

Educational Tour Report and Feedback Analysis of the Educational Field trip
to
Science City Kolkata
Report

Destination: Science City, Kolkata
Date: 01.04.2024 (Monday)
Organized By: Physics, Chemistry, Mathematics & Economics Departments,
Krishnagar Women's College,
Krishnagar, Nadia, WB, PIN-741101



Introduction:

The educational tour to Science City, Kolkata, organized by the Physics, Chemistry, Mathematics, and Economics Departments of Krishnagar Women's College, took place on 1st April 2024. The trip aimed to provide students with practical exposure and hands-on experience in various scientific phenomena and principles, aligning with their respective academic disciplines.

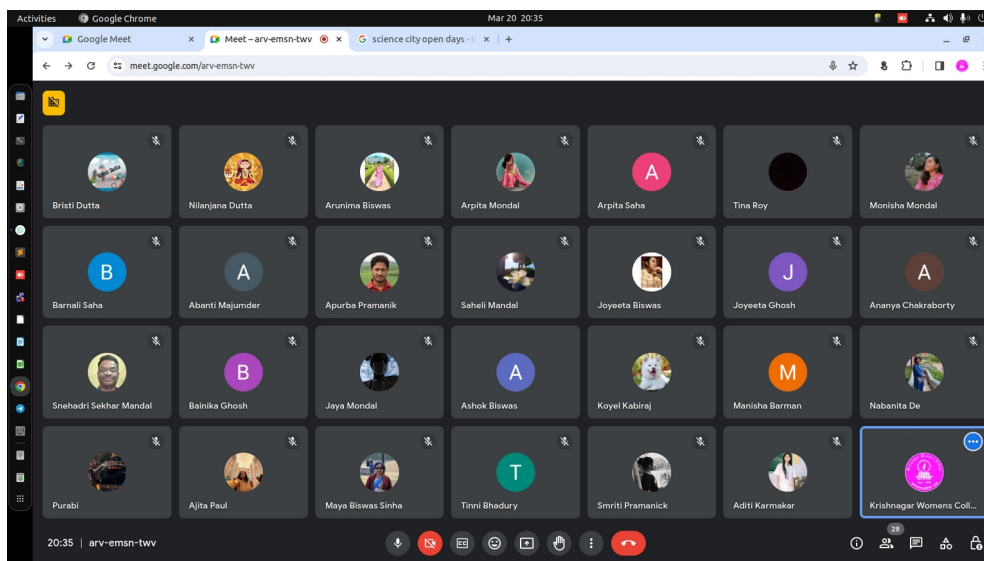
Preparation and Planning:

The planning for the educational tour commenced a month prior, with faculty members from each department collaborating to design an itinerary that would cater to the diverse interests of the students. Permissions were obtained, logistical arrangements were made, and necessary paperwork was completed well in advance to ensure a smooth execution of the trip.

Prior to the trip, an exciting announcement was made by the Physics, Chemistry, Mathematics & Economics Departments of Krishnagar Women's College, inviting students to participate in the educational tour to Science City, Kolkata. The announcement emphasized the unique opportunities offered by Science City to bring textbooks to life, explore beyond the classroom, spark curiosity, boost academic performance, and bond with classmates and professors.

The educational tour to Science City was designed to enhance students' understanding of scientific concepts through interactive exhibits and immersive presentations. By witnessing scientific phenomena

firsthand and engaging with cutting-edge technologies, students were able to deepen their knowledge and appreciation for science. The trip also encouraged critical thinking, curiosity, and a spirit of inquiry among students, fostering a lifelong love for learning.



Departure and Travel:

On the morning of 1st April, students and faculty members gathered at the college premises, brimming with excitement and anticipation for the day ahead. The group embarked on a comfortable bus journey to Kolkata at 7:00 am, which provided an opportunity for informal interactions and discussions among the students and teachers.



Arrival and Activities:

Upon arrival at Science City, the students were greeted by knowledgeable guides who led them through the various exhibits and interactive displays.



1. Science on a Sphere:

The tour concluded with a visit to the Science on a Sphere exhibit, offering a unique visualisation of Earth's environmental processes. Students observed animated images of Earth's land, oceans, and atmosphere projected onto a spherical display system. The exhibit facilitated a better understanding of complex environmental phenomena, such as climate change, ocean currents, and atmospheric dynamics, through immersive visualisations and real-time data.

