

DAFTAR ISI

PERNYATAAN ORISINILITAS PENELITIAN	Error! Bookmark not defined.
PERSETUJUAN	Error! Bookmark not defined.
PENGESAHAN	Error! Bookmark not defined.
HALAMAN PERSEMBAHAN	Error! Bookmark not defined.
MOTTO	Error! Bookmark not defined.
ABSTRAK.....	Error! Bookmark not defined.
ABSTRACT.....	Error! Bookmark not defined.
KATA PENGANTAR	Error! Bookmark not defined.
DAFTAR ISI.....	1
DAFTAR TABEL.....	3
DAFTAR GAMBAR	4
DAFTAR LAMPIRAN	5
BAB I PENDAHULUAN	Error! Bookmark not defined.
1.1 Latar Belakang	Error! Bookmark not defined.
1.2 Ruang Lingkup Penelitian	Error! Bookmark not defined.
1.3 Rumusan Masalah.....	Error! Bookmark not defined.
1.3 Tujuan Penelitian	Error! Bookmark not defined.
1.4 Manfaat Penelitian	Error! Bookmark not defined.
1.5 Sistematika Penulisan	Error! Bookmark not defined.
BAB II TINJAUAN PUSTAKA.....	Error! Bookmark not defined.
2.1 Studi Literatur	Error! Bookmark not defined.
2.2 Dasar Teori	Error! Bookmark not defined.
2.2.1 Zat Pencemar.....	Error! Bookmark not defined.
2.2.2 Sumber Daya Udara	Error! Bookmark not defined.
2.3 Perangkat Keras Yang Digunakan....	Error! Bookmark not defined.
2.3.1 Sensor MQ-135	Error! Bookmark not defined.
2.3.2 NodeMCU ESP8266	Error! Bookmark not defined.
2.4 Perangkat Lunak Yang Digunakan ...	Error! Bookmark not defined.
2.4.1 Software Mikrokontroler Arduino Uno	Error! Bookmark not defined.

2.4.2	Prangkat Lunak Arduino IDE	Error! Bookmark not defined.
2.4.3	Internet of Things.....	Error! Bookmark not defined.
2.4.4	Android	Error! Bookmark not defined.
2.4.5	Aplikasi Blynk	Error! Bookmark not defined.
BAB III METODOLOGI PENELITIAN		Error! Bookmark not defined.
3.1	Alat dan Bahan	Error! Bookmark not defined.
3.1.1	Alat.....	Error! Bookmark not defined.
3.1.2	Bahan.....	Error! Bookmark not defined.
3.1.3	Software	Error! Bookmark not defined.
3.2	Studi Literatur	Error! Bookmark not defined.
3.3	Analisa Perancangan Sistem.....	Error! Bookmark not defined.
3.3.1	Perancangan Perangkat Keras	Error! Bookmark not defined.
3.3.1.1	Rangkaian Sensor MQ-135.....	Error! Bookmark not defined.
3.3.1.2	Rangkaian Relay	Error! Bookmark not defined.
3.3.1.3	Rangkaian Keseluruhan	Error! Bookmark not defined.
3.3.2	Perancangan Perangkat Lunak	Error! Bookmark not defined.
3.3.2.1	Flowcart Sistem Monitoring Polusi Udara	Error! Bookmark not defined.
3.3.2.2	Flowcart Aplikasi Blink Monitoring Polusi Udara.....	Error! Bookmark not defined.
3.4	Implementasi.....	Error! Bookmark not defined.
3.4.1	Implementasi Perangkat Keras.....	Error! Bookmark not defined.
3.4.2	Implementasi Perangkat Lunak.....	Error! Bookmark not defined.
3.4.3	Cara Pembuatan User Interface Pada Blynk Sebagai Berikut :	Error! Bookmark not defined.
3.5	Pengujian Sistem.....	Error! Bookmark not defined.
3.5.1	Rancangan Pengujian Sensor MQ-135	Error! Bookmark not defined.
3.5.2	Rancangan Pengujian Aplikasi	Error! Bookmark not defined.
3.5.3	Pengujian Sistem Keseluruhan.....	Error! Bookmark not defined.
3.6	Analisis Kerja	Error! Bookmark not defined.

