<table>
<tr><td colspan="3" align="center">Lesson plan
Session: 2022-2023
Semester: 3rd
Subject: DM
Paper Code : CSC 3066</td></tr>
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Month	UNITS	TOPIC
August	UNIT-I: Introduction to Data Mining	**Basic Concepts:** Data Mining, kinds of patterns that can be mined, Data Mining versus Database systems, Data preparation, cleaning and visualization. **Data Warehousing:** Differences between database systems and Data Warehouse, Data Warehouse architecture and its components, Warehouse versus Data Mining (OLTP & OLAP), OLAP tools, Data cubes, Multidimensional Data.
September	UNIT-II: Association Rules	**What is an association rule?** Mining association rules, frequent sets and border sets, algorithms for mining association rules – A priori algorithm, Pincersearch algorithm, Border algorithm, FP-tree growth algorithm, generalized association rule, association rule with item constraints.
October	UNITS-III: Clustering	**Hierarchical versus Partitional clustering**, types of data in clustering, Partitional algorithms – k-means, k-mediods, PAM, CLARA, CLARANS. **Density based clustering algorithm** – DBSCAN. **Hierarchical algorithms** – BIRCH, CURE. Categorical clustering algorithms – ROCK, CACTUS.
November	UNITS-IV: Decision Trees	Introduction, tree construction principle, decision tree generation algorithms – CART, ID3, C4.5
December	UNITS-V: Other techniques for Data Mining :	Concepts of Genetic algorithms, Artificial Neural Network and Rough sets and their application in the domain of data mining. Introduction to Web Mining, Text Mining, Temporal data mining.

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