**DON BOSCO INSTITUTE OF TECHNOLOGY**

**DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION**

**IEEE-DBIT STUDENT BRANCH**

Report on “Considering EMS at Design Stages.”

Topic: “Considering EMC at Design Stages”

**Date:** 9th April, 2022

**Time:** 10:00 am to 11:00 am

**Venue:** Zoom Meeting (Online platform)

**Link for webinar:** https://us02web.zoom.us/j/8391155811?pwd=bDdRWWwxNG4zUVBTM3FzWlZVWFBIQT09

**Speaker:** Mr. Rajesh Rangari, Scientist-E, S.A.M.E.E.R. Mumbai

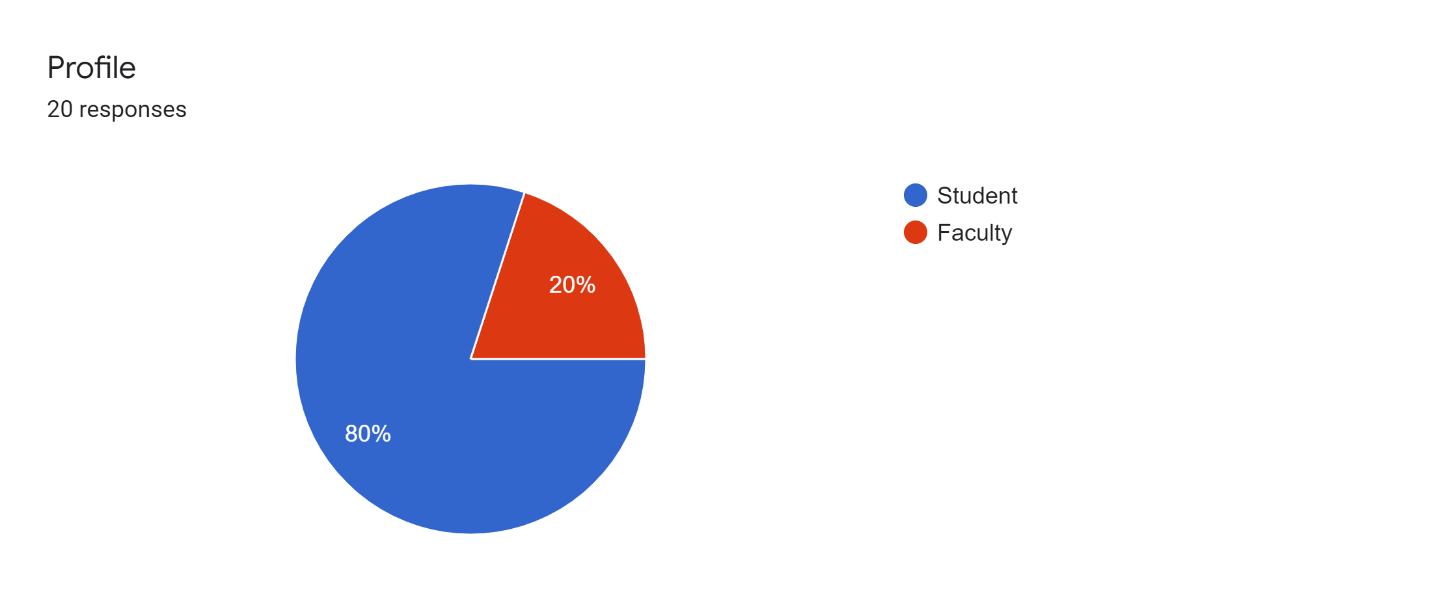
**Objective:**

* Ensure good EMC performance from the outset
* Key to designing products is to provide good EMC performance
* Passing compliance testing

