POLITEKNIK
MALAYSIA

BORANG INVENTORI PROJEK PELAJAR

PERKARA	MAKLUMAT _INFORMATION_
Program _Program_	DEP5B
Jabatan _Department_	Kejuruteraan Elektrik
Semester/ Tahun _Semester/ Year_	5
Tajuk Projek _Project Title_	VCAM WITH FM TRANSMITTER IN CLASSROOM
Jenis Projek _Type of Project_	Hardware and Software
Kategori Kluster Penyelidikan _Category/ research Cluster_	Tanda " / " pada yang berkenaan: _Please tick " / " where applicable:_ <table><tr><td></td><td>Sains tulen (_Pure Science_)</td></tr><tr><td></td><td>Sains gunaan (_Applied Science_)</td></tr><tr><td>/</td><td>Teknologi dan kejuruteraan (_Technology and Engineering_)</td></tr><tr><td></td><td>Sains kesihatan dan klinikal (_Clinical and Health Sciences_)</td></tr><tr><td></td><td>Sains sosial (_Social Sciences_)</td></tr><tr><td></td><td>Sastera dan sastera ikhtisas (_Arts and Applied Arts_)</td></tr><tr><td></td><td>Warisan alam dan budaya (_Natural Sciences and National Heritage_)</td></tr><tr><td></td><td>Teknologi maklumat dan komunikasi (_Information and Communication Technology_)</td></tr></table>

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Abstrak *Abstract*	Learning and teaching is a strategy used by the Malaysian Education Department to educate the nation to become highly knowledgeable in all fields. Because lessons are very important, researcher create a tool that facilitates teaching and teaching sessions in the classroom. This tool was created to help students who were unable to attend high class grounds such as illness, emergency matter and others. The tools inspired by the "facebook live" app can make sure students who are unable to attend can still study in the classroom as they only need to use smartphones. Using a camera that has a wide lens can definitely capture what the lecturer has taught. This makes the student seem to be in the classroom. The sound system is supported by FM transmitter which will definitely give a clear audio. In addition, use a "processing system" as a "converting process" to convert analog video signals to digital video. This product can also be used for minutes of meetings by firm firms that often take on a surprise meeting. Therefore, officers who may be outside of the area or are on holiday, may use this system to ensure that they do not miss anything important. After doing some research on the camera system and sound system, the researchers finally produce the "Vcam with FM Transmitter in Classroom" that works well and can achieve the objective of this task. This project can explain how troubleshooting can not be present at meetings and other discussions with video recording. Recording videos uploaded live on youtube and facebook can address the issues mentioned. This project can also build a visualizer with a small capital and has a clear view.
Keyword *Keyword* (max 5 word)	Vcam , Fm Tramsmitter , Visualiser
Objektif Projek *Project Objectives*	• Students will not miss lesson by using this project . • Students can still watch the video at the same time without any delay.
Skop Projek *Project scope*	A project produced must have its own scope to demonstrate capabilities compared to other projects. The first scope for this project is that the camera can record up to 2 hours. Second Vcam can capture 30 feet wide and 30 feet long with clear view and sufficient light so that the video more clear and bright. Third, sound system supported by FM Transmitter. Lastly, FM Transmitter can affect frequency for 30 feet square.
IP No	
Dapatan *Finding* (500 rds max)	In this task, students have did a lot of work to make sure the product will be succeed. The FM TRANSMITTER can be transmit the voice to any FM receiver. This product has good stability and an adjustable transmitting frequency from approximately 88 to 108 MHZ or accurately 89.0 MHZ. In can operates with a 9V battery and incorporate a sensitive microphone mounted right on the board. The processing ability for connected camera to the laptop/computer. This processing can use two cameras at a time. The student use processing software 3.2.3. this is the great work because student can build coding c programming that can use two cameras at a time and also no delay. The camera that we use has a wide view. Other than that, the camera is light

and small. In addition, camera can be used for up to two hours.

Students have learned a lot about electronic circuits, how to install, test and also programming systems. Students also have a experience the "install and fail" experience before they succeed in good planning. "Install and fail" is also a good experience to find a way to solve the problem. There are some identified problems. Among others:

1. It is found that the component foot is mounted upside down

2. There are components that are damaged when purchased

3. Cleanser soldering

4. Wrong coding

5. Cannot run application for camera

6. Noise sound at FM Transmitter

Cadangan untuk kerja-kerja akan datang *Suggestion for future work (500words)*	• Using camera which view more clear • Build the fm transmitter which can be coverage a big area • create a program that does not need internet to watch video
Gambar berkaitan projek *Picture related to project* (700kb)	 *Figure 1*
Rating/Level	Jabatan/ Politeknik/ Kebangsaan/ Antarabangsa *Departments / Institutes / National / International*