Semester:III	CIE Marks:40
Subject Code:20MCA36	SEE Marks:60
Contact Hours(L:T:P):0:0:4	Exam Hours:03

Course Outcomes:

1.Develop python program to perform search/sort on a given data set

2.Demonstrate object oriented principles

3. Demonstrate data visualization using Numpy for a given problem

4. Demonstrate regression model for a given problem

5.Deign and develop an application for the given problem

1.Write a Python program to perform linear search

2.Write a Python program to insert an element into a sorted list

3.Write a python program using object oriented programming to demonstrate encapsulation, overloading and inheritance

4.Implement a python program to demonstrate

1) Importing Datasets 2) Cleaning the Data 3) Data frame manipulation using Numpy

5.Implement a python program to demonstrate the following using NumPy

a) Array manipulation, Searching, Sorting and splitting.

b) broadcasting and Plotting NumPy arrays

6. Implement a python program to demonstrate

Data visualization with various Types of Graphs using Numpy

7.Write a Python program that creates a mxn integer arrayand Prints its attributes using matplotlib

8.Write a Python program to demonstrate the generation of linear regression models.

9.Write a Python program to demonstrate the generation of logistic regression models using Python.

10.Write a Python program to demonstrate Timeseries analysis with Pandas.

11.Write a Python program to demonstrate Data Visualization using Seaborn.

Part-B

6. Students shall carry out a mini project using python/pandas to demonstrate the data analysis.
7. A team of two students must develop the mini project. However during the examination, each student must demonstrate the project individually.
8. The team must submit a brief project report (20-25 pages) that must include the following