




## BORANG INVENTORI PROJEK PELAJAR

PERKARA	MAKLUMAT INFORMATION
Program <i>Program</i>	DKM
Jabatan <i>Department</i>	KEJURUTERAAN MEKANIKAL
Semester/ Tahun <i>Semester/ Year</i>	LIMA
Tajuk Projek <i>Project Title</i>	MOTORIZED WHEELBARROW
Jenis Projek <i>Type of Project</i>	INOVASI
Kategori Kluster Penyelidikan <i>Category/ research Cluster</i>	TEKNOLOGI DAN KEJURUTERAAN
Ahli Kumpulan <i>Group member</i>	1. SUBASH A/L MARIAPPAN 990804-10-6413 2. ASVINDRAAN A/L MOGAN 991220-01-6339 3. 4. 5.
Penyelia <i>Supervisor</i>	MUHAMAAD ALIF ALBAKRI BIN ABDULLAH 741231-12-5459
Penyelia Bersama <i>Co-Supervisor</i>	
Abstrak <i>Abstract</i>	'Motorized Wheelbarrow' is and innovation equipped with tyres, body carts, and holders to support the load. We as members of group have concurred to improve existing products on the market to product smarter for example we installed sprocket and direct current motors (DC) for wheelbarrow. These changes may reduce some of the burden that will be borne by consumers and reduce the manpower used for moving the load when using our innovation product. The operation using direct current motor is the brainchild of our group and serves to drive the motor sprocket at the motor connected to the front tyre chains carts which are also equipped with a sprocket. It uses battery as electricity source and convert electrical energy to kinetic energy. This Motorized Wheelbarrow speed

	can be controlled by operating Pulse Width Modulation (PWM) which had installed on the handle to ensure consumers safety
Keyword <i>Keyword</i> (max 5 word)	This wheelbarrow can be move without pushing it with the help of dc motor, battery, sprocket chain and speed controller
Objektif Projek <i>Project Objectives</i>	<ol style="list-style-type: none"> <li>1. To innovate a wheelbarrow that would be helpful to reduce Man-power energy to carry heavy loads.</li> <li>2. To identify the ability of carrying loads on different type of surfaces.</li> </ol>
Skop Projek <i>Project scope</i>	<ol style="list-style-type: none"> <li>1. Valuable data are searched and gathered. Considering the types of motorized wheelbarrow in terms of its usability and method to innovate a wheelbarrow.</li> <li>2. Sketching and Designing using Autodesk inventor software in creating the design of motorized wheelbarrow.</li> <li>3. Fabricate and produce the motorized wheelbarrow by using on necessary manufacturing process such as welding, cutting, wiring and etc.</li> <li>4. Testing and Evaluation : Simulate the mechanism of the motorized wheelbarrow with the expected functions to be.</li> </ol>

IP No		
Dapatan <i>Finding</i> (500 words max)	This motorized wheelbarrow can be moved by the help of dc motor. This wheelbarrow speed also can be controlled by Pulse width Modulation (PWM) and used 12 voltage of battery as a electric source	
Cadangan untuk kerja-kerja akan datang <i>Suggestion for future work</i> (500words)	1. It can use only for 4 hours and below 2. Can't be used on rainy days 3. Improving the position of switch in order to make it much easy to use. 4. Create a more efficient design	
Gambar berkaitan projek  <i>Picture related to project</i> (700kb)		
Rating/Level	JABATAN	

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*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.*

