LAMPIRAN J

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*	Smart monitoring parking with navigation using android application
Jenis Projek *Type of Project*	INOVASI
Kategori Kluster Penyelidikan *Category/ research Cluster*	TEKNOLOGI DAN KEJURUTERAAN
Ahli Kumpulan *Group member*	1. SITI NUR AISHAH BINTI KAMIL 990612-14-5346 2. NIK NUR FARAHEEN BINTI NIK AHMAD SUHAIDI 990701-11-5122 3. 4. 5.
Penyelia *Supervisor*	PUAN NORAIHAN BINTI ISA 730820-09-5313
Penyelia Bersama *Co-Supervisor*	
Abstrak *Abstract*	An Internet of Things (IoT) based parking system informs the user to find out about the nearest parking area and gives availability of parking slots in that respective area. It mainly focuses on reducing time in finding the parking slots and also avoiding unnecessary travelling through filled parking lots in a parking area. This project mainly focuses on Polytechnic Merlimau roof top parking and technological advancements. As a methodology, since we have worked on the hardware and software sections of the project separately, we have use stage delivery for the hardware section and programming for the software section, in which we worked our way up the system from the basic sensors all the way to our server. In this paper, we proposed the smart parking system using the internet of

	things (IoT) that can be part of a solution for the parking problem. This system help in organizing the parking lot and helps the driver to reach their parking lot easily. The parking space can be detected using an ultrasonic sensor (HC-SR04) that connects to the Node MCU module that was programmed through arduino IDE. Users can access parking space information using a smartphone via an application. The system work with the purpose of research appropriately.
Keyword *Keyword* (max 5 word)	Parking availability with navigation
Objektif Projek *Project Objectives*	1) To deliver an automated software system that run data acquisition on individual parking space via single sensor detection 2) To develop and simulate prototype device that combine hardware and software 3) To develop a parking system that using NodeMCU and ultrasonic sensor
Skop Projek *Project scope*	1) This project is focusing on showing location of available parking spaces at politechnic area 2) The main controller is using NodeMCU and ultrasonic sensor

IP No		
Dapatan *Finding* (*500 words max*)	Jika parking kosong, akan keluar "empty" dan navigation untuk lot parking tersebut	
Cadangan untuk kerja-kerja akan datang *Suggestion for future work* (*500words*)	Menambah baik sistem parking sedia ada	
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.