

WORK PLAN (Odd Semester August-November 2024)

Paper Name: Algorithms and Advanced Data Structures

Course: B.Sc.(H) Computer Science (Vth Semester)

Teacher Name: Mr. Rajeev Kumar Rai

S.No.	Month	Content
1	August 2024	<ul style="list-style-type: none">- Randomized Quicksort- Randomized Select- Skip Lists- Ford-Fulkerson Algorithm for the Max Flow Problem
2	September 2024	<ul style="list-style-type: none">- Vectors, Lists, Sequences- Hash Functions, Collision Resolution Schemes- String Matching: Brute Force, KMP Algorithm- Revision- Lab Practice- Assignment 1- Class Test 1
3	October 2024	<ul style="list-style-type: none">- Tries: Standard Tries, Compressed Tries, Suffix Tries, Search Engines- 2-4 Trees, B Trees- Lab Practice- Assignment 2- Class Test 2
4	November 2024	<ul style="list-style-type: none">- Bellman-Ford Algorithm- Union-Find Data Structures - Application in Kruskal's Algorithm- Revision- Lab Practice

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