



DON BOSCO INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION
IEEE-DBIT STUDENT BRANCH

Report on Technical Poster Designing

Topic: “Technical Poster Designing using Canva”

Date: 13th, 14th and 15th July, 2020

Time: 11:30 am –12:30 p.m.

Venue: Live Zoom Meeting / YouTube

Speaker: Mr. Vidit Prabhu, Web and Graphics Head, IEEE -DBIT

No of participants: 19

Description:

The IEEE-DBIT student branch organized a workshop on Technical Poster Designing on the 13th of July as a part of NEXUS 2020. The aim of the workshop was to provide the students with an introductory knowledge of technical poster designing and the importance of it in engineering.

A) First day – July 13th, 2020

- The session commenced with an introductory speech by Mr. James Robin, the Reporting Head of IEEE–DBIT. His speech included the introduction to the workshop and NEXUS and later introduced Mrs. Freda Carvalho and finally the instructor for the workshop Mr. Vidit Prabhu.
- Mr. Vidit Prabhu took over and started the session by showing the Canva application and giving a brief introduction to Canva.
- With the introduction of Canva, the participants were shown introduced to basics of Canva by showing all the tools and required tools to run them.

- Once students learned about the required tools, the first topic covered was the regular and technical poster where in the participants were given distinguishing points between a regular poster and technical poster.

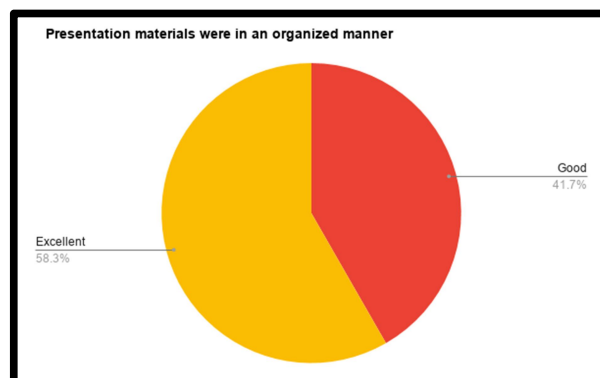
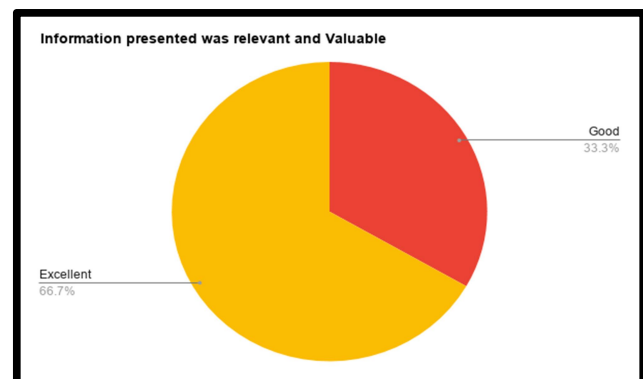
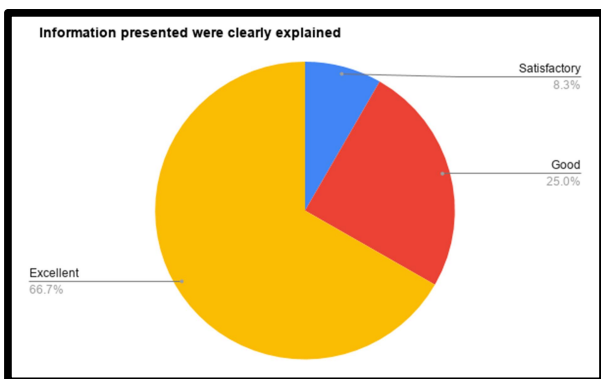
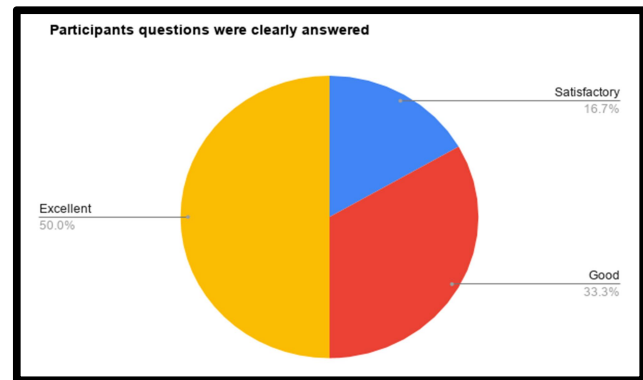
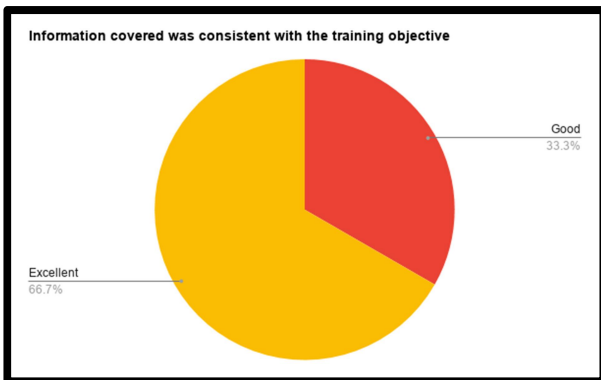
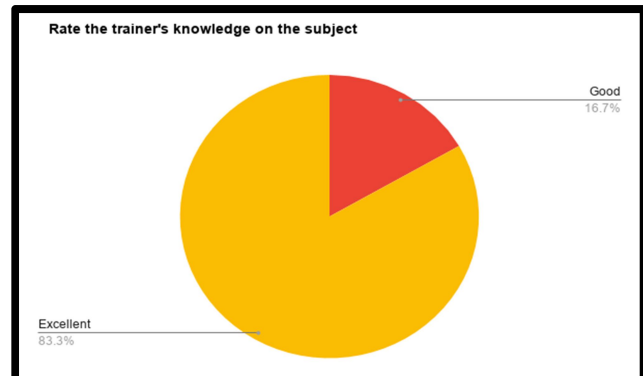
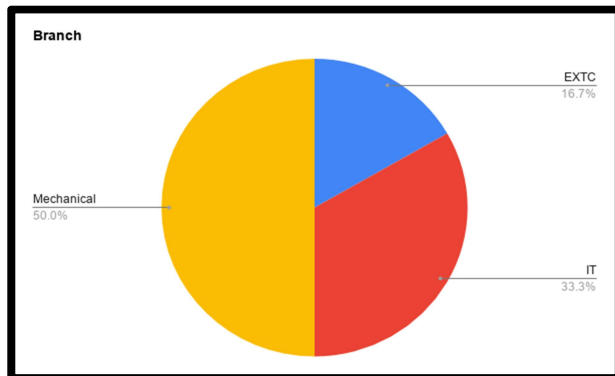
B) Day 2, July 14th, 2020:

