



Don Bosco Institute of Technology

Approved by AICTE & Affiliated to University of Mumbai - ENGINEERING COLLEGE

Premier Automobiles Road, Kurla (West), Mumbai- 400 070 India.

Tel.: +91-22-25042424 / 91-22-25040508 / 91-22-25042018 Fax.: 91-22- 2504 0682 Web.: www.dbit.in



IEEE-DBIT STUDENT BRANCH

Report: Techworld-STEM Workshop

Event 1 Details:

Date: February 25, 2022

Time: 9:00 A.M - 12:00 P.M.

Venue: Mumbai Utkal English High School, Kurla

Number of participants: 84 students + 05 teachers

Event 2 Details:

Dates: March 8, 2022

Time: 9:00 A.M - 12:00 P.M.

Venue: Shishu Vikas Mandir School (SVM), Kurla

Number of participants: 50 students + 03 teachers

Speakers:

1. Prof. Gejo George – IEEE-DBIT Branch Counsellor
2. Ajitha Rajkumar (BE-EXTC)
3. Merlin Tomy (BE-EXTC)
4. Velton D'souza (BE-EXTC)
5. Prathamesh Yerekar (SE-EXTC)
6. Gouresh Sankhe (SE-EXTC)
7. Jaipreet Singh (SE-EXTC)
8. Kanishk Aware (SE-EXTC)
9. Prajeet Rao (SE-EXTC)
10. Russel D'mello (SE-EXTC)
11. Umer Shaikh (SE-EXTC)
12. Deep Patel (SE-EXTC)
13. Adarsh Rao (SE-EXTC)
14. Pratham Amare (SE-EXTC)
15. Jiten Mahyavanshi (Lab Assistant – EXTC Department)

Objectives:

- To promote experiential learning through hands-on practical session.
- To encourage knowledge application.
- Teach problem solving.
- Improve attitude towards STEM fields and careers.
- Create awareness about IEEE to the younger generation.

Description:

- IEEE-DBIT Student Branch organized a hands-on STEM workshop for 8th and 9th standard students of Mumbai Utkal English High School, Kurla on February 25, 2022 and subsequently for Shishu Vikas Mandir School (SVM), Kurla on March 8, 2022.
- The workshop was designed with an aim to provide a platform for school children to use technology for learning Science concepts. This will help develop the thinking skills of students. It will promote their ability to find a variety of solutions for the same problem and then analyze the results to identify the best solution.
- The session started with a key note address by the speaker. The speaker gave a brief overview of the workshop and explained the objective of conducting such an activity.

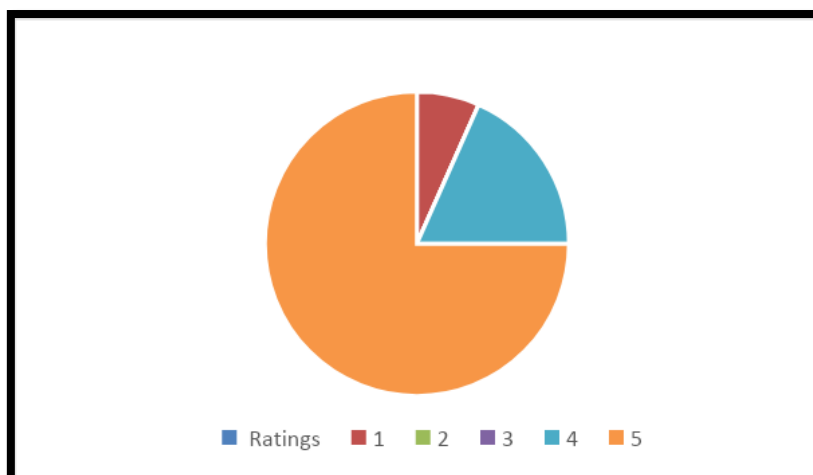
- Following the introduction, the speakers explained the basic components as well as breadboard used in circuit building.
- The list of experiments taken up during the workshop are as follows:

Expt. No:	Experiment Name
1	To study the working of LED circuit used for continuity testing.
2	To study the working of Light Emitting Diode (LED) circuit for series-parallel.
3	To study the working of LED circuit as a blown fuse indicator.
4	To study the working of mechanical energy to electrical energy convertor.
5	To study the working of LED circuit as pressure sensor.

