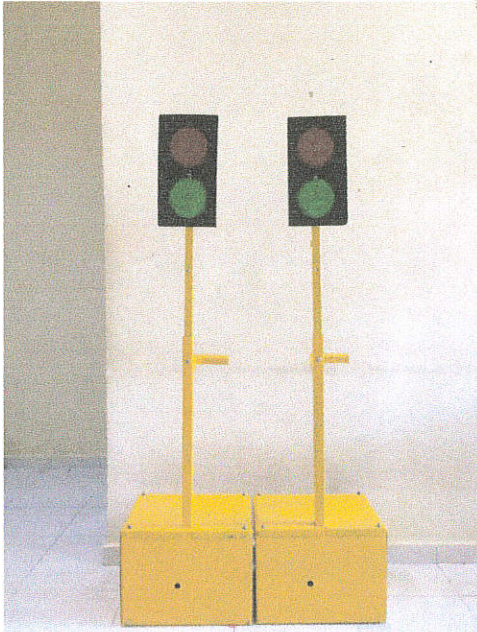
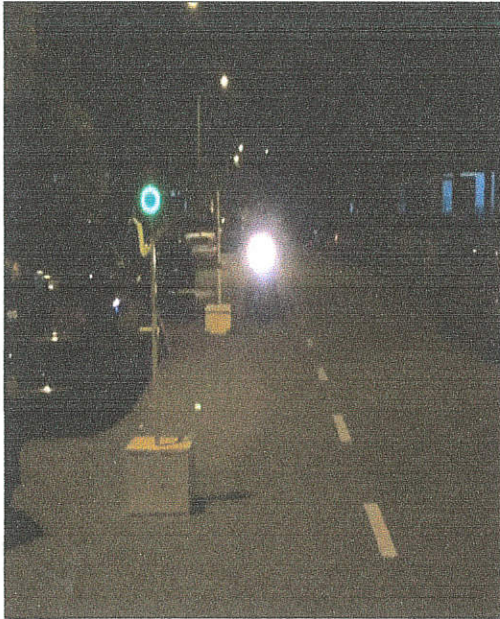


BORANG INVENTORI PROJEK PELAJAR

PERKARA	MAKLUMAT INFORMATION																
Program <i>Program</i>	DET5C																
Jabatan <i>Department</i>	JKE																
Semester/Tahun <i>Semester/Year</i>	SEMESTER 5 / SESI JUNE 2017																
Tajuk Projek <i>Project Title</i>	INTELLIGENT CONSTRUCTION PORTABLE SIGNAGE (ICPS)																
Jenis Projek <i>Type of Project</i>	PRODUCT-BASED																
KategoriKluster Penyelidikan <i>Category/ research Cluster</i>	<p>Tanda “/” pada yang berkenaan: Please tick “/” where applicable:</p> <table border="1"> <tbody> <tr> <td><input type="checkbox"/></td><td>Sains tulen (<i>Pure Science</i>)</td></tr> <tr> <td><input type="checkbox"/></td><td>Sains gunaan (<i>Applied Science</i>)</td></tr> <tr> <td><input type="checkbox"/></td><td>Teknologi dan kejuruteraan (<i>Technology and Engineering</i>)</td></tr> <tr> <td><input type="checkbox"/></td><td>Sains kesihatan dan klinikal (<i>Clinical and Health Sciences</i>)</td></tr> <tr> <td><input type="checkbox"/></td><td>Sainssosial (<i>Social Sciences</i>)</td></tr> <tr> <td><input type="checkbox"/></td><td>Sastera dan sastera ikhtisas (<i>Arts and Applied Arts</i>)</td></tr> <tr> <td><input type="checkbox"/></td><td>Warisan alam dan budaya (<i>Natural Sciences and National Heritage</i>)</td></tr> <tr> <td><input type="checkbox"/></td><td>Teknologi maklumat dan komunikasi (<i>Information and Communication Technology</i>)</td></tr> </tbody> </table>	<input type="checkbox"/>	Sains tulen (<i>Pure Science</i>)	<input type="checkbox"/>	Sains gunaan (<i>Applied Science</i>)	<input type="checkbox"/>	Teknologi dan kejuruteraan (<i>Technology and Engineering</i>)	<input type="checkbox"/>	Sains kesihatan dan klinikal (<i>Clinical and Health Sciences</i>)	<input type="checkbox"/>	Sainssosial (<i>Social Sciences</i>)	<input type="checkbox"/>	Sastera dan sastera ikhtisas (<i>Arts and Applied Arts</i>)	<input type="checkbox"/>	Warisan alam dan budaya (<i>Natural Sciences and National Heritage</i>)	<input type="checkbox"/>	Teknologi maklumat dan komunikasi (<i>Information and Communication Technology</i>)
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AhliKumpulan <i>Group member</i>	1. Name: MUHAMMAD FIRDAUS BIN RAMLAN No. Identification card: 14DET15F1009 2. Name: MUHAMMAD ISKANDAR ARIFF BIN ADZMAN No. Identification card: 14DET15F1027 3. Name: MUHAMMAD HAFIZI BIN MD YUSOF No. Identification card: 14DET15F1062																
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Penyelia Bersama <i>Co-Supervisor</i>	Name: DR KAMARUDIN BIN MD TAHIR E-mail: kamarudin@pmm.edu.my																

