LAMPIRAN J

POLITEKNIK MALAYSIA

BORANG INVENTORI PROJEK PELAJAR

PERKARA	MAKLUMAT *INFORMATION*
Program *Program*	DTK 5B
Jabatan *Department*	JABATAN KEJURUTERAAN ELEKTRIK
Semester/ Tahun *Semester/ Year*	5
Tajuk Projek *Project Title*	FAN CONTROLLER KIT
Jenis Projek *Type of Project*	
Kategori Kluster Penyelidikan *Category/ research Cluster*	Tanda " / " pada yang berkenaan: *Please tick " / " where applicable:* ( ) Sains tulen (*Pure Science*) ( ) Sains gunaan (*Applied Science*) (/) Teknologi dan kejuruteraan (*Technology and Engineering*) ( ) Sains kesihatan dan klinikal (*Clinical and Health Sciences*) ( ) Sains sosial (*Social Sciences*) ( ) Sastera dan sastera ikhtisas (*Arts and Applied Arts*) ( ) Warisan alam dan budaya (*Natural Sciences and National Heritage*) ( ) Teknologi maklumat dan komunikasi (*Information and Communication Technology*)
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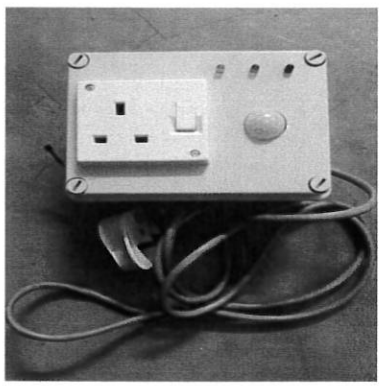
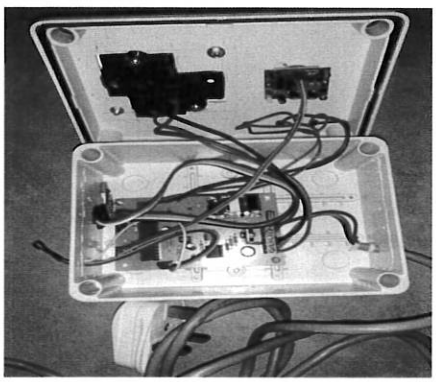
Penyelia *Supervisor*	Name: Cik Aspalilla binti Main No. Identification card:
Penyelia Bersama *Co-Supervisor*	1. Name: No. Identification card:
Abstrak *Abstract*	In this modern world, with the advancement of new technologies it makes people life easier and comfortable. There are many new technologies are been developed days by days. By researching of past year's project, our group have found that there are many fans are created with an automatic motion detector or a speed regulator fan according to the temperature that was built in the fan such as automatic tracking smart fan, intelligent fan, smart dc fan and many more. Besides, there aren't any simple kits are been made before this to fix with the fan which can control the fan. So, our group have come to a decision to create a simple kit that can control the fan without embed the circuit inside the fan. This kit is built with two type of sensors which is motion sensor and temperature sensor, so that it will automatically switch on the fan when the motion sensor detect human presence and temperature sensor regulate the fan speed according to the surrounding temperature. Moreover, with our new kit,

	people can easily fix to the stand table or table fans so that they can use and bring them anywhere by just plug in the socket. Furthermore, there is some benefits of our new kit which are if there is some damage in the built in fan circuit, user just can replace them with our kit instead of replacing it with new fan. It reduce people cost too. Lastly, with this ideas our group have successfully conduct this project.
Keyword *Keyword* (max 5 word)	Fan Controller Kit
Objektif Projek *Project Objectives*	1. To build a kit for a fan to control the fan that is easy to bring anywhere by plug in . 2. To build a kit with combination of two type of sensor which is temperature and motion sensor that can work at the same time . 3. To build a kit that can fix to the most of the stand or table fan. 4. To build a kit that can replace when there is broken or damage in the controller fan.
Skop Projek *Project scope*	1. Can use and fix to 230 V and below fans. 2. Can control the maximum speed of the fan and the minimum and maximum temperature at a time. 3. Detect the nearby people in 3 meter range and automatically the motion detector LED light up. 4. Detect the temperature range from to and automatically the temperature detector LED light up. 5. Compact in a box with 6m x 4m size. 6. Insert the fan plug in the socket. 7. Suitable for office and school use only.
IP No	-
Dapatan *Finding* (*500 words max*)	The principal outcomes of a research project, what the project suggested, revealed or indicated. This usually refers to the totality of outcomes, rather than the conclusions or recommendations drawn from them. • We have do an observation based on people's opinion is it hard or easy to bring this kit to anywhere. The result shows that our kit is easy to bring anywhere. • We have do an observation in testing on the temperature sensor with certain temperature. The result show the speed of fan(%) that were

	taken in different time and temperature. • We have do an observation by placing our kit connected with fan in a certain distance to test the motion sensor. The result shows that our motion sensor successfully sense in 3.7 metre distance. • We have done observation on our kit that how long it will spin before the fan off after there is no one with in the range. The result shows that we have record the time taken to the fan to switch off five times • We have do an observation with our kit by fixing to five different type of fans. The result shows that our kit can function well by fixing to any fan. • We have do an observation with our kit by testing to broken smart fan controller.The result shows that our kit can replace the controller and function well by fixing to the broken smart fan.
Cadangan untuk kerja-kerja akan datang *Suggestion for future work* (*500words*)	For the future research of this project, we suggest that upgrade this kit by using a motion sensor that can detect more than 3.7 metre range. Besides, we also suggest put a LCD display on the box to show the temperature reading and the speed of the fan. Lastly , we suggest for the future researcher to fix this kit to ceiling fan.
Gambar berkaitan projek *Picture related to project* (700kb)	 *Figure 1*  *Figure 2*
Rating/Level	**Jabatan**/ Politeknik/ Kebangsaan/ Antarabangsa *Departments / Institutes / National / International*

* *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.*