

Syllabus:

Unit 1

Introduction: Introduction to Data Mining-Types of Data and Patterns Mined- Technologies- Applications- Issues in Data Mining. Introduction to Data Warehousing

Unit 2

Knowing about Data-Data Preprocessing: Cleaning– Integration–Reduction–Data Transformation and Discretization

Unit 3

Mining Frequent Patterns: Basic Concept – Frequent Item Set Mining Methods -Apriori and FP Growth algorithms -Mining Association Rules

Unit 4

Classification and Predication: Issues – Algorithms- Decision Tree - Bayesian Classification –k Nearest Neighbor

Unit 5

Clustering: Overview of Clustering – Types of Data in Cluster Analysis – K Means Algorithm, Hierarchical Clustering Algorithms