2. Voyager: The Never-Ending Journey:

The highlight of the tour was the screening of "Voyager: The Never-Ending Journey" in the full-dome digital theatre. The film transported students on a mesmerizing voyage to the outer reaches of the solar system, showcasing the remarkable achievements of the Voyager missions. Through state-of-the-art technology and immersive storytelling, students explored the Jovian planets and their moons, gaining insights into the vastness and wonder of the cosmos.



3. Digital Panorama on Human Evolution:

Students were then treated to a unique immersive experience at the Digital Panorama on Human Evolution. The panoramic presentation showcased important milestones in human evolution over the past 6 million years. Through a dynamic film projected on a giant cylindrical screen, students witnessed key events such as the emergence of bipedalism, tool-making, and early social behaviors. The presentation combined actual footage with photorealistic 3D images, offering a captivating insight into our evolutionary history.



4. Dark Ride: Evolution of Life:

The tour continued with an immersive exposition on the Evolution of Life. Students embarked on a journey through the prehistoric age, witnessing the formation of the Earth and the diversification of life forms over millions of years. Robotic animal models and special audio-video presentations provided a vivid portrayal of ancient ecosystems and the evolutionary processes that shaped them. From microscopic organisms to iconic dinosaurs, students gained a deeper understanding of the interconnectedness of life on Earth.

5. Dynamotion Hall:

The tour commenced with a visit to the Dynamotion Hall, a large spiral-shaped building offering an exciting journey into the world of science. Interactive exhibits on physical science, such as the aquamobile and energy ball, captivated students and stimulated their curiosity. Exhibits allowed students to create music by walking on a floor piano, manipulate soap bubbles, and experience the principles of physics firsthand. The hall provided an engaging platform for students to explore and understand scientific concepts through hands-on experiences.

Refreshment and Food:

Throughout the tour, students were provided with refreshments and food to keep them energized and refreshed. Snacks and beverages were distributed during breaks between exhibits, allowing students to refuel and recharge before continuing their exploration of Science City. Additionally, a lunch break was scheduled midway through the tour, during which students enjoyed a delicious meal provided by the organizers. The provision of refreshments and food ensured that students remained comfortable and nourished throughout the educational tour.

Importance and Learning Outcomes:

The educational tour to Science City was designed to enhance students' understanding of scientific concepts through interactive exhibits and immersive presentations. By witnessing scientific phenomena firsthand and engaging with cutting-edge technologies, students were able to deepen their knowledge and appreciation for science. The trip also encouraged critical thinking, curiosity, and a spirit of inquiry among students, fostering a lifelong love for learning.

Throughout the tour, students actively engaged with the exhibits, asking questions, and participating in hands-on activities. The experience fostered a deeper understanding of scientific concepts and principles, enriching their academic knowledge beyond the confines of the classroom.

The educational tour also provided a platform for interdisciplinary learning, as students from different departments shared their perspectives and insights on the scientific phenomena observed during the visit. Discussions ranged from the economic implications of space exploration to the mathematical models underlying natural phenomena.



Conclusion:

The educational tour to Science City, Kolkata, organized by the Physics, Chemistry, Mathematics, and Economics Departments of Krishnagar Women's College, was a resounding success. It provided students with a memorable and enriching experience, fostering a spirit of inquiry, curiosity, and lifelong learning. The trip served as a testament to the college's commitment to holistic education and academic excellence.

Acknowledgments:

The tour committee thanks the Principal, Krishnagar Women's College and the Governing Body of the College for continuous support providing financial support for executing the Educational Tour. The success of the educational tour would not have been possible without the dedication and hard work of the organizing committee, HoDs of the Departments, faculty members, and students. Special thanks are extended to Science City, Kolkata, for providing student concession and an immersive and educational experience for our students.

Feedback Analysis

Feedback from the students were taken after returning from the trip using the google form link:- <https://forms.gle/3k4qncLPezYbEYhe7> . The received feedback were analyzed as follows.

