

## **Abstract**

This thesis aims to design and method to produce a handheld radiation meter base on microcontroller are presented. The meter consists of Geiger-Mueller tube, high voltage power supply and liquid crystal display unit. The functions of meter are controlled by program which is written in microcontroller memory. The advantage of this meter is that the program can be rewritten depend on propose of measurement. The reading value on digital display can be shown in term of counts per minute (CPM) or millirem per hour (mrem/hr) and meter can connect to personal computer via USB connection.