

Lesson Plan

Subject- Computer Science & Applications

Lesson Plan- 17 Weeks (July-Nov 2018)

| Week | Date | BCA(3 rd Sem) Data Structures using C |
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| 1 | 16-July-18 | Introduction: Elementary data organization |
| | 17-July-18 | Elementary data organization, Data Structure definition |
| | 18-July-18 | Data type vs. data structure |
| | 19-July-18 | |
| | 20-July-18 | |
| | 21-July-18 | |
| | 22-July-18 | Sunday |
| 2 | 23-July-18 | Categories of data structures |
| | 24-July-18 | Data structure operations, Applications of data structures |
| | 25-July-18 | Algorithms complexity and time-space tradeoff |
| | 26-July-18 | |
| | 27-July-18 | |
| | 28-July-18 | |
| | 29-July-18 | Sunday |
| 3 | 30-July-18 | Big-O notation. Strings: Introduction |
| | 31-July-18 | Shaheedudhamsingh's martyrdom day |
| | 1-Aug-18 | String operations. |
| | 2-Aug-18 | |
| | 3-Aug-18 | |
| | 4-Aug-18 | |
| | 5-Aug-18 | Sunday |
| 4 | 6-Aug-18 | Pattern matching algorithms. |
| | 7-Aug-18 | Arrays: Introduction |
| | 8-Aug-18 | Representation of linear array in memory |
| | 9-Aug-18 | - |
| | 10-Aug-18 | - |
| | 11-Aug-18 | - |
| | 12-Aug-18 | Sunday |
| 5 | 13-Aug-18 | Haryaliteej |
| | 14-Aug-18 | Array Traversal Insertions, Deletion in an array, Multidimensional arrays |
| | 15-Aug-18 | Independence day |
| | 16-Aug-18 | |
| | 17-Aug-18 | |
| | 18-Aug-18 | |
| | 19-Aug-18 | Sunday |
| 6 | 20-Aug-18 | Parallel arrays, Sparce matrices. |

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| | 21-Aug-18 | Linked List: Introduction, Array vs. linked list |
| | 22-Aug-18 | Id-ul-zuha(bakrid) |
| | 23-Aug-18 | |
| | 24-Aug-18 | |
| | 25-Aug-18 | |
| | 26-Aug-18 | Sunday |
| 7 | 27-Aug-18 | Insertion, Deletion, Searching in a linked list, Header linked list |
| | 28-Aug-18 | Circular linked list, Two-way linked list, Garbage collection |
| | 29-Aug-18 | Applications of linked lists. |
| | 30-Aug-18 | |
| | 31-Aug-18 | |
| | 1-Sep-18 | Talent show |
| | 2-Sep-18 | Sunday |
| 8 | 3-Sep-18 | Janmashtmi |
| | 4-Sep-18 | Algorithms for Insertion, deletion in array, Single linked list |
| | 5-Sep-18 | Stack: Introduction |
| | 6-Sep-18 | |
| | 7-Sep-18 | |
| | 8-Sep-18 | |
| | 9-Sep-18 | Sunday |
| 9 | 10-Sep-18 | Array and linked representation of stacks |
| | 11-Sep-18 | Assignment -2 |
| | 12-Sep-18 | Operations on stacks, Applications of stacks |
| | 13-Sep-18 | |
| | 14-Sep-18 | |
| | 15-Sep-18 | |
| | 16-Sep-18 | Sunday |
| 10 | 17-Sep-18 | Sessional |
| | 18-Sep-18 | Polish notation, Recursion |
| | 19-Sep-18 | Queues: Introduction |
| | 20-Sep-18 | |
| | 21-Sep-18 | |
| | 22-Sep-18 | |
| | 23-Sep-18 | Sunday |
| 11 | 24-Sep-18 | Array and linked representation of queues |
| | 25-Sep-18 | Operations on queues, Deques, |
| | 26-Sep-18 | Priority Queues, Applications of queues |

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| | 27-Sep-18 | |
| | 28-Sep-18 | |
| | 29-Sep-18 | |
| | 30-Sep-18 | Sunday |
| 12 | 1-Oct-18 | Tree: Introduction |
| | 2-Oct-18 | Mahatma gandhi'sjayanti |
| | 3-Oct-18 | Representing Binary tree in memory |
| | 4-Oct-18 | Traversing binary trees |
| | 5-Oct-18 | |
| | 6-Oct-18 | |
| | 7-Oct-18 | Sunday |
| 13 | 8-Oct-18 | Traversal algorithms using stacks |
| | 9-Oct-18 | Traversal algorithms using recursion |
| | 10-Oct-18 | Maharaja aggarsenjayanti |
| | 11-Oct-18 | |
| | 12-Oct-18 | |
| | 13-Oct-18 | |
| | 14-Oct-18 | Sunday |
| 14 | 15-Oct-18 | Graph: Introduction |
| | 16-Oct-18 | Graph theory terminology |
| | 17-Oct-18 | Sequential representation of graphs |
| | 18-Oct-18 | Dussehra |
| | 19-Oct-18 | |
| | 20-Oct-18 | |
| | 21-Oct-18 | Sunday |
| 15 | 22-Oct-18 | Linked representation of graphs. |
| | 23-Oct-18 | Revision |
| | 24-Oct-18 | Maharishi valmiki's birthday |
| | 25-Oct-18 | Revision |
| | 26-Oct-18 | Revision |
| | 27-Oct-18 | Revision |
| | 28-Oct-18 | Sunday |
| 16 | 29-Oct-18 | |
| | 30-Oct-18 | |
| | 31-Oct-18 | |
| | 1-Nov-18 | Haryana day |
| | 2-Nov-18 | Revision |
| | 3-Nov-18 | Question paper discussion |

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| | 4-Nov-18 | Sunday |
| 17 | 5-Nov-18 | |
| | 6-Nov-18 | Holiday |
| | 7-Nov-18 | Diwali |
| | 8-Nov-18 | Holiday |
| | 9-Nov-18 | Vishavkarma day |
| | 10-Nov-18 | Holiday |
| | 11-Nov-18 | Sunday |
| 18 | 12-Nov-18 | Holiday |
| | 13-Nov-18 | Holiday |
| | 14-Nov-18 | |