

# Department Of Chemistry

## Science Excursion Tour To Science City

Department of chemistry organized an educational trip to Science City Kapurthala under the DBT Star College Scheme on 22 Nov 2023 - 23 Nov 2023 , with 48 chemistry department students participating. The primary objective was to enhance our understanding of science through interactive exhibits and demonstration.

### ❖ Venue Overview



Science city, a hub for scientific exploration, captivated our attention with its myriad attractions. The highlight was the state-of-the-art 3D theater, where students were treated to an immersive cinematic experience, bringing complex imagination and chemistry of human nature to virtual reality.

### ❖ Science Exhibitions:



The trip included visits to various science exhibitions, showcasing cutting-edge technologies and innovations. These exhibits featured hands-on activities, models, and demonstrations, allowing students to interact with the principles they had studied in the classroom.



A gravity well is a term used metaphorically to describe the gravitational pull that a large body exerts in space. The more mass that the body has, the deeper the gravity well. For our solar system, this means the Sun has the deepest gravity well, followed by Jupiter, Saturn, et



Apollo 15 is the 4th mission to land on the moon surface . It is the model demonstration of Apollo 15. Which helped students to understand the working of every part of Apollo 15 lander and rover.



Does height above sea level affect weight of objects? YES . The picture above illustrates the live effect of atmospheric pressure on different altitudes to students. It features three rods of same weight, demonstrating how their apparent weights change from Himalaya to Kapurthala to Mumbai.

Pushpa Gujral Science City aims to promote scientific awareness and education through interactive exhibits, demonstrations, and activities. The Science City covers various themes related to science, technology, and innovation, making it an engaging learning experience for visitors of all ages.


Certainly! The Pushpa Gujral Science City, inaugurated in 2005, spans over 72 acres and includes attractions like the Evolution Park, Energy Education Park, Climate Change Theatre, and a fascinating virtual reality show. It serves as a hub for science enthusiasts, students, and families, fostering a deeper understanding of scientific principles in an entertaining and informative way. The Science City also hosts workshops, seminars, and educational programs to further enhance the learning experience.




Students visited many more science exhibitions of science related to space, photoelectric effect, working of lenses and mirror and many more.

## TIME LINE OF ALBERT EINSTEIN'S LIFE


**1879**  
Albert Einstein is born to Herman Einstein and his wife Pauline in Ulm, Germany.




**1884**  
At the age of five, Albert Einstein becomes fascinated by his father's pocket compass, intrigued by invisible forces that cause the needle always to point north. Later in life, Einstein will look back at this moment as the genesis of his interest in science.




**1889**  
School class photograph in Munich, 1889. Einstein is in the front row, second from right. He did well only in mathematics and in Latin (whose logic he admired).




**1898**  
Albert falls in love with Mileva Maric, a Hungarian classmate at the ETH (Eidgenoessische Technische Hochschule), Zurich.




**1900**  
Albert graduate from the ETH. This is how the great scientist looked when he was young.




**1903**  
Albert and Mileva marry in January




**1905**  
Einstein's "Miracle Year": He invented Special Theory of Relativity and submitted his paper "on the Electrodynamics of Moving Bodies" to the leading German physics journal. Applied his theory to mass and energy and formulates the equation  $E=mc^2$ .



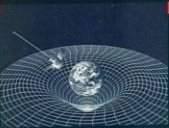
**1911**  
The Einsteins move to Prague where he was given a full professorship at the German University there. Albert (in the centre) was the youngest to attend the invitation-only Solvay Conference in Brussels, the first world physics conference.




**1912**  
The Einsteins move to Zurich where Albert is given a position as a professor of Theoretical Physics at the ETH.




**1913**  
Einstein started his work on new Theory of Gravity.




**1915**  
Einstein completed his General Theory of Relativity.




**1919**  
Albert marries Elsa. May 29, a solar eclipse proves Einstein's General Theory of Relativity works.




**1922**  
Albert Einstein awarded with the Nobel Prize in physics for 1921.




**1936**  
Elsa Dies after a brief illness.




**1939**  
Einstein writes a famous letter to President Franklin D. Roosevelt warning of the possibility of Germany's building an atomic bomb and urging nuclear research. The atomic bomb thrown on Nagasaki was built by scientists with the help of Einstein's theory.




