

Shri Ramdeobaba College of Engineering and Management, Nagpur-13.
Department of Electronics Engineering
Analog and Digital Communication Engineering Lab [ENP357]
Even Semester – 2023-24

Lab 04

Pulse Modulation

(PAM, PWM, PPM)

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Batch / Roll No. :	A1/12
Semester/Section:	6 th /A
Date of Performance:	13/2/2024
Date of Submission:	17/4/2024
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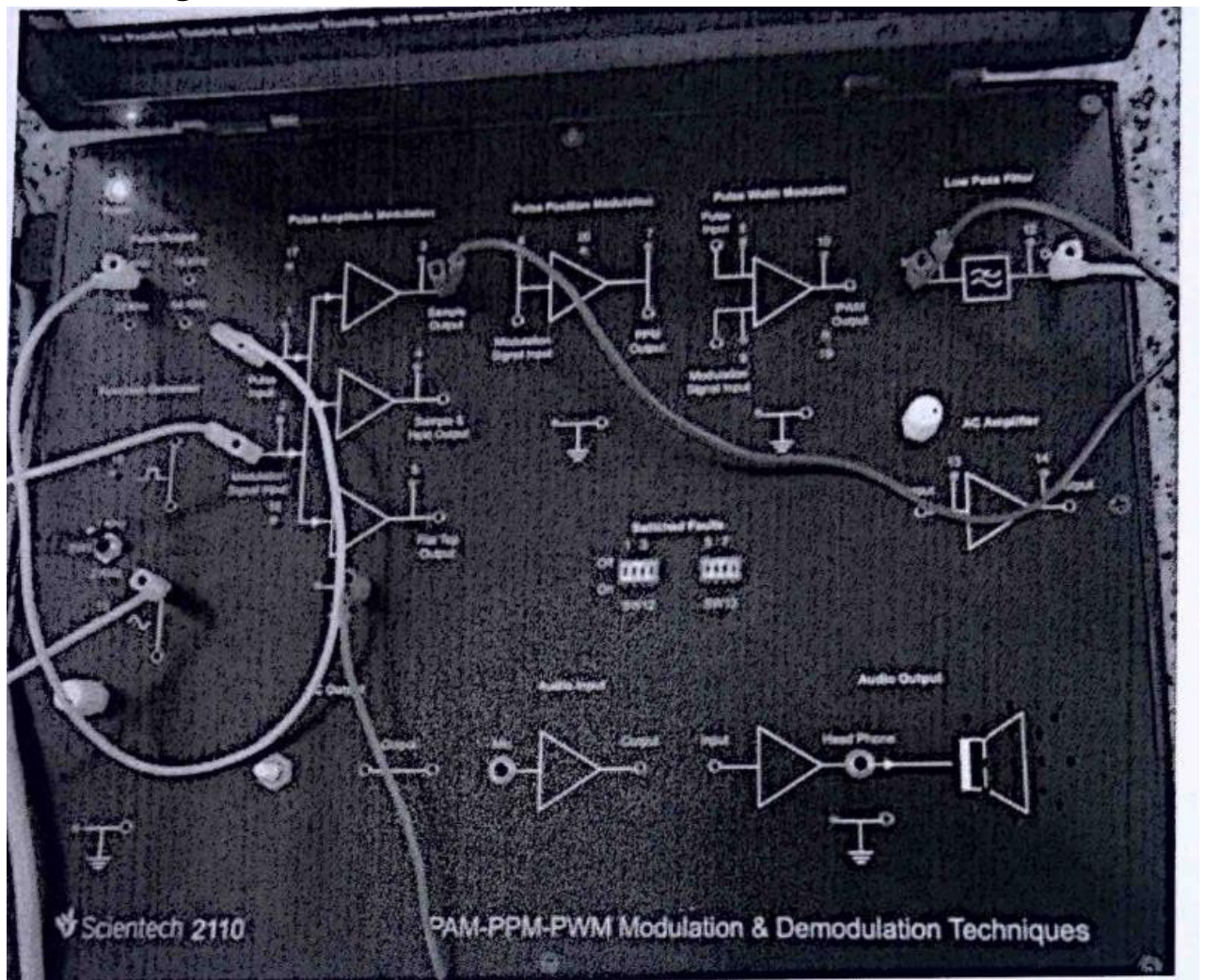
Lab-04

1. **Aim:** Demonstration of Pulse amplitude, Pulse width and Pulse Position Modulation techniques.