The distribution of departments among the participants is as follows:

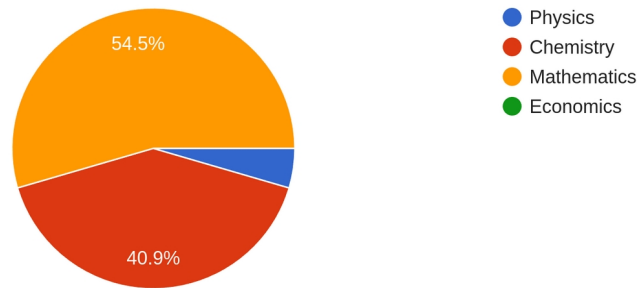
Mathematics: 12 participants

Chemistry: 9 participants

Physics: 1 participant

This breakdown shows the number of participants from each department who provided feedback on the educational field trip.

Department
22 responses



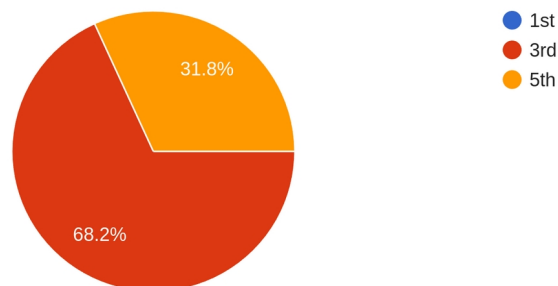
The distribution of participants by semester is as follows:

Semester 3: 15 participants

Semester 5: 7 participants

This breakdown shows the number of participants from each semester who provided feedback on the educational field trip.

Semester
22 responses



Based on the responses from the students, all 22 students found the educational field trip to Science City Kolkata to be very relevant to their curriculum or academic goals. This unanimous response

indicates that the field trip was highly valuable and aligned well with the students' educational objectives.

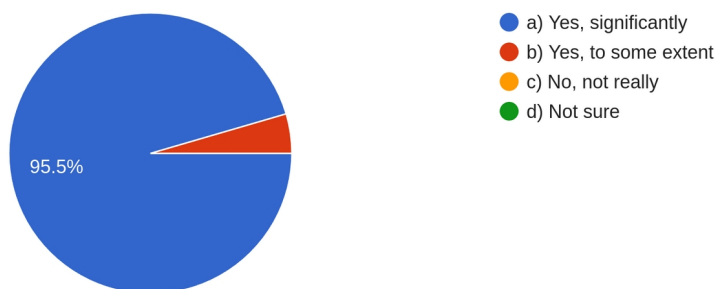
How relevant did you find the educational field trip to Science City Kolkata to your curriculum or academic goals?
22 responses



The response data suggests that the educational field trip was highly effective, with the vast majority of students (95.5%) reporting a significant improvement in their understanding of scientific concepts. However, there was one response indicating a more limited impact, suggesting room for further improvement to ensure a consistently high level of effectiveness for all participants.

Feedback suggests that the educational field trip was highly effective in enhancing students' understanding of scientific concepts, with the vast majority of students reporting a significant improvement in their understanding. This positive trend indicates the success of the field trip in achieving its intended purpose. However, the single response indicating a more limited impact suggests that there may be opportunities for further refinement to ensure a consistently high level of effectiveness for all participants.

Did the trip serve its intended purpose in enhancing your understanding of scientific concepts?
22 responses



Based on the responses provided, the students learned the following concepts during the field trip:

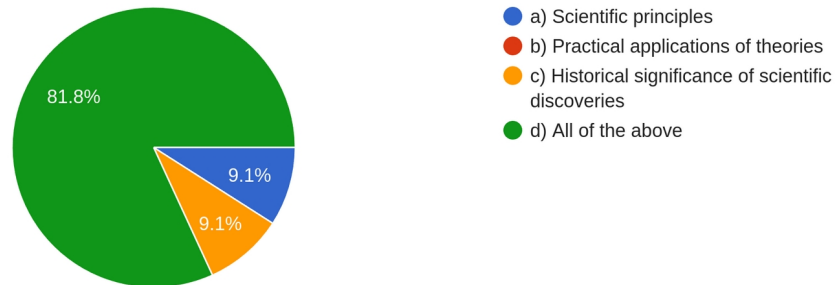
Scientific principles: This concept was mentioned in two responses.

Historical significance of scientific discoveries: This concept was mentioned in two responses.

All of the above: The most common response, with 18 out of 22 students indicating that they learned a combination of scientific principles, historical significance of scientific discoveries, and other related concepts during the field trip.

Which of the following did you learn during the field trip?