BAB IV HASIL DAN PEMBAHASAN	Error! Bookmark not defined.
4.1 Hasil	Error! Bookmark not defined.
4.1.1 Hasil Pengujian dan Pembahasan.....	Error! Bookmark not defined.
4.1.2 Pengujian Aplikasi Blynk	Error! Bookmark not defined.
4.1.3 Pengujian Sensor MQ-135	Error! Bookmark not defined.
BAB V KESIMPULAN DAN SARAN	Error! Bookmark not defined.
5.1 Kesimpulan	Error! Bookmark not defined.
5.2 Saran	Error! Bookmark not defined.

DAFTAR TABEL

Tabel 2.1 Komposisi Udara Bersih	Error! Bookmark not defined.
Tabel 2.2 Udara Bersih dan Udara Tercemar Menurut WHO	Error! Bookmark not defined.
Tabel 3.1 Alat Yang Dibutuhkan	Error! Bookmark not defined.
Tabel 3.2. Komponen Yang Dibutuhkan	Error! Bookmark not defined.
Tabel 3.3. Daftar Software Yang Digunakan.....	Error! Bookmark not defined.
Tabel 4.1. Hasil Pengujian Aplikasi Blynk.....	Error! Bookmark not defined.
Tabel 4.2. Data Pendeteksian Gas CO ₂ di Udara ...	Error! Bookmark not defined.
Tabel 4.3 Data Pendeteksian Asap Rokok	Error! Bookmark not defined.
Tabel 4.4 Data Pendeteksian Kertas yang dibakar	Error! Bookmark not defined.
Tabel 4.5 Data Pendeteksian Gas Motor	Error! Bookmark not defined.

DAFTAR GAMBAR

Gambar 2.1 Sensor MQ-135	Error! Bookmark not defined.
Gambar 2.2 Kurva karakteristik sensitivitas	Error! Bookmark not defined.
Gambar 2.3, GPIO NodeMCU ESP8266 v3.....	Error! Bookmark not defined.
Gambar 2.4 Arduino IDE	Error! Bookmark not defined.
Gambar 2.5. Ilustrasi dari Internet Of Things	Error! Bookmark not defined.
Gambar 2.6 Membuat Akun Dan Project Pada Aplikasi Blynk	Error! Bookmark not defined.
Gambar 2.7 Auth Token dan Widget Pada Aplikasi Blynk	Error! Bookmark not defined.
Gambar 2.8 Value Display	Error! Bookmark not defined.
Gambar 3.1. Alur Penelitian	Error! Bookmark not defined.
Gambar 3.2. Blok Diagram Sistem	Error! Bookmark not defined.
Gambar 3.3 Rangkaian Sensor MQ-135	Error! Bookmark not defined.
Gambar 3.4 Rangkaian Relay	Error! Bookmark not defined.
Gambar 3.5 Rangkaian Keseluruhan	Error! Bookmark not defined.
Gambar 3.6 Flowchart Sistem Monitoring Polusi Udara	Error! Bookmark not defined.
Gambar 3.7 Flowchart Aplikasi Blynk Monitoring Polusi Udara	Error! Bookmark not defined.
Gambar 3.8 Skematik Sistem Monitoring Polusi Udara	Error! Bookmark not defined.
Gambar 3.9 Perangkat Lunak Arduino	Error! Bookmark not defined.
Gambar 3.10 Membuat Akun Pada Aplikasi Blynk	Error! Bookmark not defined.
Gambar 3.11 Widget Pada Aplikasi Blynk Seperti Button	Error! Bookmark not defined.
Gambar 3.12 Pengaturan Gauge.....	Error! Bookmark not defined.
Gambar. 4.1. Bentuk Fisik Alat Monitoring Polusi Udara	Error! Bookmark not defined.

DAFTAR LAMPIRAN

Lampiran 1 Program	47
Lampiran 2 Datasheet NODEMCU	51
Lampiran 3 Datasheet Sensor MQ135	62