**ADITYA INSTITUTE OF TECHNOLOGY & MANAGEMENT, TEKKALI**

**AUTONOMOUS**

**DEPARTMENT OF IT**

**Lesson Plan**

**Class: III-I Subject: ADS LAB AY: 2014-15**

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| S.No | Date of Lab session | Experiment No | Topic |
| 1 | 3-9-14 | Exp-1 | To implement functions of Dictionary using Hashing  ( division method, multiplication method, Universal hashing) |
| 8-9-14 |
| 2 | 10-9-14 | Exp-2 | To perform various operations i.e, insertions and deletions on AVL trees |
| 15-9-14 |
| 3 | 17-9-14 | Exp-3 | To perform various operations i.e., insertions and deletions on 2-3 trees. |
| 29-9-14 |
| 4 | 1-10-14 | Exp-4 | To implement operations on binary heap |
| 6-10-14 |
| 5 | 8-10-14 | Exp-5 | To implement operations on graphs  i) vertex insertion  ii) Vertex deletion  iii) finding vertex  iv)Edge addition and deletion |
| 20-10-14 |
| 6 | 22-10-14 | Exp-6 | To implement Depth First Search for a graph nonrecursively. |
| 27-10-14 |
| 7 | 29-10-14 | Exp-7 | To implement Breadth First Search for a graph nonrecursively |
| 3-11-14 |
| 8 | 5-11-14 | Exp-8 | To implement Prim’s algorithm to generate a min-cost spanning tree |
| 10-11-14 |
| 9 | 12-11-14 | Exp-9 | To implement Krushkal’s algorithm to generate a min-cost spanning tree. |
| 10 | 17-11-14 | Exp-10 | To implement Dijkstra’s algorithm to find shortest path in the graph |
| 11 | 19-11-14 | Exp-11 | To implement pattern matching using Boyer-Moore algorithm |
| 12 | 24-11-14 | Exp-12 | To implement Knuth-Morris-Pratt algorithm for pattern matching. |
|  | 1-12-14 | Internal exam |  |
|  | 3-12-14 | Internal exam |  |