Subject Name: WIRELESS COMMUNICATIONS LAB (ETEC 463)

Academic Session: Aug 2020 to Dec 2020

Ex.No	Experiments
1	Write a program in Scilab to Calculate *Frequency Reuse Distance ,Co-Channel Interference reduction factor, Cellular System Capacity, S/I Ratio* for a given variables.
2	Write a Program in Scilab to calculate maximum traffic intensity and maximum no. of users accomodated in Erlang B and Erlang C system for given no of channels
3	Write a Program in Scilab to calculate Bit Error rate performance of BPSK modulated signal over only AWGN channel and AWGN and Rayleigh channel both.
4	Program in Scilab to Generate Walsh Codes and then spread the user information using it.
5	Program in Scilab to Generate PN Sequence for CDMA Systems.
6	Write a Program in NS3 to connect WIFI TO BUS (CSMA) Network
7	Write a Program in NS3 to create WIFI Network in SIMPLE INFRASTUCTURE MODE (of nodes)
8	Write a Program in NS3 to Create a wireless mobile ad-hoc network between three nodes.
9	Write a program in Scilab to simulate 3G WCDMA transmission and reception. Plot the graph for each stage.
10	Write a Program in Scilab to study the variation in channel capacities of 4G MIMO systems (2x2, 3x3, 4x4 systems) and plot the graph.
11	Write a Review paper on Latest Technologies/ Techniques to be used to implement 5G in India and how it will support Green Communication in India.

References:

1 https://www.nsnam.org/ (For NS3 Programs)

2 https://scilab.in/ (For SciLab Programs)