





BORANG INVENTORI PROJEK PELAJAR

PERKARA	MAKLUMAT INFORMATION
Program <i>Program</i>	DEP
Jabatan <i>Department</i>	KEJURUTERAAN ELEKTRIK
Semester/ Tahun <i>Semester/ Year</i>	LIMA
Tajuk Projek <i>Project Title</i>	HEART RATE SENSOR
Jenis Projek <i>Type of Project</i>	INOVASI
Kategori Kluster Penyelidikan <i>Category/ research Cluster</i>	TEKNOLOGI DAN KEJURUTERAAN
Ahli Kumpulan <i>Group member</i>	1. NURUL AQILA BINTI RAZALI 990814-14-5010 2. NUR FATIN ILYANA BINTI SAMSUDIN 990301-01-6758 3. 4. 5.
Penyelia <i>Supervisor</i>	ENCIK AMIR BIN AWANG 800609-11-5111
Penyelia Bersama <i>Co-Supervisor</i>	PUAN RODZAH BINTI HJ YAHYA 690324-01-5518
Abstrak <i>Abstract</i>	<p>The heart rate can be measured by monitoring one's pulse using specialized medical devices such as an electrocardiograph (ECG), portable device e.g. wrist strap watch, or any other commercial heart rate monitors which normally consisting of a chest strap with electrodes. Despite of its accuracy, somehow it is costly, involve many clinical settings and patient must be attended by medical experts for continuous monitoring. For a patient whom already diagnosed with fatal heart disease, their heart rate condition has to be monitored continously. This paper proposed an alert system that able to monitor the heart beat rate condition of patient. The heart beat rate is detected using photoplethysmograph (PPG) technique. This signal is processed using PIC16F87 microcontroller to</p>

	determine the heart beat rate per minute. Then, it sends sms alert to the mobile phone of medical experts or patient's family members, or their relatives via SMS. Thus, doctors can monitor and diagnose the patient's condition continuously and could suggest earlier precaution for the patients themselves. This will also alert the family members to quickly attend the patient.
Keyword <i>Keyword</i> (max 5 word)	HEART RATE SENSOR
Objektif Projek <i>Project Objectives</i>	<p>The main objective of this project is to improve heart rate reading skills for all people.</p> <p>More specifically the principle objective of this research are:</p> <ol style="list-style-type: none"> 1. To design project that facilitate personal monitoring of heart rate and the time required is within 10 seconds. 2. To implement a network system capable of sending messages to users via mobile phones using blynk application . 3. To develop a heart rate system reading that can provide health information faster.
Skop Projek <i>Project scope</i>	<ol style="list-style-type: none"> 1. This project is focusing to produces heart rate readings using heart rate sensor. 2. The emphasis is heart rate reading systems without using sign-up enrolment that can be accesed by all parties. 3. The main controller using in this project using network system that facilitates user management to monitor heart rate over time is Esp32.

IP No		
Dapatan <i>Finding</i> (500 words max)	JADUAL TESTIMONI ARTIKEL BACAAN BPM JURNAL HEART RATE SENSOR	
Cadangan untuk kerja-kerja akan datang <i>Suggestion for future work</i> (500words)	QUALITY PRODUCT	
Gambar berkaitan projek <i>Picture related to project (700kb)</i>		
Rating/Level	JABATAN	

**

Borang ini perlu diisi oleh pelajar dan dihantar kepada penyelia/ penyelarar projek dalam bentuk hardcopy dan softcopy (borang LAMPIRAN J) dan gambar hasil projek dalam format jpeg/bitmap) bersama laporan akhir dan hasil projek.