- The second day started with an overview on the challenges faced while designing a poster.
- The next topic was on how the aspects and details of a poster where different points regarding how a poster should be designed.
- The final topic was how a poster should be designed and what kind of content should it contain also how the space in a poster is at premium and how to use it precisely.

C) Day 3, July 15th, 2020:

- The third day started with a session on creating a technical poster
- The instructor created a technical poster and asked them to create simultaneously,
- The session concluded by doubt session and a closing speech by Mr. James Robin where he mentioned about the upcoming events and vote of thanks.

FEEDBACK ANALYSIS:



FEEDBACK SUMMARY:

From the above analysis we can see the overall reception to the workshop was positive. The higher majority of students are from Mechanical followed by EXTC and IT respectively. Many felt the overall webinar was satisfactory and informative and felt the trainer had a great knowledge on the topic.

EVENT POSTER:



EVENT PICTURES:

Methods and Results

- Describe procedure/s in detail to make it easy for the reader to understand
- Good to include a flow chart to summarize contents
- Results is generally the largest section in the poster
- Maximum use of graphs and figures is expected
- Put a small text in front of an image to explain what it is

Conclusions and References

- It should be bulleted
- Can contain very few words
- Bigger font can be used
- Should include how different were actual results as compared to hypothesis results
- Good to add applications if any
- References include the resources you have used
- References can be written in smaller font
- If someone else's work is cited, you must include a reference

REFERENCES

[1] A Study of LoRa: Long Range and Low Power Networks for the Internet of Things Aloys Auguin, Jian Yi, Thomas Clausen and William Mark Trowley Published: 9 September 2016, Sensors 2016

[2] Saleem Ahmad Ruoyu Lu and Muhammad Ziaullah "Bluetooth as Optimal Solution for Personal Asset Tracking: A Comparison of Bluetooth, RFID and Miscellaneous Anti-lost Tracking Technologies", School of Management and Economics University of Electronic Science and Technology of China. Published: 29 March 2014