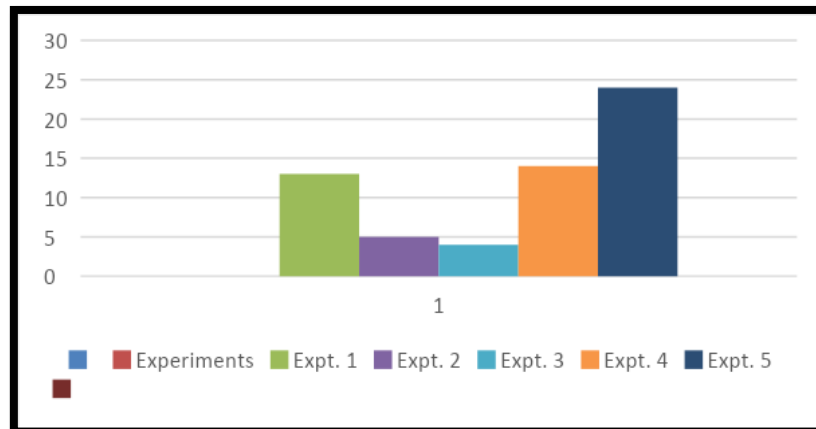
- Use of fuse, potentiometer, connections in series and parallel combinations, piezo sensors were explained during the course of the theory session.
- The class was divided into groups with each group having 10 students. Each group was assigned two IEEE volunteers, to conduct the practical sessions.
- The students were enthusiastic to perform the experiments and gave positive feedback at the end of the workshop.

Feedback Analysis [Day 1: Mumbai Utkal English High School]:

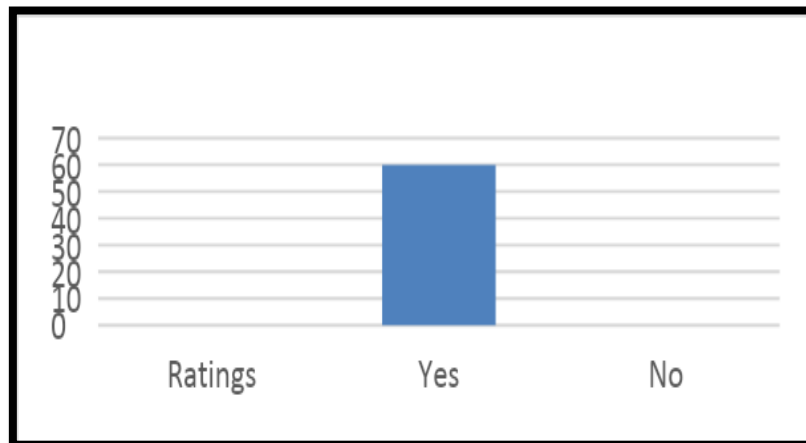
Q1) What is your overall assessment of the workshop/ laboratory? (1= bad 5 = excellent)



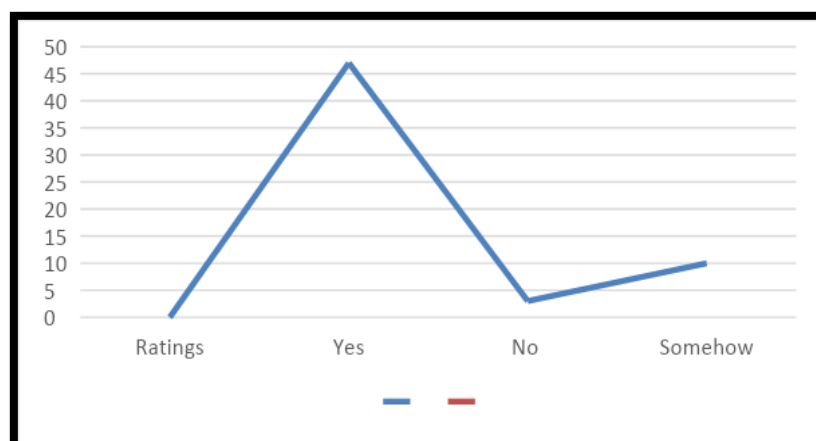
Q2) Which topics of the workshop did you find most interesting?



