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A PRELIMINARY STUDY ON EFFECT OF LISTENING TO AL-QURAN AND LISTENING TO CLASSICAL MUSIC TO BRAIN WAVE SIGNAL USING EEG

This thesis is presented in partial fulfillment for the award of the Bachelor of Electrical Engineering (Hons.) UNIVERSITI TEKNOLOGI MARA



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ABSTRACT

This is a research mainly concern on effects of listening to al-Quran and classical music to human brain wave using EEG. The EEG patterns will be of two situations, which are before and after listening Al-Quran and classical music. This research has been carried out on 28 samples randomly picked among UiTM students with age around 20 to 28 years old. During this analysis, each sample had been exposed to the same surah of Al-Quran and same classical music. Then, brain wave pattern had been captured and analyzed which is associated with the effects of listening to Al-Quran and classical music using EEG test. Finally the results were compared and the difference of brain wave patterns while listening to classical music and Al-Quran were verified. The results demonstrate that up to 12.67% of the samples show improvement in the alpha band after listening to Al-Quran while only 9.96% improve after listening to classical music. These finding indicate that the alpha power increase when listening to Al-Quran compare to classical music. Moreover, this research has been observed for beta, theta and delta bands. The correlation for each band shows that the percentage was increased when listening to Al-Quran compared to listening to classical music. Consequently, listening to Al-Quran in particular can result in a more give benefits and advantages compare to classical music.

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