Government EngineeringCollege, Modasa



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**Advanced Data Structure (3710215)**

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| **Sr.No.** | **Date** | **Title** | **Pg.No.** | **Sign** |
| 1. |  | Write a program which creates Binary Search Tree. And also implement recursive and non-recursive tree traversing methods inorder , preorder and post-order for the BST. |  |  |
| 2. |  | Write a program to implement any two hashing methods. Use any one of the hashing method to implement Insert, Delete and Search operations for Hash Table Management. |  |  |
| 3. |  | Explain Dictionary as an Abstract Data Type. Implement Dictionary using suitable Data Structure. |  |  |
| 4. |  | Write a program which creates AVLTree. Implement Insert and Delete Operations in AVL Tree. Note that each time the tree must be balanced. |  |  |
| 5. |  | Implement Red-Black Tree. |  |  |
| 6. |  | Implement 2-3 Tree. |  |  |
| 7. |  | Implement B Tree. |  |  |
| 8. |  | Implement a program for String Matching using Boyer- Moore Algorithm on a text file content |  |  |
| 9. |  | Implement a program for String Matching using Knuth- Morris-Pratt Algorithm on a text file content. |  |  |
| 10. |  | Implement Huffman-Coding Method. Show the result with suitable example. |  |  |
| 11. |  | Write a program which creates Skip Lists. Implement Insert, Search and Update Operations in Skip-Lists. |  |  |