

DAFTAR ISI

LEMBAR PERSETUJUAN	Error! Bookmark not defined.
LEMBAR PENGESAHAN.....	Error! Bookmark not defined.
LEMBAR PERNYATAAN	Error! Bookmark not defined.
KATA PENGANTAR	Error! Bookmark not defined.
ABSTRAK.....	Error! Bookmark not defined.
ABSTRACT	Error! Bookmark not defined.
DAFTAR ISI.....	1
DAFTAR TABEL.....	3
DAFTAR GAMBAR.....	3
DAFTAR LAMPIRAN	4
BAB I PENDAHULUAN	Error! Bookmark not defined.
1.1. Latar Belakang.....	Error! Bookmark not defined.
1.2. Rumusan Masalah.....	Error! Bookmark not defined.
1.3. Tujuan Penelitian	Error! Bookmark not defined.
1.4. Batasan Masalah	Error! Bookmark not defined.
1.5. Manfaat	Error! Bookmark not defined.
BAB II TINJAUAN PUSTAKA.....	Error! Bookmark not defined.
2.1. Jamur	Error! Bookmark not defined.
2.1.1. Jamur Merang	Error! Bookmark not defined.
2.1.3. Budidaya Jamur Merang.....	Error! Bookmark not defined.
2.2. Internet of Things (IoT)	Error! Bookmark not defined.
2.3. NodeMCU ESP8266.....	Error! Bookmark not defined.
2.4. Sensor DHT22	Error! Bookmark not defined.
2.5. Sensor LDR	Error! Bookmark not defined.
2.6. Motor Driver L298N	Error! Bookmark not defined.
2.7. Lampu Led 12 Volt.....	Error! Bookmark not defined.
2.8. Liquid Crystal Display (LCD)	Error! Bookmark not defined.
2.9. <i>Mist Maker</i>	Error! Bookmark not defined.
2.11. <i>Fuzzy Logic Tsukamoto</i>	Error! Bookmark not defined.
BAB III METODE PENELITIAN	Error! Bookmark not defined.
3.1. Bahan Penelitian	Error! Bookmark not defined.

3.2.	Peralatan Penelitian	Error! Bookmark not defined.
3.3.	Lokasi Penelitian dan Waktu Penelitian	Error! Bookmark not defined.
3.4.	Prosedur Penelitian	Error! Bookmark not defined.
3.5.	Tahap Persiapan	Error! Bookmark not defined.
3.6.	Tahap Perancangan	Error! Bookmark not defined.
3.7.	Tahap Pemograman	Error! Bookmark not defined.
3.8.	Tahap Implementasi Algoritma	Error! Bookmark not defined.
3.9.	Pengujian	Error! Bookmark not defined.
BAB IV HASIL DAN PEMAHASAN		Error! Bookmark not defined.
4.1.	Tahap Persiapan	Error! Bookmark not defined.
4.2.	Hasil Perancangan	Error! Bookmark not defined.
4.2.1.	Blok Masukan	Error! Bookmark not defined.
4.2.2.	Blok Proses	Error! Bookmark not defined.
4.2.3.	Blok Keluaran	Error! Bookmark not defined.
4.2.4.	Blok Pengendali Aktuator	Error! Bookmark not defined.
4.2.5.	Perancangan Database	Error! Bookmark not defined.
4.3.	Tahap Pembuatan Sistem	Error! Bookmark not defined.
4.3.1.	Tampilan Layar LCD	Error! Bookmark not defined.
4.3.2.	Basis Data Kumbung Jamur	Error! Bookmark not defined.
4.3.3.	Tampilan Halaman Utama	Error! Bookmark not defined.
4.3.4.	Data Tabel	Error! Bookmark not defined.
4.3.5.	Grafik Sensor	Error! Bookmark not defined.
4.4.	Tahapan implementasi Algoritma fuzzy logic	Error! Bookmark not defined.
4.4.1.	Perhitungan fuzzy logic	Error! Bookmark not defined.
4.5.	Pengujian	Error! Bookmark not defined.
4.5.1.	Pengujian Nilai Sensor	Error! Bookmark not defined.
4.5.2.	Pengujian Metode Fuzzy Logic	Error! Bookmark not defined.
4.5.3.	Pengujian Alat	Error! Bookmark not defined.
4.5.4.	Hasil Evaluasi	Error! Bookmark not defined.
BAB V KESIMPULAN & SARAN		Error! Bookmark not defined.
5.1.	Kesimpulan	Error! Bookmark not defined.
5.2.	Saran	Error! Bookmark not defined.

DAFTAR PUSTAKAError! Bookmark not defined.

LAMPIRANError! Bookmark not defined.

