POLITEKNIK MALAYSIA

BORANG INVENTORI PROJEK PELAJAR

PERKARA	MAKLUMAT *INFORMATION*
Program *Program*	DET
Jabatan *Department*	KEJURUTERAAN ELEKTRIK
Semester/ Tahun *Semester/ Year*	LIMA
Tajuk Projek *Project Title*	IRON SYSTEM USING ARDUINO
Jenis Projek *Type of Project*	INOVASI
Kategori Kluster Penyelidikan *Category/ research Cluster*	TEKNOLOGI DAN KEJURUTERAAN
Ahli Kumpulan *Group member*	1. MUHAMMAD ZULHAFIZ BIN MOHD NOH 991112-10-6265 2. VENU PRASATH A/L ELANGOH 990613-01-5519 3. 4. 5.
Penyelia *Supervisor*	SUBASHNEE A/P MARIMUTHU 741106-05-5244
Penyelia Bersama *Co-Supervisor*	
Abstrak *Abstract*	ABSTRACT The Malaysian iron market has good safety features, but there are some problems that can cause injuries and damage. Therefore, we will be innovating the iron in the market to make it better. Our iron is designed with an automatic on and shut down system, with this problem such as fires due to iron overheating as the consumer forgets to switch off the switch after using the iron. Additionally, clothing may burn overtime. When the iron is overheated it can cause fire and it should be avoided as it may cause injury or even death. Therefore, we create shut down and on automatic systems. This iron is able to shut down if the user does not place the hand on the iron handle. And it is capable to switch on if the user

	puts his hand to the iron handle. This iron will benefit users out there. By creating this safety the user will be more secure.
Keyword *Keyword* (max 5 word)	SAFETY IRON
Objektif Projek *Project Objectives*	To prevent iron from overheating when left unattended for long period of time using ultrasonic sensor and timer. To cut off the iron when the user forgets to do so by using timer. To prevent fire hazard by cutting off power to the iron by using relay.
Skop Projek *Project scope*	This project will use timer, ultrasonic sensor with arduino and relay. This parts will be used to cutoff the power. The timer will be used to cutoff the heating circuit from the iron. The relay will be used to cutoff power from the main input. The ultrasonic sensor will be used to detect motion and trigger to timer. The relay will be used to switch to the back up power when the main power cutoff.

IP No	
Dapatan *Finding* (*500 words max*)	INTERNET LITERATURE REVIEW
Cadangan untuk kerja-kerja akan datang *Suggestion for future work* (*500words*)	ADD FINGERPRINT TO ON THE IRON FOR SAFETY
Gambar berkaitan projek *Picture related to project* (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.