

S. N. Patel Institute of Technology & Research Centre, Umrakh

(A Vidyabharti Trust Institution)

B.E./Electrical Engineering

Subject Name: Control System Engineering

Subject Code: <u>3130905</u>

Sr.No.	Experiment
1	To study about MATLAB commands necessary for CST.
2	To determine Poles, Zeros and DC gain of given T.F and plot
	pole and zero.
3	To plot step and ramp response of given T.F using MATLAB.
4	Using MATLAB find T.F with system in series and Parallel.
5	Block diagram reduction using MATLAB.
6	To determine state space model from T.F and vice versa.
7	To study and check effect of damping ratio in 2nd order system
	in MATLAB.
8	To sketch root locus for the given T.F using MATLAB.
9	To sketch Bode plot for given T.F.
10	To determine P, PI, PD and PID controller using MATLAB.

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