
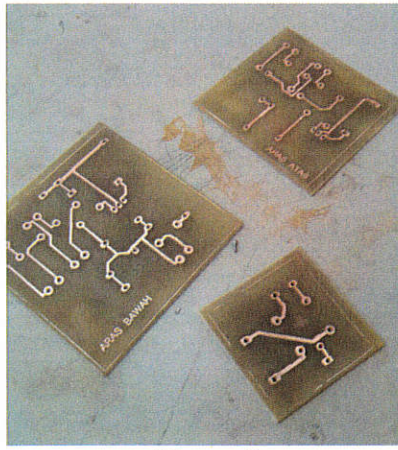


**BORANG INVENTORI PROJEK PELAJAR**

PERKARA	MAKLUMAT INFORMATION																
Program <i>Program</i>	DTK5B																
Jabatan <i>Department</i>	JKE																
Semester/ Tahun <i>Semester/ Year</i>	Semester 5																
Tajuk Projek <i>Project Title</i>	Safety Door System Management Using Arduino																
Jenis Projek <i>Type of Project</i>																	
Kategori Kluster Penyelidikan <i>Category/ research Cluster</i>	<p>Tanda “ / ” pada yang berkenaan: <i>Please tick “ / ” where applicable:</i></p> <table border="1"> <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>Sains sosial (<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> </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"/>	Sains sosial ( <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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Ahli Kumpulan <i>Group member</i>	1. Name: MUHAMMAD LUQMANUL HAKIM BIN BADRUL SAM No. Identification card: 14DTK15F1004 2. Name: NURUL HANNA BINTI IZHAM No. Identification card: 14DTK15F1008 3. Name: NURUL SHAHIRAH BINTI ZAMRI No. Identification card: 14DTK15F1020																
Penyelia <i>Supervisor</i>	Name: EN MOHD FAUZI BIN HASAN No. Identification card:																
Penyelia Bersama <i>Co-Supervisor</i>	1. Name: No. Identification card:																

<p>Abstrak <i>Abstract</i></p>	<p>Safety Door System Management using Arduino is a system to handle waste management in terraced areas. The problem statement of this project is the unsuitable waste management system are used is less safety for workers and the workers is exposed to danger when dumping process was run. So this project is to apply waste system management system using Arduino Uno for ensure the safety of waste management system for the workers in their areas and to ensure that waste management system need to be enhance. After that, in this project was apply solar energy to prevented it from become a more utilized electrical energy because of higher cost and inconsistent availability rather than solar and to support the Green technology system. This project can be used or applied at hotel to upgrade their waste management system and also can be used at terraced houses such as flat, luxury apartment or condominium as a disposal site by using Arduino Uno board as a controller in the system. Utilize unlimited energy sources to reduce electrical energy consumption from power suppliers by using solar energy. The Safety Door System Management using Arduino can also use electricity supplied by a power supply as a back-up to the solar system if the solar system is damaged or repaired.</p>
<p>Keyword <i>Keyword</i> (max 5 word)</p>	<p>Safety Door System Management</p>
<p>Objektif Projek <i>Project Objectives</i></p>	<ol style="list-style-type: none"> <li>1. To apply waste system management system using Arduino Uno.</li> <li>2. To ensure the safety of waste management system for the workers in their areas.</li> <li>3. To ensure that waste management system need to be enhance.</li> <li>4. To apply solar energy to support the Green technology system</li> </ol>
<p>Skop Projek <i>Project scope</i></p>	<ol style="list-style-type: none"> <li>1. This project can be used or applied at hotel to upgrade their waste management system and also can be used at terraced houses such as flat, luxury apartment or condominium as a disposal site.</li> <li>2. Using Arduino Uno board as a controller in the system.</li> <li>3. Utilize unlimited energy sources to reduce electrical energy consumption</li> </ol>

	<p>from power suppliers by using solar energy.</p> <p>4. The waste management system can also use electricity supplied by a power supply as a back-up to the solar system if the solar system is damaged or repaired.</p>	
IP No		
Dapatan Finding (500 words max)	<p>Safety Door System Management is a system that using Arduino Uno Board as a controller in the system. In this project, led was used as an output and buzzer as a warning. Next, this project was apply solar energy as power supply and also to support the Green technology system. This system can also use electricity supplied by a power supply as a back-up to the solar system if the solar system is damaged or repaired.</p>	
Cadangan untuk kerja-kerja akan datang Suggestion for future work (500words)	<ol style="list-style-type: none"> <li>1. Add LCD at each floor to display that dumping process in progress.</li> <li>2. Upgrade solar level to increase their performance.</li> <li>3. Provide the sun tracking solar panel.</li> </ol>	
Gambar berkaitan projek  Picture related to project (700kb)	 <p>Figure 1</p>	 <p>Figure 2</p>
Rating/Level	<p>Jabatan/ Politeknik/ Kebangsaan/ Antarabangsa Departments / Institutes / National / International</p>	

\* 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.