

BORANG INVENTORI PROJEK PELAJAR

PERKARA	MAKLUMAT INFORMATION																
Program <i>Program</i>	DET 5C																
Jabatan <i>Department</i>	JABATAN KEJURUTERAAN ELEKTRIK																
Semester/ Tahun <i>Semester/ Year</i>	SEMESTER 5 / 2017																
Tajuk Projek <i>Project Title</i>	DIGITAL BOOK TRAINER																
Jenis Projek <i>Type of Project</i>	HARDWARE																
Kategori Kluster Penyelidikan <i>Category/ research Cluster</i>	Tanda “ / ” pada yang berkenaan: <i>Please tick “ / ” where applicable:</i> <table border="1"> <tbody> <tr> <td>☐</td> <td>Sains tulen (<i>Pure Science</i>)</td> </tr> <tr> <td>☐</td> <td>Sains gunaan (<i>Applied Science</i>)</td> </tr> <tr> <td>☐</td> <td>Teknologi dan kejuruteraan (<i>Technology and Engineering</i>)</td> </tr> <tr> <td>☐</td> <td>Sains kesihatan dan klinikal (<i>Clinical and Health Sciences</i>)</td> </tr> <tr> <td>☐</td> <td>Sains sosial (<i>Social Sciences</i>)</td> </tr> <tr> <td>☐</td> <td>Sastera dan sastera ikhtisas (<i>Arts and Applied Arts</i>)</td> </tr> <tr> <td>☐</td> <td>Warisan alam dan budaya (<i>Natural Sciences and National Heritage</i>)</td> </tr> <tr> <td>☐</td> <td>Teknologi maklumat dan komunikasi (<i>Information and Communication Technology</i>)</td> </tr> </tbody> </table>	☐	Sains tulen (<i>Pure Science</i>)	☐	Sains gunaan (<i>Applied Science</i>)	☐	Teknologi dan kejuruteraan (<i>Technology and Engineering</i>)	☐	Sains kesihatan dan klinikal (<i>Clinical and Health Sciences</i>)	☐	Sains sosial (<i>Social Sciences</i>)	☐	Sastera dan sastera ikhtisas (<i>Arts and Applied Arts</i>)	☐	Warisan alam dan budaya (<i>Natural Sciences and National Heritage</i>)	☐	Teknologi maklumat dan komunikasi (<i>Information and Communication Technology</i>)
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Abstrak <i>Abstract</i>	Practicing in laboratories related to electronic operations is important to produce high skills. The scenario now demonstrates a lot of practical in-laboratories using a large-sized digital trainer system for students and lecturers and in addition to overpricing costs. Hence, the use of small-scale student board is necessary to facilitate practical work. A digital trainer system called Digital																

	Book Trainer was developed. This project is Applied from Digital Trainer Board but by changing and adding conductive pen function to make circuit connection, modular system as platform for electronic component and rechargeable battery as power supply. This project is aimed at students and lecturers to facilitate the process of repetition to integrate operating circuits (integrated circuits) for Electronic Digital subjects. The advantages of this app are easy to carry, cheaper than the plate board circuit and easy to use. Qualitative studies have been conducted to assess the characteristics of the system. Studies show that Digital Book Educators are user-friendly in terms of motivation, interface design and comfortable users.
Keyword Keyword (max 5 word)	DIGITAL BOOK TRAINER
Objektif Projek Project Objectives	1. To design a digital trainer book that served as digital trainer board, this is affordable for student and easy to use. 2. To build trainer that can be long lasting (durable) and required low cost maintenance. 3. To design an trainer book that portable and easy to carry.
Skop Projek Project scope	This project focus to design a digital trainer which is similar to the basic functional of trainer but it provides new method on circuit construction and new approach of electronic trainer to meet the objective of project. There are several scope for this project and it divide into 3 major scope, which is circuit design, hardware design and prototype design; 1. Circuit Design The scope of this project is the experiment circuit design in this electronic book trainer only refer to the Digital Electronic DEE2034 syllabus only and the main schematic for the circuit are tested on the livewire before it will be plotted on the paper

	2. Hardware Design This trainer supports electronic component that requires 5v power supply and below and only using small electronic component 3. Prototype Design Conductive pen is used as the main connector to make the circuit connection and all the electronic component in this trainer must be in modular shape. This trainer will be design as a book concept which same as A4 size.
IP No	
Dapatan Finding (500 words max)	Survey of building and testing Digital Book Trainer in Digital Electronic subject as a tool for learning and teaching. The title of this survey is to study Digital Book Trainer in Digital Electronic subject as a tool for learning and teaching among the student and lecture. The questionnaire were distributed 3 lecture and 20 student. This analysis contain 3 section. After doing the survey. It has been done show that majority of the respondent agree to all the aspect. The result from the analysis show that min for every aspect is above 4.00, the design aspect get the highest min that is 4.55.
Cadangan untuk kerja-kerja akan datang Suggestion for future work (500words)	In the future, we will make in Computer Numerical Control (CNC) which our modular kit look like premium. Before this, this project made by handmade and the modular kit design are not perfectly to create circuit design because the modular kit our handmade are not accurate

Gambar berkaitan projek <i>Picture related to project (700kb)</i>	 <i>Figure 1</i>	 <i>Figure 2</i>
Rating/Level	Jabatan/ Politeknik Departments / Institutes	

* 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.