Independent University Bangladesh (IUB)
School of Engineering and Computer Science (SECS)
Department of Electrical and Electronic Engineering
Autumn 2020 EEE 321LAB

Lab 1: Introduction to EEE 321Lab

Objectives:

1. MATLAB introduction
2. Getting familiar with MATLAB environment.

Lab work:

1. MATLAB introduction

I. Introduction to MATLAB
- a. What is MATLAB?
- b. Use of MATLAB & its key features

II. Getting familiar with MATLAB environment
- a. Working on the Command Window
- b. Working on the workspace
- c. Command History
- d. Current folder
- e. Docking & undocking files
- f. Figure window
- g. Help
- h. Working on Editor window
- i. Naming and saving a file
- j. Running a file

2. Continuous time signal generation using MATLAB.
- a. Sinusoidal (sin, cos) signal (without and with phase shift)
- b. Exponential signal (exp)
- c. Complex signal (e.g. cosx + jsinx)
- d. Combination of above signals (e.g. sinx + ex)
- e. Square wave signal (square)
- f. Random signal (rand and randn)
- g. Periodic signals (sin, cos, square)

3. Plotting and sub plotting
- a. Continuous signal plotting (plot) using MATLAB
- b. Sub plotting (subplot)

4. Making a MATLAB function. (e.g. make a function named "**addition**" having a form "**function [z] = addition (x,y)**" that will add 2 numbers or 2 signals

Assignment:

Make a MATlab function that will provide the factorial of a given number