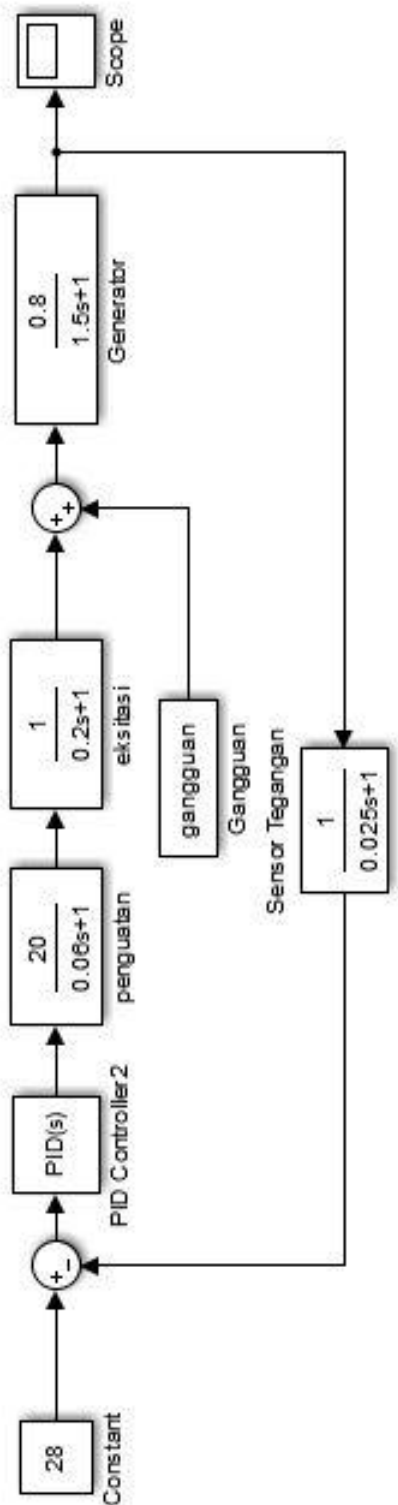


LAMPIRAN

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PROGRAM SIMULINK



LISTING PROGRAM MATLAB

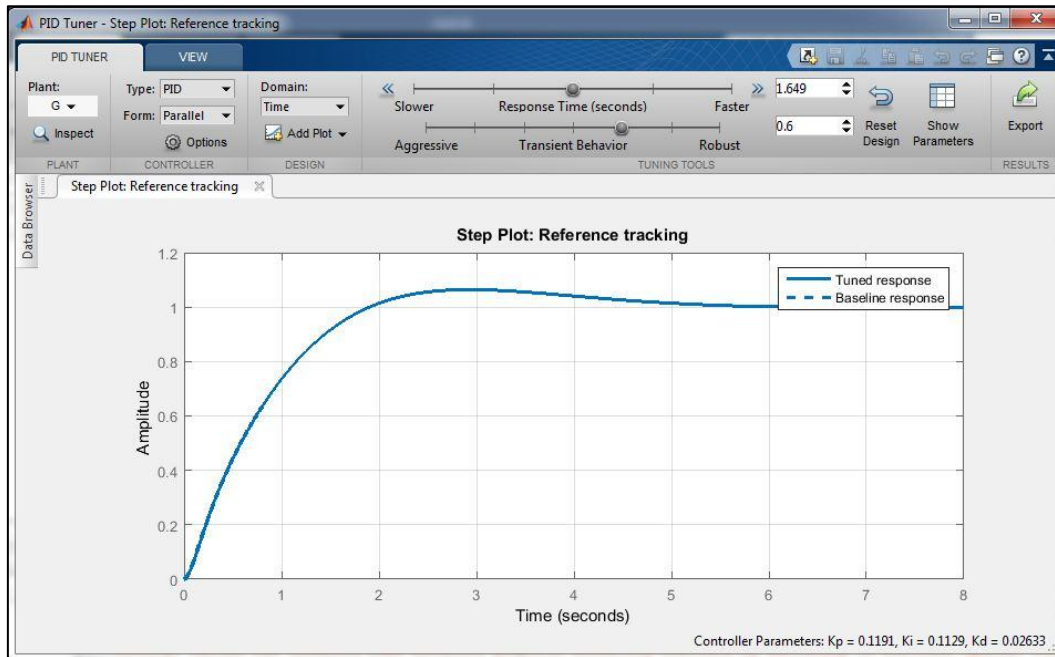
```

1 G = tf(16.0000,[0.0180 0.4020 1.7600 1.0000]); % plant model
2 H = tf(1,[0.025 1]); % feedback model
3 F = tf(G,[1 H*G]); % plant model with feedback model
4 C = pidtune(F,'PID');
5 pidTuner(F,C)

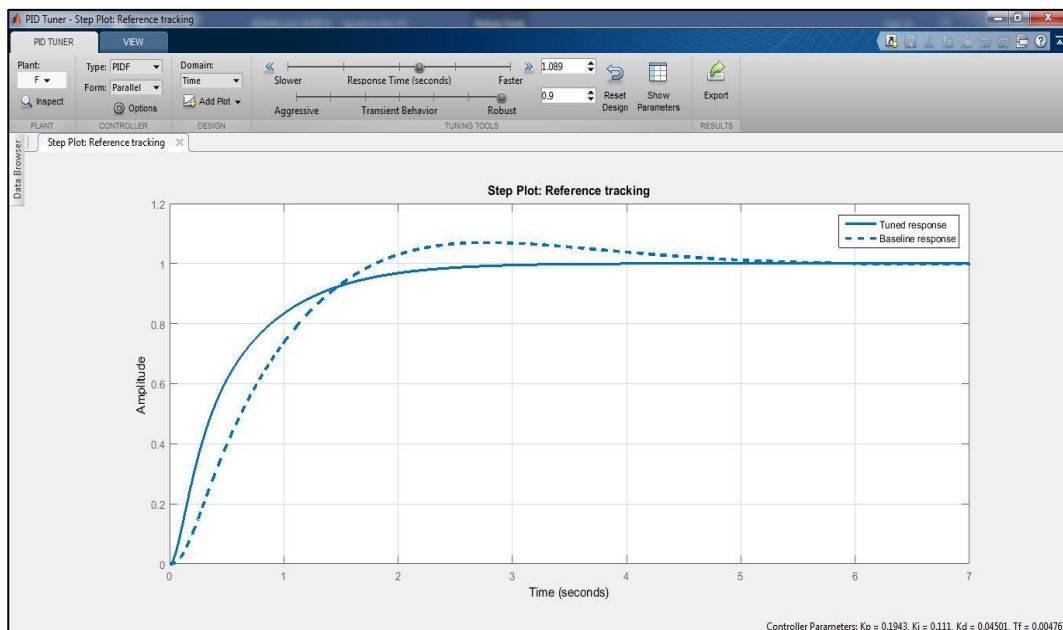
```