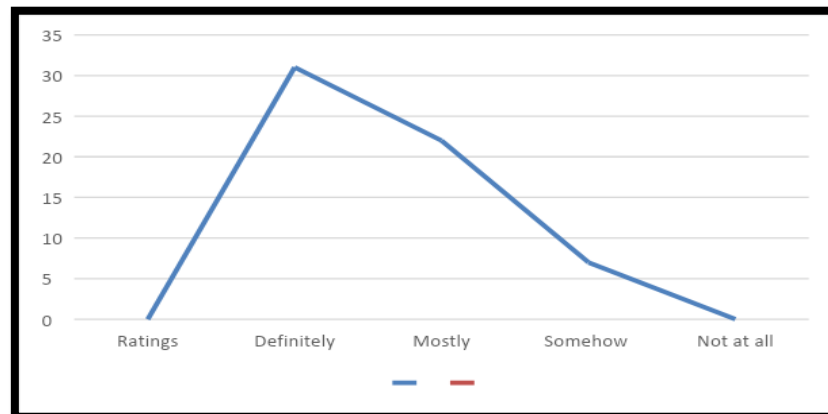
Q3) Did the workshop motivate you to take up projects using electronics?



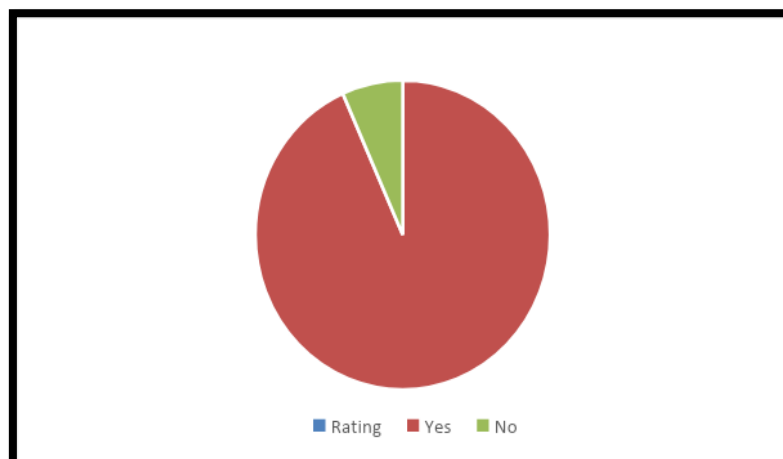
Q4) Knowledge and information gained from participation in this workshop:



b) Will be useful in my future projects?

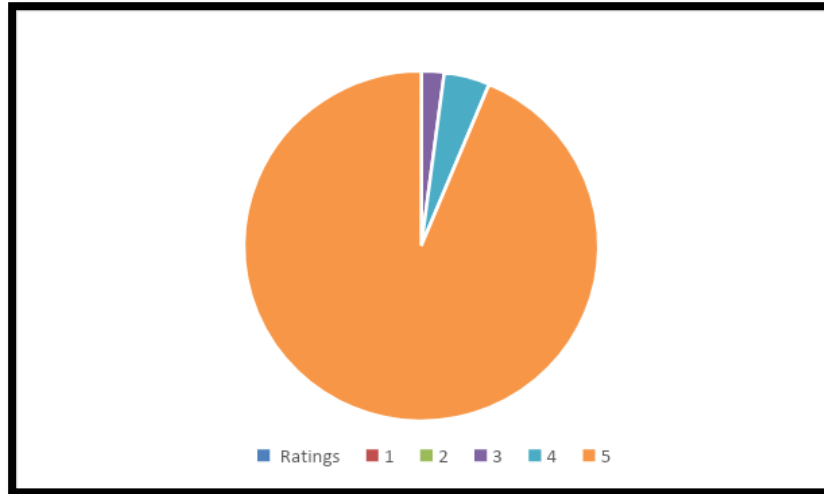


Q5) Would you like to take engineering courses in future as your professional career?

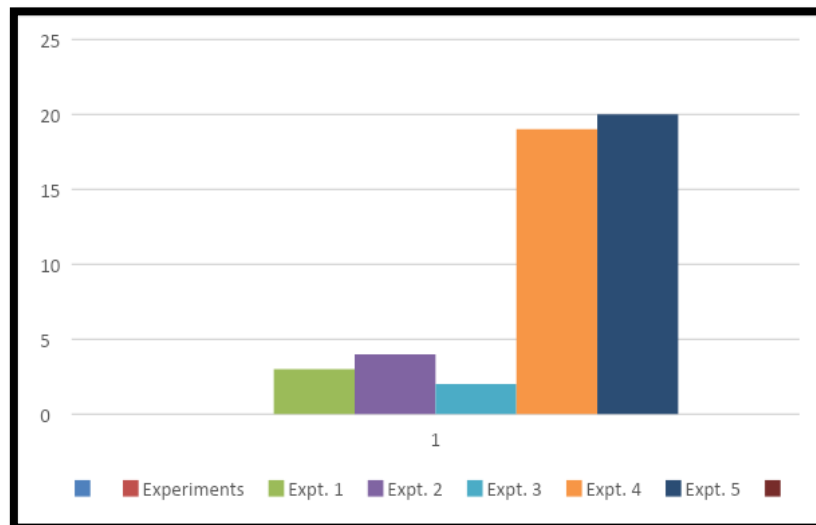


Feedback Analysis [Day 2: Shishu Vikas Mandir School, Kurla]

