DON BOSCO INSTITUTE OF TECHNOLOGY, MUMBAI

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

IEEE-DBIT SB in collaboration with IETE-DBIT SB

Report on Workshop : 'Introduction to Microbit'

Topic: Online Workshop on "Introduction to Microbit using Tinkercad"

Date: 24th and 25th March,2021

Time: 11:00 a.m. –2:00 p.m.

Venue: Zoom Meeting

Speaker:

Mr. Ashutosh Rane (IEEE), Mr.Sadanand (IETE), Ms. Aparna(IETE), Ms. Purva (IETE) , Ms. Prajna (IEEE)

No. of participants: 15

Description:

IEEE-DBIT in collaboration with IETE-DBIT conducted a workshop on Introduction to Microbit using the online simulator Tinkercad as a part of colosseum fest 2021. The aim of this workshop was to learn about the basics of controllers and processors , various sensors , circuit designing skills and learn some hands-on application to use in real time.

A. Day 1 – March 24th, 2021

- The session commenced with an introductory speech by Ms. Shubhangi Katariyar, the chairperson of IETE-DBIT. Her speech included the welcoming of the participants, the outline for workshop and concluded the speech by introducing the instructor of the workshop.

- Ms. Aparna took over and started the session with introduction to processor , various components involved and various applications.

- With introduction to processors,Ms. Prajna introduced the participants with the basics of microcontrollers ,various terminologies and components used ,and the applications involved.

- Ms. Purva explained the differences between both microcontrollers and microprocessors and gave various examples .

- Once the participants understood the basic differences and uses, Mr. Ashutosh started with an introduction to microbit. The speaker explained various sensors and onboard details. He gave an introduction to coding techniques involved in microbit.

- A break of 20 mins was given to participants. Then Q/A session was held. All doubts asked by the participants were addressed by Mr. Sadanand.

- Mr.Sadanand explained the basics of tinkercad and he explained how to use tinkercad to do simulation of various logic gates(AND Gate,OR Gate).

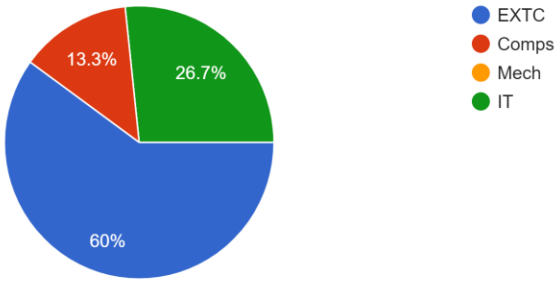
B. <u>Day 2 – March 25th ,2021</u>

- The second day started with a session on Python codes explanation used in microbit . The instructor then created the figure for 8 balls code and showed how to blink and show various symbols each in the figure.
- The next example was on how to create a traffic lights and love meter using microbit. The instructor used both block codes and pytorch for simulation.
- The participants were given the time to think and implement applications they have learned in this workshop.Then onboard reviews were given to ideas presented by participants.
- The session concluded with a Q & A session by Ms. Ajitha Rajkumar and Mr. Sadanand .
- The event was concluded with Ms.Ajitha Rajkumar and Ms. Shubhangi Katariyar where they mentioned about the upcoming events followed by the vote of thanks.

FEEDBACK ANALYSIS:

