BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT



Autonomous Institute Under VTU, Accredited by NBA and NAAC Yelahanka, Bengaluru-560119.

Name of the Club:

IEEE Antennas and Propagation Society(APS) and Microwave Theory and Technology Society (MTTS) BMSIT Student Branch

Date of Formation:

19th October 2024

Coordinator:

Dr. Anitha V R, ECE

Objective:

To advance the theory, design, and practical applications of antennas, propagation, microwaves, and millimeter-wave technologies.

Frequency of Meeting:

Two team meetings per month, and an Annual General Meeting with all APS+MTTS members.

Social media link:

LinkedIn:https://www.linkedin.com/in/ieee-bmsitm-antennas-and-propagation-society-530583334/

Instagram: https://www.instagram.com/aps mtts bmsit/

Roles and Responsibilities:

We are a community passionate about exploring, sharing, and innovating in the fields of antennas, electromagnetics, microwaves, and wireless systems. Members engage in hands-on projects, research discussions, workshops, and technical events related to RF design, satellite links, radar systems, and emerging mm Wave and THz technologies. We aim to connect BMSIT to global advancements through collaborative learning and cutting-edge developments in antenna and microwave engineering.

One Year Activities conducted:

Mission SPECTRUM

On December 20, 2024, BMSIT&M hosted *Mission Spectrum*, a spy-themed technical event by IEEE AP-S MTT-S BMSIT in collaboration with the ComSoc Chapter. Participants became Signal Operatives, decoding signals, designing circuits, and transmitting countermeasures to stop a cyber-attack. The four rounds included a timed quiz on ASK modulation and RC circuits, Morse code decoding with Audacity, unlocking schematics via passcode, and assembling an RF transmitter to send a counter-signal. The first team to transmit successfully won, making *Mission Spectrum* an exciting blend of signal processing, hardware design, and problem-solving

Newsletter

Started on June 3rd 2025, Our weekly newsletter for the college infoboard is a bite-sized, research-backed publication that breaks down complex tech and engineering topics into simple, engaging content. From cutting-edge wireless communication to real-world applications of AI and antennas, each edition helps students stay informed about emerging technologies and industry trends. It sparks curiosity, supports academic growth, and connects classroom concepts with practical innovation—all in just a few minutes of reading or listening.

IEEE Open Day

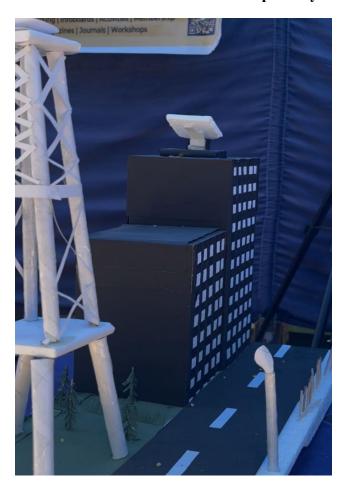
On March 21st 2025, Antennas and Propagation Society(APS) and Microwave Theory and Technology Society (MTTS)BMSIT&M showcased its initiatives at the IEEE COMP-SIF 2025 Open Day at BMS Institute of Technology and Management. We showcased various types of antennas, ranging from monopole to dipole designs, highlighting their structure and applications. Additionally, we demonstrated an RF energy harvesting system, which captures ambient radio frequency signals—like those from Wi-Fi or cellular networks—and converts them into usable electrical energy to power low-power devices.. Live hardware demos offered hands-on experiences, and Dr. Prasant Misra, Chair-Elect of the IEEE Bangalore Section, visited our stall and shared valuable insights. We also distributed APS+MTTS merchandise, engaging students and professionals and reaffirming our commitment to advancing communication technology.

Photos

Newsletter



IEEE Open Day







Mission Spectrum