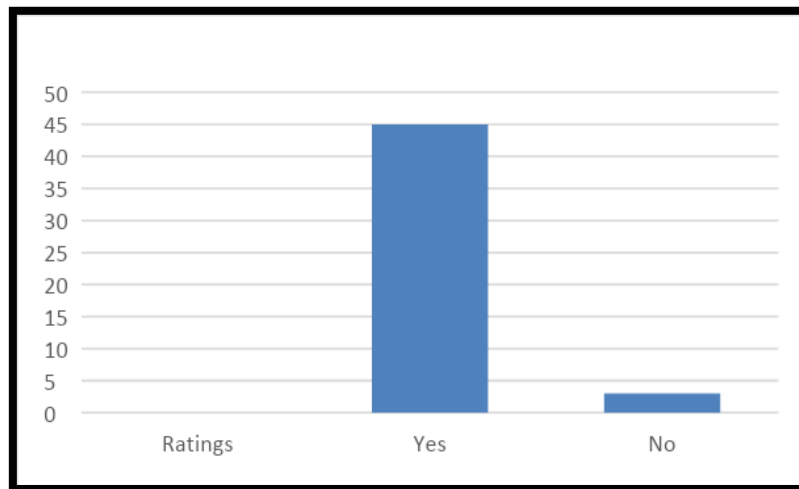
Q1) What is your overall assesment of the workshop/ Laboratory? (1= bad 5 = excellent)



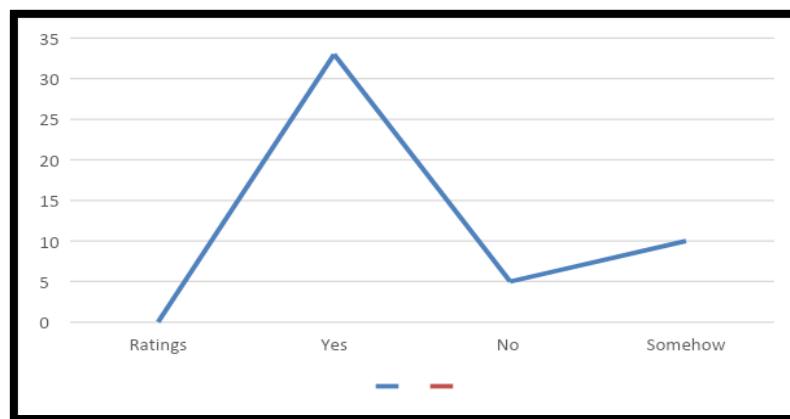
Q2) Which topics of the workshop did you find most interesting?



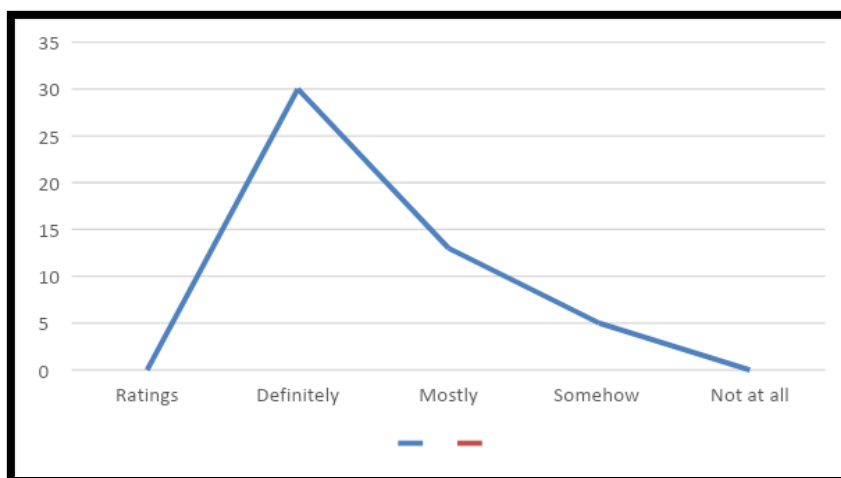
Q3) Did the workshop motivate you to take up projects using electronics?



