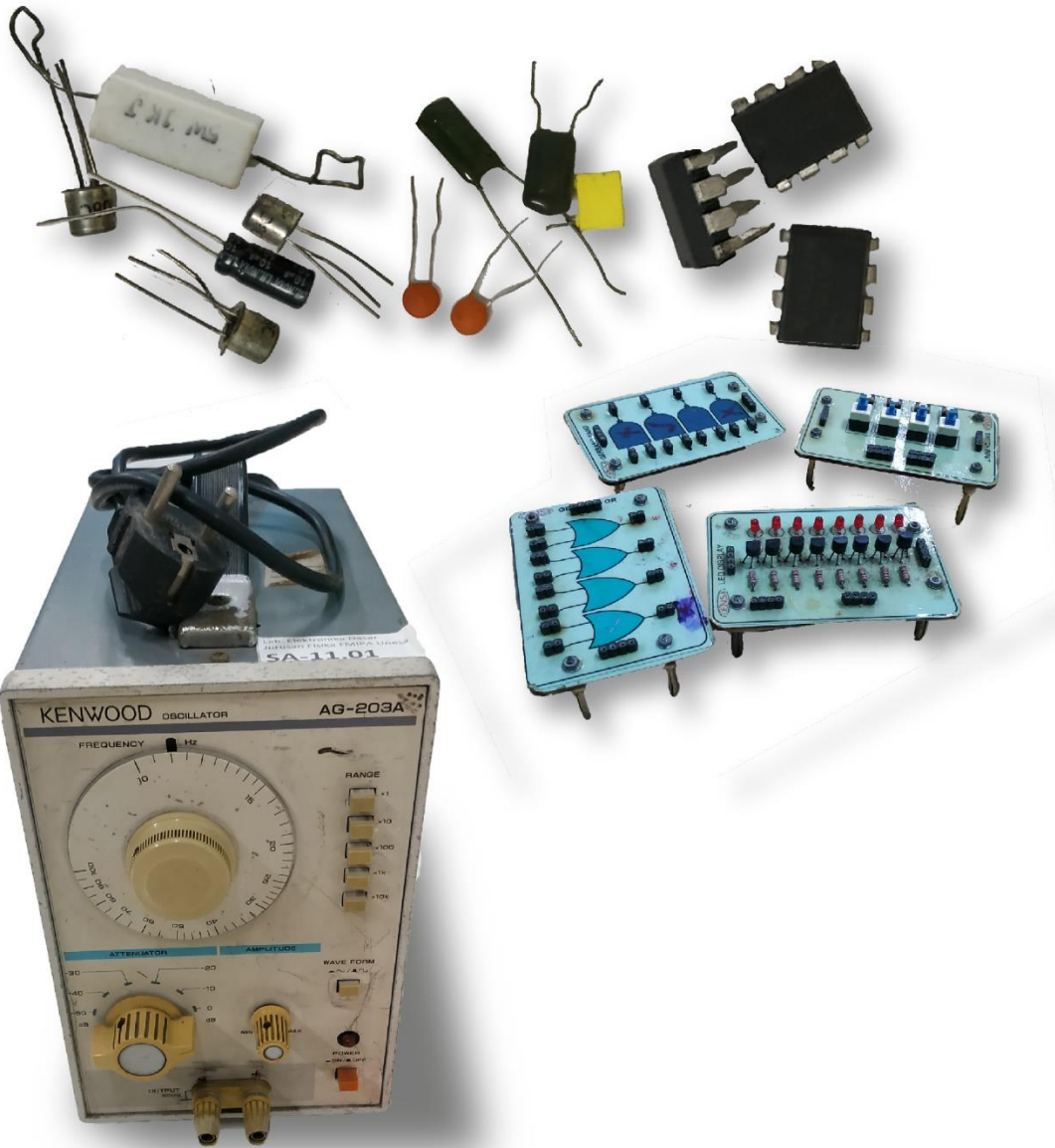


KATALOG

LABORATORIUM

ELEKTRONIKA DASAR

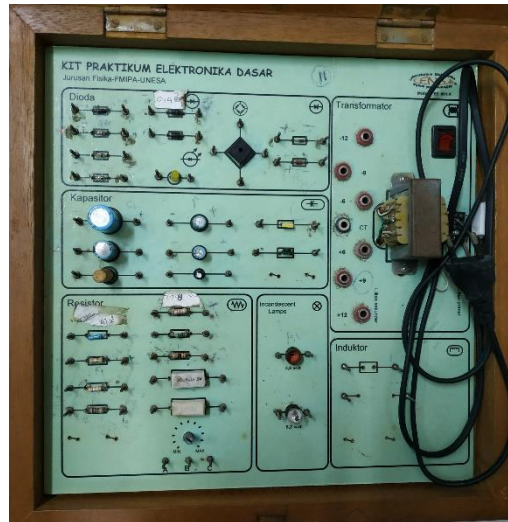
Meta Yantidewi, S.Si., M.Si.



