

## COMMUNICATION SYSTEM LABORATORY

### Lab Description:

The lab provides the facility to provide the deep knowledge about the analog, digital communication systems, high frequency components. The lab is equipped with basic experimental setups like analog and digital communication trainer kits, advanced communication link kits, microwave test benches and also advanced experimental setups like Antenna design tools, spectrum analyzers and software defined radio to help the students to design, build and analyze the systems. The laboratory experiments help to perform the investigation of the properties like radiation characteristics and EMI-C behaviour of the basic RF components

### Lab Facilities:

#### Major Equipment in Communication Lab:

1. Near Field probe with pre amplifier,
2. Software Defined Radio Hardware,
3. Vector Signal Generator - 4GHZ
4. EMC Trainer Kit
5. Real-time spectrum Analyzer
6. Vector Signal Analysis software
7. Advanced Microstrip Trainer Kit
8. Arbitrary Function Generator

### Utilization:

- A. **Academic:** This lab is utilized for conducting the laboratory course **10211EC305-Communication Systems Lab**
- B. **Research:** RF Filters Couplers and antennas