**BORANG INVENTORI PROJEK PELAJAR**

| PERKARA | MAKLUMAT *INFORMATION* |
|---|---|
| Program *Program* | DET |
| Jabatan *Department* | KEJURUTERAAN ELEKTRIK |
| Semester/ Tahun *Semester/ Year* | LIMA |
| Tajuk Projek *Project Title* | SMOKING DETECTOR |
| Jenis Projek *Type of Project* | INOVASI |
| Kategori Kluster Penyelidikan *Category/ research Cluster* | TEKNOLOGI DAN KEJURUTERAAN |
| Ahli Kumpulan *Group member* | 1. MUHAMMAD HARITH AMSYAR BIN MOHD AMIN 980706-03-6555 2. MUHAMAD YAZID BIN BADEROL HISAM 990219-10-6447 3. 4. 5. |
| Penyelia *Supervisor* | DR KAMRUDDIN BIN MD TAHIR 630913-01-5917 |
| Penyelia Bersama *Co-Supervisor* | |
| Abstrak *Abstract* | We have developed the SMOKING DETECTOR based on some fact and reason. One of the reason is about the government has created the rule about warning area for smoking especially food premises area according to old act (Akta makanan 1983 pengawalan hasil tembakau 2004), this rule has operated in January 2019. Other than that we develop it to decrease the death that come from carbon monoxide which come out from cigarette's smoke for example dangerous disease that come from cigarette's smoke is lung cancer, mouth cancer, throat cancer and difficulty breathing (according to Merdeka.com). Smoker detector equipped with Arduino Uno, buzzer, Mq9 carbon monoxide sensor, Bluetooth module hc-05 and 8x8 led matrix display. All this component is the main |

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| | component that really useful for our project, begin with detect the carbon monoxide, and move to send message/notification , and also move to display the information to the owner of premises. Other than that our project has been planned by refer to the similar product which is smoke detector that has been installed in some house or building, and the important thing is, we also make a research about that product in terms of its. We expecting and we really hope that our project will be one of the project that will give big contribution to society. |
| Keyword<br>*Keyword*<br>(max 5 word) | DETECTOR |
| Objektif Projek<br>*Project Objectives* | Our main objective is to help restaurant owner or worker to detect smoker more easily around or inside any food premises, below is also part of our objective :-<br>1)  Equipped with carbon monoxide sensor to detect cigarette's smoke.<br>2)  It have buzzer to give signal sounds for the purpose to inform the owner and waiter.<br>3)  Through LCD can give visual signal by displaying which table have customers that smoking there. |
| Skop Projek<br>*Project scope* | This project is focusing to smokers at food premises. So this is the scope from our project :-<br>1) Our product has a specific sensors that can detect carbon monoxide.<br>2) The sensitivity of carbon monoxide sensor is 000-999ppm (parts per million).<br>3) The range of the carbon monoxide sensor detect area is approximately around 5cm. |

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| IP No | |
| Dapatan<br>*Finding*<br>(*500 words max*) | The findings show that all the information contained in this project is based on the statistics of deaths caused by cigarette smoke, which include children as a majority, found on various websites such as HARIAN METRO, and sources of information were also obtained through interviews with restaurant owners about the number of smokers who stopped by for a meal |
| Cadangan untuk kerja-kerja akan datang<br>*Suggestion for future work*<br>(*500words*) | We recommend to make our project can detect the cigarette smoke with distance equal to food premises area. And other than that we also suggest them to make notification on owner and staff's phone when the smoking detector detect the carbon monoxide that come form cigarette. |
| Gambar berkaitan projek<br><br>*Picture related to project* (700kb) | <a drivefileid="1MgXMdoJNHheJSISWcDqRpycwjMGOSFgN" href="https://drive.google.com/file/d/1MgXMdoJNHheJSISWcDqRpycwjMGOSFgN/view?usp=drivesdk">merged (2) - malahotok 123.pdf</a> | <a drivefileid="1bO0w4jdL5_3BNd57_k5Ev7Kv45zNYuQK" href="https://drive.google.com/file/d/1bO0w4jdL5_3BNd57_k5Ev7Kv45zNYuQK/view?usp=drivesdk">merged (3) - malahotok 123.pdf</a> |
| Rating/Level | JABATAN |

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*Borang ini perlu diisi oleh pelajar dan dihantar kepada penyelia/ penyelaras projek dalam bentuk hardcopy dan softcopy (borang LAMPIRAN J) dan gambar hasil projek dalam format jpeg/bitmap) bersama laporan akhir dan hasil projek.*