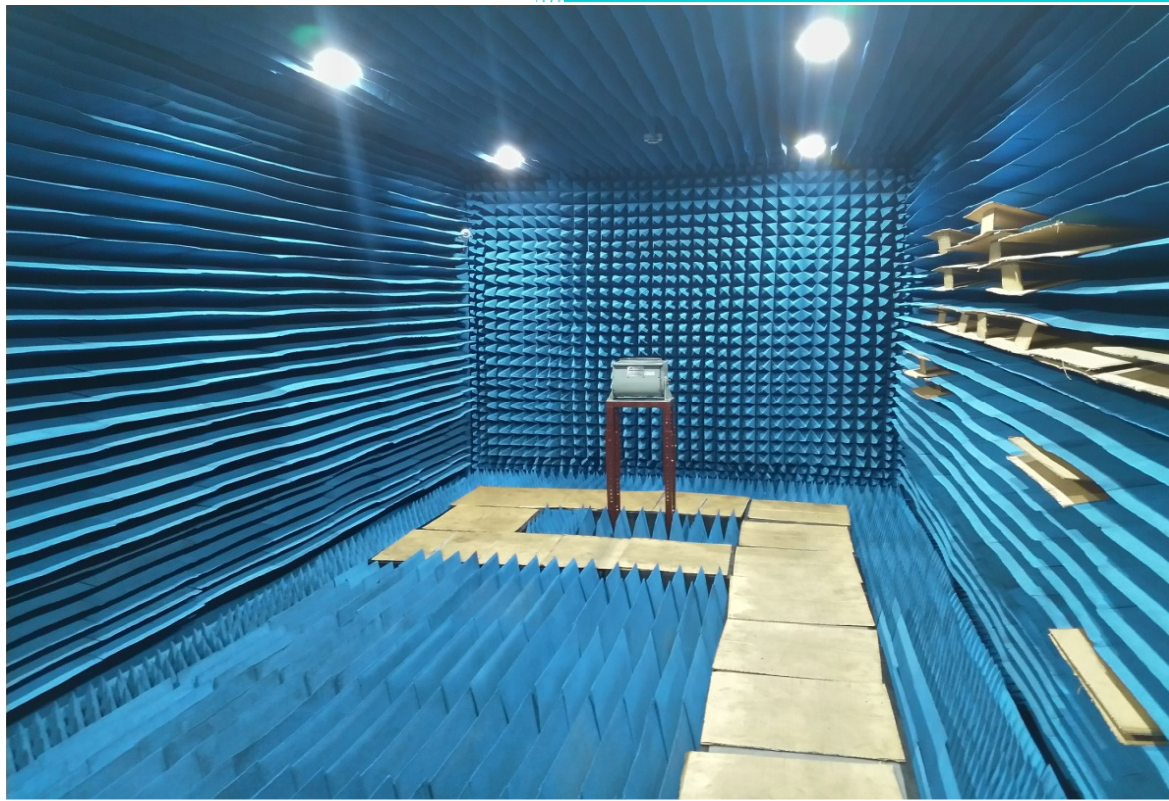


Department of Electronics & Communication Engineering Government Women Engineering College Ajmer



PG Research Lab



This lab is dedicated to the study of all aspects of testing and characterization of wireless communication signal. In addition, the lab also consists of facilities dedicated to microwave active and passive devices. The research activities conducted in the lab are as follows: Design and characterization of Microwave antenna and passive circuits (filters, couplers, crossover etc.), design and characterization of Microwave active circuits (LNA, PA etc.) The lab is also conducted for teaching activities which are as follows: Contemporary Communication System Laboratory Communications Engineering Lab. RFIC laboratory, RF Simulation Lab etc.

Faculty Member In-charge:

Dr. Ashok Kumar

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Simulation Tools:

- Antenna Simulation Software (CST Studio Suite) (25 Perpetual license)
- Microwave Antenna & Design Tool (HFSS)
- RF & microwave system design tool (ADS)(5 Users Perpetual license)

Testing and Measurement Facility:

- RF Anechoic Chamber Facility upto 40 GHz
- Performance Network Analyser (PNA-L) (10 MHz to 43.5 GHz)
- MXG Analog Microwave Signal Generator (Frequency range from 100 kHz to 40GHz)
- Waveguide Horn Antenna HF 907 (Frequency range from 2 GHz to 18GHz)
- Digital Storage Oscilloscope 1GHz- 10GS a/s
- Isotropic Antenna (Frequency range from 700 MHz to 6 GHz)
- RF lab equipments (RF Lab Equipments, DC Power Supply, Power Meter & USB RF Power Sensor)
- Spectrum analyser (Frequency Range from 9 kHz to 8 GHz)
- Eleven lab PCB Prototype Machine
- Intel CORE i7 vPro Computers (25 nos.)
- Solder & Desoldering Station with Magnifying Glass

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