✓ **Apparatus:** PAM-PWM-PPM Modulation and Demodulation Technique, DSO.

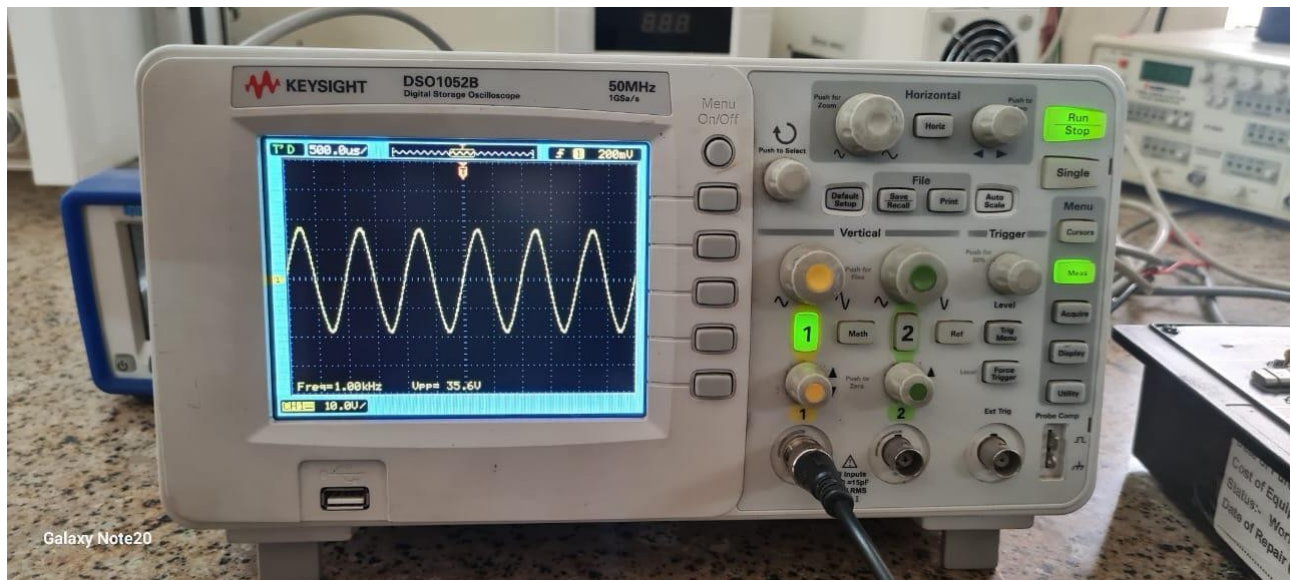
✓ **Software Used:** Multisim