JURUSAN FISIKA FMIPA
UNIVERSITAS NEGERI SURABAYA

KATALOG PERALATAN LABORATORIUM ELEKTRONIKA DASAR

1. Papan Rangkaian Elektronika Dasar Pertama



Gambar 1.1 Kit percobaan Elektronika Dasar tahap pertama (Kit 1)

Topik Percobaan

A. Multimeter sebagai Ohmmeter (A-1)

Alat dan bahan

- Kit 1
- Multimeter Analog
- Multimeter Digital
- Konektor
- Resistor

B. Multimeter sebagai Voltmeter (A-2)

Alat dan bahant

- Kit 1
- Multimeter Analog
- Multimeter Digital
- Konektor
- Resistor
- Catu Daya

C. Multimeter sebagai Amperemeter (A-3)

Alat dan bahan

- Kit 1
- Multimeter Analog
- Multimeter Digital

- Konektor
- Resistor
- Catu Daya
- D. Osiloskop dan AFG (A-4)
 - Alat dan bahan**
 - Osiloskop
 - Audio Frekuensi Generator (AFG)
 - Multimeter Digital
 - Multimeter Analog
 - Konektor
 - Power Supply AC/DC
- E. Transformator (Tr-1)
 - Alat dan bahan**
 - Kit 1
 - Transformator
 - Ampermeter
 - Osiloskop
 - Voltmeter
 - Lampu
- F. Rangkaian Integrator dan Diferensiator (K-1)
 - Alat dan bahan**
 - Kit 1
 - AFG
 - Osiloskop
 - Resistor
 - Kapasitor
 - Multimeter
- G. Karakteristik Dioda (D-1)
 - Alat dan bahan**
 - Kit 1
 - Power Supply DC
 - Ampere meter
 - Osiloskop
 - Resistor
 - Dioda
 - Voltmeter
- H. Pemrosesan bentuk gelombang dengan Dioda (D-2)
 - Alat dan bahan**
 - Kit 1
 - Power Supply
 - Ampere meter
 - Osiloskop
 - Resistor

- Dioda
 - Voltmeter
 - Baterai
- I. Penyearah dan catu daya (D-3)

Alat dan bahan

- Kit 1
- Transformator daya 500 mA
- Dioda
- Multimeter
- Osiloskop
- Resistor
- Kondensator
- Konektor

Gambar Alat dan bahan



Gambar 1.2 Multimeter Analog



Gambar 1.3 Multimeter Digital



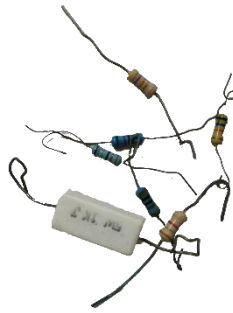
Gambar 1.4 Osiloskop



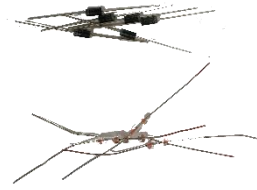
Gambar 1.5 Power Supply



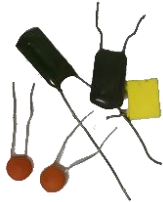
Gambar 1.6 AFG



Gambar 1.7 Resistor



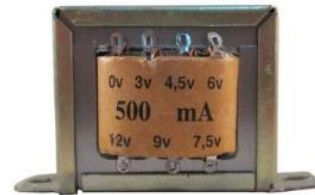
Gambar 1.8 Dioda



Gambar 1.9 Kapasitor

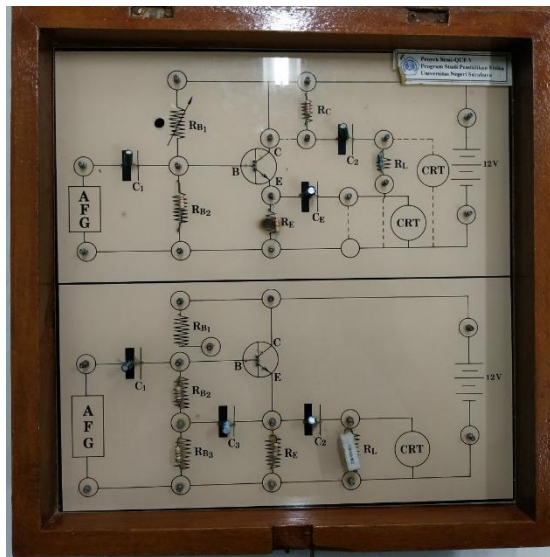


Gambar 1.10 Konektor



Gambar 1.11 Transformator

2. Papan Rangkaian Elektronika Dasar - Transistor



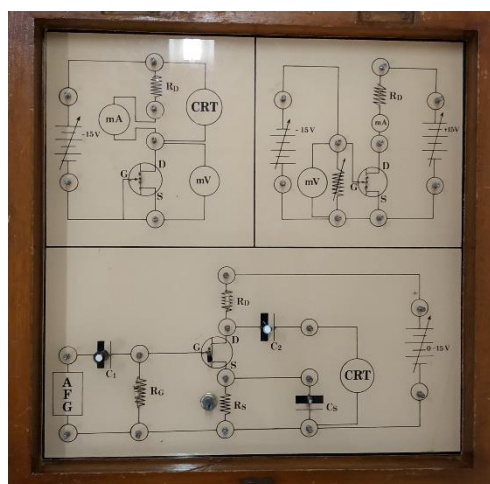
Gambar 2.1 Kit penguat Emitor ditanahkan (Kit 2)

