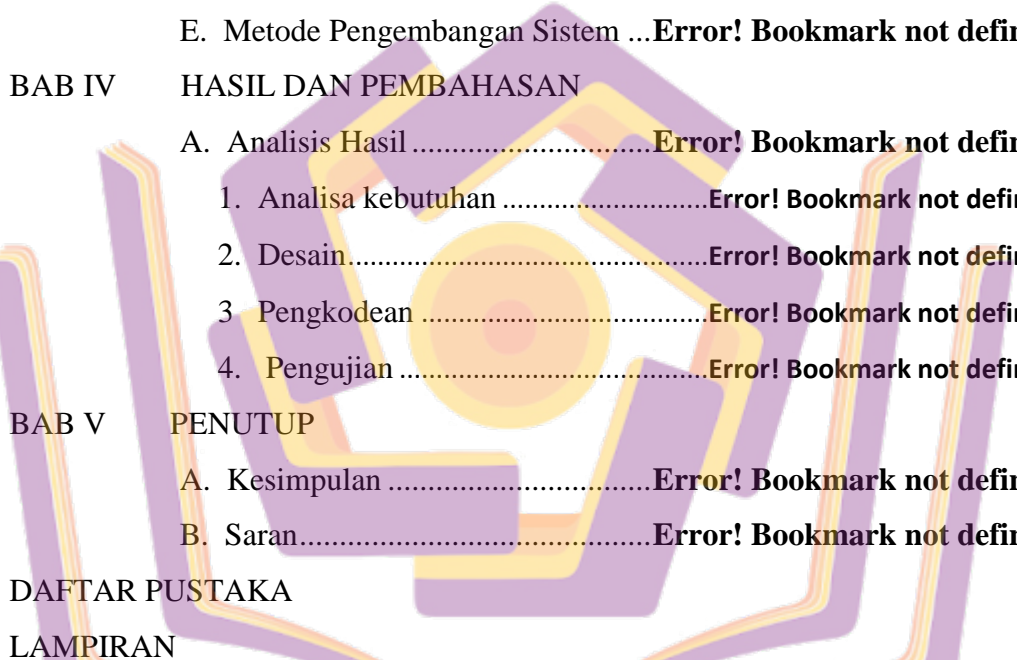


## DAFTAR ISI

HALAMAN SAMPUL .....	<b>Error! Bookmark not defined.</b>
HALAMAN JUDUL.....	<b>Error! Bookmark not defined.</b>
HALAMAN PERSETUJUAN .....	<b>Error! Bookmark not defined.</b>
HALAMAN PENGESAHAN.....	<b>Error! Bookmark not defined.</b>
HALAMAN SURAT PERNYATAAN KEASLIAN PENELITIAN .....	<b>Error! Bookmark not defined.</b>
HALAMAN MOTTO .....	<b>Error! Bookmark not defined.</b>
HALAMAN PERSEMBAHAN .....	<b>Error! Bookmark not defined.</b>
KATA PENGANTAR .....	i
DAFTAR ISI.....	i
DAFTAR TABEL.....	iii
DAFTAR GAMBAR .....	iv
DAFTAR LAMPIRAN.....	v
RINGKASAN .....	v
<i>ABSTRACT</i> .....	<b>Error! Bookmark not defined.</b>
BAB I      PENDAHULUAN	
A.Latar Belakang Masalah .....	<b>Error! Bookmark not defined.</b>
B. Rumusan Masalah .....	<b>Error! Bookmark not defined.</b>
C. Batasan Masalah.....	<b>Error! Bookmark not defined.</b>
D. Tujuan Penelitian .....	<b>Error! Bookmark not defined.</b>
E. Manfaat Penelitian.....	<b>Error! Bookmark not defined.</b>
BAB II      TINJAUAN PUSTAKA	
A.Landasan Teori.....	<b>Error! Bookmark not defined.</b>
B. Bahasa Pemrograman Arduino ....	<b>Error! Bookmark not defined.</b>
C. Perangkat Lunak (Software) .....	<b>Error! Bookmark not defined.</b>
D. Penelitian Sebelumnya.....	<b>Error! Bookmark not defined.</b>
BAB III      METODE PENELITIAN	
A.Tempat dan Waktu Pelaksanaan ...	<b>Error! Bookmark not defined.</b>



	B. Metode Pengembangan Sistem ....	<b>Error! Bookmark not defined.</b>
	C. Alat dan Bahan Penelitian .....	<b>Error! Bookmark not defined.</b>
	D. Konsep Penelitian .....	<b>Error! Bookmark not defined.</b>
	a. Identifikasi Masalah.....	<b>Error! Bookmark not defined.</b>
	b. Pengumpulan Data.....	<b>Error! Bookmark not defined.</b>
	c. Analisis Kebutuhan Sistem.....	<b>Error! Bookmark not defined.</b>
	d. Pengembangan Sistem .....	<b>Error! Bookmark not defined.</b>
	e. Pembuatan Laporan .....	<b>Error! Bookmark not defined.</b>
	E. Metode Pengembangan Sistem ...	<b>Error! Bookmark not defined.</b>
<b>BAB IV</b>	<b>HASIL DAN PEMBAHASAN</b>	
	A. Analisis Hasil .....	<b>Error! Bookmark not defined.</b>
	1. Analisa kebutuhan .....	<b>Error! Bookmark not defined.</b>
	2. Desain.....	<b>Error! Bookmark not defined.</b>
	3. Pengkodean .....	<b>Error! Bookmark not defined.</b>
	4. Pengujian .....	<b>Error! Bookmark not defined.</b>
<b>BAB V</b>	<b>PENUTUP</b>	
	A. Kesimpulan .....	<b>Error! Bookmark not defined.</b>
	B. Saran.....	<b>Error! Bookmark not defined.</b>
<b>DAFTAR PUSTAKA</b>		
<b>LAMPIRAN</b>		

