

CA 832 ADVANCED DATA MINING

PREREQUISITES:

- DBMS Concepts and Data Mining Fundamentals
- Knowledge on any one Data Mining Tools (R, RapidMiner, Weka, XLMiner, etc.).

OBJECTIVE:

To get an overview of several advanced data mining techniques and understand the research methods applied in the field

SYLLABUS:

Unit I: Data Mining Techniques - Data Mining Process - Process with a typical set of data - Big Data - Visualization of data through data mining software

Unit II: Data Mining Methods as Tools - Memory-Based reasoning methods of Data Mining - Algorithms with prototypical data based on real applications

Unit III: Market Basket Analysis - Fuzzy Data Mining approaches - Fuzzy Decision Tree approaches Fuzzy Association Rule applications

Unit IV: Rough Sets - Support Vector Machines - Genetic algorithms

Unit V: Social Computing – Analysis -Graph Mining - Web Mining - Privacy Preservin Data Mining

REFERENCES:

David L. Olson and Dursun Delen. **Advanced Data Mining Techniques**. Springer, 200

Charu C. Aggarwal and Haixun Wang. **Managing and Mining Graph Data**. Springer, 2010.

Ian H. Witten, Eibe Frank and Mark A. Hall. **Data Mining: Practical Machine Learning Tools and Techniques**. Morgan Kaufmann Publishers, 2011.

Jiawei Han and Micheline Kamber. **Data Mining: Concepts and Techniques**. Morgan Kaufmann Publishers, 2006.

Mrs-RB
-T-

Mrs. Shukla
for sanction
-T-