ABSTRACT

In communication system transmission process of modulate and demodulate very influential on the process transmission signal that came to the Destination. Modulation is events laying on signal information into the carrier wave frequency, demodulate is the process of converting a signal to come back as at the beginning before modulation. Modulation based technique analog and digital much used at the moment, one of technique modulation analog signals is FM (Frequency Modulation) At the moment there is not yet a simulator to learning analog signal , therefore it created a simulation fm signal to learning analog signal on siskom lecture.

In this last project Focused on the making a simulator for learning modulation dan demodulation FM (Frequency Modulation) using labVIEW (Laboratory Virtual Engineering Workbench), Labview software programming is who will eventually do simulasing by using sound and sinusoidally to prove the output resulting same with input.

based on the results of testing, Simulator fm signal can show fm the domain of time and frequency. The process of testing on input sinusoidally added noise awgn produce the signal that suffered damage if the value of the standard deviations awgn >0. In testing the sound signals with a frequency below 9600Hz use of noise 100ml causing signals information with medium volume and low volume lost, While in the volume of hard a signal generated on the block demodulate signal of sound mixed with a rowdy.

Keywords : Simulator, Modulation, Demodulation, FM, Siskom, Labview