Accepted for presentation in IEEE INDICON 2020 conference, 28th -29th July 2020 at Gayatri Vidya Parashad College of Engineering, Vishakhapatnam, India

Participated in State level Arvikhya Research Convention 2019-2020

Selected for final round of HACKSAGON 2020, organized by ABV-ITTM Gwalior, Madhya Pradesh (to be held post lockdown)

References

[1] P. Pierleoni et al., "A Wearable Fall Detector for Elderly People Based on AHRS and Barometric Sensor," in IEEE Sensors Journal, vol. 16, no. 17, pp. 6733-6744, Sept. 1, 2016.

[2] N. Noury et al., "Fall detection - Principles and Methods," 2007 29th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Lyon, 2007, pp. 1663-1666.

[3] J. Santiago, E. Cotto, L. G. Jaimes, and I. Vergara-Laurens, "Fall detection system for the elderly," 2017 IEEE 7th Annual Computing and Communication Workshop and Conference (CCWC), Las Vegas, NV, 2017, pp. 1-4.

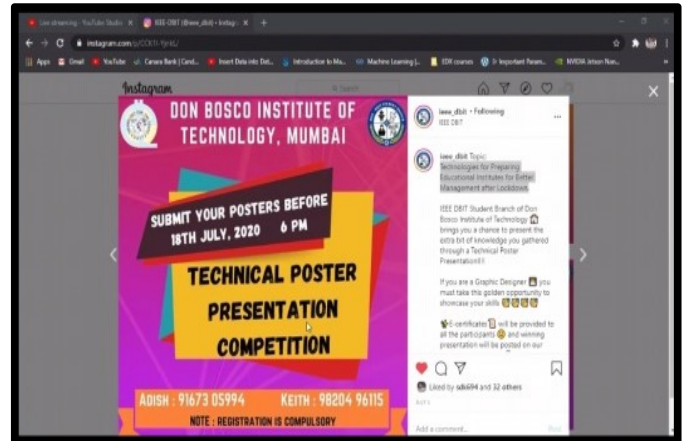
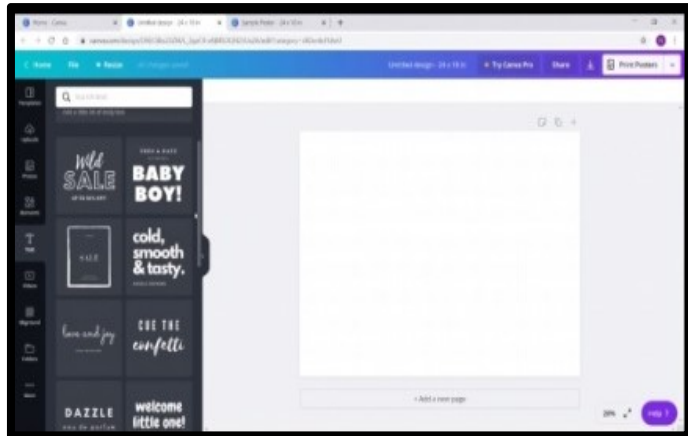
[4] S. Suryanarayanan and N. Rakesh, "Emergency human collapse detection and tracking system," 2017 International Conference on Smart Technologies for Smart Nation (SmartTechCon), Bangalore, 2017, pp. 324-329.

Flow Chart & Design

Pendant

METHODOLOGY

- 1) The end node consists of a Murata CMWX1ZZABZ-091 which is embedded with a NEO-6M Module and an nRF52840 Bluetooth receiver.
- 2) The NEO-6M module receives the geolocation co-ordinates from the satellites in an outdoor environment.
- 3) The Bluetooth receiver, when in the vicinity of Bluetooth Beacon receives the Bluetooth signals consisting of RSSI and UUID.
- 4) The module then passes the acquired Bluetooth signals or the geolocation signals depending upon the context (indoor or outdoor) to the Murata CMWX1ZZABZ, which later sends these signals in the form of LoRa packets.
- 5) The end node transmits the location data after every 15 minutes in a typical scenario while its inside the geofenced region, the tracking interval is increased to 1 minute if the asset traverses a specific predetermined geofenced area for security objectives.
- 6) The Bluetooth receiver forwards the Bluetooth signals containing RSSI broadcasted by the Bluetooth Beacon to the Application server implements Trilateration to give a precise location in the indoor environment.



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