

### BORANG INVENTORI PROJEK PELAJAR

PERKARA	MAKLUMAT INFORMATION																
Program <i>Program</i>	DET5A																
Jabatan <i>Department</i>	JABATAN KEJURUTERAAN ELEKTRIK																
Semester/ Tahun <i>Semester/ Year</i>	SEMESTER 5/2017																
Tajuk Projek <i>Project Title</i>	Smart Helmet with Smart Visor																
Jenis Projek <i>Type of Project</i>	INOVASI																
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 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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Penyelia Bersama <i>Co-Supervisor</i>	1. Name: - No. Identification card: -																
Abstrak <i>Abstract</i>	<p>This project is applied from the observation based on the current manual method of using cloth or hand to wipe the wet visor when it rains. The objective of this project is to design a tool capable of wiping the wet visor during rain for the use of motorists especially motorcyclists. In addition, our goal is not only those devices that work without the use of human resources, but they are capable tools rival existing manual techniques. All of these are fixed to solve some of the problems that arise in existing applications, such as motorcyclists often experience visual impairment while riding a motorcycle in a rainy state and the visor attached to the helmet is only able to cover the face</p>																

	<p>from rain and the view becomes blurred because of flowing rainwater on the visor and this will cause travel tougher with limited visibility. The material for this project should also have a special characteristic of waterproofing and not rust based on the literature study conducted by plastic and aluminum is the most suitable in this project. While for components generation process, a methodology study is used to plan the project's production process using a flowchart as a guide for project planning and production planning. As a result, the entire project was successfully produced with an average time saving rate of 40.39%. Based on these results, the results of the analysis and discussion have been concluded that the "Smart helmet with magic visor" project has achieved the objectives that have been discussed. As a result, this project enhances safety to motorcyclists as it provides not only good visibility to riders, but also gives some confidence to motorcyclists when riding at night because they are equipped with smart lights that allow road users to look at them from behind on the road at night.</p>
<b>Keyword</b> <i>Keyword</i> (max 5 word)	Helmet, Visor, Hujan,
<b>Objektif Projek</b> <i>Project Objectives</i>	<ol style="list-style-type: none"> <li>1. To design a helmet with windshield visor to wipe off water during raining days</li> <li>2. To make a helmet that have a safety light on its back to allow other road users to see them in night</li> </ol>
<b>Skop Projek</b> <i>Project scope</i>	This project is specially designed for motorcyclists as well as to facilitate road traffic during rainy days, it also enhances safety to themselves. It is designed

	<p>with rustproof wipers so that it is not easy to rust and also with a quality wiper rubber in order to remove the rain water from the visor effectively. In addition, it also comes with a lamp that can not only bounce light from behind, but it also gives attention to the road users from behind especially when used in dark conditions like at night. with the use of Smart Helmet with magic visor, it can provide confidence to motorcyclists when they use highways during rain and also when on dark days</p>
IP No	-
Dapatan <i>Finding</i> (500 words max)	<p>As a result of the experiment, we found that the velocity of the wiper movement has a correlation to the level of rainwater coming down. This is because, the speed of the wiper movement will not only drain rain from the visor, but it also gives a clear view of the motorcyclist. From there, we find that when we use a fairly high speed wiper, it will give a clearer visibility to the rider faster but it may cause dizzy to the riders because of the speedy wiper movement. Additionally, if we use slow speed, it will cause slow rainwater running down and it will also cause the rider to feel drowsy due to the slow movement of the wiper. In conclusion, we have to use a average wiper speed so it does not make the rider uncomfortable rider and can provide pleasing to motorcyclists.</p>
Cadangan untuk kerja-kerja akan datang <i>Suggestion for  future work</i> (500words)	<p>For future planning, we hope our project will not only improve security but also provide comfort to motorcyclists with some additional features such as telephone calls by helmet, can listen to music by helmet and can call emergency numbers automatically in the event of an emergency . We also hope that it is acceptable to all levels of society as today, smart helmet users are so lacking in the lack of exposure to the public on smart helmets like this.</p>

<p>Gambar berkaitan projek</p> <p><i>Picture related to project (700kb)</i></p>	<div> </div> <p><i>Figure 1</i></p> <div> </div> <p><i>Figure 2</i></p>
<p>Rating/Level</p>	<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.