## DAFTAR TABEL

Tabel 2. 1 Daftar jenis kabel Dupont (Kadir, 2017) ..... **Error! Bookmark not defined.**

Tabel 2. 2 Fungsui-fungsi dasar dalam Bahasa pemrograman Arduino ..... **Error! Bookmark not defined.**

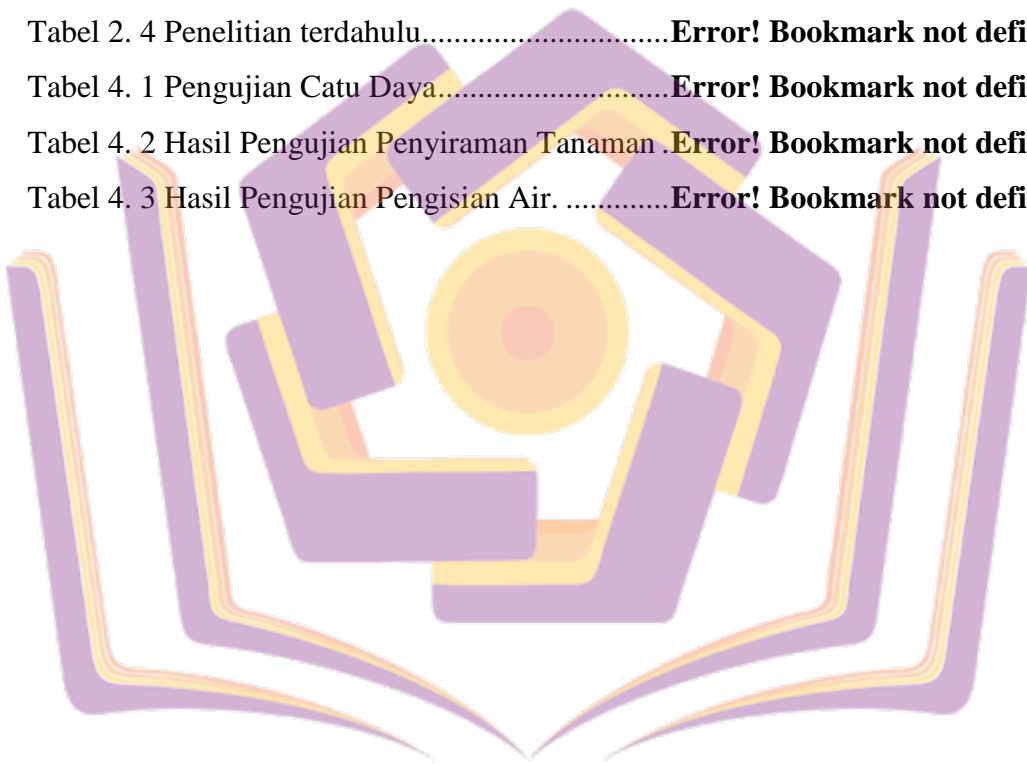
Tabel 2. 3 Range Nilia Kelembapan Tanah (Husdi, 2018).. **Error! Bookmark not defined.**

Tabel 2. 4 Penelitian terdahulu.....**Error! Bookmark not defined.**

Tabel 4. 1 Pengujian Catu Daya.....**Error! Bookmark not defined.**

Tabel 4. 2 Hasil Pengujian Penyiraman Tanaman **Error! Bookmark not defined.**

Tabel 4. 3 Hasil Pengujian Pengisian Air. ....**Error! Bookmark not defined.**



## DAFTAR GAMBAR

- Gambar 2. 1 Bagian-Bagian Board Arduino Uno..**Error! Bookmark not defined.**
- Gambar 2. 2 Hardware Soil Moisture Sensor FC-28 ..... **Error! Bookmark not defined.**
- Gambar 2. 3 sensor ultrasonic.....**Error! Bookmark not defined.**
- Gambar 2. 4 Relay.....**Error! Bookmark not defined.**
- Gambar 2. 5 Hardware LCD 16x2 .....**Error! Bookmark not defined.**
- Gambar 2. 6 Jendela Utama IDE Arduino .....**Error! Bookmark not defined.**
- Gambar 2. 7 Antarmuka Fritzing .....**Error! Bookmark not defined.**
- Gambar 3. 1 Diagram Alur Penelitian.....**Error! Bookmark not defined.**
- Gambar 3. 2 Ilustrasi Model Waterfall .....**Error! Bookmark not defined.**
- Gambar 4. 1 Diagram Blok Rangkaian sistem.....**Error! Bookmark not defined.**
- Gambar 4. 2 Schematic Rangkaian Keseluruhan..**Error! Bookmark not defined.**
- Gambar 4. 3 flowchart sistem monitoring kelembaban tanah.....**Error! Bookmark not defined.**
- Gambar 4. 4 coding program dari sensor kelembaban tanah soil moisture ... **Error! Bookmark not defined.**
- Gambar 4. 5 coding program sensor ultrasonic. ....**Error! Bookmark not defined.**
- Gambar 4. 6 coding program keluar lcd .....**Error! Bookmark not defined.**

## DAFTAR LAMPIRAN

- Lampiran 1. Kode\_Program
- Lampiran 2. Kondisi\_Tanah
- Lampiran 3. Wawancara
- Lampiran 4. Kartu\_bimbingan
- Lampiran 5. prototype alat penyiraman tanaman otomatis



