Heaven's Light is Our Guide

Computer Science & Engineering Rajshahi University of Engineering & Technology

Lab Manual

Module-06

Course Title: Sessional based on CSE 2201

Course No. : CSE 2202

Experiment No. 6

Name of the Experiment: Design and Complexity analysis of Greedy algorithm.

Date: 6th Cycle

Algorithms (Greedy Method):

- Knapsack Problem
- Tree Vertex Splitting
- Job Sequence with Deadline
- Minimum-cost Spanning Tree (Prom's and Kruskal's Algorithm)
- Single-source Shortest Path

Task:

- 1. Find out the complexity of the above algorithms.
- 2. Code the above algorithm in any language(i.e. C/C++/Java)
- 3. Write down a report on it.

Recommended Exercise:

Programming Exercises of Chapter 4: "Greedy Method" of "Fundamentals of Computer Algorithm", Ellis Horowitz, Sartaj Sahni, Sanguthevar Rajasekaran.