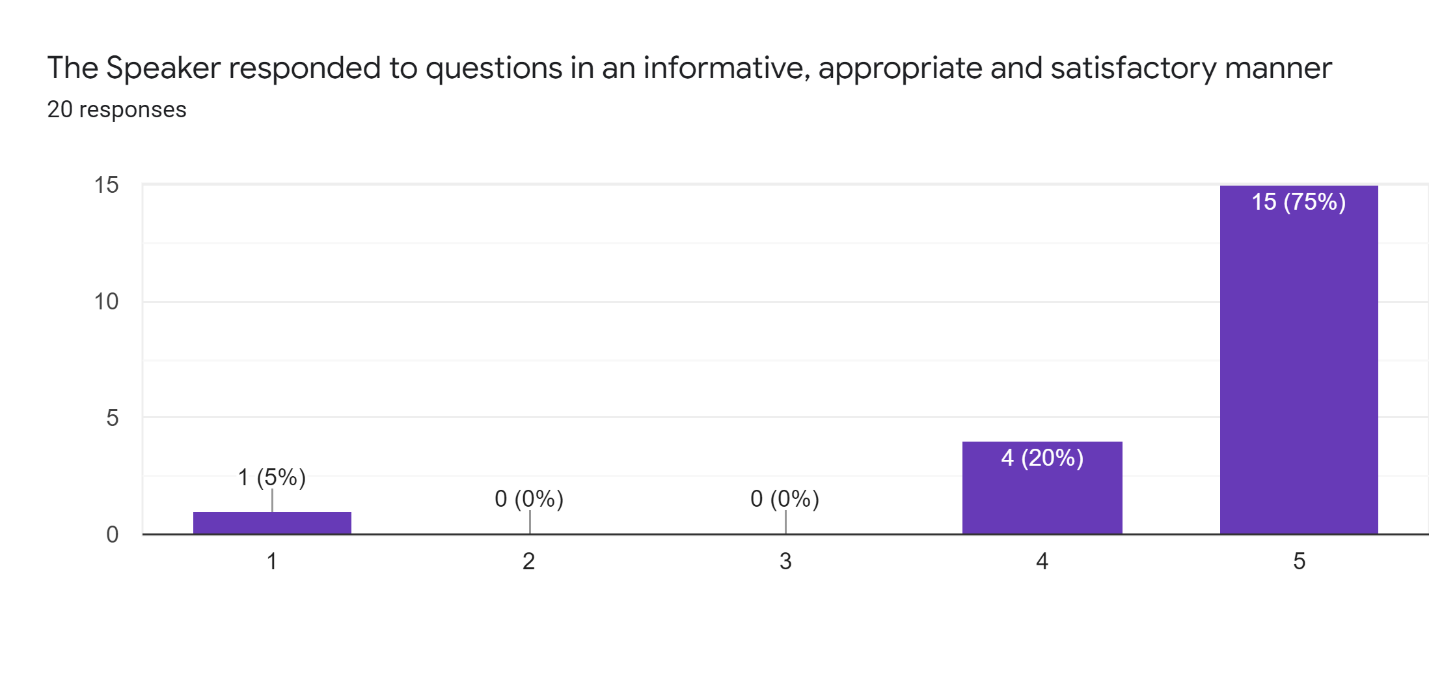
