**SSESA’S, Science College, Congress Nagar, Nagpur**

**Department of Computer Science**

**Practical List**

**Session 2021-22**

**Practical - II (Neural Network)**

**M. Sc. – Semester - III**

1. Write a MATLAB program to generate a few activation functions that are being used in neural networks.
2. Generate ANDNOT function using McCulloch-Pitts neural net by a MATLAB program.
3. Generate XOR function using McCulloch-Pitts neuron by writing an M-file.
4. Write a MATLAB program for perceptron net for an AND function with bipolar inputs and targets.
5. With a suitable example demonstrate the perceptron learning with its decision region using MATLAB. Give the output in graphical form.
6. Develop a MATLAB program for OR function with bipolar inputs and targets using Adaline Network.
7. Develop a MATLAB program to perform adaptive prediction with adaline.
8. Write a M-file for adaptive system identification using adaline network.
9. Develop a MATLAB program for adaptive noise cancellation using adaline network.
10. Write a MATLAB program for approximating two 2-dimensional functions using Back Propagation in batch mode.

**Coordinator (M.Sc.)**

**Department of Computer Science**