CORE COURSE -IX - DATA MINING AND WAREHOUSING

Objective: *In this course students shall learn the mathematical & algorithmic details of various data association techniques to discover patterns in underlying data (namely mining data).He also learn how to consolidate huge volume of data in one place efficiently.*

UNIT-I

Introduction to data mining – Association Rule Mining.

UNIT-II

Classification – Cluster analysis.

UNIT-III

Web Data Mining – Search engines.

UNIT-IV

Data warehousing – Algorithms & operations to create data warehouse – Designing data warehouse- Applications of data warehouse.

UNIT-V

Online analytical processing – Information Privacy.

TEXT BOOK:

1. **G.K.Gupta,** Introduction to Data mining with case studies ,Prentice Hall India , 2006 (ISBN 81-203-3053-6)   **[Unit-1 : (**Chapters 1,2); **Unit-2** : (Chapters 3,4); **Unit-3 (**Chapters   5,6); **Unit-4 (**Chapters   7), **Unit-5 (**Chapters 8,9)**].**

REFERENCE BOOK:

1. **K.P.Soman & Shyam Diwakar and V. Ajay,** Insight to Data Mining Theory and Practice, Prentice Hall of India, 2006. (ISBN -81-203- 2897-3)
2. **Jiawei Han and Micheline Kamber**, Data Mining Concepts and Techniques, Elsevier, Second Edition, 2007 (ISBN: 81-312-0535-5)