DAFTAR TABEL

Tabel 2. 1 Spesifikasi pin LCD 16×2**Error! Bookmark not defined.**

Tabel 3. 1 Tabel Perincian Penelitian**Error! Bookmark not defined.**

Tabel 4. 1 Perbandingan Sensor Suhu dan Kelembapan dengan Alat Ukur.. **Error! Bookmark not defined.**

Tabel 4. 2 Perbandingan Sensor Cahaya dengan Alat Ukur **Error! Bookmark not defined.**

Tabel 4. 3 Pengujian Suhu menggunakan metode Fuzzy Logic .**Error! Bookmark not defined.**

Tabel 4. 4 Pengujian Kelembapan menggunakan metode fuzzy logic **Error! Bookmark not defined.**

Tabel 4. 5 Pengujian Cahaya menggunakan Metode Fuzzy Logic..... **Error! Bookmark not defined.**

Tabel 4. 6 Pengujian Kinerja Sistem Kumbung Jamur **Error! Bookmark not defined.**

DAFTAR GAMBAR

Gambar 2. 1 Jamur Merang.....**Error! Bookmark not defined.**

Gambar 2. 2 Kumbung Jamur Merang.....**Error! Bookmark not defined.**

Gambar 2. 3 Jerami atau Merang.....**Error! Bookmark not defined.**

Gambar 2. 4 Proses Pembangkit Uap.....**Error! Bookmark not defined.**

Gambar 2. 5 Proses Inkubasi Jamur Merang**Error! Bookmark not defined.**

Gambar 2. 6 Nodemcu ESP8266**Error! Bookmark not defined.**

Gambar 2. 7 DHT22.....**Error! Bookmark not defined.**

Gambar 2. 8 LDR.....**Error! Bookmark not defined.**

Gambar 2. 9 Driver Motor L298N.....**Error! Bookmark not defined.**

Gambar 2. 10 Lampu Led 12 V**Error! Bookmark not defined.**

Gambar 2. 11 LCD.....**Error! Bookmark not defined.**

Gambar 2. 12 mesin kabut**Error! Bookmark not defined.**

Gambar 2. 13 Kipas DC.....**Error! Bookmark not defined.**

Gambar 2. 14 Fungsi Derajat Linear Turun**Error! Bookmark not defined.**

Gambar 2. 15 Fungsi Derajat Linear Naik.....**Error! Bookmark not defined.**

Gambar 3. 1 Diagram alir Penelitian.....**Error! Bookmark not defined.**

Gambar 3. 2 Skema Perancangan perangkat keras **Error! Bookmark not defined.**

Gambar 3. 3 Perancangan Sistem Kumbung Jamur..... **Error! Bookmark not defined.**

Gambar 4. 1 Skema Rangkaian Sistem Kumbung Jamur ..**Error! Bookmark not defined.**

Gambar 4. 2 Skema Blok Masukan**Error! Bookmark not defined.**

Gambar 4. 3 Skema Blok Keluaran**Error! Bookmark not defined.**

Gambar 4. 4 Skema Pengendali Aktuator.....**Error! Bookmark not defined.**

Gambar 4. 5 Database.....**Error! Bookmark not defined.**

Gambar 4. 6 Tampilan Layar LCD**Error! Bookmark not defined.**

Gambar 4. 7 Basis Data Kumbung Jamur.....**Error! Bookmark not defined.**

Gambar 4. 8 Tampilan Halaman Utama**Error! Bookmark not defined.**

Gambar 4. 9 Tampilan Data Tabel.....**Error! Bookmark not defined.**

Gambar 4. 10 Tampilan Grafik.....**Error! Bookmark not defined.**

Gambar 4. 11 Grafik Keangotaan Suhu	Error! Bookmark not defined.
Gambar 4. 12 Grafik Keangotaan Kelembapan	Error! Bookmark not defined.
Gambar 4. 13 Grafik Fungsi Keangotaan Cahaya	Error! Bookmark not defined.
Gambar 4. 20 Grafik Perbandingan Nilai Suhu	Error! Bookmark not defined.
Gambar 4. 21 Grafik Perbandingan Nilai Kelembapan	Error! Bookmark not defined.
Gambar 4. 22 Grafik Perbandingan Nilai Cahaya	Error! Bookmark not defined.



DAFTAR LAMPIRAN

Lampiran 1 Dokumentasi Hasil Penelitian	Error! Bookmark not defined.
Lampiran 2 Kinerja Kumbung Jamur	Error! Bookmark not defined.
Lampiran 3 Gambar Kumbung Jamur	Error! Bookmark not defined.
Lampiran 4 Source code Arduino IDE	Error! Bookmark not defined.
Lampiran 5 Source Code Website	Error! Bookmark not defined.
Lampiran 6 Implementasi Fuzzy Logic	Error! Bookmark not defined.
Lampiran 7 Perbandingan Sensor Suhu dengan Alat Ukur.....	Error! Bookmark not defined.
Lampiran 8 Perbandingan Sensor Kelembapan dengan Alat Ukur..	Error! Bookmark not defined.
Lampiran 9 Perbandingan Sensor Cahaya dengan Alat Ukur.....	Error! Bookmark not defined.
Lampiran 10 Pengujian Suhu menggunakan metode Fuzzy Logic..	Error! Bookmark not defined.
Lampiran 11 Pengujian Kelembapan menggunakan metode Fuzzy Logic.....	Error! Bookmark not defined.
Lampiran 12 Pengujian Cahaya menggunakan metode Fuzzy Logic.....	Error! Bookmark not defined.
Lampiran 13 Pengujian Kinerja Sistem Kumbung Jamur..	Error! Bookmark not defined.
Lampiran 14 Surat izin atau keterangan penelitian.....	Error! Bookmark not defined.
Lampiran 15 Lembar Kartu Bimbingan Tugas Akhir.....	Error! Bookmark not defined.
Lampiran 16 Lembar Perbaikan Ketua Sidang.....	Error! Bookmark not defined.
Lampiran 17 Lembar Perbaikan Penguji 1	Error! Bookmark not defined.
Lampiran 18 Lembar Perbaikan Penguji 2	Error! Bookmark not defined.

