ABSTRACT

An understanding of the workings of the microcontroller in Microcontroller

Applications practicum course in Telecommunications Engineering study program D3 is

essential. Introduction of microcontroller tools, functions, and how to use these tools is very

important to be known by every student, students are expected to apply the workings of the

microcontroller It will be an obstacle for students if they are not tersediannya lab equipment or

a lack of equipment - ancillary equipment therein. The students will find it hard to understand

and comprehend the application in the course of the application microcontroller, in terms of

practical and essentially programming.

To overcome these problems, in this final project created a GUI for programming the

kit arduino microcontroller lab module. A program created based on lab-based kit arduino that

have been made. At this GUI-based application user can directly select the desired program

and then upload it to the board arduino program.

This final project resulted in a GUI-based program that can be used to upload programs

to arduino directly. Arduino IDE that can be used for GUI-based program is up to the latest

version 1.60. Program for temperature readings, interruption, light intensity readings, infrared,

keypad to LCD, and digital clock no parameters are required for programs designed to read the

response of the sensor or the input of each tool. While in the blink program, LCD display, LED

running and servo parameters that are required to manage the program.

Keywords: GUI, Microcontroller, kits, Arduino,