✓ **Circuit Diagram:**

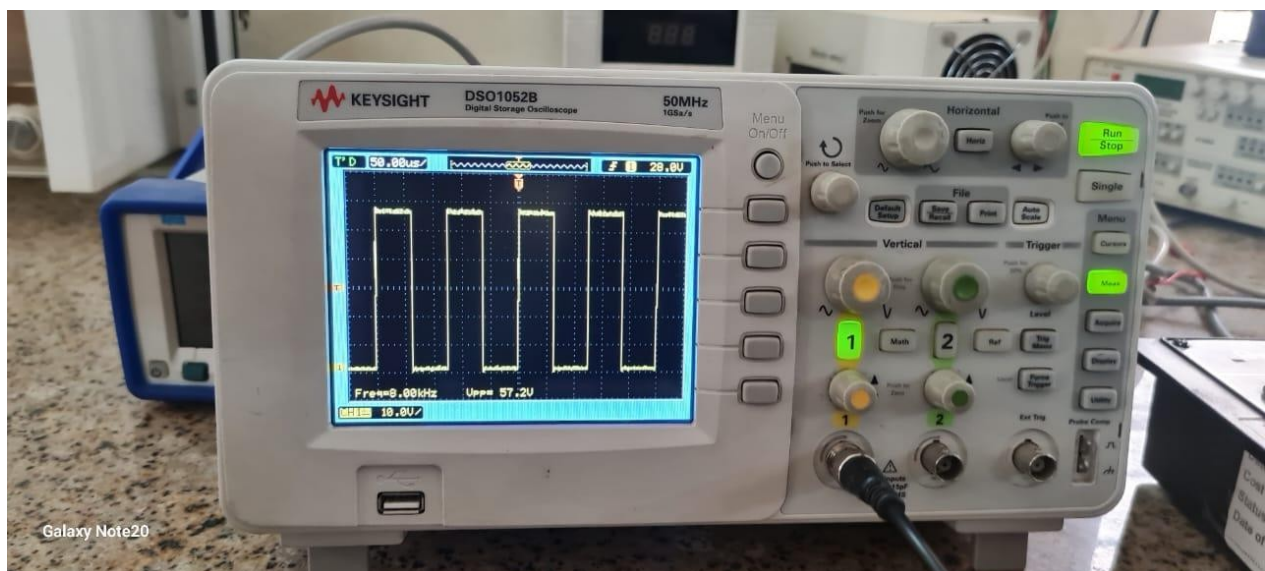


✓ **Observations**

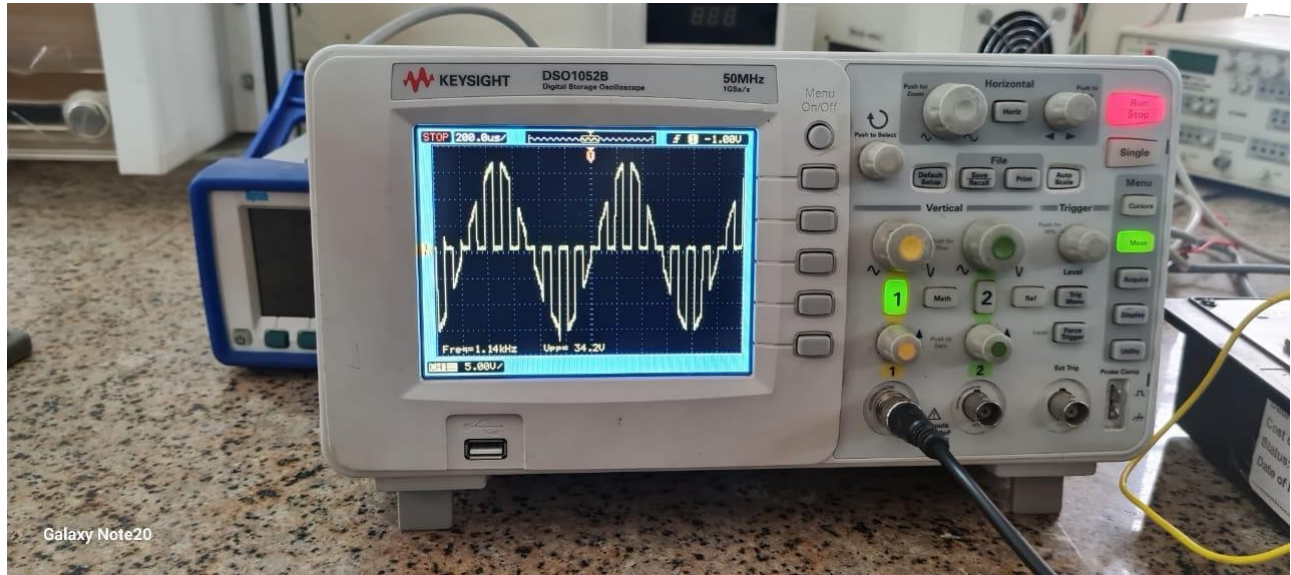
modulating signal(V_m)