Topik Percobaan

A. Penguat Emitor Ditanahkan (T-1)

Alat dan bahan

- Kit 2
- Power Supply
- Multimeter analog/digital
- Osiloskop
- Resistor
- Transistor BC108



Gambar 2.2 Kit percobaan JFET (Kit 3)

Topik Percobaan

A. Karakteristik JFET (J-1)

Alat dan bahan

- Kit 3
- Power Supply
- Multimeter analog/digital
- Resistor
- JFET MPF102

B. Penguat JFET (J-2)

Alat dan bahan

- Kit 3
- Power Supply
- Multimeter analog/digital
- Osiloskop
- Resistor
- JFET MPF102

Gambar Alat dan bahan



Gambar 2.3 Multimeter Analog



Gambar 2.4 Multimeter Digital



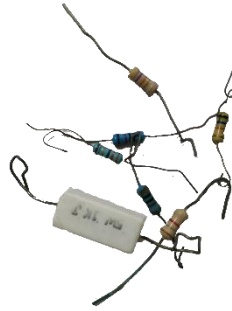
Gambar 2.5 Osiloskop



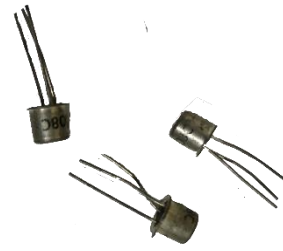
Gambar 2.6 Power Supply



Gambar 2.7 AFG



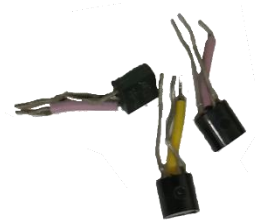
Gambar 2.8 Resistor



Gambar 2.9 Transistor BC108

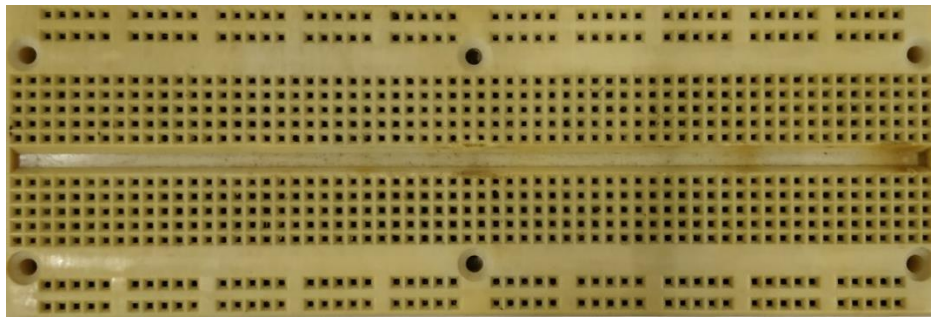


Gambar 2.10 Multimeter Digital & HFE



Gambar 2.11 JFET MPF102

3. Papan Rangkaian Elektronika Dasar - OP AMP



Gambar 3.1 Bread Board (Kit 4)

Topik Percobaan

A. Penguat Operasional (O-1)

Alat dan bahan

- Kit 4
- OP-AMP LM 741
- Resistor
- Power Suply simetri
- AFG
- Multitester digital
- Osiloskop

B. Osilator (O-2)

Alat dan bahan

- Kit 4
- OP-AMP LM 741
- Resistor
- Power Supply
- AFG
- Multitester digital
- Osiloskop

Gambar Alat dan bahan



Gambar 3.2 Osiloskop



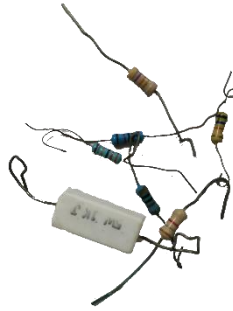
Gambar 3.3 Multimeter Digital



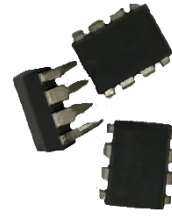
Gambar 3.4 Power Supply



Gambar 3.5 AFG



Gambar 3.6 Resistor



Gambar 3.7 LM 741

4. Papan Rangkaian Elektronika Digital



Gambar 4.1 Kit percobaan Elektronika Digital (Kit 5)

Topik Percobaan

A. Elektronika Digital (E-1)

Alat dan bahan

- Kit 5
- Battery / catu daya 5 Volt DC
- Multitester digital (DMM)
- Kabel penghubung

Gambar Alat dan bahan



Gambar 4.2 Multimeter Digital



Gambar 4.3 Konektor



Gambar 4.4 Baterai

