UNIT - I (18 Periods)

Data Warehouse - Introduction, A Multi-dimensional data model, Data Warehouse Architecture, Data Warehouse Implementation.
Data Mining - Introduction, Data Mining, Kinds of Data, Data Mining Functionalities, Classification of Data Mining Systems, Major issues in Data Mining.

UNIT - II (18 Periods)

Data Preprocessing - Data cleaning, Data Integration & Transformation, Data Reduction, Discretization & Concept Hierarchy Generation, Data Mining Primitives.
Mining Association roles in large databases - Association rule mining, mining single-dimensional Boolean Association rules from Transactional Databases, Mining Multi-dimensional Association rules from relational databases & Data Warehouses.

UNIT - III (15 Periods)


UNIT - IV (20 Periods)

Classification & Prediction - Introduction, Classification by Decision tree induction, Bayesian Classification, Classification by Back propagation, Other Classification Methods, Prediction, Classifier accuracy.
Mining Complex Type of Data - Multidimensional Analysis and Descriptive Mining of Complex Data Objects, Mining Spatial Databases, Mining Multimedia Databases, Mining Text Databases, Mining the World Wide Web.

Textbooks:

Data Mining Concepts & Techniques - Jiawei Han Micheline Kamber - Morgan Kaufmann Publishers.

Reference Books:

2. Data Mining (Introductory and Advanced Topics) - Margaret H.Dunham - Pearson Education.
3. Data Warehousing in the real world - A Practical guide for Building decision support systems - Sam Anahory, Dennis Murray - Pearson Education.
4. Introduction to Data Mining with case studies - G.K.Gupta, PHI Publications, 2006