**Design and Analysis of Algorithms**

**MCA22**

**Batch B4, and B5**

**Term: 23/6/23 to 23/9/23**

Data sheet 1: 6/7/2023

1. GCD of two numbers (Euclid’s Method)

2. GCD of two numbers (Consecutive Integer Checking Method)

3. GCD of two numbers (Middle School Method)

Data sheet 2: 13/7/2023

1. Linear Search

2. Matrix Multiplication

Data sheet 3: 20/7/2023

1. Linear Search- Time complexity Analysis

2. Matrix Multiplication- Time complexity Analysis

Data sheet 4: 27/7/2023

1. Largest Element -Time complexity Analysis
2. Uniqueness Property -Time complexity Analysis

Data sheet 5: 10 /8/2023

1. Factorial Using Recursion- Time complexity Analysis

Data sheet 6: 17/8/2023

1. Bubble Sort- Time complexity Analysis
2. Selection Sort- Time complexity Analysis