



### BORANG INVENTORI PROJEK PELAJAR

PERKARA	MAKLUMAT INFORMATION																
Program <i>Program</i>	DIPLOMA ELEKTRONIK KOMUNIKASI (DEP)																
Jabatan <i>Department</i>	KEJURUTERAAN ELEKTRIK (JKE)																
Semester/ Tahun <i>Semester/ Year</i>	5																
Tajuk Projek <i>Project Title</i>	SAFETY HOME GUARD – DOOR LOCK USING BLYNK APPLICATION																
Jenis Projek <i>Type of Project</i>	IOT ( INTERNET OF THINGS)																
Kategori Kluster Penyelidikan <i>Category/ research Cluster</i>	<p>Tanda “ / ” pada yang berkenaan: Please tick “ / ” where applicable:</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 iktisas (<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 iktisas ( <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 HEZWAN BIN KAMARUDIN No. Identification card: 981109-01-7799 2. Name: NUR LIYANA ERNY BINTI AHMAD KHAIRAN No. Identification card: 980908-01-5904 3. Name: MUHD SHAHNIZAM BIN BAHARUDIN No. Identification card: 980828-04-5417																
Penyelia <i>Supervisor</i>	Name: PN SUZEYHAREDA BINTI ABD HAMID No. Identification card: 810607-04-5390																
Penyelia Bersama <i>Co-Supervisor</i>	1. Name: - No. Identification card: -																
Abstrak <i>Abstract</i>	<p>Blynk Application have variety of uses and becomes one of the application that can help to monitor in any aspects. Since less awareness concern on door locking system, the application proposed in this project will help to solve the problem. For this project, the Blynk Application in smartphone as a device will active to control the door lock using Wireless Fidelity ( WIFI ). By using Android or IOS software, the Blynk Application can active the door lock automatically and unlock the door in worldwide range. Data transmission will be done using WIFI technology. So, the user does not have to worry whether the door is lock or not because user can control it by using their smartphone anywhere. The user also does not have to worry about the losses of the key. The project that will build consists of hardware and software development. After doing some research, the result expectation for this project is the user can control the operation of a door lock automatically and unlock the door anywhere with WIFI using a smartphone. Besides that, the door locking system</p>																

	must be function efficiently. Experiment setup was done in order to test the performance of the designed system. The proof in the situations, as the distance is increasing, the delays are decrease as well.
Keyword <i>Keyword</i> (max 5 word)	Using smartphone for security doorlock
Objektif Projek <i>Project Objectives</i>	<p>This project aims to create an alternative method for those who are always forgetting to lock the door. Besides that, this project also helps for those who worry about the less security on the door which the burglar can break the door. This project has several objectives which are:</p> <ul style="list-style-type: none"> <li>❖ Lock the door by using an application that would work from a smartphone and Microcontroller communicate through WiFi network if forget to lock the door by manual.</li> <li>❖ To reduce the suspension by the old method to open the door using the key and change to using smartphone to open the door that give the flexibility to the user to use the smartphone in case the user forgets to bring a key.</li> </ul>
Skop Projek <i>Project scope</i>	<ol style="list-style-type: none"> <li>1. This project will concentrate at using wireless communication protocols</li> <li>2. Specifically works for the IOS or Android user that activated the lock and unlocking system</li> <li>3. The range focus in worldwide coverage area.</li> </ol>
IP No	No
Dapatan <i>Finding</i> (500 words max)	<p>This project was create an alternative method for reduce the user from forgetting to lock the door if in emergency case. The project at the high security on lock and unlock the door by using smartphone. This project will help to prevent the burglar to break the door for a steal the thing at that house. First the door by using Blynk Application help the smartphones and Raspberry Pi 3 as a microcontroller through WIFI network if forget to lock the door by manual. Besides, it can reduce the using old method that changes to use smartphone to lock and unlock the door. Futhermore, The creation of the Door Lock using Blynk Application which is closely related to the IOT . All hardware and software installations work well after installing the circuit and components. Always conduct inspections or tests on components and circuits in order to solve problems and damage. Always ensure the components and connections are correct during the installation process. Product production can answer the objectives and questions of the study.</p>
Cadangan untuk kerja-kerja akan datang <i>Suggestion for future work</i> (500words)	<p>After completing the "Safety Home Guard - Doorlock using Blynk Application" project, we can formulate and portray some of our suggestions and views in the future after seeing and knowing the results. Among the following suggestions are:</p>

	<p>a) Understand in more detail and depth about the project area to be undertaken.</p> <p>b) Obtain the views of those who are more knowledgeable and experienced before starting the project's work.</p> <p>c) Ensure there is a work plan before creating a project.</p>	
<p>Gambar berkaitan projek</p> <p><i>Picture related to project (700kb)</i></p>	 <p><i>Figure 1</i></p>	 <p><i>Figure 2</i></p>
Rating/Level	<p>Jabatan/ Politeknik/ <del>Kebangsaan</del>/ Antarabangsa</p> <p><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 LAMPIRAN J dan gambar hasil projek dalam format jpeg/bitmap) bersama laporan akhir dan hasil projek*