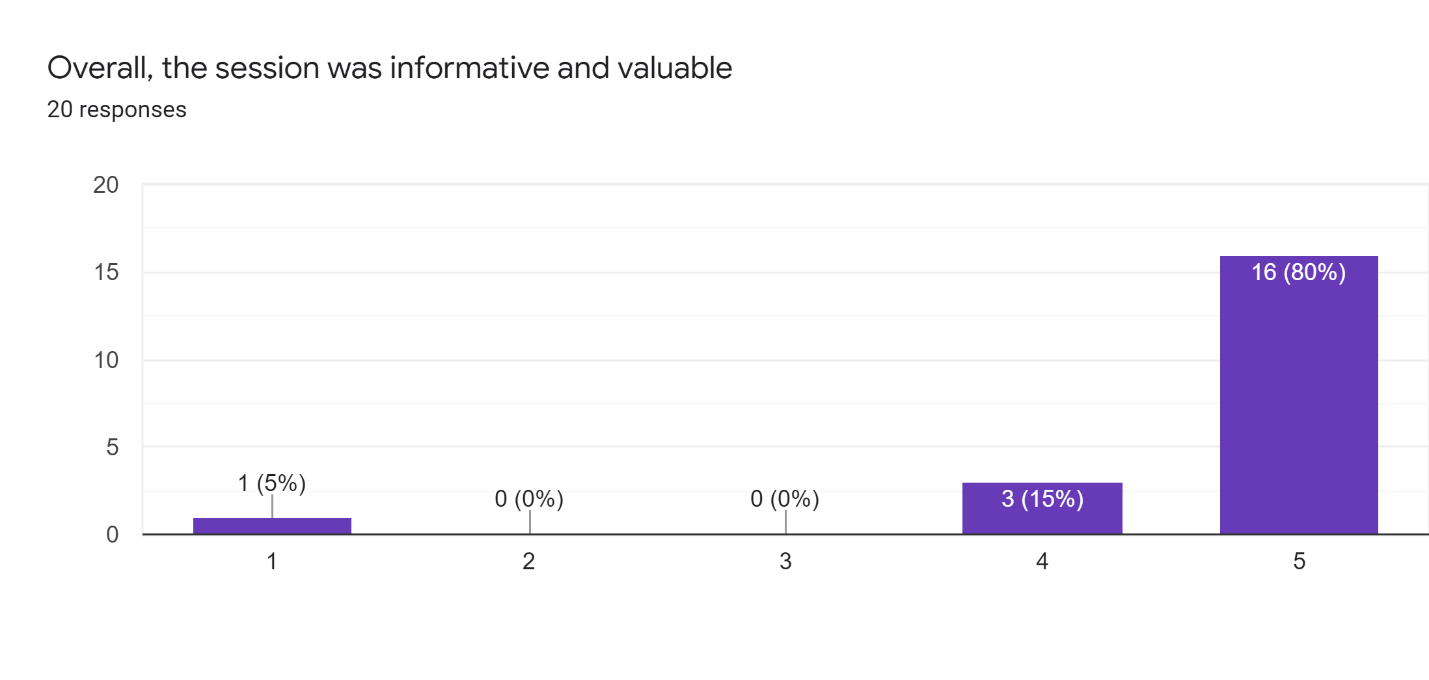
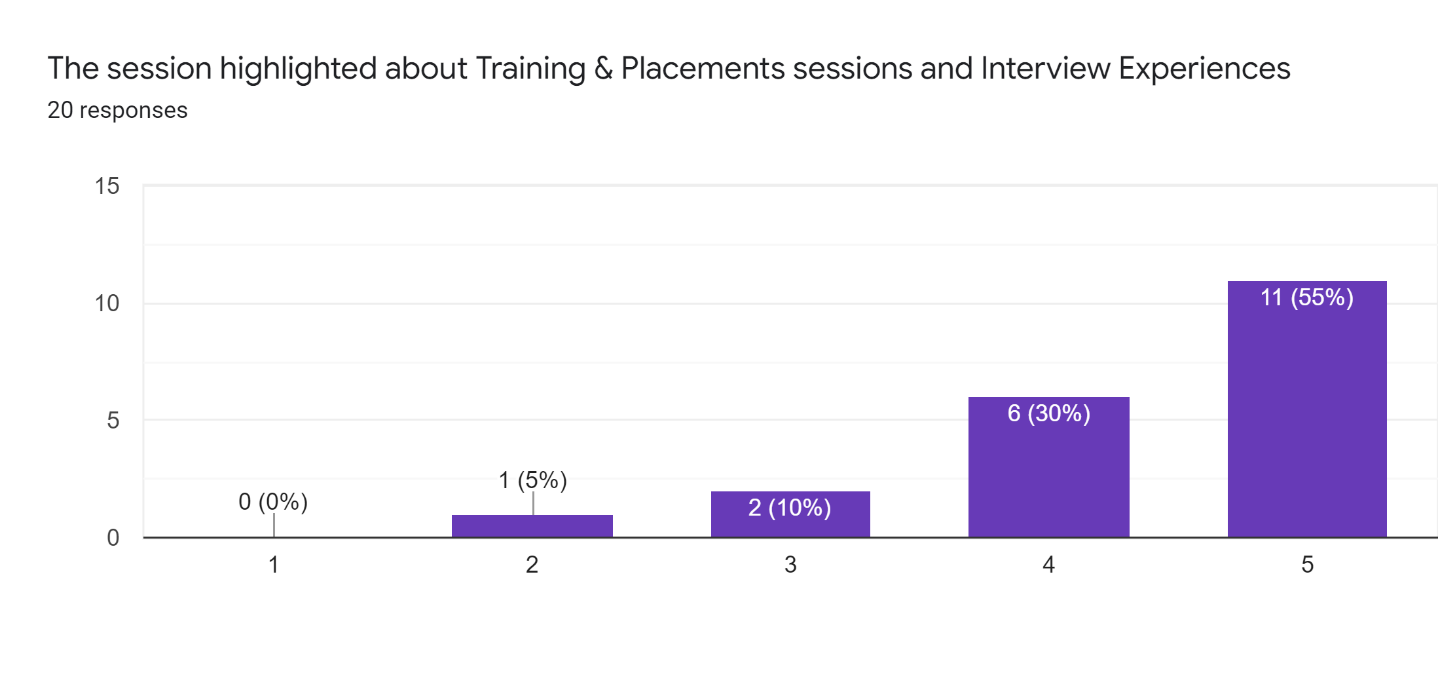
