

## DAFTAR GAMBAR

	Halaman
2.1 Logo Tarung Derajat .....	11
2.2 Tendangan Samping .....	15
3.1 Model alat.....	21
3.2 Model Alat Tampak Atas .....	22
3.3 Model Alat Tampak Belakang .....	22
3.4 Model alat Tampak Depan .....	23
3.5 Model Alat Tampak Samping .....	23
3.6 Langkah-langkah Penelitian .....	28
4.1 Gambar awal .....	32
4.2 Gambar pipa hollow .....	32
4.3 Gambar besi .....	33
4.4 Gambar Matras.....	33
4.5 Gambar Gear .....	34
4.6 Gambar Serat Baja .....	34
4.7 Gambar Arm Pocket.....	34
4.8 Gambar Katrol.....	35
4.9 Gambar Pondasi Alat .....	39
4.10 Tiang pengatur Ketinggian .....	39
4.11 Tuas Otomatis .....	40
4.12 Gear Otomatis .....	40
4.13 katrol .....	40
4.14 Matras .....	41
4.15 Tali Karmantel .....	41
4.16 Desain Akhir .....	41