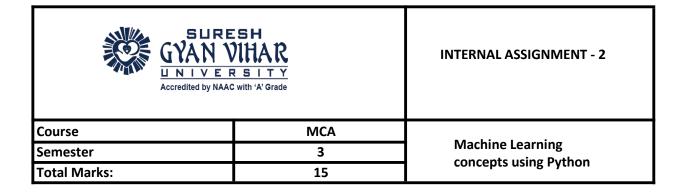
SURESH GYAN VIHAR UNIVERSITY Accredited by NAAC with 'A' Grade		INTERNAL ASSIGNMENT - 1
Course	MCA	Machine Learning concepts using Python
Semester	3	
Total Marks:	15	

## Q 1. Write answers for any two questions from below. (5 marks each – Word limit – 500)

- A. Define machine learning and its type.
- B. List steps involved in training a machine learning algorithm.
- C. Write code in Python to separate Wine data into training and test sets—using 70 percent and 30 percent of the data, respectively—and standardize it to unit variance.

## Q 2. Write short notes on all of the following topics (1 mark each - Word limit - 100)

- A. Regression analysis
- B. What is Adaline?
- C. Sigmoid function
- D. LDA
- E. PCA



## Q 1. Write answers for any two questions from below. (5 marks each – Word limit – 500)

- A. Write code in Python to load datasets from CSV files.
- B. How to Transforming words into feature vectors? Explain.
- C. Explain K-means clustering and steps to achieve K-means clustering.

## Q 2. Write short notes on all of the following topics (1 mark each - Word limit - 100)

- A. Bagging
- B. ROC AUC
- C. Opinion mining
- D. Use of PyPrind
- E. Frequency-inverse document frequency