22 responses

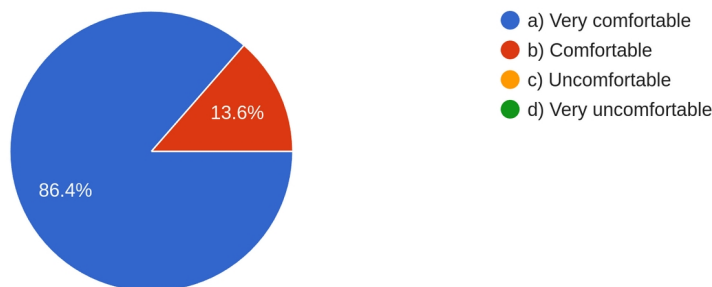


The majority of respondents (86.4%) rated the comfort of the journey to and from Science City Kolkata as "Very comfortable", while 13.6% rated it as "Comfortable".

Overall, the data suggests that the journey was perceived as very comfortable by the majority of the students.

How would you rate the comfort of the journey to and from Science City Kolkata?

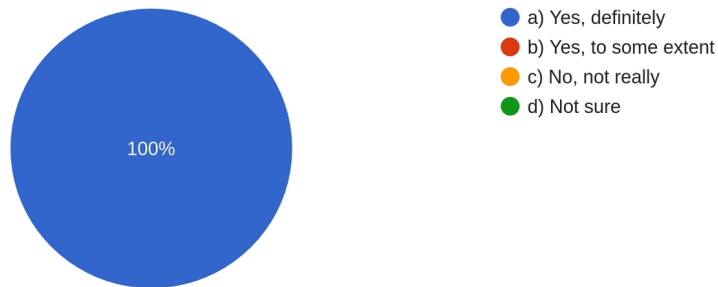
22 responses



All participants indicated that they felt adequately mentored by their teachers during the trip. This positive outcome suggests that the mentoring experience was effective and well-received by the students.

Did you feel adequately mentored by your teachers during the trip?

22 responses



All participants reported that the field trip provided ample opportunities for bonding with their classmates, with all 22 responses indicating "a) Yes, a lot". This positive outcome suggests that the field trip was successful in fostering connections and camaraderie among the students.

Did the field trip provide opportunities for bonding with your classmates?

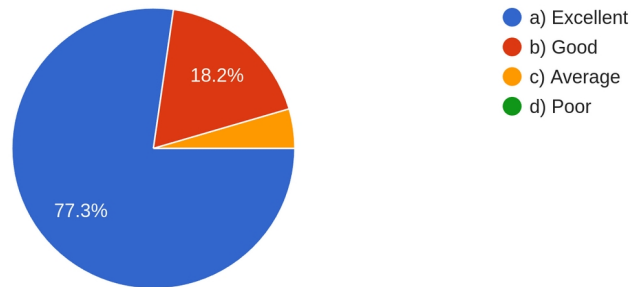
22 responses



The majority of respondents (17 out of 22) rated the food quality as "Excellent," indicating a very positive perception of the food provided during the trip. A smaller number rated it as "Good" (4 out of 22), and only one respondent rated it as "Average." This suggests that the overall quality of food during the trip was highly regarded by the participants.

How would you rate the quality of food provided during the trip?

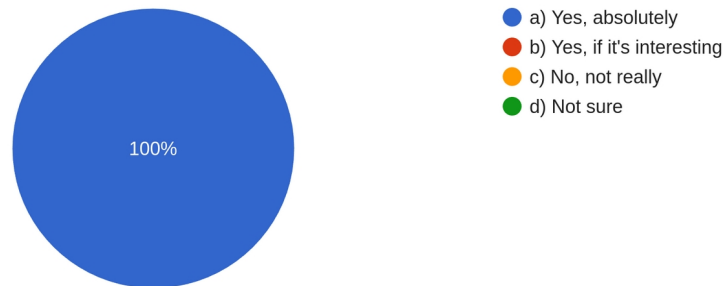
22 responses



All 22 participants expressed a willingness to participate in future educational field trips to other locations, with each one selecting "a) Yes, absolutely." This unanimous response indicates a 100% interest level among the participants for engaging in similar activities in the future, showcasing a highly positive reception and enthusiasm for educational field trips.

Would you be willing to participate in future educational field trips to other locations?

