



Amrita Sai Institute of Science & Technology **(AN AUTONOMOUS INSTITUTION)**

(Approved by AICTE, New Delhi & Permanently Affiliated to JNTUK Kakina)

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DEPARTMENT OF ELECTRONICS and COMMUNICATION ENGINEERING

ANALOG AND DIGITAL COMMUNICATION LABORATORY

Lab In charge: Mrs.B.SUNITHA

Assistant Professor

Department of ECE

Objective: The objective of this laboratory is to understand various Modulation and Demodulation techniques in time domain and frequency domain, to Comprehend Pulse analog Modulation and Demodulation techniques, to impart hands on experience and train the students to analyze various base band and pass band modulation and demodulation techniques and understand their performance, to Comprehend various coding techniques on transmission medium in Digital communications.

S.NO	Name of the Major Equipment
1.	Cathode Ray Oscilloscope
2.	Function Generator
3.	.Regulated Power Supplies
4.	Balanced Modulator
5.	AGC Characteristics
6.	Squelch Circuit
7.	Single Side Band System
8.	Frequency Mixer
9.	Diode Detector Characteristics
10.	Frequency Synthesizer
11.	Synchronous Detector
12.	Digital Phase Detector
13.	Phase locked Loop
14.	Spectrum Analyzer
15.	Frequency Modulation
16.	Pulse Code Modulation
17.	Time Division Multiplexer
18.	Pulse Position Modulation
19.	Delta Modulation
20.	DPCM

21.	Sampling Theorem
22.	Phase Shift Keying
23.	Frequency Shift Keying
24.	Pulse Amplitude Modulation
25.	Pulse Width Modulation
26.	DPSK
27.	Binary cycle code Encoder & Decoder
28.	Source Encoder & Decoder
29.	Companding
30.	Linear Block Coder Encoder & Decoder
31.	Convolution Coder Encoder & Decoder



