1.6 Hasil Percobaan

a. Tabel Pengamatan Modul 1 (Pengenalan Multimeter)

Nama :

Kelompok :

**Tabel Pengukuran Hambatan Menggunakan Multimeter Analog**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Komponen | Resistor 1 | Resistor 2 | Resistor 3 | Resistor 4 | Resistor 5 |
| Warna Gelang 1 |  |  |  |  |  |
| Nilai Gelang 1 |  |  |  |  |  |
| Warna Gelang 2 |  |  |  |  |  |
| Nilai Gelang 2 |  |  |  |  |  |
| Warna Gelang 3 |  |  |  |  |  |
| Nilai Gelang 3 |  |  |  |  |  |
| Warna Gelang 4 |  |  |  |  |  |
| Nilai Gelang 4 |  |  |  |  |  |
| Nilai Resistor |  |  |  |  |  |
| Nilai Gelang 5 |  |  |  |  |  |
| Nilai Resistor |  |  |  |  |  |
| Hasil Pengukuran Analog |  |  |  |  |  |
| Presentase Kesalahan |  |  |  |  |  |
| Rata-rata Kesalahan |  |

Capture grafik EF (fresistansi) hasil pengukuran multimeter analog

|  |
| --- |
|  |

**Tabel Pengukuran Hambatan Menggunakan Multimeter Digital**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Komponen | Resistor 1 | Resistor 2 | Resistor 3 | Resistor 4 | Resistor 5 |
| Warna Gelang 1 |  |  |  |  |  |
| Nilai Gelang 1 |  |  |  |  |  |
| Warna Gelang 2 |  |  |  |  |  |
| Nilai Gelang 2 |  |  |  |  |  |
| Warna Gelang 3 |  |  |  |  |  |
| Nilai Gelang 3 |  |  |  |  |  |
| Warna Gelang 4 |  |  |  |  |  |
| Nilai Gelang 4 |  |  |  |  |  |
| Nilai Resistor |  |  |  |  |  |
| Nilai Gelang 5 |  |  |  |  |  |
| Nilai Resistor |  |  |  |  |  |
| Hasil Pengukuran Analog |  |  |  |  |  |
| Presentase Kesalahan |  |  |  |  |  |
| Rata-rata Kesalahan |  |

Capture grafik EF (fresistansi) hasil pengukuran multimeter digital

|  |
| --- |
|  |

Cocokkan hasil perhitungan hambatan menggunakan Aplikasi Resistor CC (*Capture* hasil perhitungan)

|  |  |
| --- | --- |
|  |  |
| Resistor 1 | Resistor 2 |
|  |  |
| Resistor 3 | Resistor 4 |
|  |
| Resistor 5 |

2.6 Hasil Percobaan

a. Tabel Pengamatan Modul 2 (Pengukuran Tegangan AC Pada Transformator)

Nama :

Kelompok :

**Tabel Pengukuran Tegangan Menggunakan Multimeter Analog**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Terminal | Batas Ukur 10 V | Batas Ukur 50 V | Persentase Selisih |
| 1 | 0-3 Volt |  |  |  |
| 2 | 0-4,5 Volt |  |  |  |
| 3 | 0-6 Volt |  |  |  |
| 4 | 0-7,5 Volt |  |  |  |
| No | Terminal | Batas Ukur 50 V | Batas Ukur 250 V | Persentase Selisih |
| 1 | 0-9 Volt |  |  |  |
| 2 | 0-12 Volt |  |  |  |

**Tabel Pengukuran Tegangan Menggunakan Multimeter Digital**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Terminal | Batas Ukur 200 V | Batas Ukur 750 V | Persentase Selisih |
| 1 | 0-3 Volt |  |  |  |
| 2 | 0-4,5 Volt |  |  |  |
| 3 | 0-6 Volt |  |  |  |
| 4 | 0-7,5 Volt |  |  |  |
| 5 | 0-9 Volt |  |  |  |
| 6 | 0-12 Volt |  |  |  |

Rumus yang digunakan :

$$A=\frac{|Hasil Pengukuran 200 V-Batas Terminal|}{Batas Terminal}x100\%$$

$$B=\frac{|Hasil Pengukuran 750 V-Batas Terminal|}{Batas Terminal}x100\%$$

$$Presentase Selisih= \frac{A+B}{2}$$

3.6 Hasil Percobaan

a. Tabel Pengamatan Modul 3 (Pengukuran Tegangan DC)

Nama :

Kelompok :

**Tabel Pengukuran Tegangan DC**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Terminal | Batas Ukur AVO Analog | Hasil Pengukuran AVO Analog | Batas Ukur AVO Digital | Hasil Pengukuran AVO Digital |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |
| 5 |  |  |  |  |  |

4.6 Hasil Percobaan

a. Tabel Pengamatan Modul 4 (Pengukuran Arus DC)

Nama :

Kelompok :

**Tabel Pengukuran Arus DC Menggunakan Multimeter Analog**

|  |  |  |
| --- | --- | --- |
| Tegangan Sumber | Batas Ukur | Hasil Pengukuran AVO Analog |
| A1 | A2 | A3 |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

**Tabel Pengukuran Arus DC Menggunakan Multimeter Analog**

|  |  |  |
| --- | --- | --- |
| Tegangan Sumber | Batas Ukur | Hasil Pengukuran AVO Digital |
| A1 | A2 | A3 |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

5.6 Hasil Percobaan

a. Tabel Pengamatan Modul 5 (Simulasi PSIM)

Nama :

Kelompok :

**Tabel Hasil Perhitungan PSIM**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Percobaan | Nilai Kapasitor (F) | Nilai Resistor (Ohm) | Nilai Tegangan (V) | Nilai Arus (A) |
| 1 | 10.10-6 F | 10 |  |  |
| 2 | 10.10-3 F | 50 |  |  |
| 3 | 10 F | 100 |  |  |

Rangkaian dan hasil pengukuran pada PSIM di*capture* :

|  |
| --- |
|  |
| Rangkaian Percobaan Ke-1 |
|  |
| Grafik Tegangan dan Arus Percobaan Ke-1 |

|  |
| --- |
|  |
| Rangkaian Percobaan Ke-2 |
|  |
| Grafik Tegangan dan Arus Percobaan Ke-1 |

|  |
| --- |
|  |
| Rangkaian Percobaan Ke-3 |
|  |
| Grafik Tegangan dan Arus Percobaan Ke-1 |