and is amongst 16 universities in the country to be bestowed this status. The MHRD has also released a grant of Rs. 107 crore for modernizing the main campus of Guru Nanak Dev University. This year again the university has won the highest sport award in the country, the Maulana Abul Kalam Azad Trophy , for a record of 23 times.

School of Education

The School of Education (SOE) forms the main backbone of integrated development of teachers. By setting up a School of Education, the university intends to strengthen the holistic vision for teacher education in the state, keeping it intimately connected with school education. This would in turn support and enable professional development, research collaboration, school interventions, curricular resource development and state academic planning. Keeping in view the present context of educational settings, the SOE offers academic programmes in education as an area of knowledge and field of professional practice. The SOE will focus on engaging teachers/scholars in educational discourses and knowledge generation. It will also provide avenues for professional development of teachers, teacher educators and other educational functionaries. The SOE endeavours to provide programmes of excellence in the pre-service and in-service education of prospective and practising teachers through teaching and learning, research, consultancy, publication and community services.

About the Workshop

The goal of this workshop is to provide teachers with the opportunity to readjust ineffective strategies and refine their teaching while developing techniques for working with students of different grade levels. Through this workshop the teachers will learn how to develop a variety of science demonstrations, experiments and thought provoking ideas that promote exploration and strengthen critical thinking skills by using various instructional strategies. In the present context there is a need for the teachers to motivate students to think more like scientists and to solve challenging problems using the scientific methods.

Objectives

The participants will be able to:

- Develop the skills to perform a task independently.
- Determine and use of teaching strategies effectively
- Develop the proficiency for planning and organising teaching and instructional activities.
- Analyse science content to identify instructional strategies that promote critical thinking, reasoning and scientific temperament.
- Apply scientific information to solve problems in familiar and unfamiliar situations.
- Develop modules of various instructional strategies for science teachers.
- Examine relationship between nature of scientific content and instructional strategies.
- Examine concerns of scientific enquiry.
- Explore classroom strategies to stimulate thinking for understanding physical reality of the world.
- Developing scientific temper through effective teaching pedagogies.
- Integration of ICT in teaching of science for better learning.

Target Group

School and college teachers of science, teacher educators of pedagogy of science will be considered as the participants of this workshop. Number of participants will be 30.

Workshop Content

- Experimentation
- Demonstration
- Inductive and deductive approaches
- Discussions and reporting
- ICT tools

Workshop Registration

There is no registration fee for the workshop. Fill the attached registration form duly forwarded by the competent authority, create a Pdf and send on the e-mail pmmnmmtgndu@gmail.com. Submission of this form does not guarantee registration till you receive confirmation of admission to the workshop.

Accommodation and Travels

- Out – station participants will be provided free shared room accommodation subjected to availability in the guest house.
- Registered participants will receive status of confirmation.
- Out station participants may be paid up to a limit of A/C railway fare (three tier) or A/C.
- Deluxe bus fare on production of tickets . Road travels will be reimbursed on the production of valid tickets and as per UGC norms. Breakfast and lunch will be arranged at the workshop venue.