

School of Computer Science Engineering and Technology

Course- BTech

Course Code- **CSET211**

Year- Second

Date- 09/08/2022

Type- AI Core-1

Course Name- **Statistical Machine Learning**

Semester- ODD

Batch- CSE 3rd Semester

Lab Assignment (10th Aug to 12th Aug 2022)

Lab 1 - NumPy

Q1: Import numpy as np and see the version

Q2: Write program for Creating a 1D array

Q3: Write program for Creating a boolean array?

Q4: Write program to extract items that satisfy a given condition from 1D array?

Q5: Write program for Replace items that satisfy a condition with another value in numpy array?

Q6: Write program for reshape an array?

Convert a 1D array to a 2D array with 2 rows

Q7: Write program for stacking two arrays vertically?

Q9: How to remove from one array those items that exist in another?

Q. From array a remove all items present in array b

Q10: Write program to get the positions where elements of two arrays match?

Q. Get the positions where elements of a and b match

Q11: Write program to import a dataset with numbers and texts keeping the text intact in python numpy?

Q. Import the [iris dataset](#) keeping the text intact.

Q12: How to normalize an array so the values range exactly between 0 and 1?

Q. Create a normalized form of `iris's sepallength` whose values range exactly between 0 and 1 so that the minimum has value 0 and maximum has value 1.