**IOT102 SCORING METHOD (OFFLINE SECTION : 60%)**

Maximum of 3 students per group

implement the topic on time

Each group must submit a full of: **Products, Reports, Presentations**

* PRODUCT

styling design

mechanical framing

welding, connecting electronic circuit part

complete assembly

measure, test and edit

create realistic models

* REPORT

1. Introduction about this project
2. About hardware
   1. Components
   2. Properties of components
   3. Schematic design
3. About software
   1. Requirement analysis
   2. Flowchart
   3. Source code
4. implementation and inspection
5. Conclusion

* PRESENTATION

1. Introduction
2. Design and implement
3. Conclusion and development directions
4. Demo

**PROJECT NAMES**

1. **Topic 1: Automatic fire alarm system use heat, smoke, and gas sensors**

* **Temperature threshold setting is available**
* **Alarm through bells and lights**

1. Topic 2 : Automatic burglar alarm system use magnetic sensors

* open and close the door with the keyboard
* When a stranger breaks into the alarm through the bell
* The bell goes off when the reset button is pressed

1. **Topic 3 : Hand dryer**
2. **Topic 4: Automatic body temperature measurement**
3. **Topic 5: Automatic hand sanitizer with alarm sound**
4. **Topic 6: door opening system using RFID tags**
5. **Topic 7: Automatic watering system**
6. Topic 8: The theft alarm system uses motion sensors
7. Topic 9: Electronic scales

10. **Topic 10: Control lights over wi-fi**

11**. Topic 11: Autonomous vehicles follow the line**

12. Topic 12: school alarm system

* Real-time installation
* set the number of times per day
* Report break time, go to class

**13. Topic 13: product counting conveyor**

* **Use capacitive proximity sensor**
* **Display count on 7 segment led**
* **count preset**