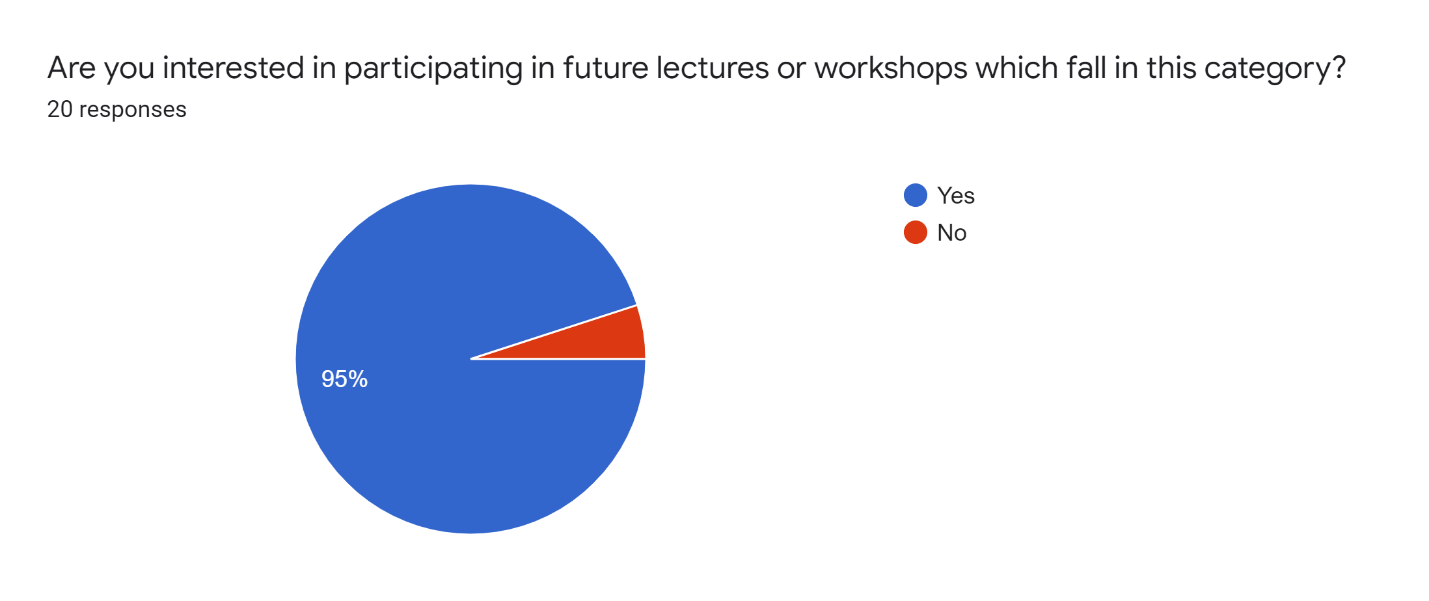
# Description:

