



## **4<sup>th</sup> QUARTERLY REPORT ON AZADI KA AMRIT MAHOTSAV (AKAM) PROGRAM**

**(June 2022 - August 2022)**

As per the directive of the Department of Atomic Energy, Institute of Physics, Bhubaneswar is celebrating India's 75th year of Independence as '*Azadi Ka Amrit Mahotsav*'. Following activities have been carried out under this program during June 2022 to August 2022.

### **PART A**

### **June 2022**

#### **(1) Scientists-School Students online interaction program: 10<sup>th</sup> Session of Physics Open Discussion (POD) at IOP Bhubaneswar**

The 10<sup>th</sup> Session of the Monthly Physics Open Discussion (POD) online program at IOP Bhubaneswar was held on 18<sup>th</sup> June 2022 during 5:30 pm – 7 pm. The program was attended by about 26 school students from all over Odisha from class VI to class XII on Zoom online platform. Questions ranging from basic physics concepts ( electromagnetic waves, speed of light calculation and measurement, heat and radiation, thermal equilibrium), to frontier areas of physics (electron-positron pair production, supernova explosion, time and gravity, night vision camera, etc.) were discussed. Students asked questions in English, Hindi, and Odiya.



(Prof. K. K. Nanda, Director, IOP on Question-Answer Session with the participants)



(Demonstration of Light Emission by Dr. S. N. Sarangi, IOP)

#### **E. REPORT OF THE DAE ICONIC WEEK DATED 26.08.2022**

The Institute dedicated the 5<sup>th</sup> day of the DAE Iconic Week to the program ANKUR which is run by scholars of IOP for children who live in the nearby Basti/Slum area. Volunteers from the research scholars of the Institute organized the visit of about 35 children of Standard-III to Standard-VIII from Biswaswar Basti in two slots. There were various scientific awareness activities, explanatory film on Chandrayaan, Trigonometry, scientific recreational activities and many other magical scientific experiments. IOP researchers helped children to draw various trigonometric figures. Prof. A.M. Srivastava explained the basic principles of lens and magnet.

Prof. Srivastava also advised the kids by motivating stories about the childhood life of prominent scientists like Einstein. Dr. B. Mallick explained the kids on various magical scientific experiments like rainbow production and vacuum pump etc. In the evening session, the Institute organized a Yoga camp with the help of “Art of Living” group. Around 100 participants from the Institute attended the program. With the support of all staff members of IOP, the program was concluded successfully.



(Banner and Group Photos with ANKUR (Children lives in the nearby Basti/Slum area) and Director, K. K. Nanda)

## F. REPORT OF THE DAE ICONIC WEEK DATED 27.08.2022

As a part of the DAE Iconic week, Institute of Physics, Bhubaneswar organized a health camp on Cardio, Ortho and Diet subjects on 6<sup>th</sup> day of Iconic week. The camp was organized with the professional doctors from local well-known Kalinga Hospital, Bhubaneswar. Approximately 100 members from the Institute campus along with their family members attended the session. Mrs. Anjana Tripathy elaborated the importance of balanced diet. Prof. & Dr Ranjit Panigrahi gave a popular talk on Orthopedics (Arthritis) and Prof & Dr. Susant Saila has given a seminar on Cardiology. Both the doctors have also clarify the questions asked by the audience. Dr. Panigrahi and Dr. Tripathy attended the patient from the audience/ members from IOP after the seminar session. By the support of all staff members of IOP, the program was completed successfully.

