



St. Wilfred's College for Girls

(Affiliated to University of Rajasthan)

Report Workshop on “Research Based Pedagogical Tools in Experimental Physics”

Organized by Department of Physics

St. Wilfred's College for Girls The inaugural ceremony of the National Workshop on “Research Based Pedagogical Tools in Experimental Physics” from 06-01-2023 to 11-01-2023 commenced with the lighting of lamp by a group of dignitaries of St. Wilfred's College for girls – Guest Dr. Sanjeev Kumar, Dept. of Physics UoR, Dr. Surendra Singh Govt. College Kotputali, Dr. Meenal Agrawal Dept. of Physics Agrawal PG College Jaipur, Dr. Keshav Badaya Hon. Secretary, Dr. Manisha Tiwari and Convener of the workshop Dr, Narendra Agrawal organizing Secretary of workshop Head, Department of Physics) and Ms. Dhawani Gangal Co-Convener of the workshop with Saraswati-Vandana followed the discussion.

All of the dignitaries present on the dais, participants from different parts of the nation, colleagues, and students were formally dignify by Dr. Kashav Badaya. He spoke of the importance of workshops and seminar for research and work place.

Dr. Keshav Badaya Hon. Secretary, St. Wilfred's Education Society and **Dr. Manisha Tiwari Principal**, St. Wilfred's College for Girls felicitated all the Dignitaries by Shawl, Saafa and Memento.

On this occasion of National workshop in **Session 1 Invited Speaker Dr. Sanjeev Kumar** sad the effective use of scientific inquiry is one hallmark of outstanding Physics teachers. Physics teachers who use this approach develop within their students an understanding that science is both a product and a process. Not only do the students of these teachers learn the rudimentary knowledge and skills possessed and employed by scientists, they also learn about the history and nature of science including its nomenclature, intellectual process skills, rules of evidence, postulates, appropriate dispositions, and major misconceptions. Unfortunately, not all teacher candidates learn how to conduct inquiry and not all science teachers use inquiry in an effective fashion.

Session II Invited Dr. Surendra Singh in his talk on “Issues and Prospects of Physics” explained about the new pedagogy and tools which may be implemented during classroom teaching. Teachers expressed the lack of time for the interactive sessions during class hours but were ready to implement through Co-curricular activities. They enquired about the different ways by which the student projects may be conducted.

Session II Invited Speaker Dr. Meenal Agrawal in interacted with Faculty and students to discuss the various aspects like eliminating misconceptions in students and teachers, having informal and interactive sessions among students and teachers as a club activity, arrangement of student projects with institutes and companies etc. The session ended on a positive note with teachers expressing their happiness and satisfaction for having such a wonderful interaction.

All the participants were involved in different activities like poster preparation and display on the topic Ideal students (qualities of ideal students like interests, attitudes, work habits and ambitions of a perfect student), Paper plane activity, (teaching tools for learning), Basics of creating effective RBPT was also explained and finally a preparation of RBPT poster based on their own choice, and presentation of their groups RBPT in front of all the participants were made. Dr. Surendra Singh



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also explained about different funding opportunities for all the teachers. Program ended with the valedictory session in which Dr. Keshav Badaya Hon'ble, Secretary, St. Wilfred's Education Society, Chief Guest of the session emphasized on the history and importance of teacher training program in higher education, Dr. Meenal Guest of honor elaborated on impact of the posters created on his mind and applauded the participants on their commendable effort throughout the workshop. Dr. Narendra Agrawal congratulated the Organizing committee regarding tremendous efforts. Summary of all the sessions was presented by Ms. Dhawani Gangal Co-Convenor. The vote of thanks after certificate distribution. The program was anchored by Dr. Tarika Sharma Assoc. Prof. Faculty of Psychology.



Workshop Inugral by Honorable Guest



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Expertise share knowledge and Innovative

Regarding Teaching Pedagogy



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Participants in workshop on Research Based Pedogical tools in Experimental Physics.



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