

## **ABSTRACT**

Music is an integral part in human life. Almost everyone likes the music, although with different tastes. Most of them (music lovers) is the music player itself or they are just a listener. More and more music lovers, of course the more you want to learn music. Be it in the field of the sound/vowel, or in playing a musical instrument.

In the process of learning to play musical instruments, beginners often hampered by the difficulty of determining the chord progression in music. Therefore in this thesis made an application on the audio system is decisive piano chords to help beginners in determining the right chord in a song. Chord identification system receives input of the piano sound files wav format using the Fast Fourier Transform (FFT) and ART 2 Neural Networks.

Accuracy testing of the system with parameter  $\rho = 0.98$  and iterations = 7 on the ART 2 neural network obtained 100% for training data and 98.49% for precision and also accuracy of data chord obtained 79.80%.

Kata kunci : Wav Format, Chord, FFT, JST ART 2, Accuracy