

BORANG INVENTORI PROJEK PELAJAR

PERKARA	MAKLUMAT INFORMATION																
Program <i>Program</i>	DIPLOMA ELECTRICAL TECHNOLOGY DET 5A																
Jabatan <i>Department</i>	KEJURUTERAAN ELEKTRIK																
Semester/ Tahun <i>Semester/ Year</i>	5																
Tajuk Projek <i>Project Title</i>	MINI REMOTE CONTROL LAWN MOWER																
Jenis Projek <i>Type of Project</i>	HARDWARE (PRODUCT)																
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 checked="" 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 checked="" 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>	<p>1. Name: MUHAMMAD AIMAN SAFWAN BIN ABDULLAH No. Identification card: 14DET15F1052</p> <p>2. Name: MOHAMAD AMIRUL HAFIZ BIN JANI No. Identification card: 14DET15F1022</p> <p>3. Name: MOHAMAD FIRDAUS BIN BUSRI No. Identification card: 14DET15F1090</p>																
Penyelia <i>Supervisor</i>	<p>Name: PUAN JUMALIAH BINTI JAHURI No. Identification card:</p>																
Penyelia Bersama Co- <i>Supervisor</i>	<p>1. Name: PUAN HANISAH BINTI SALAM No. Identification card:</p>																
Abstrak <i>Abstract</i>	<p>The grass machine is one of the important tools for cutting the grass that has grown long. However, self-regulating grass machines and oils are widely used by humans. This can make users vulnerable under the sun and use a lot of energy. Therefore, mini remote control lawn mowers need to be developed to solve this</p>																

	<p>problem. This remote control lawn mower is equipped with a remote control for the user to control the machine remotely and prevent users from exposed to the sun. Batteries are used to empower the motor to move the machine forward, backward, right and left. The battery also powers the motor on the blade for turning the blade. Receivers and transmitter have been developed to give and receive signals to drive the motor and blade. In conclusion, consumers can cut grass while saving time and energy while cutting grass without sun exposure. In addition, consumers can also avoid air pollution by using battery power without using smoke-free oils and causing air pollution.</p>
<p>Keyword Keyword (max 5 word)</p>	
<p>Objektif Projek Project Objectives</p>	<ol style="list-style-type: none"> I. To build the grass machine using a remote control for reduce the manpower and avoiding people from expose to sunlight. II. To moving grass machines using batteries and not using oils that could cause air pollution. III. To placing crop tools by building a place to place crop tools so that users are easy to carry anywhere without having to go to the store's store.
<p>Skop Projek Project scope</p>	<ol style="list-style-type: none"> I. The distance between remote control with the lawn mower is about 500 meter. II. This remote lawn mower just can used in a small area such as mini garden and flat ground about 8x100 square. III. Battery we use is 7.2v and can hold out about 45 minutes
<p>IP No</p>	
<p>Dapatan Finding (500 words max)</p>	<p>I. Remote Control</p> <p>After we have tried our mini remote control lawn mower project that we have created, we find that the remote control we use can only be used within 500 meters between the remote control and the machine. Just 500 meters can control the lawn machine. more than 500 meters, the receiver will not be able to identify the signal from the transmitter.</p>

II. Battery Lippo 7.2V

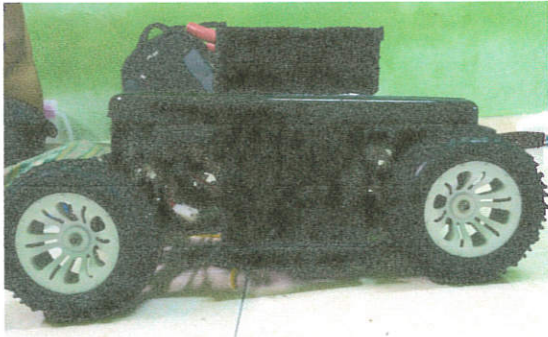

The batteries we use to drive the lawn mower and the blade motor are lippo batteries with 7.2V power. We find that the battery we are using is taking full charge for 3 or 4 hours. However, the batteries we use can also be used to move the lawn for just 45 minutes. Over 45 minutes the battery will not be able to power to drive the lawn mower and the blade motor.

III. Area and Place

The mini remote control lawn mower we created was designed only to cut the grass in small areas such as mini-parks, home yards and grass-thin, non-abrasive grasses. The area we have found and has been estimated is within an approximate 8X100 square. In addition, we use large-sized tires so our mini lawn mower remote control can be used and can cut grass on uneven ground such as perforated and hilly terrain. Mini remote control lawn mower can not cut the grass in a rough grass area because the motor to swivel our blades can not afford to cut off the abrasive grass. So our mini remote control lawn mower can only be used to cut grass in fine grass areas and small areas.

IV. Plant shelter

At our mini lawn mower remote control body we build a place to place crop tools such as hand pegs, armrests, trim shears and others called plant shelters. We find that the weight of the tools can be placed inside the Plant shelter is within 5kg. This is because, when more than weighing weight, our mini remote control lawn mower is unable to move and will affect our blades to twist. Just the prescribed weight can be thrown on the plant shelter.

<p>Cadangan untuk kerja-kerja akan datang <i>Suggestion for future work</i> (500words)</p>	<p>Our proposal for future work on our mini lawn mower remote control is that we will try to improve our mini remote control lawn mower such as our blades can be opened and re-assembled examples can be used with such switches as can be used with blade blades or rope straps like grass machines that are often used today. In addition, we will change the motors we use to move the machines and blades we use now to our mini remote control lawn mowers to a more powerful and higher powered motor so that we can cut the rough and thick grass and can cut the grass in a large area. Next, we will also use a stronger battery and can last longer to move our mini remote control lawn mower and also give more power to the blade motor to cut off the abrasive grass and also empower the motor to moving our mini remote control lawn mower in a vast area.</p> <p>Finally, we will expand the place to place our existing crop tools on our mini lawn mower remote control so that mini-remote control lawn mowers can put more crop tools out of the existing ones that have areas We will also expand our mini lawn mower remote control body size so as to accommodate the weight of the plant equipment filled in the plant's location. We will modify this pre-existing system to a better system so that it can be used to cut grass in a wide area and can cut off a rough and thick grass.</p>	
<p>Gambar berkaitan projek <i>Picture related to project</i> (700kb)</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 Departments / Institutes / National / International</p>	

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