

## ABSTRACT

Digital IC Tester is a tool used IC tester for testing integrated circuits in the IC. IC tester consists of several units in the relevant field of engineering and digital microcontroller. IC Tester is made for the IT Telkom especially Digital Engineering Laboratory did not have a tool that can help to test the IC is still good and worthy, or not used.

This project focuses on creating a series of IC tester which is used and the basic logic gates using microcontroler type AT 89S52. IC tester was to test whether the IC that is used is still feasible to see the condition of each gate in the IC. Each gate will be provided with appropriate input from the working principles of the IC will be tested. Because the type of IC which will be tested more than one author use the keypad as a means to select the IC will be tested. The advantages of the IC tester is to combine a series of writers using microcontroler 8952 and output results can be seen on display in the LCD, which is a condition of the IC is "OK" or "RSK", in addition to the authors hope that this tool can be operated easily by those who do not know about this tool before. Components used in making this tool it may be arranged so that the cost incurred in making the IC tester is cheaper when compared with those in the market.

IC tester can be more reliable and easier because we do not need to use different circuits for different types of IC every time we need to test them.

**Keywords:** Basic Logic Gates, Microcontroler AT 89S52, LCD, Keypad