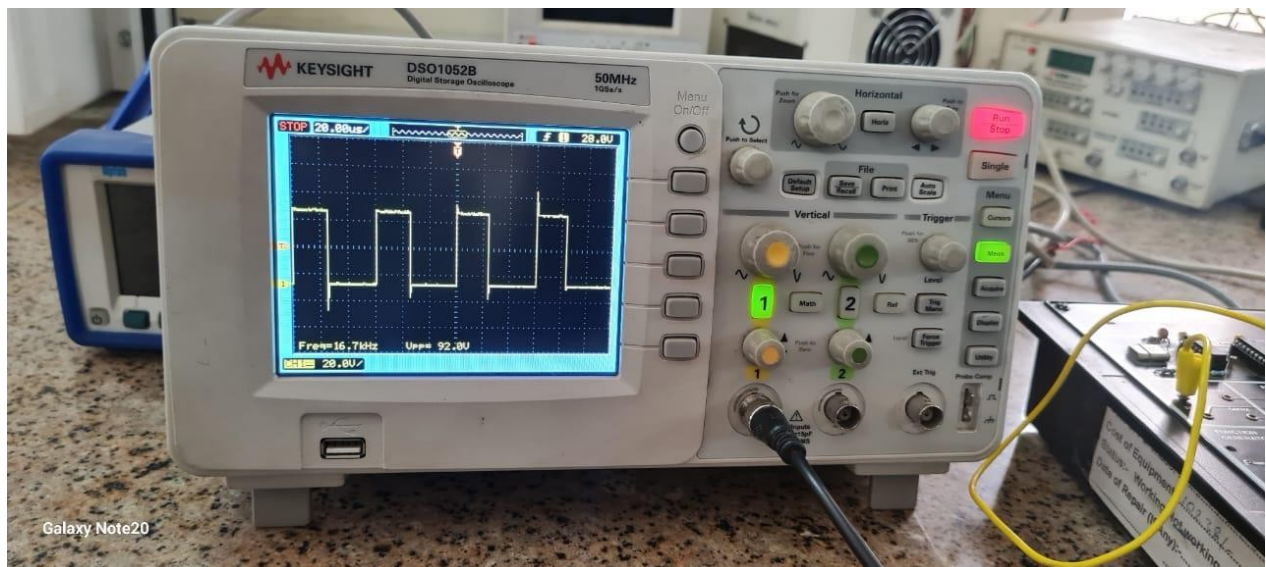
Sampling signal(Vs)



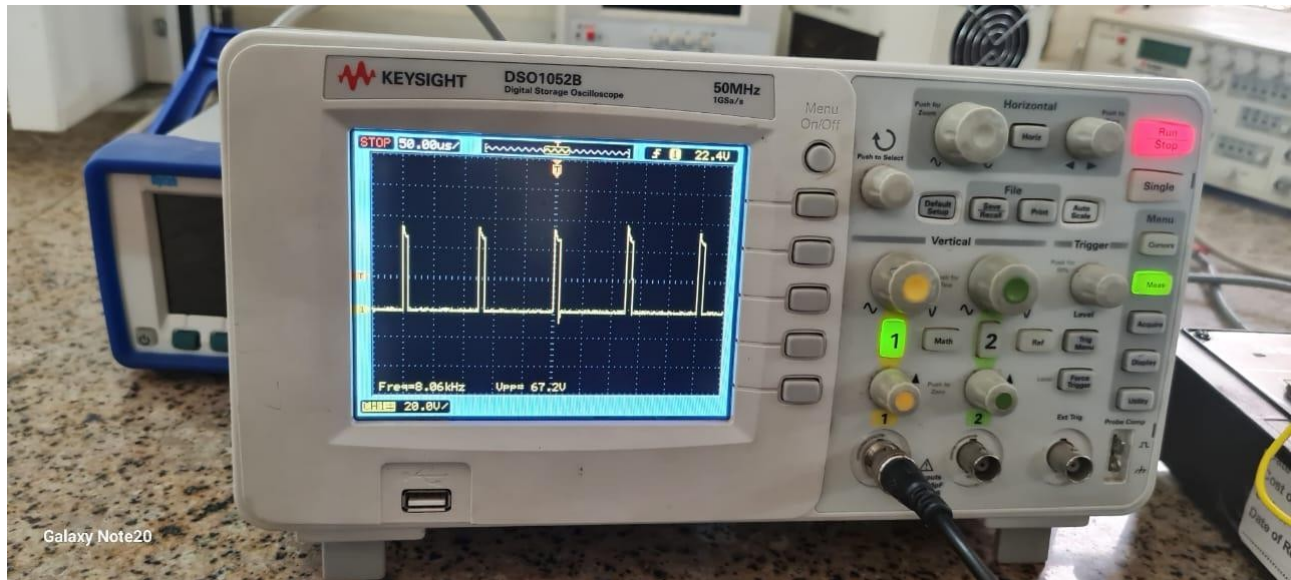
Observed waveform PAM:



Observed waveform PPM:



Observed waveform PWM:



Conclusion:

A study of different pulse modulation PWM, PPM, PAM was done through different carrier frequencies and different output waveform were observed.