

# **A STUDY AND IMPLEMENTATION OF SOUND THERAPY SYSTEM WITH BRAINWAVE SYNCHRONIZATION TECHNOLOGY (BWS)**

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## **ABSTRACT**

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This project addresses issues on application of sound theory in physiology and psychology areas. The system will be embedded with several nature sounds as a background sound. BWS technology is the process of synchronization, where vibration of one object will cause the vibrations of another object to oscillate at the same rate. With applying BWS technology, it provides a shortcut to experiencing deeper states of mind giving an opportunity to access higher states of consciousness with effortlessly. BBF are auditory brainstem responses, which originate in the superior livery nucleus in each hemisphere. It produces the third signal, is perceived by the brain and effectively stimulus the brain enter effortlessly a specific state of mind. The system also allows users to create own unique combination and play their favorite song whilst applying BWS and BBF. The project will research on the BWS and BBF technology and electroencephalography (EEG). Ultimately, this project aims to help the concerned individual practicing relaxation and reducing stress.