



NAAC ACCREDITED 'A++' GRADE COLLEGE

2022-23

Name of the Department/Society: Department of Physics and Electronics

Name of the Event: Femto Physics and Its Applications

Date of the Event: 28th Jan. 2023

Report on online lecture

The Regional Council (Delhi & Haryana) of IAPT conducted an Online Lecture on title "Femto Physics and Its Applications" by Prof. Samit K. Mandal, Department of Physics & Astrophysics, University of Delhi on 28th Jan. 2023, 10:30 am onwards. The registered participants were 377 including students, research scholar and teachers from different schools and colleges of Delhi NCR region, Haryana and outside Delhi and Haryana region. The talk was focussed on the nuclear physics as the size of the nucleus is of the order of fermi. He has introduced various areas where we can apply femto physics and its applications like industrial applications, military, research, medical science, archaeology and geology science and astrophysics to the audience. He has shown the different techniques for inducing the nuclear beam in human body at the designated target without affecting the neighbouring tissues. He has also discussed how nuclear astrophysics is helpful in understanding the death and birth of stars, understanding the energy that power the stars, how elements are formed. He has also discussed the upcoming nuclear facility FAIR 2025 and how India is contributing in it and University of Delhi is also a collaborator of the FAIR facility. He has also discussed the future scope for the students from career point of view. The whole program was coordinated by Dr. Poonam Jain, EC Member IAPT RC-1. Prof. P. K. Ahluwalia, President IAPT graced the audience with his presence as chief guest and introduced the eminent speaker. In the beginning Dr. Yogesh Kumar, Secretary IAPT RC-1 given the welcome address. He also introduced the audience about IAPT and its activities. After the lecture the Q&A session was taken by Dr. Poonam Jain and at the end of the event Dr. S. K. Singhal, EC member IAPT RC-1 proposed vote of thanks.

YouTube Link: <https://www.youtube.com/live/XL94TuWHqi8?feature=share>