

## DAFTAR ISI

HALAMAN JUDUL.....	<b>Error! Bookmark not defined.</b>
HALAMAN PERNYATAAN ORISINALITAS...	<b>Error! Bookmark not defined.</b>
LEMBAR PENGESAHAN .....	<b>Error! Bookmark not defined.</b>
KATA PENGANTAR .....	<b>Error! Bookmark not defined.</b>
HALAMAN PERNYATAAN PERSETUJUAN MENYERAHKAN HAK MILIK ATAS TUGAS AKHIR UNTUK KEPENTINGAN AKADEMI	<b>Error! Bookmark not defined.</b>
ABSTRAK .....	<b>Error! Bookmark not defined.</b>
DAFTAR ISI .....	<b>1</b>
Daftar Gambar.....	<b>Error! Bookmark not defined.</b>
Daftar Tabel .....	<b>Error! Bookmark not defined.</b>
Daftar Sketch .....	<b>Error! Bookmark not defined.</b>
BAB I <u>P</u> ENDAHULUAN .....	<b>I-Error! Bookmark not defined.</b>
1.1 Latar Belakang .....	<b>I-Error! Bookmark not defined.</b>
1.2 Rumusan Masalah.....	<b>I-Error! Bookmark not defined.</b>
1.3 Tujuan Penelitian .....	<b>I-Error! Bookmark not defined.</b>
1.4 Batasan Masalah .....	<b>I-Error! Bookmark not defined.</b>
1.5 Tempat dan Waktu Penelitian.....	<b>I-Error! Bookmark not defined.</b>
1.6 Sistematika Penulisan .....	<b>I-Error! Bookmark not defined.</b>
BAB II <u>L</u> ANDASAN TEORI .....	<b>II-Error! Bookmark not defined.</b>
2.1 Panel Surya .....	<b>II-Error! Bookmark not defined.</b>
2.2 <i>Charger Controller</i> .....	<b>II-Error! Bookmark not defined.</b>
2.3 PWM ( <i>Pulse Width Modulation</i> ) .....	<b>II-Error! Bookmark not defined.</b>
2.4 Arduino .....	<b>II-Error! Bookmark not defined.</b>
2.4.1 Arduino Uno .....	<b>II-Error! Bookmark not defined.</b>
2.5 NodeMCU.....	<b>II-Error! Bookmark not defined.</b>
2.6 Aplikasi Blynk .....	<b>II-Error! Bookmark not defined.</b>
2.7 Sensor Arus ACS712 .....	<b>II-Error! Bookmark not defined.</b>
2.8 Sensor Tegangan.....	<b>II-Error! Bookmark not defined.</b>
2.9 Baterai .....	<b>II-Error! Bookmark not defined.</b>

2.10	<i>Buck Converter</i> .....	II-Error! Bookmark not defined.
2.11	<i>Liquid Crystal Display (LCD)</i> .....	II-Error! Bookmark not defined.
2.12	Sensor Suhu LM35 .....	II-Error! Bookmark not defined.
2.13	Penelitian Terkait .....	II-Error! Bookmark not defined.
BAB III METODE PENELITIAN.....		III-Error! Bookmark not defined.
3.1	<i>Flowchart</i> Penelitian.....	III-Error! Bookmark not defined.
3.1.1	Studi Literatur .....	III-Error! Bookmark not defined.
3.1.2	Perancangan Sistem .....	III-Error! Bookmark not defined.
3.1.3	Pengumpulan Kebutuhan Sistem .....	III-Error! Bookmark not defined.
3.1.4	Pengujian Unit .....	III-Error! Bookmark not defined.
3.1.5	Perakitan Sistem.....	III-Error! Bookmark not defined.
3.1.6	Pengujian Sistem.....	III-Error! Bookmark not defined.
3.1.7	Analisis Hasil Pembuatan Sistem .....	III-Error! Bookmark not defined.
3.1.8	Kesimpulan .....	III-Error! Bookmark not defined.
BAB IV PEMBAHASAN.....		IV-Error! Bookmark not defined.
4.1	Perancangan Sistem .....	IV-Error! Bookmark not defined.
4.2	<i>Wiring</i> Komponen Sistem.....	IV-Error! Bookmark not defined.
4.2.1	<i>Wiring</i> Sensor Tegangan Panel Surya .....	IV-Error! Bookmark not defined.
4.2.2	<i>Wiring</i> Sensor Tegangan Baterai .....	IV-Error! Bookmark not defined.
4.2.3	<i>Wiring</i> Sensor Arus Beban.....	IV-Error! Bookmark not defined.
4.2.4	<i>Wiring</i> Sensor Suhu .....	IV-Error! Bookmark not defined.
4.2.5	<i>Wiring Power Supply</i> .....	IV-Error! Bookmark not defined.
4.2.6	<i>Wiring</i> Koneksi NodeMCU .....	IV-Error! Bookmark not defined.
4.2.7	<i>Wiring</i> LCD 20x4 .....	IV-Error! Bookmark not defined.
4.2.8	Skema <i>Wiring</i> Sistem.....	IV-Error! Bookmark not defined.
4.3	Pembuatan Program .....	IV-Error! Bookmark not defined.
4.4	Pengujian Per Unit .....	IV-Error! Bookmark not defined.
4.4.1	Pengujian Arduino Uno .....	IV-Error! Bookmark not defined.
4.4.2	Pengujian NodeMCU.....	IV-Error! Bookmark not defined.
4.4.3	Pengujian Koneksi dari NodeMCU ke Blynk.....	IV-Error! Bookmark not defined.
4.4.4	Pengujian Serial Komunikasi Arduino dan NodeMCU.....	IV-Error! Bookmark not defined.

4.4.5	Pengujian LCD.....	IV-Error! Bookmark not defined.
4.4.6	Pengujian <i>Power Supply</i> .....	IV-Error! Bookmark not defined.
4.4.7	Pengujian Panel Surya .....	IV-Error! Bookmark not defined.
4.4.8	Pengujian Sensor Suhu LM35 .....	IV-Error! Bookmark not defined.
4.4.9	Pengujian Sensor Tegangan Baterai ..	IV-Error! Bookmark not defined.
4.4.10	Pengujian Sensor Tegangan Panel Surya.....	IV-Error! Bookmark not defined.
4.4.11	Pengujian Sensor Arus ACS712 .....	IV-Error! Bookmark not defined.
4.5	Hasil Pengujian Per Unit.....	IV-Error! Bookmark not defined.
4.6	Pengujian Sistem.....	IV-Error! Bookmark not defined.
BAB V <u>KESIMPULAN DAN SARAN</u> .....		V-Error! Bookmark not defined.
5.1	Kesimpulan .....	V-Error! Bookmark not defined.
5.2	Saran .....	V-Error! Bookmark not defined.
DAFTAR PUSTAKA .....		Error! Bookmark not defined.

