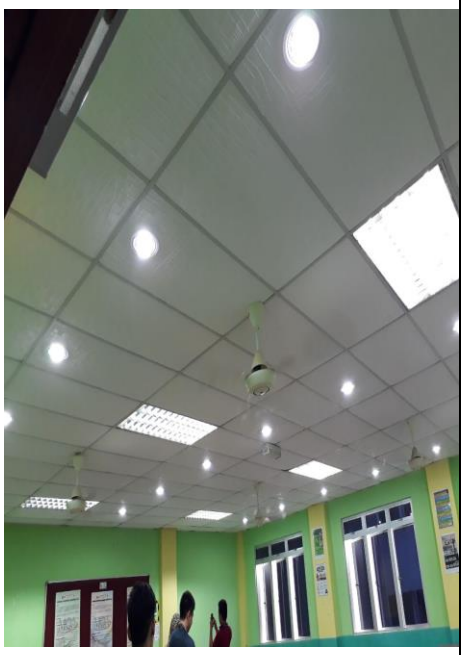
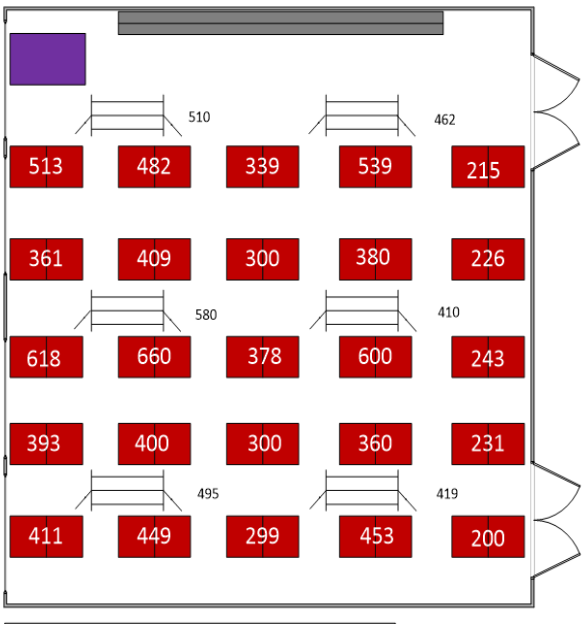
LAMPIRAN J

BORANG INVENTORI PROJEK PELAJAR

PERKARA	MAKLUMAT *INFORMATION*
Program *Program*	DIPLOMA KEJURUTERAAN ELEKTRIK (DET)
Jabatan *Department*	JABATAN KEJURUTERAAN ELEKTRIK
Semester/ Tahun *Semester/ Year*	5
Tajuk Projek *Project Title*	COMBINATION FLOURESCENT AND DOWNLIGHT TO EQUALIZE THHE LIGHTING USING REMOTE CONTROLLED MANUALLY
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*)
Ahli Kumpulan *Group member*	1. Name: Syafiqah Binti Rozi No. Identification card: 980225-01-5454 2. Name: Fatien Fatieha Binti Omar No. Identification card:
Penyelia *Supervisor*	Name: Mohd Jamhari Ismail Bin Md Tokit No. Identification card: 721110-10-5437
Penyelia Bersama *Co-Supervisor*	1. Name: No. Identification card:
Abstrak *Abstract*	Recent research in photobiology has revealed links between light and human health that are likely to have a significant effect on lighting practice. These effects should begin to be incorporated into lighting design practice and lighting recommendations. High-power light-emitting diodes (LEDs) have begin to differentiate themselves from their more common cousins the indicator LED. Today these LEDs are designed to generate 10-100 lm per LED with efficiencies that surpass incandescent and halogen bulbs. After a summary of the motivation for the development of the high-power LED and a look at the future markets, we describe the current state of high-power LED technology and the challenges that lay ahead for development of a true "solid state lamp." We demonstrate record performance and reliability for high-power colored and white LEDs and show results from the worlds first 100-plus lumen white LED lamp, the solid state equivalent of Thomas Edison's 20-W incandescent lightbulb approximately one century later.

Keyword *Keyword* (max 5 word)	Wiring, lumen, lighting, down;ight, humidity
Objektif Projek *Project Objectives*	The main objective of this project is balancing the lighting in the classroom.More specifically the principle objective of this research are: 1. Justify the luminance percentage in the classroom. 2. Additional downlights in the classroom 3. To balance the rate of luminance in the classroom between 300-500lux. 4. Adding the switch for the additional downlight lamps.
Skop Projek *Project scope*	We're able to do all below: 1. This project is focusing balancing of lighting 2. The emphasis is about important of lumen lighting 3. The main controller is using downlight
IP No	NIL
Dapatan *Finding* (*500 words max*)	1. From the research, needed to knows the better lighting or better lumen for a classroom. To have a balance lumen for a classroom is between 300-500. 2. Beside that, below is a reading of lumen for a classroom (M-1-BK2) after using additional lamps such as downlight LED 3. The finding from this project, lighting can affect by natural or made from humans. But the best of lumen is needed to effect a good humanity for a classroom from make the classroom more warm.
Cadangan untuk kerja-kerja akan datang *Suggestion for future work* (*500words*)	There are some improvements need to be done to get a more efficiency for lighting: 1. Adding movement sensor for automatic open and close the lamps 2. Using automatically adjustment of lighting by using smartphone

Gambar berkaitan projek *Picture related to project* (700kb)	 *Figure 1*	 *Figure 2*
Rating/Level	Jabatan/ Politeknik/ Kebangsaan/ Antarabangsa *Departments / Institutes / National / International*	

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