Q4) Knowledge and information gained from participation in this workshop?



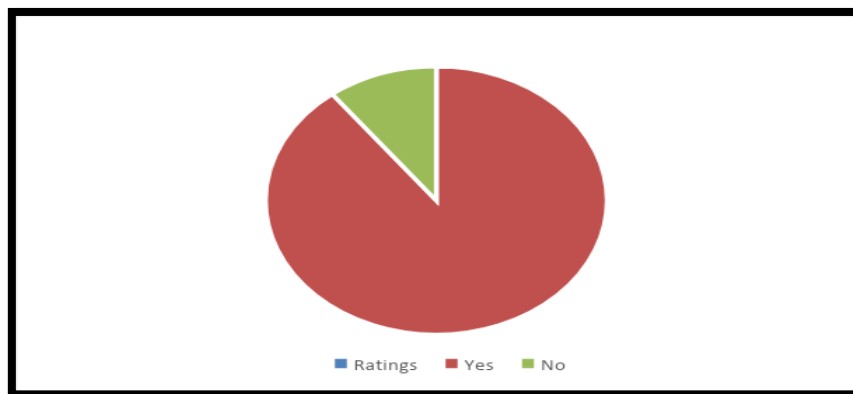
b) Will be useful in my future projects?



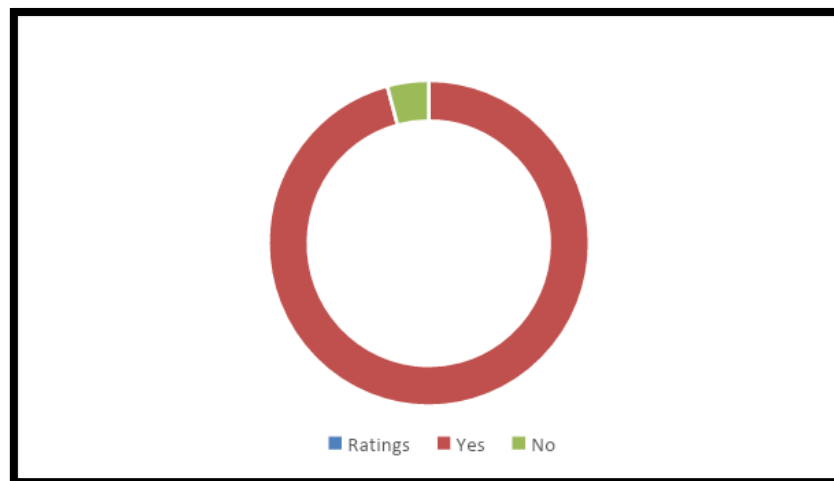
Q5) Would you like to take engineering courses in future as your professional career?



Q6) Do you think this workshop motivated you to take this decision?



Q7) I will recommend this workshop to others.

