

Programme	: B.Tech	Semester	: Fall 20-21
Course	: Data structures and Algorithms (Embedded Lab)	Code	: CSE2003
Faculty	: Dr.B. Saleena / Dr.V.M.Nisha	Slot	: L43+L44

Exercise No: 11 (20/10/2020)

Greedy Algorithms (Minimum Cost Spanning Tree)

The Tamil Nadu government wants to provide electricity to five villages from the current power transmission unit established at village B as shown in the following graph. The weights on the edges represent the distance in kms between the vertices. The cost of the electric cable per km is Rs.120 approximately. Write a C program to find a cost-effective way of laying the electric cable to provide electricity to all villages. (Minimum Cost Spanning tree) – Implement the same using Prim's and Kruskal's Algorithm.

