

IMPLEMENTATION OF PHONOCARDIOGRAM SYSTEM BASED ON OMAP (OPEN MULTIMEDIA APPLICATION PLATFORM)

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**A Project Report submitted in partial fulfillment of the requirements for the award of
the Degree of Bachelor of Engineering in Bio-medical of the
Visvesvaraya Technological University, Belgaum**

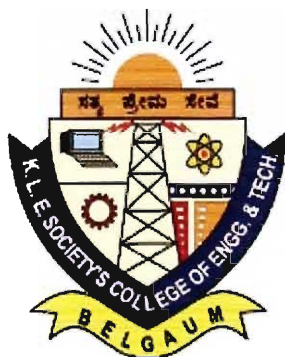
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ABSTRACT

Heart sound, one of the most important physiological signals of human body, is a basic method of clinically evaluating the functional status of cardiovascular system and a reflection of mechanical movement in the heart and blood vessels. Heart sound signals contain plenty of information that can reflect normal or pathological heart. If there is something abnormal with heart function and cardiovascular system, heart sounds will contain other noise components. The important diagnostic information about appearing noise and distortion can reflect cardiovascular diseases and some symptoms. Heart sound signals contain wealthy information and have an incomparable superiority in the field of detecting this type of diseases.

In designing heart sound diagnostic system based on OMAP3530 (Open Multimedia Application Platform) dual core processor, the objective is to guarantee accurate embedded heart sound diagnostic system. An algorithm is designed to display the heart sound signals on graphic LCD using the matrix array values.