**ABSTRACT** 

In a lecture activities that exist in this Telecommunication Engineering D3

course, one of them there are practice activities. To support practice activities required

equipment or learning media that can help the lecturers and students to facilitate

teaching and learning activities, especially practice activities. The problems that exist

here go to the Microcontroller Application course. This is caused by the number of

students who do not understand the sensor functions found in Arduino.

In order for students to know the various functions and types of sensors that exist

in the Arduino, then in this Final Project is made a Module/Practice KIT in which there

are various types of sensors that exist in Arduino such as Light Sensor, Encoder,

Temperature Sensor, Water Flow Sensor, Flame Sensor, Humidity Sensor, Proximity

Sensor, Gas Sensor, and Accelerometer. The sensor will be connected to the

Microcontroller device.

This final project is a Microcontroller practice KIT with length of 36 cm, width

24 cm, and height 6,5 cm which there are kinds of sensors at Arduino, with result of each

sensor output is found on PC and LCD 16 x 2. This Arduino Sensor KIT has the level

of functionality and accuracy reaches 90% to facilitate teaching and learning activities,

especially practice activities in Microcontroller Application course.

Keywords: Arduino, Sensor

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