
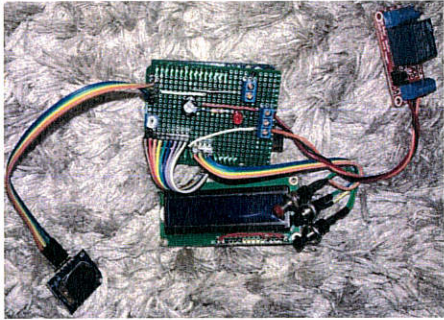


**BORANG INVENTORI PROJEK PELAJAR**

PERKARA	MAKLUMAT INFORMATION																
Program <i>Program</i>	DEP 5B																
Jabatan <i>Department</i>	Jabatan Kejuruteraan Elektrik																
Semester/ Tahun <i>Semester/ Year</i>	Semester 5/ Jun 2017																
Tajuk Projek <i>Project Title</i>	Automatic School Bell based RTC (Real-Time Clock)																
Jenis Projek <i>Type of Project</i>	Software and Hardware																
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> )
<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> )																
Ahli Kumpulan <i>Group member</i>	<ol style="list-style-type: none"> <li>Name: Nurul Syahirra Binti Afendy No. Identification card: 971118-14-5734</li> <li>Name: Muhammad Asrul Afiq Bin Azizi No. Identification card: 970511-10-5451</li> <li>Name: Muhammad Badrunazim Bin Md. Said No. Identification card: 970623-04-5203</li> </ol>																
Penyelia <i>Supervisor</i>	<p>Name: Zahrim Bin Abdul Rahman No. Identification card: 680101-01-8587</p>																
Penyelia Bersama <i>Co-Supervisor</i>	<ol style="list-style-type: none"> <li>Name: No. Identification card:</li> </ol>																
Abstrak <i>Abstract</i>	<p>The need for an automatic school bell is now a necessary which has been evolved with the revolution in technology and boost in the education system where time is a major factor affecting the educational system where the time has to be accurate. Man power can also be saved with the use of automatic school bell a it is not to be operated manually and manpower bell systems. Time being a major factor in all of our lives has to be utilized properly and it is a very efficient device for the time management. The school bell is a simple project implementing the use in real time with is properties as an alarm with further more improvements. This design finds a tremendous use at primary and secondary school levels where the teaching sections can span over eight periods including breaks. The advantage hee is that the bell rings at the start of each period without any human intervention to a great degree of accuracy. The time schedule results are compared with that obtained with a clock, however some drift is noticed which is negligible. After doing some research decided to create a complete product named automatic school bell, a school-friendly product. This newly invented product will ease the user to ring the school bell without wasting time to turn on every</p>																

	time to use it.
Keyword <i>Keyword</i> (max 5 word)	- Automatic School Bell
Objektif Projek <i>Project Objectives</i>	<ul style="list-style-type: none"> <li>Managing time intervals by using electric school bell.</li> <li>Can be easily responsible for the operating the bell.</li> </ul>
Skop Projek <i>Project scope</i>	<p>To ensure the success of this project, some preliminary work has identified scope. The scope of this work are as follows:</p> <ol style="list-style-type: none"> <li>The Automatic School Bell is create for both primary and secondary schools.</li> <li>Categories of this project is to use electrical and electronic equipment and software Arduino UNO, LCD display, relay, AD/DC power supply and RTC (Real Time Clock).</li> <li>The combination of the product is button switch and electric school bell.</li> </ol>
IP No	
Dapatan <i>Finding</i> (500 words max)	<ol style="list-style-type: none"> <li>The bell which was set at an interval 30 min is functioning as per expected.</li> <li>The timing of the bell can be varied using the keypad supplied with it.</li> <li>The time is displayed in the LCD screen.</li> <li>The variation in timing is also applicable and is used in this circuit.</li> </ol>
Cadangan untuk kerja-kerja akan datang <i>Suggestion for future work</i> (500words)	<p>After completing this "Automatic School Bell based RTC (Real-Time Clock)" project, we can formulate some suggestions and views after seeing and knowing the results. Among the following suggestions are:</p> <ol style="list-style-type: none"> <li>Understand in more details about the project being done.</li> <li>Get a look at those who are more knowledgeable and experienced before starting project work.</li> </ol>
Gambar berkaitan projek <i>Picture related to project</i> (700kb)	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Figure 1</p> </div> <div style="text-align: center;">  <p>Figure 2</p> </div> </div>
Rating/Level	Jabatan/ Politeknik/ Kebangsaan/ Antarabangsa <i>Departments / Institutes / National / International</i>

\* 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.