

DATA MINING

Written by Administrator
Sunday, 08 November 2009 11:40 -

Subject Code

: **06IS74**

IA Marks

: 25

No. of Lecture Hours/Week

: 04

Exam Hours

: 03

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Unit - 2

Data – 2: Data Preprocessing; Measures of Similarity and Dissimilarity

6 Hours

Unit - 3

Classification: Preliminaries; General approach to solving a classification problem; Decision tree induction; Rule-based classifier; Nearest-neighbor classifier.

8 Hours

Unit - 4

Association Analysis – 1: Problem Definition; Frequent Itemset generation; Rule Generation; Compact representation of frequent itemsets; Alternative methods for generating frequent itemsets.

6 Hours

PART - B

Unit - 5

Association Analysis – 2: FP-Growth algorithm, Evaluation of association patterns; Effect of skewed support distribution; Sequential patterns.

6 Hours

Unit - 6

Cluster Analysis: Overview, K-means, Agglomerative hierarchical clustering, DBSCAN, Overview of Cluster Evaluation.

7 Hours

Unit - 7

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Further Topics in Data Mining: Multidimensional analysis and descriptive mining of complex data objects; Spatial data mining; Multimedia data mining; Text mining; Mining the WWW. Outlier analysis.

7 Hours

unit - 8

Applications: Data mining applications; Data mining system products and research prototypes; Additional themes on Data mining; Social impact of Data mining; Trends in Data mining.

6 Hours

Text Books:

1. **Introduction to Data Mining** - Pang-Ning Tan, Michael Steinbach, Vipin Kumar, Pearson Education, 2007
2. **Data Mining – Concepts and Techniques** - Jiawei Han and Micheline Kamber, 2nd Edition, Morgan Kaufmann, 2006.

Reference Books:

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1. **Insight into Data Mining – Theory and Practice** - K.P.Soman, Shyam Diwakar, V.Ajay, PHI, 2006.