

**SMS BASED EARTHQUAKE INTENSITY METER
WITH 3D GRAPHICAL REPRESENTATION**

A Proposed Project Study Presented
to the Faculty of College of Engineering, Architecture and Technology
De La Salle University Dasmariñas

In Partial Fulfilment of the Requirement
for the degree of
Bachelor of Science in Electronics and Communications Engineering



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ABSTRACT

Title: SMS BASED EARTHQUAKE INTENSITY METER WITH 3D GRAPHICAL REPRESENTATION

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This research aims to realize a 3D graphical representation of an earthquake waves using wireless communication of data between a seismic sensor and its receiving station. The research is appended with the functionality of wireless data transmission and reception using the Short Message Service of the cellular phone.

The accelerometer is tested by inducing vibration and or shaking for it to detect. After the detection of the accelerometer, it is interfaced to the PIC16F877A microcontroller circuit, which processes the analog-to-digital conversion of the data and facilitates the transmission by controlling the internal modem of the transmitter module interfaced to it.

The receiver is interfaced to the computer, whose internal modem is also controlled by the preprogrammed commands in Visual Basic 6. The data received is segregated and graphed in Visual Basic 6 and upon data encryption the text message will be then deleted.

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