Penalaan dengan pidtuner

Sebelum penalaan



Sesudah penalaan



LAIN LAIN

Tabel variabel beban

Beban 0 A

	1	2
1	0	0
2	1	0
3	1.5000	0
4	2	0
5	2.5000	0
6	3	0
7	3.5000	0
8	4	0
9	4.5000	0
10	5	0
11	5.5000	0
12	6	0
13	6.5000	0
14	7	0
15	7.5000	0
16	8	0

Beban 25 A

	1	2
1	0	0
2	1	0
3	1.5000	0
4	2	0
5	2.5000	0
6	3	0
7	3.5000	0
8	4	0
9	4.5000	0
10	5	0
11	5.5000	0
12	6	0
13	6.5000	25
14	7	25
15	7.5000	25
16	8	25

Beban 50 A

	1	2
1	0	0
2	1	0
3	1.5000	0
4	2	0
5	2.5000	0
6	3	0
7	3.5000	0
8	4	0
9	4.5000	0
10	5	0
11	5.5000	0
12	6	0
13	6.5000	100
14	7	100
15	7.5000	100
16	8	100

Beban 100 A

	1	2
1	0	0
2	1	0
3	1.5000	0
4	2	0
5	2.5000	0
6	3	0
7	3.5000	0
8	4	0
9	4.5000	0
10	5	0
11	5.5000	50
12	6	50
13	6.5000	50
14	7	50
15	7.5000	50
16	8	50

Beban 200 A

	1	2
1	0	0
2	1	0
3	1.5000	0
4	2	0
5	2.5000	0
6	3	0
7	3.5000	0
8	4	0
9	4.5000	0
10	5	0
11	5.5000	0
12	6	0
13	6.5000	200
14	7	200
15	7.5000	200
16	8	200
17		

Tabel parameter fungsi alih yang digunakan

Parameter	nilai
K_A	20,0000
τ_A	0,0600
K_E	1,0000
τ_E	0,2000
K_G	0,8000
τ_G	1,5000

- Dalam figur 1 garis grafik

```

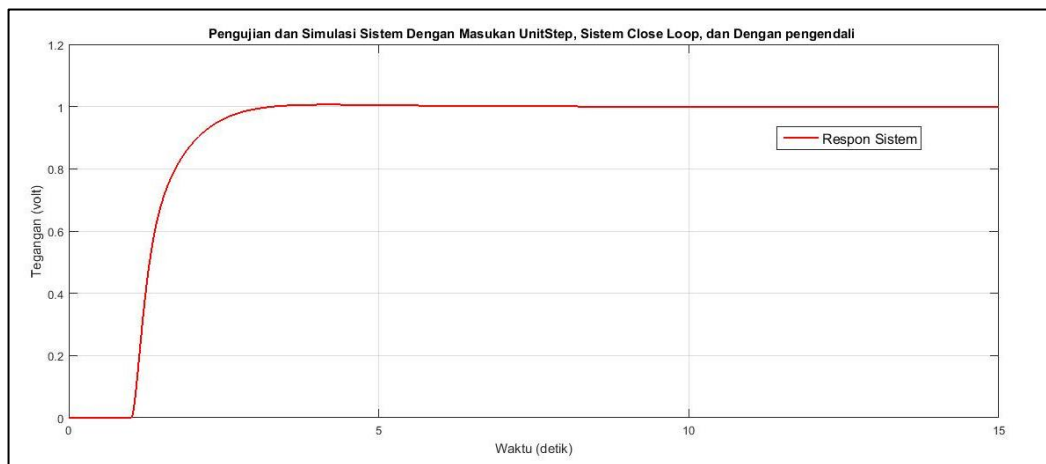
y=A(:,2);
x=A(:,1);
plot(x,y)
grid
ylabel('Tegangan (volt)')
xlabel('Waktu (detik)')
title('')

```

- ❖ Gambar grafik pada scope Matlab



- ❖ Gambar grafik pada figure Matlab



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