

## ABSTRACT

*University, which is one of the zone that must be clear from cigarette smoke. Meanwhile there were many student and civitas break that rules. To overcome that problem, already designed the prototype which can detect the smokers on university canteen. Implementation of the system smoker detector using Raspberry Po, sensor, webcam and also motor servo. Sensor that been used on the system to detect smoke from the cigarette is MQ-7, which is detect the ratio of Carbon Monocside (CO) on the smoke. If the system detecting the ciggarete, camera of the system will be headed to source of the smoke, capture the subject and then send the photo into twitter through the API using wifi connection. After that the university side will monitoring the system and handle the subject whom breaking the rules due to smoking in the campus area is not allowed. The result of the experiment is the system which designed for smoke detector can detect the source of smoke is going well and appropriate regard on the scenario and functionality design. From the result of the system, system can detect the smoke that come from cigarettes according the location. The experiment on indoor area show the success level is 100%, but on the semi-outdoor area like the enviroment of university canteen for test functionality show that success percentage value is 66,67%.*

**Keywords** : Cigarette Smoke, Capture, Campus, Sensor MQ-7, Twitter.