**Lesson Plan**

**Name of the Assistant Professor**- Ms. Kanika Chourasia

**Subject**- Computer Science & Applications

**Lesson Plan**- 17 Weeks (July-Nov 2018)

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| **Week** | **Date** | **BCOM(CAV) (Vth Sem)**  **Data structure** | **BCOM(CAV) (1st Sem)**  **Computer Fundamentals and logical organization** |
| 1 | 16-July-18 | Data Structure :introduction | Introduction to computers: definition, characteristics of computers |
| 17-July-18 | Linear and least structures : | memory and mass storage devices; |
| 18-July-18 | array definition | memory hierarchy |
| 19-July-18 |  |  |
| 20-July-18 |  |  |
| 21-July-18 |  |  |
| 22-July-18 | Sunday | |
| 2 | 23-July-18 | Array type | RAM, ROM, EPROM, PROM and other types of memory |
| 24-July-18 | Traversing in array | cloud memory; logical organization of computer. |
| 25-July-18 | Insertion in array | Number systems, |
| 26-July-18 |  |  |
| 27-July-18 |  |  |
| 28-July-18 |  |  |
| 29-July-18 | Sunday | |
| 3 | 30-July-18 | Deletion in array | binary arithmetic operations. |
| 31-July-18 | Shaheedi udham singh’s martyrdom day | |
| 1-Aug-18 | Linear search | character codes |
| 2-Aug-18 |  |  |
| 3-Aug-18 |  |  |
| 4-Aug-18 |  |  |
| 5-Aug-18 | Sunday | |
| 4 | 6-Aug-18 | address calculation | Boolean algebra |
| 7-Aug-18 | Sparse matrix | Boolean functions |
| 8-Aug-18 | test | error detecting and correcting codes |
| 9-Aug-18 |  |  |
| 10-Aug-18 |  |  |
| 11-Aug-18 |  |  |
| 12-Aug-18 | Sunday | |
| 5 | 13-Aug-18 | Haryali teej | |
| 14-Aug-18 | Array v/s linked list | truth tables, simplifications of Boolean functions, |
| 15-Aug-18 | Independence day | |
| 16-Aug-18 |  |  |
| 17-Aug-18 |  |  |
| 18-Aug-18 |  |  |
| 19-Aug-18 | Sunday | |
| 6 | 20-Aug-18 | List : Single linked list, | digital logic gates |
| 21-Aug-18 | Traversing in link list | Computer software – introduction, types of software - system, application and utility software; |
| 22-Aug-18 | Id-ul-zuha(bakrid) | |
| 23-Aug-18 |  |  |
| 24-Aug-18 |  |  |
| 25-Aug-18 |  |  |
| 26-Aug-18 | Sunday | |
| 7 | 27-Aug-18 | Searching in link list | programming languages; introduction to operating system |
| 28-Aug-18 | Insertion in link list | types and function of operating system |
| 29-Aug-18 | Deletion in link list | real time applications; operating systems for tabs, mobile phones, etc. – Android, etc; |
| 30-Aug-18 |  |  |
| 31-Aug-18 |  |  |
| 1-Sep-18 |  |  |
| 2-Sep-18 | Sunday | |
| 8 | 3-Sep-18 | Janmashtmi | |
| 4-Sep-18 | assignment | open source software: an overview, Linux Ubuntu; concepts of translators, linkers and loader.assignment |
| 5-Sep-18 | Stack introduction, memory representation | combinational logic- adders,subtractions, |
| 6-Sep-18 |  |  |
| 7-Sep-18 |  |  |
| 8-Sep-18 |  |  |
| 9-Sep-18 | Sunday | |
| 9 | 10-Sep-18 | Push algorithm using array | encoders, decoders, |
| 11-Sep-18 | Pop algorithm using array | multiplexors, de-multiplexors |
| 12-Sep-18 | Push algorithm using link list | sequential logic- flip flops |
| 13-Sep-18 |  |  |
| 14-Sep-18 |  |  |
| 15-Sep-18 |  |  |
| 16-Sep-18 | Sunday | |
| 10 | 17-Sep-18 | Pop algorithm using link list | sequential logic- flip flops |
| 18-Sep-18 | Expression evaluation using stack | shift registers |
| 19-Sep-18 | Infix to postfix | shift registers |
| 20-Sep-18 |  |  |
| 21-Sep-18 |  |  |
| 22-Sep-18 |  |  |
| 23-Sep-18 | Sunday | |
| 11 | 24-Sep-18 | Quick sort | counters, |
| 25-Sep-18 | Queue | counters, |
| 26-Sep-18 | INS /del algorithm using array | memory organization semiconductor RAMs and ROMs; |
| 27-Sep-18 |  |  |
| 28-Sep-18 |  |  |
| 29-Sep-18 |  |  |
| 30-Sep-18 | Sunday | |
| 12 | 1-Oct-18 | sessional | sessional |
| 2-Oct-18 | Mahatma gandhi’s jayanti | |
| 3-Oct-18 | INS /del algorithm using link list | machine instructions, instruction formats, |
| 4-Oct-18 |  |  |
| 5-Oct-18 |  |  |
| 6-Oct-18 |  |  |
| 7-Oct-18 | Sunday | |
| 13 | 8-Oct-18 | circular queue | addressing modes, |
| 9-Oct-18 | Double ended queue | instruction cycles; |
| 10-Oct-18 | Maharaja aggarsen jayanti | |
| 11-Oct-18 |  |  |
| 12-Oct-18 |  |  |
| 13-Oct-18 |  |  |
| 14-Oct-18 | Sunday | |
| 14 | 15-Oct-18 | circular linked list concepts | concept of microprogramming; |
| 16-Oct-18 | Double linked list | I/O interface, |
| 17-Oct-18 | BTree concept. | I/O transfer - program - controlled, interrupt controlled, |
| 18-Oct-18 | Dussehra | |
| 19-Oct-18 |  |  |
| 20-Oct-18 |  |  |
| 21-Oct-18 | Sunday | |
| 15 | 22-Oct-18 | Files : Serial, | direct memory access. |
| 23-Oct-18 | Sequential, | Application software: spreadsheets, word processors, database management software; |
| 24-Oct-18 | Maharishi valmiki’s birthday | |
| 25-Oct-18 |  |  |
| 26-Oct-18 |  |  |
| 27-Oct-18 |  |  |
| 28-Oct-18 | Sunday | |
| 16 | 29-Oct-18 | Indexed | networks basic, types of networks, |
| 30-Oct-18 | Direct, | topologies, |
| 31-Oct-18 | Multi-list | media |
| 1-Nov-18 | Haryana day | |
| 2-Nov-18 |  |  |
| 3-Nov-18 |  |  |
| 4-Nov-18 | Sunday | |
| 17 | 5-Nov-18 | Question paper discussion | hardware and software required for networking. |
| 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 | doubts | doubts |