B.Com.(B.A.) IV Sem.
Forecasting and Predictive Analytics
Important Topics

Unit-I

1. Explain Forecasting with an example.
2. Differentiate between Bivariate vs Multivariate Regression.
3. Explain different types of Bivariate Analysis.
4. Explain different types of distances in Business Analytics
5. Explain the various components of a time series?

Unit-II

1. Explain Classification with its types.
2. Describe KNN Classification.
3. Explain Naïve Bayes Classifier Algorithm with an example.
4. Explain Support Vector Machines (SVM). Write about the advantages of SVM.
5. Explain about Decision Trees. How to apply Decision Tree in solving Business Problems?

Unit-III

1. Write about the different types of Clustering Algorithms.
2. Explain K-Means Clustering with an example.
3. Explain DBSCAN Algorithm.
4. Write about Hierarchical Clustering with examples.
5. What are the applications of Clustering? (or) What is the role of Clustering in Data Mining.

Unit-IV

1. What is Linear Optimization? Explain the goals and constraints of Linear Optimization?
2. Explain the process of calculating linear optimization using Excel to solve a Business Problem.

Unit-V

1. What is Simulation? What are the features of Simulation?
2. Explain Monte Carlo Analysis with an example.
3. What are the advantages and limitations of Simulation in Business.