**LAMPIRAN J**

## BORANG INVENTORI PROJEK PELAJAR

| PERKARA | MAKLUMAT<br>*INFORMATION* |
|---|---|
| Program<br>*Program* | Diploma Elektronik Komunikasi |
| Jabatan<br>*Department* | Kejuruteraan Elektrik |
| Semester/ Tahun<br>*Semester/ Year* | 5/2018 |
| Tajuk Projek<br>*Project Title* | Laptop Security Using Arduino |
| Jenis Projek<br>*Type of Project* | Inovation |
| Kategori Kluster Penyelidikan<br>*Category/ research Cluster* | Tanda " / " pada yang berkenaan:<br>*Please tick " / " where applicable:*<br>( ) Sains tulen (*Pure Science*)<br>( ) Sains gunaan (*Applied Science*)<br>(/) Teknologi dan kejuruteraan (*Technology and Engineering* )<br>( ) Sains kesihatan dan klinikal (*Clinical and Health Sciences*)<br>( ) Sains sosial (*Social Sciences*)<br>( ) Sastera dan sastera ikhtisas (*Arts and Applied Arts*)<br>( ) Warisan alam dan budaya (*Natural Sciences and National Heritage*)<br>( ) Teknologi maklumat dan komunikasi (*Information and Communication Technology*) |
| Ahli Kumpulan<br>*Group member* | 1. Name: Mohd Yusuf Rabbani bin Mohd Suhaimi<br>No. Identification card: 960709-05-5673<br>2. Name: Muhammad Azri bin Kasim<br>No. Identification card: |
| Penyelia<br>*Supervisor* | Name: Puan Lian Ai Chen<br>No. Identification card: |
| Abstrak<br>*Abstract* | We were created the "The Laptop Security Using Arduino"on our final year project to resolve this problem.This Laptop Security consist in two different circuit which is the LED indicator circuit and the arduino circuit connected with LCD display and GSM module.The LED indicator circuit is to indicate whether the laptop are available in the cabinet or not.So while the laptop are in the cabinet the LED will turn green and while the laptop are not available the LED will not light up.The arduino circuit were programmed for the user to insert their password and phone number as the data that being saved by the arduino for the user to use the Laptop Security then the LCD will display their name,staff id and date and the GSM module will sent the message to the user phone number indicate that the laptop security has been open and the laptop has been taken.Same goes to the user when the laptop return to the cabinet the message will sent to the user phone number.So the data will be kept on the phone as long as the user keep the message and not deleted it.The message are as the data and prove for the user whom borrow and return the laptop in case the laptop were stolen or gone. |
| Keyword<br>*Keyword*<br>(max 5 word) | Friendly Consumption Portable<br>Generate Pioneer |

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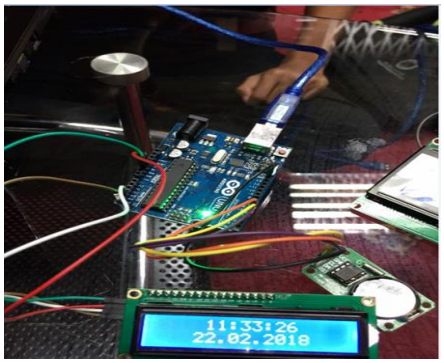
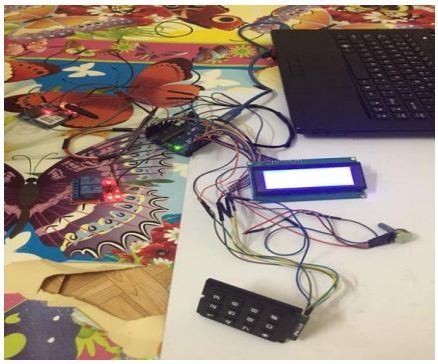
| Objektif Projek<br>*Project Objectives* | ❖ We built an indicator to display the availability of laptop in the cabinet.<br>❖ We built the laptop security using Arduino for user to key in the identification data when they want use or borrow laptop. |
| Skop Projek<br>*Project scope* | ❖ Lecturer's main office |
| Dapatan<br>*Finding*<br>(*500 words max*) | The circuit for data analysis is Arduio Uno.This circuit store all the programming source code data that we wrpte in Arduino software.We also make a coding for the GSM module,Real Time Clock module and the data for the user to enter the password and display them to the LCD display.We also set the coding to unlock the magnetic lock while the user enter the password correctly |
| Gambar berkaitan projek<br>*Picture related to project* (700kb) |  <br>*Figure 1*<br>  <br>*Figure 2* |
| Rating/Level | Jabatan/ Politeknik/ Kebangsaan/ Antarabangsa<br>*Departments / Institutes / National / International* |
| | |

***** *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.*