

## **Report of the Visit to BITS \_ Goa Campus on 6<sup>th</sup> November 2023**

On 6<sup>th</sup> November 2023, 16 students from the Department of Physics of DCT's Dhempe College of Arts & Science, Miramar, Goa accompanied by Dr Miskil Naik had the exciting opportunity to participate in the ‘Open Day’ event at the K.K.Birla Institute of Technology and Science (BITS), Pilani, Goa, (Visit was supported by Star DBT Scheme)

### **Objective**

The purpose of the visit is to gain valuable insights and hands-on experience with the concepts and related scientific demonstrations in the field of Physics and other branches of Science.

### **Proceedings**

Upon arriving students were guided to the Department of Physics, where they were engaged in a series of enlightening and interactive sessions. The students were fascinated by the demonstrations on Optics, which included experiments on diffraction and air-trapped fringes. Students witnessed the demonstrations on diverse topics such as lisagiuos figures, Maxwell Boltzmann distribution concept and the innovative detection of cancer from Breadth using electronic gadgets(a prototype). These demonstrations provided the students with a deeper understanding of the theoretical concepts which they have studied in their Physics Course.

In addition to the optics demonstrations, the students had the opportunity to explore various aspects of Mechanics. They observed captivating demonstrations on the gyroscope, Oobleck (a non-Newtonian fluid exhibiting both liquid and solid properties), Ferrofluid (a liquid that becomes strongly magnetized in the presence of a magnetic field), and Bernoulli's principle, which explains the behavior of fluids. These demonstrations not only fascinated the students but also allowed them to witness complex scientific principles in action.

During their visit, the students actively interacted with Ph.D. scholars and experienced faculty members of the institute. This interaction provided them with a valuable platform to ask questions and gain insights into potential career paths in the field of Physics.

Another highlight of the event was the quiz competition, in which the students enthusiastically participated and showcased their knowledge. Their efforts were rewarded as they won prizes, enhancing their motivation and enthusiasm for learning. Additionally, the students were given the chance to have hands-on experience with some of the demonstrations, allowing them to

actively engage with the scientific equipment and deepen their understanding of the concepts being presented.

Furthermore, the students visited the Observatory located on the BITS campus.

The 'open day' at BITS offered students a day filled with stimulating scientific demonstrations, interactive experiences, engaging discussions with scholars and winning exciting prizes.

The visit was coordinated by Dr. Swati Pawar and Dr. Miskil Naik.



