

# School of Computer Science Engineering and Technology

Course- B.Tech  
Course Code- CSET211  
Year- second  
Date-

Type- AI Core  
Course Name- SML  
Semester- ODD  
Batch- B.Tech 3rd Sem

## Lab Assignment (21<sup>th</sup> Nov to 25<sup>th</sup> Nov 2022)

### Lab 11 – (Perceptron Learning Algorithm)

#### CO-Mapping:

Exp. No.	Name	CO1	CO2	CO3
011	Perceptron Learning Algorithm		✓	✓

**Objective:** Student will learn how to implement Perceptron Learning Algorithm on on given dataset.

**Total: 2 Marks**

#### Question-1:

Implementation of Multilayer Perceptron Neural Network with MNIST dataset

Complete following steps

**Step 1:** Import the necessary libraries.

**Step 2:** Download the dataset.

**Step 3:** Now we will convert the pixels into floating-point values.

**Step 4:** Understand the structure of the dataset

**Step 5:** Visualize the data.

**Step 6:** Form the Input, hidden, and output layers.

**Step 7:** Compile the model.

**Step 8:** Fit the model.

**Step 9:** Find Accuracy of the model.