Even Semester Lesson Plan BCA II Even sem

Teacher name: Dr. Surjeet Singh

Subject: ADVANCED DATA STRUCTURE

April 2021

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| Tree: Introduction, Definition, Representing Binary tree in memory, Traversing binary trees, Traversal algorithms using stacks, Binary search trees: introduction, storage, Searching, Insertion and deletion in a Binary search tree, Huffman’s algorithm, General trees. |

May 2021

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| Graph: Introduction, Graph theory terminology, Sequential and linked representation of graphs, operations on graphs, traversal algorithms in graphs and their implementation, Warshall’s algorithm for shortest path, Dijkstra algorithm for shortest path. |

June 2021

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| Sorting: Internal & external sorting, Radix sort, Quick sort, Heap sort, Merge sort, Tournament sort, Comparison of various sorting and searching algorithms on the basis of their complexity. |

July 2021

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| Files: Introduction Attributes of a file, Classification of files, File operations, Comparison of various types of files, File organization: Sequential, Indexed-sequential, Random-access file.  Hashing: Introduction, Collision resolution. |