



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

**(December 2021 – February 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.

# **PART A**

**December 2021**

## **(1) Kalinga TV program on Samanta Chandrasekhara**

Kalinga TV presented a half hour program on Dec 12 on Samanta Chandrasekhara, the legendary 19<sup>th</sup> century Indian astronomer, which included interviews of Prof. L. Satpathy (retd. Professor, IOP) and Prof. A.M. Srivastava (Professor, IOP). Prof. Satpathy and Prof. Srivastava discussed great works of Samanta Chandrasekhara, the naked eye astronomer, his extremely precise measurements, and his exceptional experimental skills in making various instruments for astronomical measurements with everyday materials such as wooden sticks and bamboo. They emphasized the importance of bringing his works to limelight, and recognizing him as a role model as an exceptional experimental physicist.

**(5) Popular Science talk at the State Level Science Seminar on “Exploring the Universe” held at Nimapara College, Odisha**

A popular science talk on “Universe and elementary particles” was given by Prof. A.M. Srivastava on 20<sup>th</sup> Dec. at the State level Science seminar on “Exploring the Universe”. The seminar was arranged at the Nimapara College, Nimapara, Odisha.

**‘ବ୍ରହ୍ମାଣ୍ଡର ଅନୁସନ୍ଧାନ’ ରାଜ୍ୟସ୍ତରୀୟ ପାଠକଳ୍ପ**



ନିମାପରା, ୨୦/୧୨(ଶୁ.ନି.) : ବହୁ ପ୍ରସିଦ୍ଧ ପୂର୍ଣ୍ଣ ବିଜ୍ଞାନ ଉପରେ ଉପରେ ପୂର୍ଣ୍ଣିତ ମହାନ ବେଶ୍‌ରେ। ଏହା ବ୍ୟତୀତ ଏହି ପାଠକଳ୍ପରେ ଉପସ୍ଥିତ ଥିବା ଅନେକ ଛାତ୍ରଛାତ୍ରୀଙ୍କ ମନରେ ପ୍ରଭାବ ସମ୍ପର୍କରେ ଚଳି ମାଲୁଥିବା ଅନେକ ଅନିମାଣିତ ପ୍ରଶ୍ନର ଉତ୍ତର ଶ୍ରୀଯୁକ୍ତ ଶ୍ରୀକାନ୍ତ ଓ ଶ୍ରୀ ପଦ୍ମାକାନ୍ତ ଦେଇଥିଲେ। ମହାବିଦ୍ୟାଳୟ ପରିଚାଳନା କମିଟିର ସଭାପତି ପ୍ରାକ୍ତନ ଅଧ୍ୟାପକ ଜଗତପ୍ରସାଦ ସାହୁ, ଡ. ବେଣୁଧର ସେନାପତି, ଅଧ୍ୟାପକ ଅନିତା ଦାଶ ପ୍ରମୁଖ ଯୋଗଦେଇ ଛାତ୍ରଛାତ୍ରୀମାନେ ଏହି ପାଠକଳ୍ପକୁ ଅନେକ ଉପାଦେୟ କଥା ଶିଖିବା ସହିତ ଉଦ୍ଦିଷ୍ଟତାରେ ଜଣେ ଜଣେ ଭଲ ଭୈଷ୍ମାନିକ ଛୋଟପାରିବେ ବୋଲି ବେନାମେ କହିଥିଲେ। ମହାବିଦ୍ୟାଳୟ ଅଧିକାରୀ ଓ ମାନବ ଋନ ଦାୟିତ୍ୱ ସମ୍ପର୍କରେ କରାଯାଇଥିଲା। ଅଧ୍ୟାପିକା ପୁଷ୍ପିତା ରାଜଗୁରୁ, ଅଧ୍ୟାପକ ଡ. ଉଦାହରଣ ପାଠୀ ଓ ଲୁକ୍ଷ୍ମଣ ପ୍ରମୁଖ ଏହି କାର୍ଯ୍ୟକ୍ରମକୁ ପରିଚାଳନା କରିଥିଲେ। ଏସ୍.ଏସ୍. କଲେଜ ପୁରୀ, ବି.ଏସ୍. କଲେଜ, ପି.ଏଲ୍. କଲେଜ, ରି.ଏଲ୍. କଲେଜ, ନିଆର୍. କଲେଜ ଓ ଏଲ୍.ଏସ୍. କଲେଜର ଅଧ୍ୟାପକ ଓ ଛାତ୍ରଛାତ୍ରୀମାନେ ମଧ୍ୟ ଏହି ପାଠକଳ୍ପରେ ଭାଗ ନେଇଥିଲେ।



(News in a local paper and participant in the meeting)

**January 2022**

**(6) Scientists-School Students online interaction program:**

**Fifth Session of Physics Open Discussion (POD) at IOP Bhubaneswar**

The Fifth Session of the Monthly Physics Open Discussion (POD) online program at IOP Bhubaneswar was held on 15<sup>th</sup> Jan. 2022 during 5:30 pm – 7 pm. The program was attended by about 80 school students from all over Odisha from class VI to class XII on Zoom online platform. Questions ranging from basic physics concepts (Astronomical measurements by early astronomers, magnetic force, seeing the light, sound generation, nature of gravitational force,...), to frontier areas of physics (quantum entanglement, metric tensor and curvature, shape of planets, lightning, ..from internet exposure of students) were discussed. Students asked questions in English, Hindi, and Odiya.