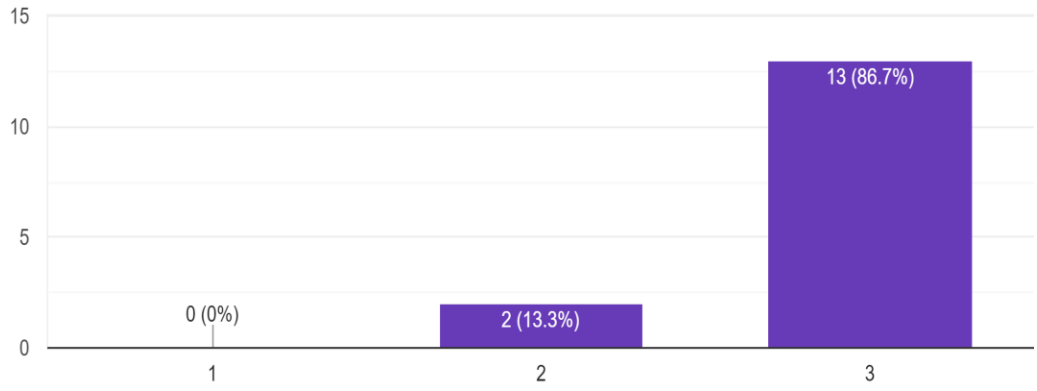
Branch

15 responses



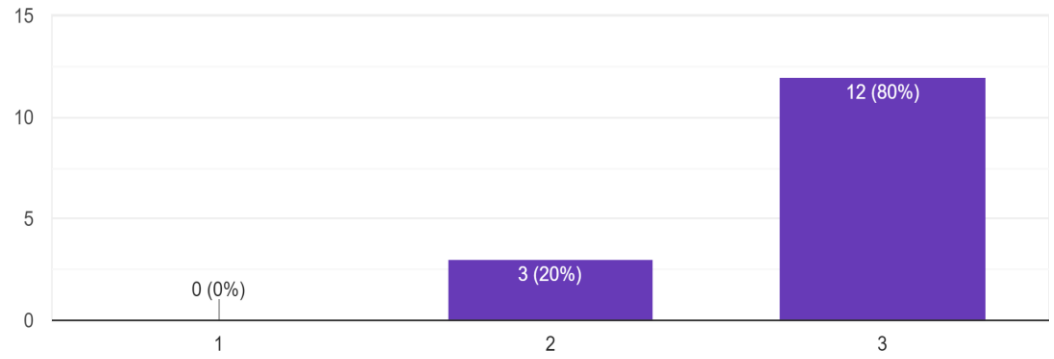
Information covered was consistent with the training objective

15 responses



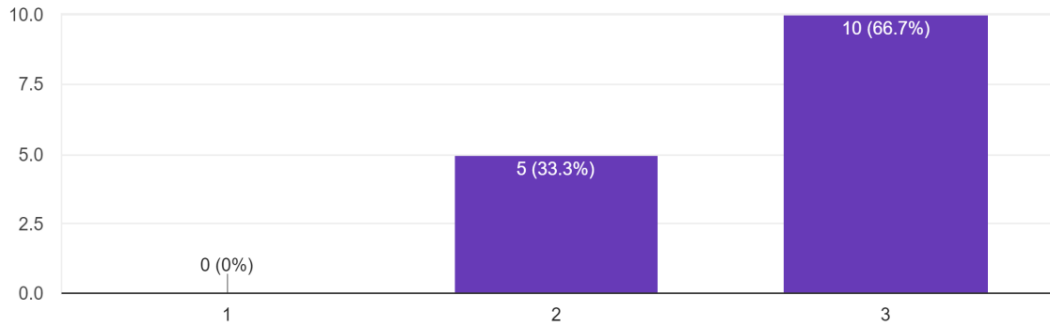
Information presented was relevant and Valuable

15 responses



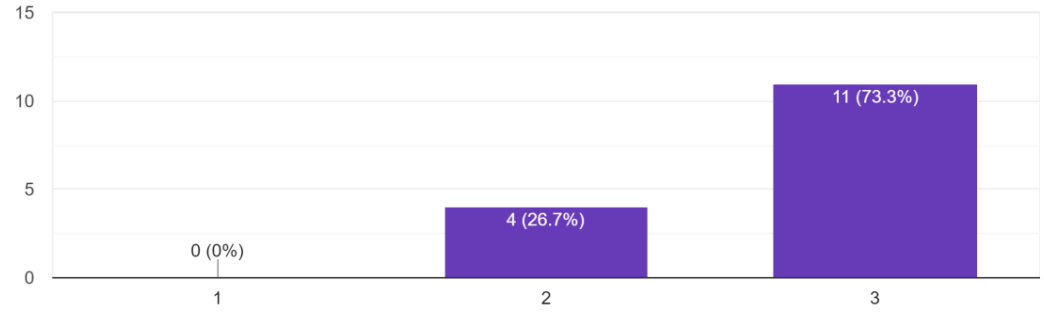
Presentation materials were in an organized manner

15 responses



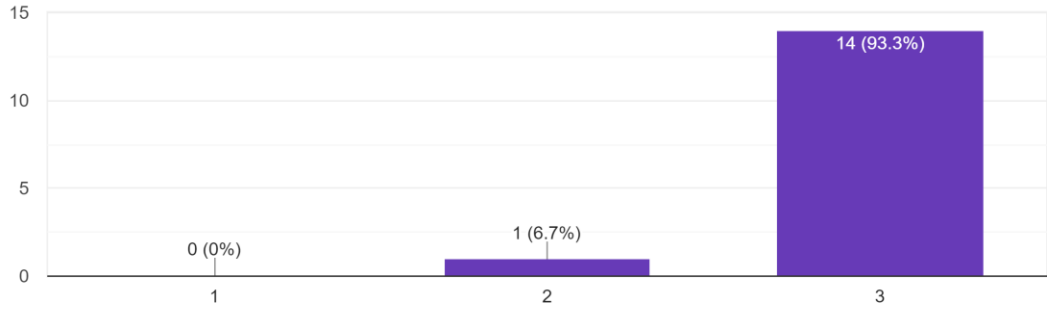
Information presented were clearly explained