**1949**  
Einstein's first wife Mileva dies.



**1952**  
Einstein was offered the position of president of Israel by the 1st prime minister of Israel David Ben-Gurion, but he declined it because of his old age and health problems.



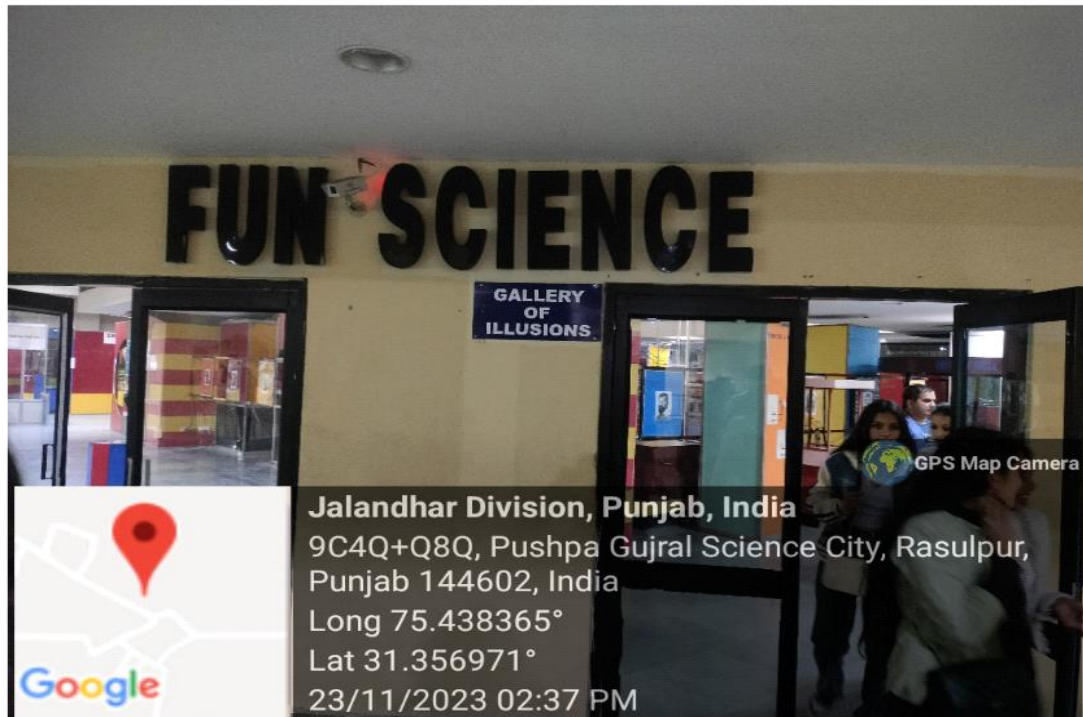
**1955**  
By the end of his life in 1955, Einstein had faded from the public scene by heart failure, but his insights in to the workings of the universe continues to transform the world.



**"Science without religion is lame, religion without science is blind."**  
*Albert Einstein*

We also met across the timeline of Albert Einstein's life who was one of the greatest scientist of all times.

❖ Fun Science



After Science exhibition student visit Fun Science Segment in Science City, where they encounter a multitude of phenomena presented in a fun and engaging manner. From the fascinating photoelectric effect to the mesmerizing polarization of light, the exploration includes captivating exhibits on refractive index, Jacob Ladder, and many more intriguing concepts.

❖ Visit To Golden Temple







Our meticulously planned educational trip, commencing with the awe-inspiring Science City, took an enriching turn as we strategically included a visit to the sacred Golden Temple on our journey back. This fusion of scientific exploration and spiritual immersion created a unique and holistic experience for all participants.

As we explored the Golden Temple's intricate architecture and observed the rhythmic recitation of prayers, we delved into the cultural and spiritual heart of Sikhism. The spiritual ambiance provided a stark yet harmonious contrast to the intellectual stimulation of Science City.

On November 24, 2023, at 7:30 am, our enchanting journey reached its pinnacle as we arrived in Shimla. With hearts full of joy and memories to cherish, our extraordinary trip came to a blissful conclusion.

Report Compiled by : Sachin Vice President Chemical Society

Edited By : Prof. Bharti Sharma (HOD Chemistry)