# IC Tester User Guide

The IC Tester was designed and developed in the Electronics Laboratory by Manjunath S. Koparde, Senior Technical Superintendent, under the guidance of Prof. Ruma Ghosh. The tester is capable of testing most of the commonly used ICs in the digital electronics laboratory and can be reprogrammed to support additional ICs in the future. Developed at a cost of less than one thousand rupees, it is a highly cost-effective alternative to commercially available testers. This project stands as yet another example of self-reliance and indigenous development.

1. First, connect one end of the USB cable to the IC tester and the other end to a computer or any device that provides USB power. Allow the IC tester to initialize. Once initialization is complete, a menu displaying the list of testable IC numbers will appear on the screen.
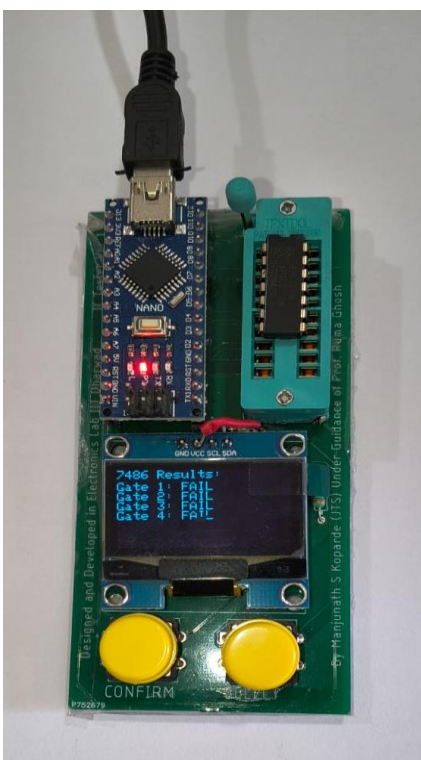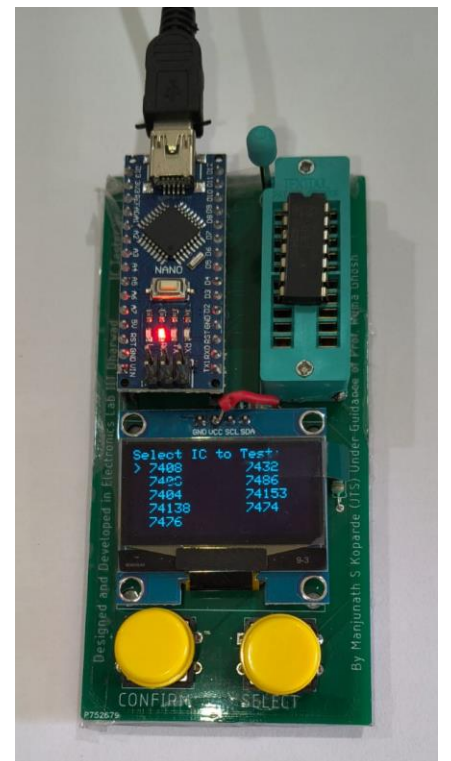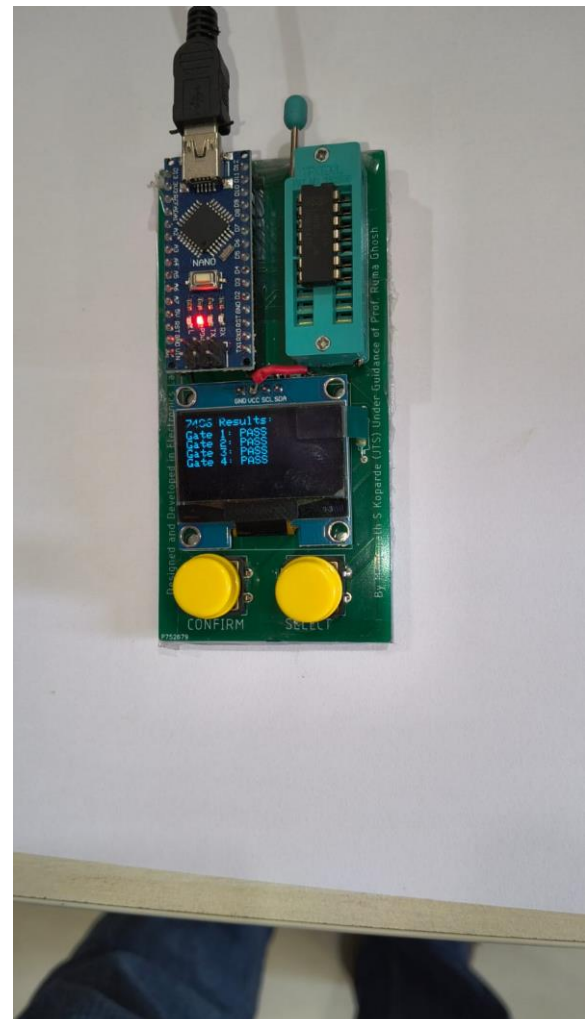

2. Place the IC in the top orientation in the provided ZIF socket (refer to the image). Then, secure the IC by moving the ZIF socket lever downward to lock it in place. If the IC is not properly locked in the ZIF socket, the system may produce incorrect or junk test results.

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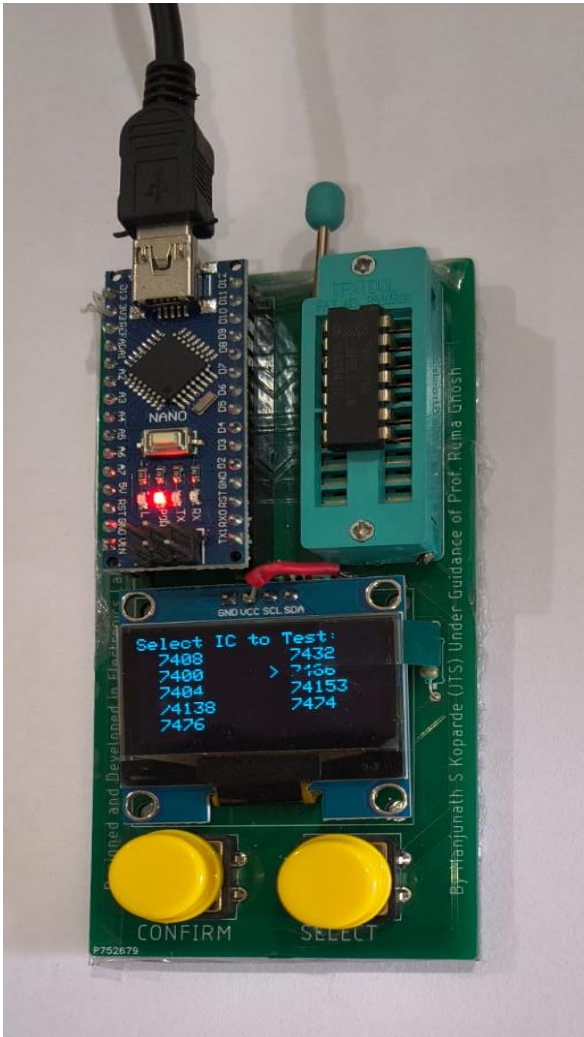
3. Once the IC is securely locked in the ZIF socket, use the Select button to choose the IC number from the menu that you wish to test. Then press Confirm to start the test and wait for the results. The results are displayed at the gate-level, enabling the user to determine which gates within the IC are functioning correctly.

4. Once the testing is complete, press the Confirm button to return to the main menu. To remove the IC, lift the ZIF socket lever upward to unlock it and then carefully take out the IC.

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