15 responses



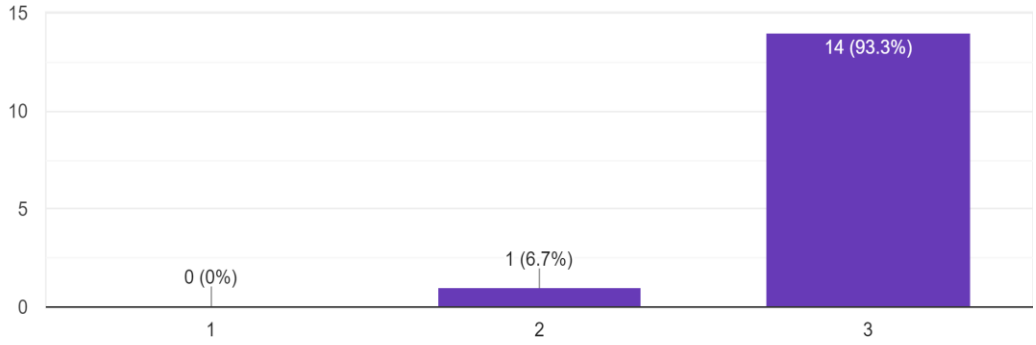
Participants questions were clearly answered

15 responses



Rate the trainer's knowledge on the subject

15 responses

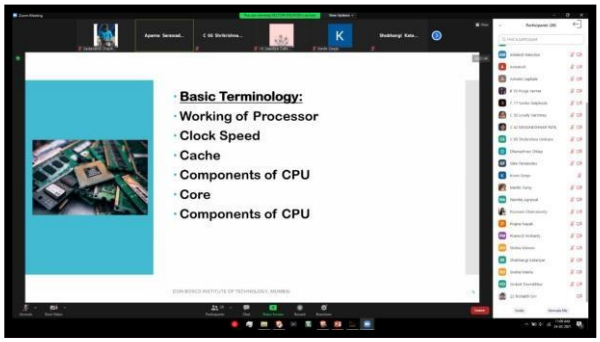


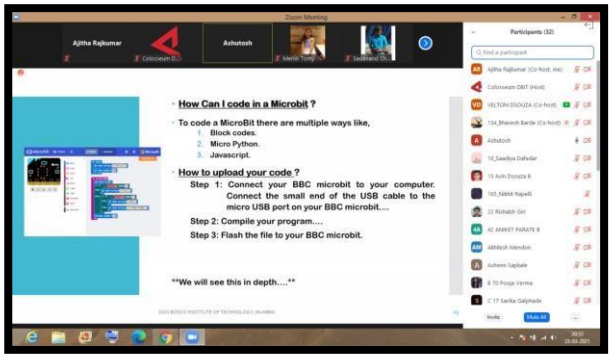
FEEDBACK SUMMARY:

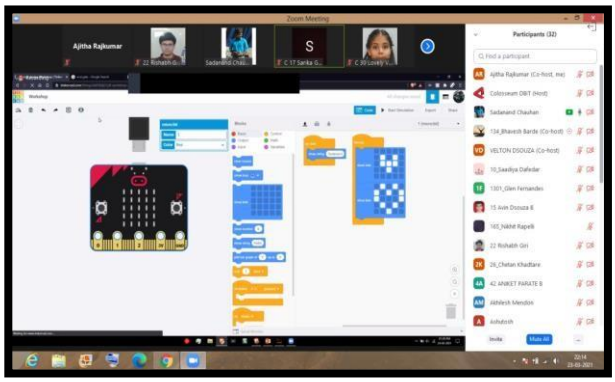
From the above analysis, we can see the overall reception to the workshop was positive. The higher majority of students are from EXTC followed by IT and Computer Science respectively. Many felt the overall workshop was effective , informative, innovative and gave them a new insight to online simulation and felt the trainer had a great knowledge and answered all theirqueries on the topic.

EVENT POSTER:

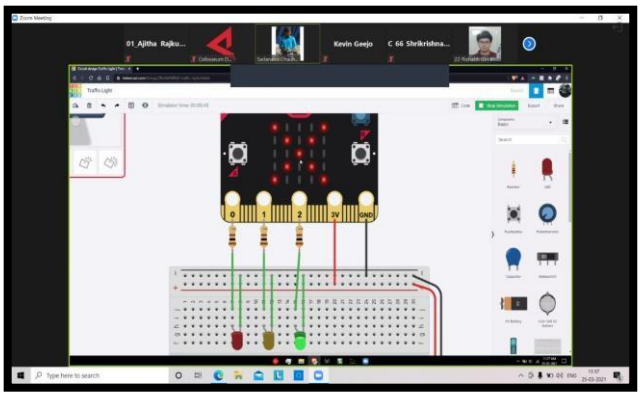
Event Pictures: DAY 1

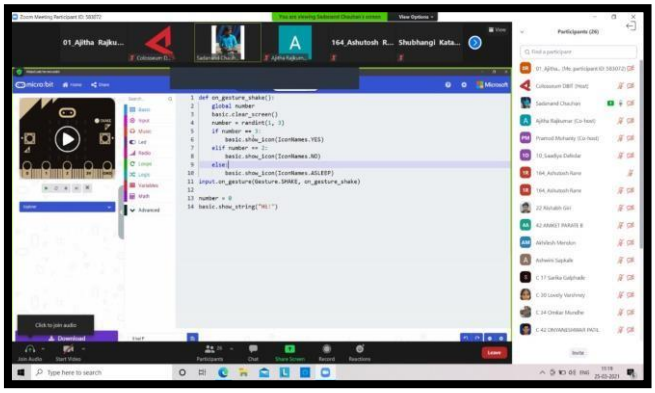


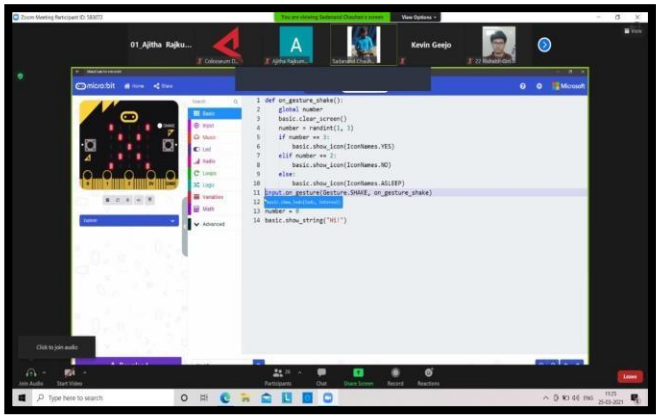




DAY 2:


01_Ajitha Rajku...
Kevin Geejo
C 66 Shrikrishna...


01_Ajitha Rajku...
164_Ashutosh R...
Shubhangi Kata...
def on_gesture_shake():
global number
basic.clear_screen()
number = randint(1, 3)
if number == 1:
basic.show_icon(IconNames.YES)
elif number == 2:
basic.show_icon(IconNames.NO)
else:
basic.show_icon(IconNames.ASLEEP)
input.on_gesture(Gesture.SHAKE, on_gesture_shake)
number = 0
basic.show_string("Hi!")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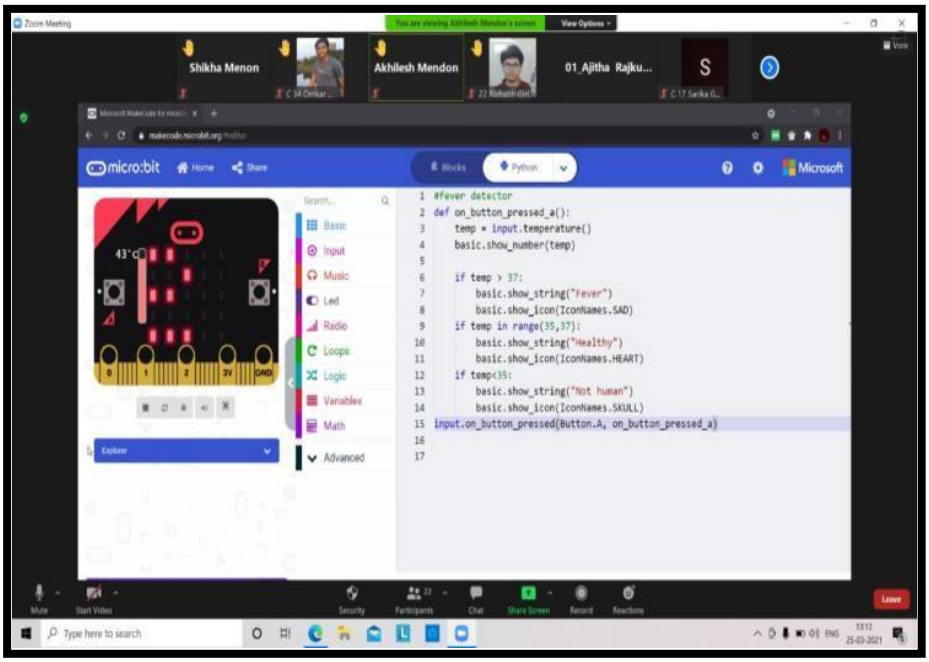
One of our participants group i.e Akhilesh Menon team idea: FEVER DETECTOR



Report Prepared by: Ms. Merlin Tomy - IEEE-DBIT-Documentation HEAD