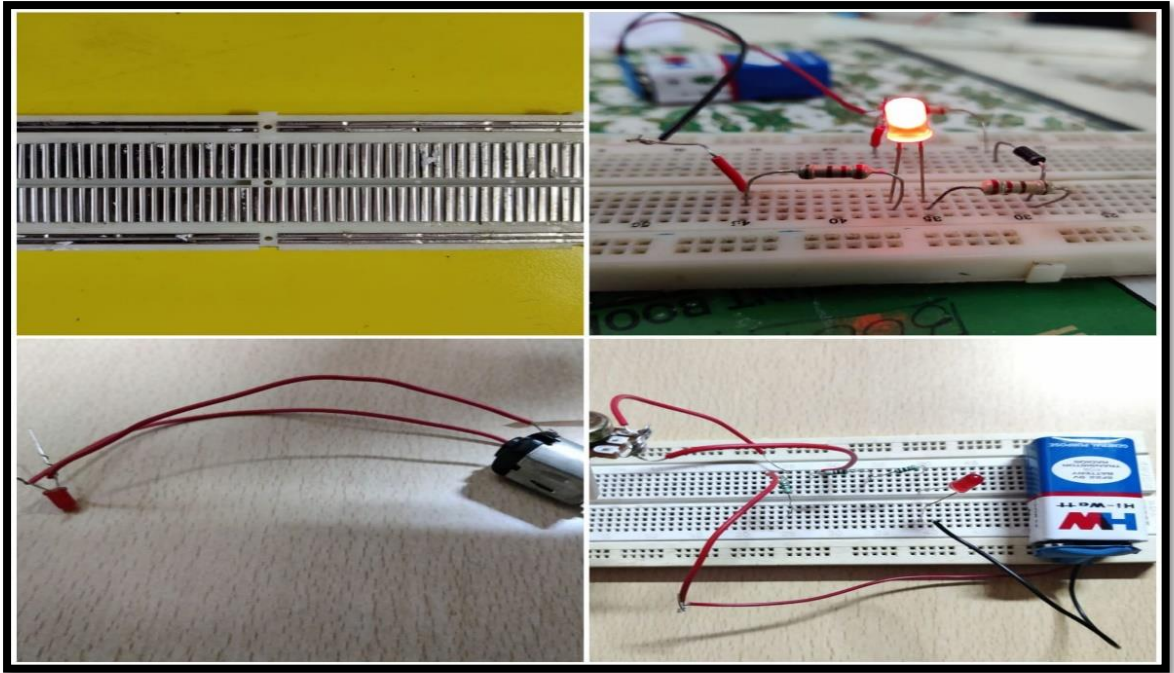


Feedback Summary:

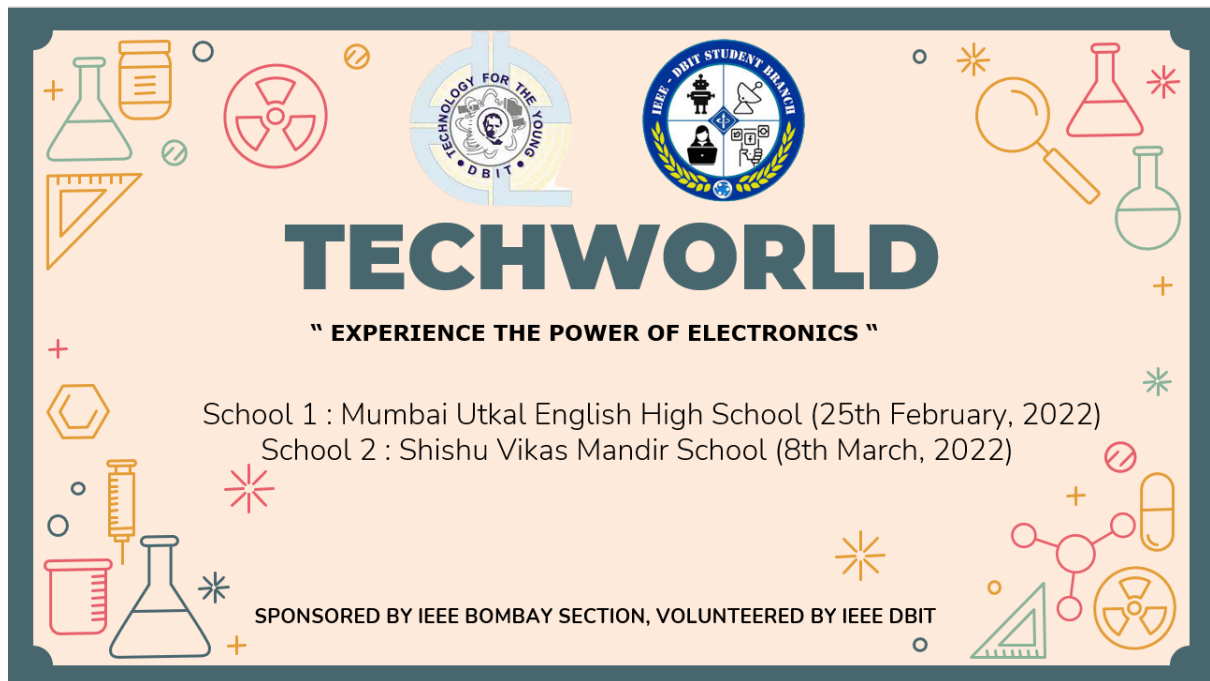
The workshop was well received and appreciated by the students and faculty alike. The students were responsive to the theoretical sessions as well as practical sessions. They were able to relate the concepts taught in class to real life scenarios. Most of the students showed a keen interest in pursuing a career in the technological domain. The overall experience was positive.

Event Photographs:





Event Poster:



Report Prepared By: Ms. Ajitha Rajkumar & Ms. Merlin Tomy

Report Approved By: Prof. Gejo George [IEEE-DBIT SB Counselor]