DON BOSCO INSTITUTE OF TECHNOLOGY

Premier Automobiles Road, Kurla West, Mumbai - 400070

Department of Mechanical Engineering
Report on – K12 Activity

Title: Fun with Science_Refraction of Light
Date: 11th December 2023
Time: 2:00 PM to 4:30 PM
Venue: MMC Lab – Mechanical, Don Bosco Institute of Technology, Kurla

Target Audience: Students of St. Micheal school

No. of Participants Present: 30

Resource Person: Ms. Samina
Organization of Recourse Person: CES's Michael High School, Kurla
Organizing Department / Committee / Authority: ISHRAE DBIT Student Chapter
Faculty Coordinator: Prof. Cleta Pereira

Objectives:

- To introduce Refraction of Light
- To explore Refraction of Light in various domains and its advantages and disadvantages
- To encourage critical thinking among the students

Outcomes:

- Comprehensive understanding of the concept of Refraction of Light
- Knowing the advantages and disadvantages of Refraction of Light
- Knowing the applications of Refraction of Light

Detailed Report:

"Fun with Science", a K12 activity was held on 11th December 2023 at 2.00 PM.The activity was conducted by ISHRAE DBIT Student Chapter and ISHRAE faculty Advisor, Prof.Cleta Pereira. The activity was conducted offline for the students of CES's Michael High School, Kurla. The activities performed by the council members was to interact with students and make them understand about science concepts. So, to make the session interesting for the students we the ISHRAE DBIT Chapter student council came up with an intriguing way to make the learning more fun and interactive.

Jaee Hindalekar (Woman in ISHRAE) started the event by introducing the students about team conducting activities.

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Refraction of light

The experiment was conducted by Jaee Hindalekar. The setup consisted of a piece of paper with an arrow drawn on it and a glass filled with water.

Refraction occurs when light passes from one medium to another with a different optical density, causing the light to change direction. The arrow is made to face a certain direction and once the glass of water is placed in front of the arrow, its direction is reversed. The water itself acts as a different medium, and the light passing through it can be refracted, leading to a change in the apparent position of objects behind the glass.

Students were urged to consider everyday situations in which they could witness the refraction phenomena. This produced an engaging learning environment for students. The students were allowed to closely observe the experimental setup. We concluded the activity by taking group photos.

Snapshot of the Event:

Geotagged Photos:

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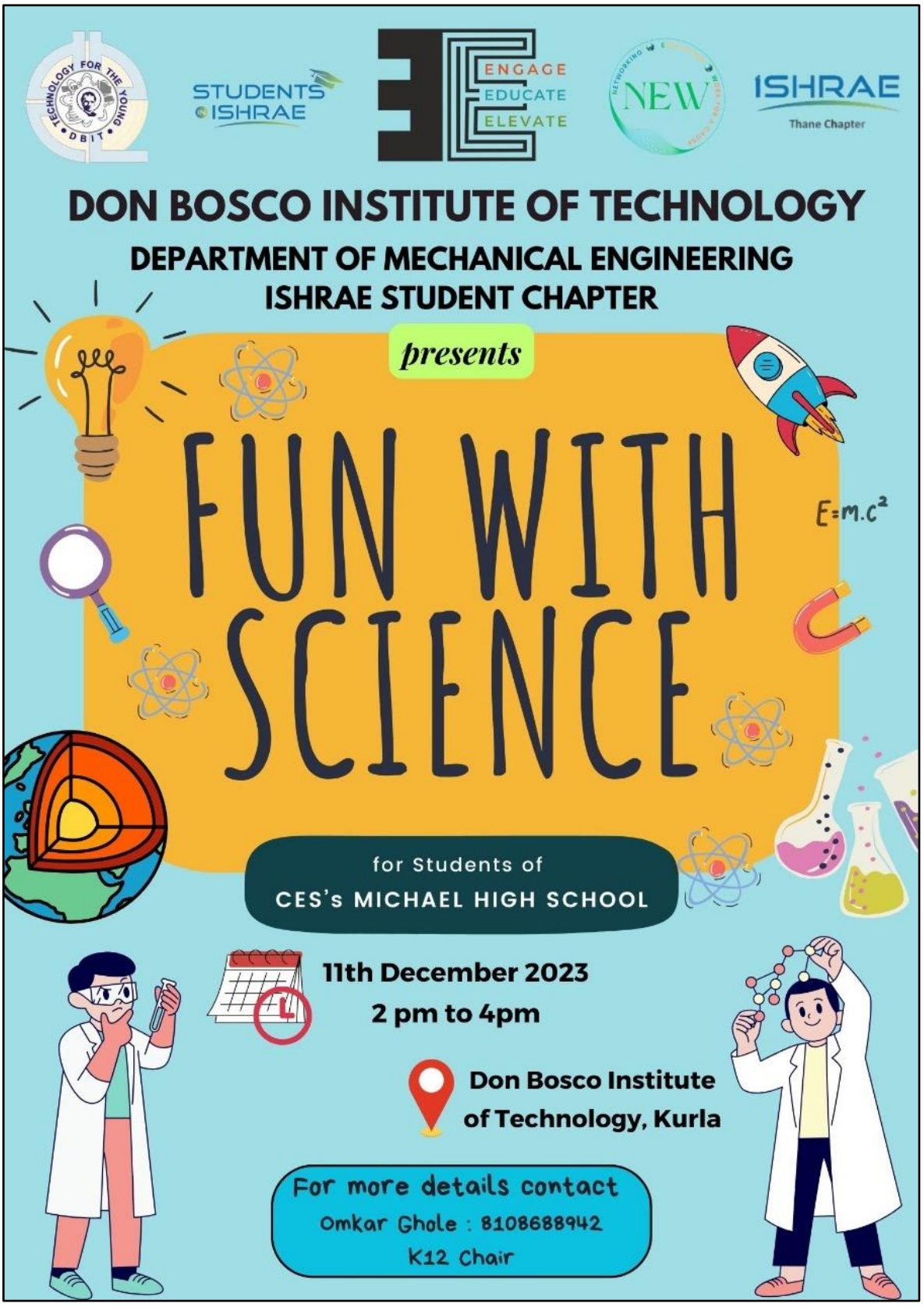
Event Poster:



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List of ISHRAE attendees for the event.

Sr. No.	Name	Position
1	Sahil Jadhav	Secretary
2	Vilas Kodam	Co K12 chair
3	Ankit Kshirsagar	Sports chair
4	Jaee Hindalekar	Environment chair
5	Rahi Prajapati	Chapter working committee
6	Vedika Mathews	Sub-Chapter working committee
7	Amogh Solanki	ISHRAE member
8	Sanjay Gundeti	ISHRAE member

Report Prepared By: Vedika Mathews

Name of the Student: Vedika Mathews

Post of the student: Sub-Chapter Working Committee

Report Approved By: Prof. Cleta Pereira

Name of the Faculty: Prof. Cleta Pereira

Post of the Faculty: Faculty Coordinator