

## Data Structures and Algorithms Lab

### o8. Spanning Trees

**Lab Code:** 19ECSP201

**Lab No:** o8

**Semester:** III

**Date:** 28 Sept and 4 Oct, 2019

**Batch:** C1-C2

**Question:** Implement a minimum spanning tree using Kruskal's algorithm

**Objective:** Understanding and realizing disjoint-set and spanning trees

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**Implement the following:**

1. Implement the basic union-find data structure [10 Points]
2. Implement Kruskal's algorithm using union-find [20 Points]
3. Solve the problem on HackerRank: Kruskal (MST): Really Special Subtree [20 Points]

**\*\* Happy Coding \*\***