

Laboratory Name: Communication Laboratory
Laboratory In-Charge: Dr. Sreelakshmy R

Venue: 1421
Qualification: M.E., Ph.D.,

TECHNICAL MANPOWER

Laboratory Assistant: Ms. Parameswari G
Qualification: B.E (ECE)

DESCRIPTION ABOUT THE LABORATORY

Communication Laboratory is essential for electronics and communication engineering students, offering practical experiments and simulations with modern instruments in analog and digital communication. Furthermore, the lab includes advanced tools, promoting innovation and problem-solving, and prepares students for industry challenges in technologies like IoT and 5G networks.

OBJECTIVES

- To provide practical exposure to basic and advanced concepts in electronics and communication engineering.
- To familiarize students with Software Defined Radio concepts and real-time signal analysis techniques.

LABORATORY SPACE AND STUDENT ALLOCATION

Area of the Laboratory : 160 sq.m
No. of students per session : 30
Batch Size : 4 students / batch
Weekly Utilization Status : 28 hours / week

COST OF THE LABORATORY

Overall cost of the Laboratory : Rs. 63,03,084/-



SOFTWARE DEFINED RADIO

ADDITIONAL FACILITY

Equipment Name
Software Defined Radio
Cost of the Equipment
Rs. 6,10,470
Date of Purchase
26.12.2019

LIST OF MAJOR EQUIPMENTS



**USB REAL TIME SPECTRUM ANALYSER
AND VECTOR SIGNAL GENERATOR**



EMC TRAINER KIT (14 BOARDS)

S.No	EQUIPMENT NAME	QUANTITY	COST (RS.)
1	PBS2 NEAR FIELD PROBE WITH PRE AMP	1	278834
2	USB REAL TIME SPECTRUM ANALYSER	1	175818
3	VECTOR SIGNAL GENERATOR	1	591907
4	SOFTWARE DEFINED RADIO	2	835470
5	ADVANCE MICROSTRIP TRAINER KIT	1	111900
6	EMC TRAINER KIT (14 BOARDS)	1	200600
7	MODULAR RF COMMUNICATION TRAINING LAB	1	218722
8	ARBITRARY FUNCTION GENERATOR	3	54750
9	FUNCTION GENERATOR	34	370404
10	DIGITAL STORAGE OSCILLOSCOPE	27	738323
11	REGULATED POWER SUPPLY	16	55220
12	DESKTOP COMPUTER(I5)	5	1,52,450
13	DESKTOP COMPUTER(I7)	13	8,32,775
14	Vu-Pc & VECTOR SIGNAL ANALYSIS SOFTWARE	1	6,13,043
Total Cost			52,30,216