B. P. Poddar Institute of Management & Technology

Department of Electronics & Communication Engineering

Academic Year: 2018-19,   Semester: Odd

Laboratory Name: Hamming Laboratory   Room No.: B603

2 ECE 1st Semester

Course Name: Signal and System Laboratory (EC393)

List of Experiments to be conducted

S.No.	Name of Experiment	CO	PO	PSO
1.	Introduction to MATLAB related to signal processing	1	1, 5, 8, 9, 10, 12	1, 2
2.	To study Z- transform of: a) Sinusoidal signals b) Step functions.	1	1, 5, 8, 9, 10, 12	1, 2
3.	To compare Fourier and Laplace transformations of a signal.	1	1, 5, 8, 9, 10, 12	1, 2
4.	To study convolution theorem in time and frequency domain.	2	1, 5, 8, 9, 10, 12	1, 2
5.	To Study Signal Synthesis via sum of harmonics.	3	1, 5, 8, 9, 10, 12	1, 2
6.	To study LPF &HPF, band pass and reject filters using RC circuits.	4	1, 3, 5, 8, 9, 10, 12	1, 2
7.	To demonstrate how analog signals are sampled and how different sampling rates affect the outputs.	5	1, 3, 5, 8, 9, 10, 12	1, 2
8.	To study sampling theorem for low pass signals and band pass signals.	5	1, 3, 5, 8, 9, 10, 12	1, 2
9.	To determine the components of: a) Square wave b) Clipped sine wave	1	1, 5, 8, 9, 10, 12	1, 2
Additional experiment				
10.	Actualize low pass and high pass filter using RL circuits for cutoff frequency 5 kHz and 100 kHz respectively	4	1, 3, 5, 8, 9, 10, 12	1, 2