

A Report on “Community Outreach Program for School Students”
Organised by MITS IEEE Student Branch Chapter
In association with Department of Electronics & Communication Engineering
on 18th November 2024



Report Submitted by: Dr. Kumar C, Assistant Professor, Department of Electronics & Communication Engineering.
Total number of participants: 42 (30 School Students, 2 Faculty, 10 MITS IEEE Students)
Venue: Jawahar Navodaya Vidyalaya, Valasapalle.
Mode of Conduct: Offline

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Department of Electronics & Communication Engineering, MITS IEEE Communication Society, MITS IEEE Signal Processing Society, MITS IEEE Sensor Council, MITS IEEE Nanotechnology Council and MITS Community Outreach Program (Design Thinking Studio-MITS) jointly organized a Program for Jawahar Navodaya Vidyalaya- Valasapalle Students in the ATL Tinkering Lab of Jawahar Navodaya Vidyalaya, Valasapalle, Madanapalle, Andhra Pradesh.

Madanapalle Institute of Technology & Science has entered into an MoU with Jawahar Navodaya Vidyalaya, Valasapalle, Madanapalle, for collaboration, Training activities for the school students to enable problem solving, creative thinking and critical thinking skills through the kits that are available technically in the Atal Tinkering Lab.

Dr. Arul Kumar from **Institute Innovation Council (IIC)- MITS** and Faculty Innovation Fellow of d.school, Stanford University-USA **Mrs. Vijaya Lakshmi**, Senior Manager IRO & Students' Counsellor initiated and guided the event. **Dr. Kumar C** Asst Professor, Dept of Electronics & Communication Engineering, MITS IEEE Student Branch Counsellor and **Dr. Kiran Kumar M**, Asst Professor, Dept of Computer Science (Data Science), Coordinator of MITS “Community Outreach Program” handed over the MoU to Mr. Velayudhan, Principal of the host Institution.



MITS IEEE Students Branch Students from the Department of Electronics and Communication Engineering actively involved in explaining Electronics Basic Components and had transferred the first and knowledge about the equipment. This Hands-on Experience enthused all the participants. The School Students of Grade VIII to X actively participated and explored the basic Electronic Components.



This outreach Program is aligned with the prescribed ATL Tinkering Syllabus of Level 1. The B. Tech students have explored all the kits in the ATL Tinkering Laboratory and planned for the coming sessions. The Level 1 training for the batch of 30 students was successfully completed. While transferring the knowledge, MITS students learnt many aspects like how to deliver the content, how to make the presentation interesting etc. This unique experience has given them a sense of achievement and also it triggered the social responsibility. So far, the students have heard the concept “Social Responsibility” now in this initiative they saw the impact of it. With a promise to reach the students again and provide them the training, MITS students came back to the campus. The further training will continue with respect to the plan by the ATL Tinkering lab SPOC Dr. Kiran Kumar, who played an active role in connecting the carrying out the task. We thank for Management & Administrators for this opportunity.

Outcome:

- The Students understand the basics of Electronic components like Resister, Capacitor, Light Emitting Diode (LED), Breadboard etc.,
- The Students can able to connect and demonstrate Series of Resisters and calculate the final value
- The Students can able to design a Traffic light Systems with Mechanical switch.
- The Students can operate Multimeter for verification of circuits.
- The MITS B. Tech Students exposed their technical skill to School and transferred the knowledge and Transforming the School Students to Technical Students Community.