* IEEE Bombay Section MTTS Chapter in association with IEEE DBIT MTTS Student Chapter arranged a webinar on “*Considering EMC at Design Stages*” on 9th April, 2022.
* The session was commenced by the host for the day, Mr. Sanjeet Prajapati, (MTT-S Vice-Chairperson) by extending warm greetings to everyone present for the webinar.
* It was then followed by Freda Carvalho giving a brief introduction of Mr. Rajesh Rangari who was the speaker for this webinar.
* Mr. Rajesh Rangari introduced himself to attendees of the meet. He is a well acknowledged person who has 22 years of experience in field of design and development of analog/ digital control for high power RF and MW systems.
* Mr. Rajesh Rangari began by briefing about the sources of EMI – both natural and manmade.
* He talked about the effects of electromagnetic interferences such as disturbances in communication, malfunctions of digital systems, etc.
* Mr. Rajesh Rangari further described the electromagnetic compatibility to the participants.
* He showed the EMC chamber for radiated emission and susceptibility testing which was built by them at S.A.M.E.E.R.
* Mr. Rajesh Rangari also explored through various Electromagnetic Compatibility tests for Immunity.
* He further introduced various factors involved for EMC design which included PCB Design, Interconnects, Wiring and Packaging. He explained all these factors one by one in detail.
* He moved on to enlighten the audience about the various EMI shielding and filtering devices. He also shared his experience of how he was able to reduce noise from 155 mv to just 55 mv.
* Mr. Rajesh Rangari explained “Electromagnetic Interference and Compatibility” and concluded with a brief summary.
* After concluding the address, the webinar was open to Q&A session with participants. All the questions posed by participants were meticulously answered by Mr. Rajesh Rangari.
* After the Q&A session, the speaker discussed overall about the webinar and shared the experience about the webinar.
* The session was concluded with the vote of thanks delivered by Mr. Sanjeet Prajapati to the speaker and the participants.
* In the end, the participants were requested to fill the feedback form which was circulated in the WhatsApp group.

