



**PROJECT REPORT**  
**DESIGN OF MONITORING SYSTEM AND**  
**PREDICTION OF SOIL MOISTURE,**  
**TEMPERATURE AND HUMIDITY BASED ON**  
**ARDUINO UNO WITH LINEAR REGRESSION**  
**METHOD**

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And Humidity Based On Arduino Uno With Linear Regression Method

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## HALAMAN PERNYATAAN PUBLIKASI KARYA ILMIAH UNTUK KEPENTINGAN AKADEMIS

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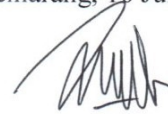
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I realize this research is still a lot of flaws and errors. Therefore, I need criticism and Suggestions for future improvements in the study so that the study can benefit the scientific reader. Amen. amen.

Semarang, 10 Juli 2020



Gilang Ferdian Yang

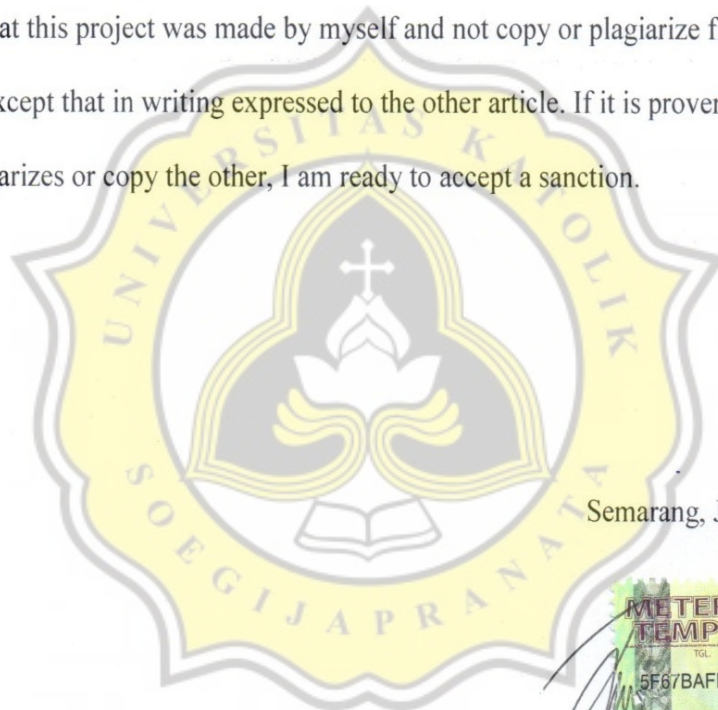
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## **ABSTRACT**

*Land drought is a major problem in the slow growth and death of plants. For farmers and growers, this is the most common problem, and the effect of soil drying is the loss of the nutrients contained within the soil. And so on this research it will be done to collect data from air temperature, air humidity, and soil humidity on two places that have different temperatures and humidity on a room that is filled with cold and directly exposed to sunlight.*

*Because of the problems found in plants that are planted or placed where they are not directly exposed to the sun, the same is true when soils lose their moisture levels without direct sunlight. Therefore, this time will be conducted research on the effects of room temperature and air humidity on soil humidity levels and the monitoring levels done online.*

*Knowing quickly and slowly the moisture content of the soil that is reduced by the effect of the temperature and humidity of the air from space can predict the temperature of the room, the humidity of the air and the moisture of the soil that will be reduced.*

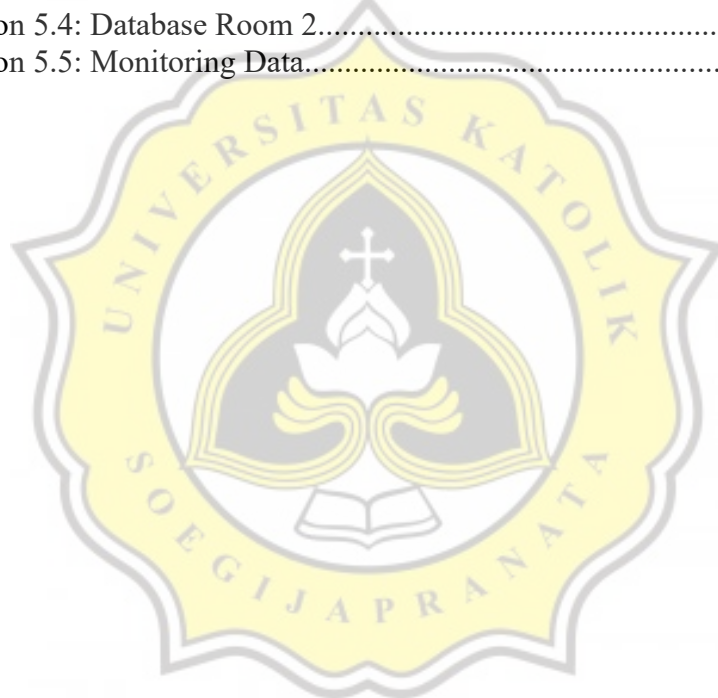
*Keyword: predicts, soil humidity, monitoring devices.*

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