SCHOOL OF ELECTRICAL AND COMMUNICATION
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Laboratory Name: Signal Processing Laboratory   **Venue: 1611**
Laboratory In-Charge: Dr. V.Gnanaprakash   **Qualification: M.E., Ph.D.,**

TECHNICAL MANPOWER

Laboratory Assistant: Ms.C.Pavithra
Qualification: B.E.,(ECE)

DESCRIPTION ABOUT THE LABORATORY

The Signal Processing Lab provides support to applied research (UG projects) aimed at the design and development of solutions related to signal processing applications such as filter design, multirate signal processing, speech recognition, image processing operations in the field of medical, communication, audio and video processing.

OBJECTIVES

➢ To provide hands-on experience with signal transformation, filtering, modulation, and other key techniques.

➢ To enable students and researchers to conduct academic and research activities in signal processing.

LABORATORY SPACE AND STUDENT ALLOCATION

Area of the Laboratory   : 160 sq.m
No. of students per session   : 60
Batch Size   : 1 students / batch
Weekly Utilization Status   : 38 hours / week

COST OF THE LABORATORY

Total cost of equipment   : Rs. 66,38,404.00
Total cost of consumables   : Rs. 23,050.00
Overall cost of the Laboratory   : Rs. 66,61,454.00

ADDITIONAL FACILITY

Equipment Name
ECG Front-End Performance Demonstration Kit
Cost of the Equipment
Rs. 30090.00
Date of Purchase
12.10.2022

ECG Front-End Performance Demonstration Kit

LIST OF MAJOR EQUIPMENT

S. No.	Equipment Name	Quantity	Cost (Rs.)
1	TMS320LCDK6748 DSP Starter kit	28	13,26,320
2	HP Desktop (i7-12700-2.1 GHz upto 4.9 GHz, 16 GB RAM, 1TB HDD)	15	9,02,700
3	DELL i5 PCs(i5-7400,2.4GHz,4GB RAM,1 TB HDD)	67	18,16,015
4	MATLAB(R2025a) Campus Suite Software	-	20,61,735
Total Cost			**61,06,770**

TMS320LCDK6748 DSP Starter Kit