**Feedback Analysis:**

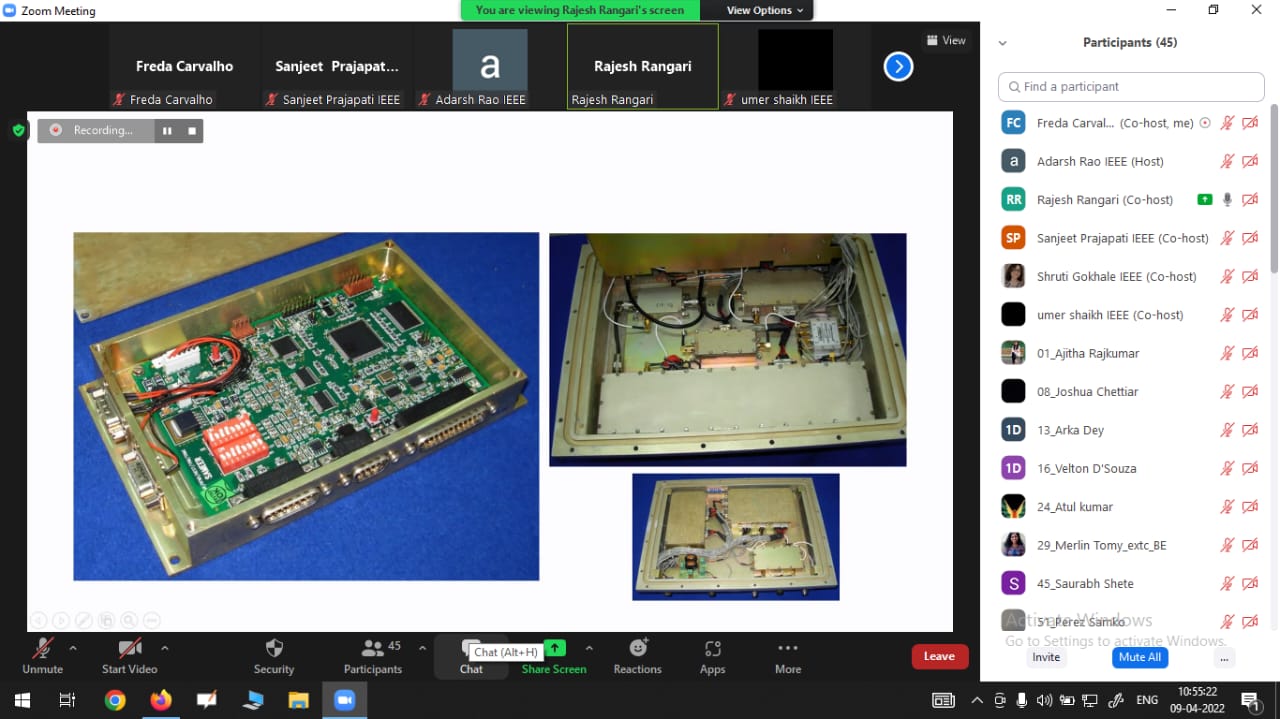
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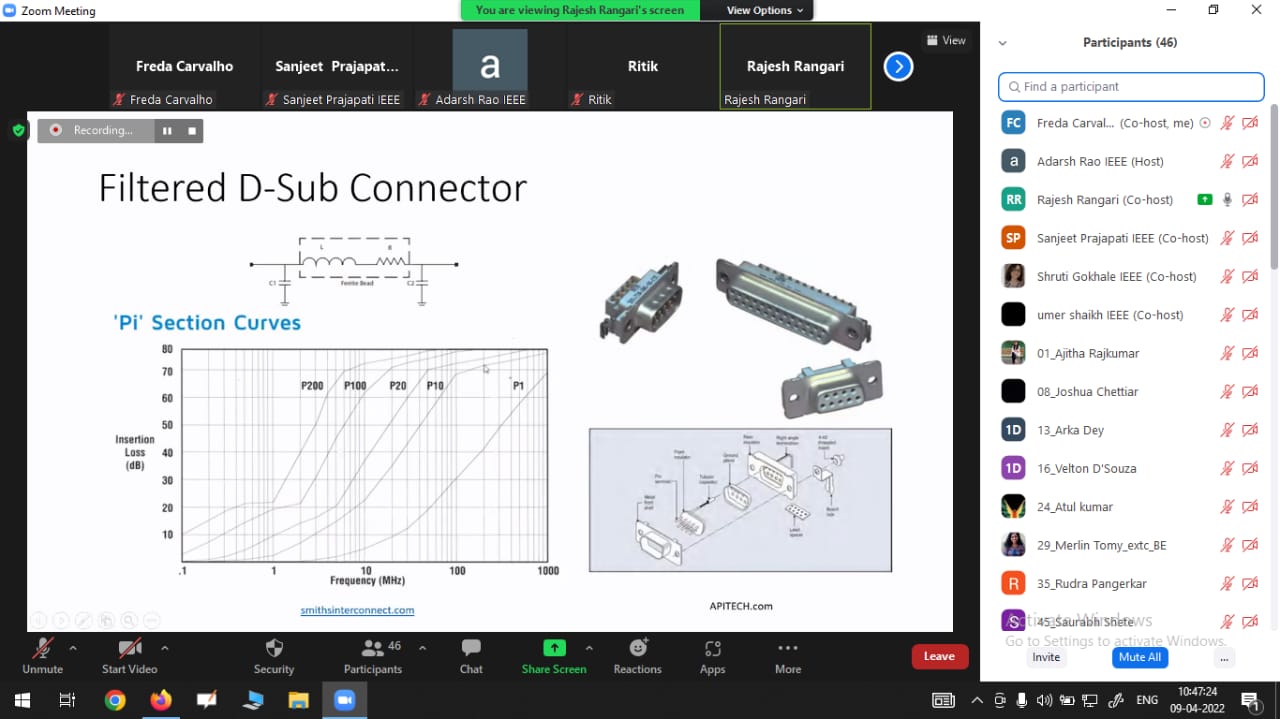
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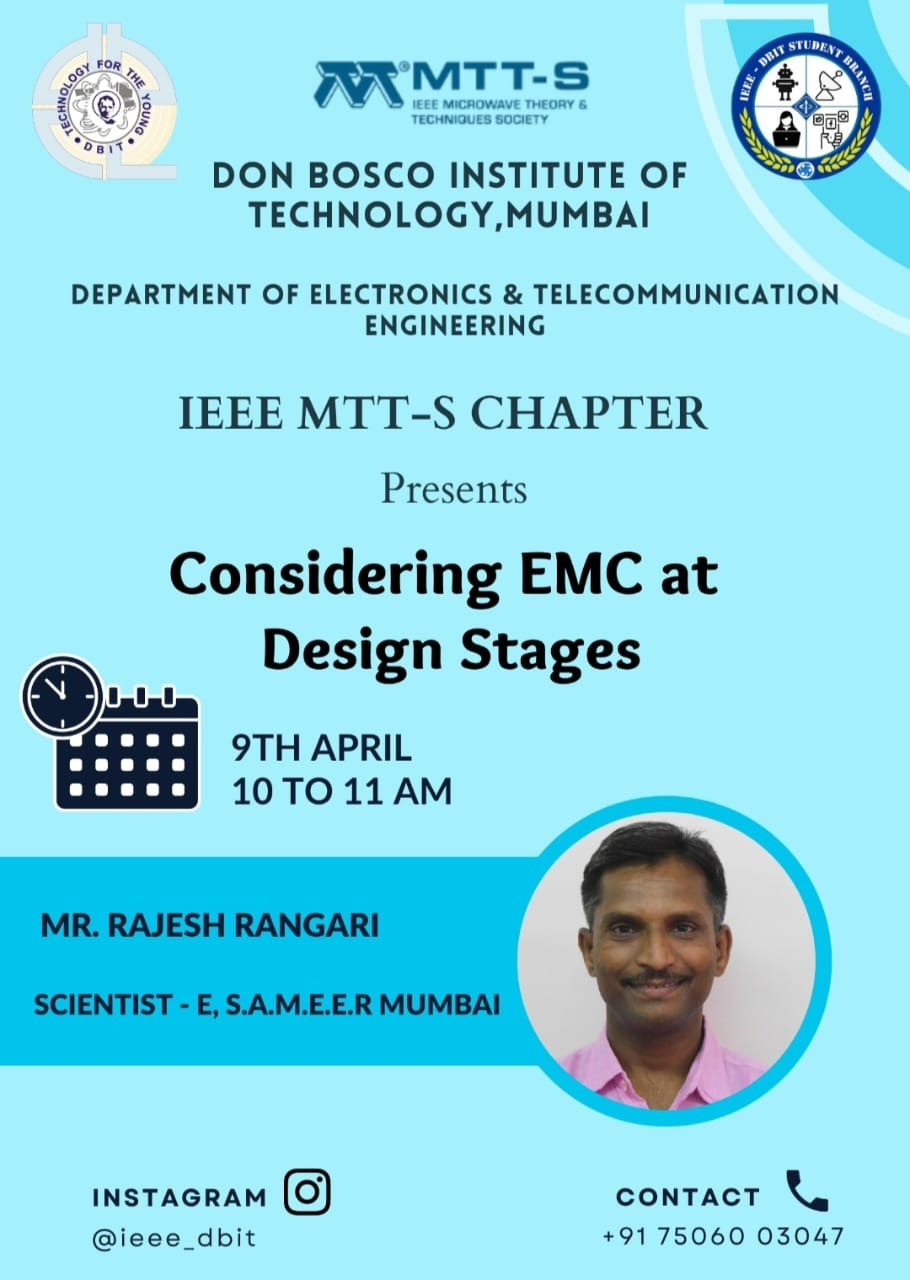
   

**Summary of webinar analysis:**

From the analysis we can determine, that the majority of the attendees were students. Most of the participants have responded that the session was relevant and well organized. The questions asked during the webinar were answered in appropriate and satisfactory manner. The attendees agree that the overall session was valuable and informative. As reflected by the feedback, decent number of attendees felt that the session highlighted about training and placement sessions and interview experiences. Significant number of people are interested in participating in future workshops and webinars.

**Picture from the webinar:**

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**Event Poster:** 

**Report Prepared by:** The Reporting Team, IEEE-DBIT Student Branch.

**Report Approved by:** Prof. Gejo George, IEEE-DBIT BRANCH COUNCIL