WORK PLAN (Odd Semester August-November 2024)

Paper Name: DISCIPLINE SPECIFIC CORE COURSE- Data Mining-I

Course: B.A. with Computer Science as Major discipline (IIIrd Sem)

Teacher Name: Mr. Rajeev Kumar Rai

S.No.	Month	Content
1	August 2024	Unit 1: Introduction to Data Mining - Motivation and Challenges for Data Mining - Types of Data Mining Tasks - Applications of Data Mining - Data Measurements - Data Quality - Supervised vs. Unsupervised Techniques Unit 2: Data Pre-Processing - Data Aggregation - Sampling
2	September 2024	- Dimensionality Reduction - Feature Subset Selection - Feature Creation - Variable Transformation Unit 3: Cluster Analysis - Basic Concepts of Clustering - Measure of Similarity Assignment-1,Class Test-1
3	October 2024	- Types of Clusters and Clustering Methods - K-means Algorithm - Measures for Cluster Validation - Determining Optimal Number of Clusters Unit 4: Association Rule Mining - Transaction Dataset - Frequent Itemset - Support Measure - Rule Generation - Confidence of Association Rule - Apriori Algorithm - Apriori Principle Assignment-2
4	November 2024	Unit 5: Classification - Naive Bayes Classifier - Nearest Neighbour Classifier - Decision Tree - Overfitting - Confusion Matrix - Evaluation Metrics and Model Evaluation Class Test-2

Note: Lab Exercises, Assignments, and Class Tests will be covered as per listed topics throughout the session.