

MICROWAVE CAD LAB

The Microwave CAD Lab in the Department of Electronics and Communication Engineering serves as a center for innovation and exploration, providing an ideal setting for students and research scholars to succeed in the field of RF, Microwave and Antennas. It is well-equipped with personal computers, which provide the framework needed for carrying out research and creating practical applications. The lab also has the provision of Antenna fabrication unit and testing equipment such Vector Network Analysers (VNAs). Two portable VNAs are upto 6 GHz and Rhodes & Schwarz VNA from 10 MHz to 40 GHz.

The lab promotes knowledge-sharing and brainstorming sessions by creating a vibrant community of like-minded people. It provides a forum for interaction and mentoring between academics and business leaders. B. Tech, M. Tech, and Ph.D. students get the chance to collaborate closely with experienced researchers and academic members, taking advantage of their direction and knowledge. Students' analytical thinking, problem-solving skills, and overall academic development are improved by exposure to real-world projects and research in the areas of RF and Microwave Engineering and Antenna Designing. Many Ph.D. and M. Tech students have successfully defended their thesis through the lab. More than 10 reputable journal papers from SCI and Scopus have been accepted.

A variety of software libraries, frameworks, and open-source tools, including Electromagnetic Simulation softwares: ANSYS- HFSS, CST-MW Studio, Electronics Circuit Simulation software: Keysight ADS, and MATLAB. These softwares are accessible at the lab, allowing students to create practical applications and contribute to ongoing research projects. The lab serves as a collaborative setting that promotes knowledge sharing and teamwork among people with similar interests in RF, Microwave and Antennas. The Microwave CAD Lab is essential in enabling students/ researchers and academicians to advance this revolutionary discipline.

