

## **ROYAL COLLEGE OF EDUCATION AND RESEARCH FOR WOMEN**

### **Report on Educational Visit to the Tata Institute of Fundamental Research**

**NAME OF THE PROGRAM:** Visit to Tata Institute of Fundamental Research

**DATE:** 28th February, 2026

**REPORTING TIME:** 9:30 a.m.

**NO. OF PARTICIPANTS:** 29

**COORDINATOR:**

Asst. Prof. Dr. Mandrita Mitra

#### **OBJECTIVES:**

- To develop curiosity and interest in science through observation of real-life scientific demonstrations.
- To understand scientific concepts through practical experiments and interactive activities.
- To explore the research environment of a prestigious scientific institute.
- To encourage critical thinking and scientific temperament among students.
- To understand the importance of field visits in connecting theoretical knowledge with practical learning.

#### **REFLECTION:**

On 28th February 2026, an educational visit was organized to the Tata Institute of Fundamental Research (TIFR), Mumbai, on the occasion of National Science Day. The visit was attended by the students of F.Y.B.Ed. and S.Y.B.Ed., with the aim of providing them with an opportunity to experience science beyond textbooks and observe scientific concepts in action. The visit was coordinated by our mentor Dr. Mandrita Mitra, who guided and accompanied the students throughout the programme.

The day began with a series of science demonstrations organized under the theme "Science in Action." Students witnessed several fascinating experiments such as the Liquid Nitrogen Show, Cool Chemistry, Fun with Light, and When Things Roll. These demonstrations helped students understand scientific principles in an engaging and practical manner. The Liquid Nitrogen experiment demonstrated the effects of extremely low temperatures on different materials, while the chemistry demonstrations highlighted interesting reactions and changes in substances. The activities related to light explained important concepts of reflection and optics, making learning interactive and enjoyable.

Students were also given the opportunity to participate in laboratory tours and explore different sections of the institute. The lab tours helped students understand how scientific research is carried out in advanced laboratories. It provided valuable insight into the working

environment of scientists and researchers, inspiring students to appreciate the importance of research, innovation, and scientific inquiry.

Another interesting aspect of the visit was the gallery and art tour within the TIFR campus. The institute houses beautiful paintings, sculptures, and artistic installations displayed throughout its corridors and halls. These artworks reflected the integration of science, culture, and creativity within the research environment. Observing these artistic pieces allowed students to appreciate the aesthetic and cultural dimensions present within a scientific institution.

During the visit, several popular talks and lectures were organized for visitors. The students attended an informative lecture on Quantum Physics, where the speaker explained complex scientific ideas in a simple and engaging manner. This lecture helped students gain a basic understanding of modern physics and its significance in the field of scientific research.

In addition, several interactive stalls were set up across the campus. One of the most engaging activities included mathematical puzzles and magic numbers, which allowed students to explore the fascinating world of mathematics through fun and interactive learning.

Overall, the educational visit was highly informative, engaging, and inspiring. It enabled students to observe the practical application of scientific concepts, encouraged curiosity for learning, and helped them develop a scientific outlook and appreciation for research and innovation. The visit proved to be a memorable and enriching learning experience for all the participants.

## **LEARNING OUTCOMES**

Here are some of the key learning outcomes of participating in this educational visit:

- 1. Understanding Scientific Concepts:** Students gained practical knowledge of scientific principles through demonstrations such as liquid nitrogen experiments, chemistry reactions, and light experiments.
- 2. Exposure to Scientific Research Environment:** The visit provided insight into the research facilities and laboratories of the Tata Institute of Fundamental Research.
- 3. Development of Scientific Temperament:** Observing experiments and interacting with scientific demonstrations encouraged curiosity, questioning, and analytical thinking.
- 4. Interest in Advanced Scientific Topics:** The lecture on Quantum Physics introduced students to modern scientific concepts and inspired interest in higher scientific studies.
- 5. Integration of Science and Art:** The gallery and art tour helped students appreciate how scientific institutions also promote art and creativity, creating a balanced learning environment.

## FEEDBACK OF THE VISIT

**Kanchana (F.Y.B.Ed.):** The visit to TIFR was a very informative and exciting experience. The visit helped me understand the importance of scientific research and innovation.

**Kavita (F.Y.B.Ed.):** I enjoyed the Liquid Nitrogen experiment and the lecture on Quantum Physics. It was fascinating to see science being demonstrated so clearly.

## PHOTO GALLERY:





Asst.Prof. Mandrita Mitra  
**CO-ORDINATOR**

Dr. Judy Grace Andrews  
**PRINCIPAL**