



Bahria University
Discovering Knowledge

BAHRIA UNIVERSITY,
(Karachi Campus)
Department of Software Engineering
Assignment#04– Spring 2022
Complex Engineering Problem

COURSE TITLE: **D&AA**
Class: **BSE 4**
Course Instructor: **ENGR. BUSHRA FAZAL KHAN**
Max. Marks: **7 Points**

COURSE CODE: **CSC-321**
Shift: **Morning**
Assignment Date: **09-Jun-2022**
Assignment Due: **22-Jun-2022**

In groups code the algorithms that have been assigned to you and you are required to present in group in front of the class. Your presentation should have the following sections.

- a. Introduction (Paradigm +Problem) CLO1:1.5 Marks
- b. Algorithm Explanation CLO2:2 Marks
- c. Applications CLO 1:1.5 Marks
- d. Analysis calculate time complexity CLO4:2 Marks

List of algorithms is given below your group will be assigned one in class.

- 1 Rabin-Karp algorithm
- 2 Travelling salesman dynamic
- 3 Knuth-Morris-Prat algorithm
- 4 Boyer-Moore algorithm
- 5 knapsack problem dynamic
- 6 Knight's tour problem
- 7 Huffman code dynamic
- 8 Interpolation search problem
- 9 Travelling salesman greedy
- 10 Floyd-Warshall Algorithm
- 11 Bellman-Ford
- 12 Maximal Flow
- 13 Finite-automata-based string matching.