GURU TEGH BAHADUR INSTITUTE OF TECHNOLOGY DEPARTMENT OF ECE

LIST OF EXPERIMENTS

Paper Code(s): EEC-262	L	P	С
Paper: Network Analysis and Synthesis Lab	-	2	1

- 1. Introduction to MATLAB and its basic commands.
- 2. Plot unit step, unit impulse, unit ramp, exponential, parabolic functions and sinusoidal signals
- 3. Study the transient response of series RLC circuit for different types of waveforms using MATLAB
- 4. Study the time response of a simulated linear system and verify the unit step and square wave response of first order and second order, type 0,1 system
- 5. Using MATLAB determine current in various resistors connected in network using mesh current and node voltage analysis.
- 6. To verify Reciprocity Theorem for the given two port network.
- 7. To determine Z parameters of the given two port network.
- 8. To determine hybrid parameters of the given two port network.
- 9. To design Cascade Connection and determine ABCD parameters of the given two port network.
- 10. Study the frequency response of different filter circuits.
- 11. Any one of the following
 - a. Filter design in MATLAB Simulink.
 - b. To find two port network parameters using MATALB Simulink.
 - c. Analysis of continuous LTI system.
 - d. Any simple hardware project of your choice.