<p>Abstrak <i>Abstract</i></p>	<p>“Intelligent Construction Portable Signage "(ICPS) is an innovation project developed to solve human resource problems with new technologies. ICPS used the "Bluetooth" method to communicate between Signage 1 and Signage 2 in distance of 10 meters by using mobile phone. ICPS is used on the road when maintenance work is in progress. ICPS will replace the use of manpower to avoid any accidents. . The idea was obtained after seeing and getting information from road workers. The objective of this project is to produce and design the ICPS. Various aspects have been reviewed such as existing materials, concepts and models for the re-design process of ICPS. In order to make this project success, the study has been done by doing comparative analysis between existing models. The analysis finds that the built-in Intelligent Construction Portable Signage works well and achieves the objective. All agreed that ICPS was continued and used on the road during maintenance.</p>
<p>Keyword <i>Keyword</i> (max 5 word)</p>	<p>For the road construction site.</p>
<p>Objektif Projek <i>Project Objectives</i></p>	<ul style="list-style-type: none"> ❖ To reduce the use of manpower. ❖ To prevent workers from accidents. ❖ Replace and unite tools like cone, walkie-talkie and flag by using ICPS.
<p>Skop Projek <i>Project scope</i></p>	<ul style="list-style-type: none"> ❖ The range between of “Signage 1” and “Signage 2” is 1 meter to 10 meters ❖ ICPS need the device to control “Signage 1” and “Signage 2” ❖ The usage time limit is 1 to 8 hours
<p>Dapatan <i>Finding</i></p>	<p>The findings that I get in this project are our project completed within a specified time frame. In addition, we also learn how to create analytics data. Therefore, we know that Bluetooth HC5 can be master and slave have 6 pins, and Bluetooth HC6 can be slave only have 4 pins. Besides that, we know how to construct the product’s body by using AutoCAD apps. Lastly, we know how to use Arduino Apps and know the basic of C programming in the internet and apply it to the Arduino Uno R3 circuit. DC red light is pin number of 10 and DC green light is pin number of 8. We use 5 second for the delay and blinking 5 times before it changed. We can put DC yellow light number pin of 9 on this product because we make coding for 3 output and need 3 relay module to produce the output.</p>
<p>Cadangan untuk kerja-kerja akan datang <i>Suggestion for future work</i></p>	<p>In the future, we will make distance between Signage 1 and Signage 2 further and do for the big construction. After that, we make the solar system as a power source because solar can save on cost. Besides that, we make the pole of ICPS higher to be viewed in further distance. Lastly, we make the size of ICPS display larger to be viewed in further distance.</p>

<p>Gambar berkaitan projek</p> <p><i>Picture related to project (700kb)</i></p>	 <p style="text-align: center;"><i>Figure 1</i></p>	 <p style="text-align: center;"><i>Figure 2</i></p>
<p>Rating/Level</p>	<p>Jabatan / Politeknik / Kebangsaan / Antarabangsa <i>Departments / Institutes / National / International</i></p>	

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