

ABSTRACT

Audiometry is used as the way to diagnose of deaf storey level and map the damage exist in ear. There are a lot of technique to be used in the diagnostic process, Bekesy is one of the technique. In this technique auditory system are stimulated by various frequency and intensity of tone and patient response is measured. Level of minimum intensity from the stimuly which is consistently could response is called "threshold of hearing". Pursuant to data above the store level of sensitivity hearing can be mapped in data called audiogram, which plotted based on intensity and frequency.

To run the entire procedure a media or equipment is needed to run the entire audiometry test, the equipment is called audiometer. In this final project a Pure Tone Audiometer whit Bekesy technique in the personal computer system will be implemented. In this Audiometer system implementation will based on the ISO and ANDI standard which is related to the audiometer and audiometry, Delphi will be the basic software for this implementation.

In the audiometry test a secondary media or equipment is needed to give an accurate result, an standard headphones and a standard environment test. An audiogram is the result of the tests, an audiogram consist a data about the hearing sensitivity level.

Keyword : audiometer, audiometry, bekesy