## Lab 5

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No	Digital	Steady-state	Overshoot	Settling time	Control signal
	Controller	error	(%)		variation
1	Kalman	zero	zero	6 min	+73.83
					-63.17
2	Without pole	zero	17.3	19.5	+43.25
	closest to -1				-26.05
3	Without pole	zero	39.8	49.5	+13.45
	closest to -1				-14.5
	and complex				
	poles				
4	Saturated	zero	31.5082	100.3706	-0.5
	and modified				+0.5

## Lab 6

Initial data:

Nominal power of the generator [MW]: P=259

Nominal pressure of the living steam in the boiler [bar]: p=127

Thermic specific consumption [Mcal/MWh]: **R\_T=2332** 

Steam enthalpy [Mcal/tone]: i2=814

## Model 1:

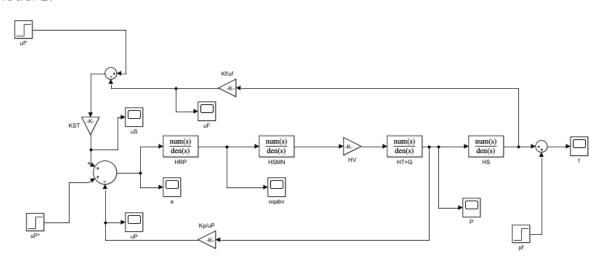


Figure 1 Simulink Implementation of Model 1

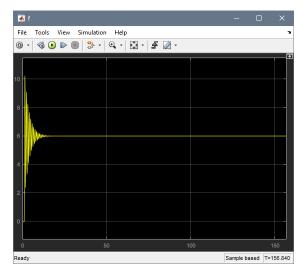


Figure 2Model 1 output

## Model2:

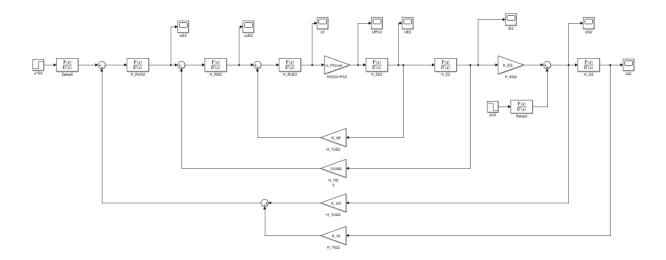


Figure 3 Simulink Implementation of Model 2



Figure 4 Model 2 output