**Name of the Teacher: Ms. Ritu Class: BCA-I, sem-II Subject: Comp and Programming Fundamentals**

**Lesson Plan**

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| **S No** | **Period** | **Topics to be Covered** | **Academic Activity to be Organized** |
|  | **17-31 July 2017** | **Computer Fundamentals: Definition, Block Diagram along with its components, characteristics & classification of computers, Applications of computers in various fields.** | **Group Discussion** |
|  | **01-31 Aug 2017** | **Memory: Concept of primary & secondary memory, RAM, ROM, types of ROM, flash memory, Secondary storage devices: Sequential & direct access devices viz. magnetic tape, magnetic disk, CD, DVD,, Computer hardware & software: I/O devices, relationship between hardware and software, types of software** | **On Board Presentations on different topics** |
|  | **01-30 Sept 2017** | **Operating system: Definition, functions of operating system, concept of multiprogramming, multitasking, multithreading, multiprocessing, time-sharing, real time,single-user & multi-user operating system. Planning the Computer Program: Concept of problem solving, Problem definition, Programdesign, Debugging, Types of errors in programming, Documentation,** | **Class Quiz** |
|  | **01-31 Oct 2017** | **Techniques of Problem Solving: Flowcharting, algorithms, pseudo code, decision table, Structured**  **Programming concepts, Programming methodologies viz. top-down and bottom-up**  **programming. Computer Languages: Analogy with natural language, machine language, assembly language,high-level language, language translators, characteristics of a good programming language** | **Class level Quiz** |
|  | **01-13 Nov 2017** | **Searching, Sorting, and Merging: Linear & Binary Searching, Bubble, Selection, and Insertion Sorting, Merging, Design of algorithms for searching, sorting and merging.** | **20 mint written test on random topic given on previous day** |

**Topics of Assignments/ Class Tests to be given to the Students:**

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| **Assignment 1** | **Input and Output Devices** |
| **Assignment 2** | **Operating System and types of OS** |
| **Class Test** | **Unit – II and IV** |