DAFTAR GAMBAR

Gambar 2. 1 Pesawat Sinar X[13]..... 13
Gambar 2. 2 Tabung Pesawat Sinar X[10] 15
Gambar 2. 3 Proses Terjadinya Fluoresensi[17]..... 18
Gambar 2. 4 Sensor Phototransistor..... 20
Gambar 2. 5 Sensor Phototransistor BPT1331 21
Gambar 2. 6 Sensor Photodiode BPW34..... 22
Gambar 2. 7 Sensor LDR..... 23
Gambar 2. 8 Arduino UNO..... 25
Gambar 2. 9 Kamera Webcam Logitech..... 25
Gambar 2. 10 Matlab 28
Gambar 2. 11 Infrared..... 29
Gambar 2. 12 Driver Optocupler PC817 30
Gambar 2. 13 Optocupler..... 31
Gambar 3. 1 Diagram Blok Sistem..... 33
Gambar 3. 2 Diagram Alir Pesawat Radiologi 35
Gambar 3. 3 Diagram Alir Detektor 36
Gambar 3. 4 Diagram Alir PC (Matlab) 37
Gambar 3. 5 Diagram Mekanis Sistem..... 38
Gambar 4. 1 Hasil Tampilan Alat..... 47
Gambar 4. 2 Phototransistor BPT1331 60kV 49
Gambar 4. 3 Photodioda BPW34 60kV..... 49
Gambar 4. 4 LDR (Light Dependent Resistor) 60kV .. 50

Gambar 4. 5 Phototransistor PH101 60kV 51
Gambar 4. 6 Phototransistor BPT1331 66kV 51
Gambar 4. 7 Photodioda BPW34 66kV 52
Gambar 4. 8 LDR (Light Dependent Resistor) 66kV .. 53
Gambar 4. 9 Phototransistor PH101 66kV 53
Gambar 4. 10 Phototransistor BPT1331 70kV 54
Gambar 4. 11 Photodioda BPW34 70kV 55
Gambar 4. 12 LDR (Light Dependent Resistor) 70kV 55
Gambar 4. 13 Phototransistor PH101 70kV 56
Gambar 4. 14 Digital Radiography 60kV 57
Gambar 4. 15 Digital Radiography 66kV 57
Gambar 4. 16 Digital Radiography 70kV 58
Gambar 4. 17 Data Grafik MSE..... 60
Gambar 4. 18 50kV 20mA Gelap Paha Ayam..... 61
Gambar 4. 19 60kV 20mA Gelap Paha Ayam..... 62
Gambar 4. 20 60kV 32mA Gelap Paha Ayam..... 62
Gambar 4. 21 Data DR 40kV 32mA..... 63
Gambar 4. 22 Grafik Nilai MSE Paha Ayam..... 64
Gambar 5. 1 Rangkaian Sensor LDR..... 65
Gambar 5. 2 Rangkaian Sensor Phototransistor PH101, Phototransistor BPT1331, dan Photodioda BPW34..... 66
Gambar 5. 3 Rangkaian PWM..... 67
Gambar 5. 4 Rangkaian Arduino Uno 68