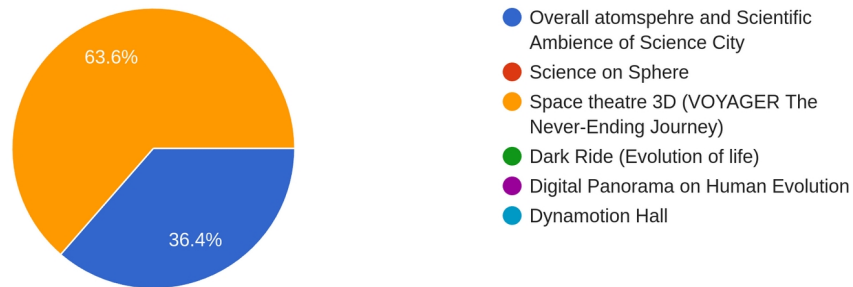
22 responses



The feedback indicates that the Space Theatre 3D (VOYAGER The Never-Ending Journey) was the most enjoyed aspect of the trip, mentioned 14 times by participants. This suggests a strong preference for the immersive experience provided by the Space Theatre 3D, making it the highlight of the educational field trip for the majority of attendees. Rest 8 participants prefers the Overall atmosphere and Scientific Ambience of Science City.

Choose the Best one From the Following you have enjoyed

22 responses



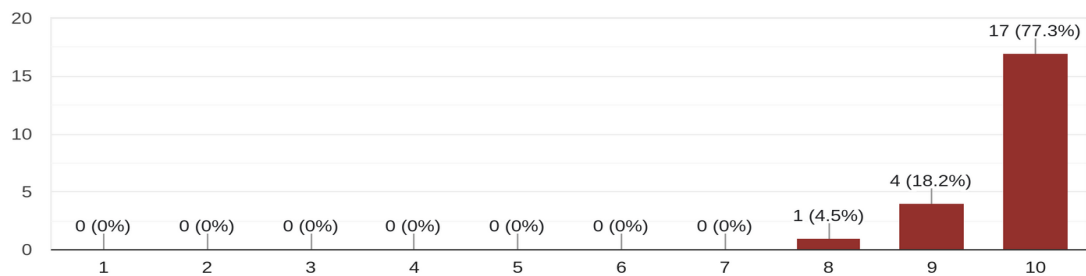
The participants' ratings for their experience at Science City Kolkata on a scale of 1 to 10 are as follows:

- 17 participants rated their experience as a 10
- 4 participants rated their experience as a 9
- 1 participant rated their experience as an 8

The majority of participants had a very positive experience, with 21 out of 22 participants rating their experience as a 9 or 10. The mean rating calculated from the data is 9.72, indicating an overall highly positive experience at Science City Kolkata.

Overall, how would you rate your experience at Science City Kolkata on a scale of 1 to 10? (1 being the lowest, 10 being the highest)

22 responses



Based on the feedback provided by participants, here are some suggestions for improving future educational field trips:

- Timing of the Trip: Consider organizing trips during the winter season for more comfortable weather.
- Variety of Locations: Include visits to other educational locations to increase variety and scope.

- Engagement and Learning Objectives: Enhance student excitement with extra activities, encourage questions, define clear learning objectives, and keep students engaged throughout the trip.
- Food Quality: Ensure consistent high-quality food during the trip.
- Interactive Sessions: Incorporate more interactive sessions to enhance learning experiences.
- Feedback Mechanism: Implement a feedback mechanism for participants to share their thoughts and suggestions.
- Transportation: Improve transportation arrangements for a smoother trip experience.
- These suggestions aim to enhance the overall educational field trip experience for participants.

What suggestions do you have for improving future educational field trips?

22 responses

The next trip should be arranged in winter.

Nothing

I would like to say that tour must be held in good weather may be in winter it will be more comfortable .

My suggestions for improving future educational field trips are:-1)Make students feel excited by some extra activities. 2)Encourage students to ask questions. 3)Develop clear learning objectives and share them. 4)Keep the students engaged.

Everything was perfect.I would like to be part of more science tours in the future

Everything was perfect. I would love to join such a trip again.

It should be better if we gone in winter.

In future I want to suggest everyone (my younger sisters)to go this science City trip

The Science Departments will make further discussion for the more improvement of the Educational Tour as per the feedback provided by the students.

Report Prepared and Feedback Analyzed by