

Lesson Plan

Subject-Computer Science and Application

Lesson Plan- 16 Weeks (Nov 20 – Feb 21)

| Week | Date | BCA(3rd Sem) Data Structures using C |
|----------------|----------------|---|
| 1 | 2- Nov – 2020 | Introduction: Elementary data organization |
| | 3- Nov – 2020 | Elementary data organization, Data Structure definition |
| | 4- Nov – 2020 | Data type vs. data structure |
| | 5- Nov – 2020 | - |
| | 6- Nov – 2020 | - |
| | 7- Nov - 2020 | - |
| | 2 | 8- Nov - 2020 |
| 9- Nov - 2020 | | Categories of data structures |
| 10- Nov - 2020 | | Data structure operations, Applications of data structures |
| 11- Nov - 2020 | | Algorithms complexity and time-space tradeoff |
| 12- Nov - 2020 | | - |
| 13- Nov - 2020 | | - |
| 14- Nov - 2020 | | Holiday |
| 3 | 15- Nov - 2020 | Sunday |
| | 16- Nov - 2020 | Holiday |
| | 17- Nov - 2020 | Big-O notation, Strings: Introduction |
| | 18- Nov - 2020 | String operations. |
| | 19- Nov - 2020 | - |
| | 20- Nov - 2020 | - |
| | 21- Nov - 2020 | - |
| 4 | 22- Nov - 2020 | Sunday |
| | 23- Nov - 2020 | Pattern matching algorithms. |
| | 24- Nov - 2020 | Holiday |
| | 25- Nov - 2020 | Arrays: Introduction |
| | 26- Nov - 2020 | - |
| | 27- Nov - 2020 | - |
| | 28- Nov - 2020 | Assigment-1 |
| 5 | 29- Nov - 2020 | Sunday |
| | 30- Nov - 2020 | Holiday |
| | 1- Dec - 2020 | Representation of linear array in memory Array Traversal |
| | 2- Dec - 2020 | Insertions, Deletion in an array, Multidimensional arrays |
| | 3- Dec - 2020 | - |
| | 4- Dec - 2020 | Sessional |
| | 5- Dec - 2020 | - |
| 6 | 6- Dec - 2020 | Sunday |
| | 7- Dec - 2020 | Parallel arrays, Sparce matrices. |
| | 8- Dec - 2020 | Linked List: Introduction, Array vs. linked list |
| | 9- Dec - 2020 | Insertion, Deletion, Searching in a linked list, Header linked list |
| | 10- Dec - 2020 | - |

| | | |
|----|----------------|---|
| | 11- Dec - 2020 | - |
| | 12- Dec - 2020 | - |
| 7 | 13- Dec - 2020 | Sunday |
| | 14- Dec - 2020 | Circular linked list, Two-way linked list, Garbage collection |
| | 15- Dec - 2020 | Applications of linked lists. |
| | 16- Dec - 2020 | Algorithms for Insertion, deletion in array, Single linked list |
| | 17- Dec - 2020 | - |
| | 18- Dec - 2020 | - |
| | 19- Dec - 2020 | - |
| 8 | 20- Dec - 2020 | Sunday |
| | 21- Dec - 2020 | Stack: Introduction |
| | 22- Dec - 2020 | Array and linked representation of stacks |
| | 23- Dec - 2020 | Assignment -2 |
| | 24- Dec - 2020 | - |
| | 25- Dec - 2020 | - |
| | 26- Dec - 2020 | - |
| | 27- Dec - 2020 | Sunday |
| 9 | 28- Dec - 2020 | Operations on stacks, Applications of stacks |
| | 29- Dec - 2020 | Polish notation, Recursion |
| | 30- Dec - 2020 | Queues: Introduction |
| | 31- Dec - 2020 | - |
| | 1- Jan - 2021 | - |
| | 2- Jan - 2021 | - |
| 10 | 3- Jan - 2021 | Sunday |
| | 4- Jan - 2021 | Array and linked representation of queues |
| | 5- Jan - 2021 | Operations on queues, Deques, |
| | 6- Jan - 2021 | Priority Queues, Applications of queues |
| | 7- Jan - 2021 | - |
| | 8- Jan - 2021 | - |
| | 9- Jan - 2021 | Class test |
| 11 | 10- Jan - 2021 | Sunday |
| | 11- Jan - 2021 | Holiday |
| | 12- Jan - 2021 | Tree: Introduction |
| | 13- Jan - 2021 | Representing Binary tree in memory |
| | 14- Jan - 2021 | - |
| | 15- Jan - 2021 | - |
| | 16- Jan - 2021 | Revision |
| 12 | 17- Jan - 2021 | Sunday |
| | 18- Jan - 2021 | Traversing binary trees |
| | 19- Jan - 2021 | Traversal algorithms using stacks, |
| | 20- Jan - 2021 | Holiday |
| | 21- Jan - 2021 | - |
| | 22- Jan - 2021 | - |
| | 23- Jan - 2021 | - |
| 13 | 24- Jan - 2021 | Sunday |
| | 25- Jan - 2021 | Traversal algorithms using recursion |
| | 26- Jan - 2021 | Holiday |
| | 27- Jan - 2021 | Graph: Introduction |

| | | |
|----|----------------|-------------------------------------|
| | 28- Jan - 2021 | - |
| | 29- Jan - 2021 | - |
| | 30- Jan - 2021 | - |
| 14 | 31- Jan - 2021 | Sunday |
| | 1- Feb - 2021 | Graph theory terminology |
| | 2- Feb - 2021 | Sequential representation of graphs |
| | 3- Feb - 2021 | Linked representation of graphs. |
| | 4- Feb - 2021 | - |
| | 5- Feb - 2021 | - |
| | 6- Feb - 2021 | - |
| 15 | 7- Feb - 2021 | Sunday |
| | 8- Feb - 2021 | Revision |
| | 9- Feb - 2021 | Revision |
| | 10- Feb - 2021 | Revision |
| | 11- Feb - 2021 | - |
| | 12- Feb - 2021 | - |
| | 13- Feb - 2021 | - |
| | 14- Feb - 2021 | Sunday |
| 16 | 15- Feb - 2021 | Revision |
| | 16- Feb - 2021 | Revision |
| | 17- Feb - 2021 | Question Paper Discussion |
| | 18- Feb - 2021 | - |
| | 19- Feb - 2021 | - |
| | 20- Feb - 2021 | - |