Name of the Teacher: Pooja Bajaj Class: BCom CAV I (BC(Voc)-105)

**Lesson Plan**

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| **S No** | **Period** | **Topics to be Covered** | **Academic Activity to be Organized** |
|  | **17-31 July 2017** | Introduction to computers: definition, components and characteristics of computers; input and output devices: memory and mass storage devices; | Oral Presentation |
|  | **01-31 Aug 2017** | Memory hierarchy, RAM, ROM, EPROM, PROM and other types of memory, cloud memory; logical organization of computer.  Computer software – introduction, types of software - system, application and utility software; programming languages; introduction to operating system: types and function of operating system | Oral Presentation |
|  | **01-30 Sept 2017** | Real time applications; operating systems for tabs, mobile phones, etc. – Android, etc; open source software: an overview, Linux Ubuntu; concepts of translators, linkers and loader.Application software: spreadsheets, word processors, database management software; networks basic, types of networks, topologies, media, hardware and software required for networking. | Test |
|  | **01-31 Oct 2017** | Number systems, binary arithmetic operations. character codes and error detecting and correcting codes. Boolean algebra, Boolean functions, truth tables, simplifications of Boolean functions, digital logic gates. Combinational logic- adders subtractions, encoders, decoders, multiplexors, de-multiplexors. sequential logic- flip flops, shift registers, counters | Oral Presentation |
|  | **01-13 Nov 2017** | memory organization semiconductor RAMs and ROMs; machine instructions, instruction formats, addressing modes, instruction cycles; concept of micro- programming; I/O interface, I/O transfer - program - controlled, interrupt controlled, direct memory access. | Extra Classes for queries |

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

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| **Assignment 1** | Introduction to computers: definition, capabilities and limitations. |
| **Assignment 2** | Sequential logic- flip flops |
| **Class Test** | Introduction to computers: definition, components and characteristics of computers; input and output devices: memory and mass storage devices; Memory hierarchy, RAM, ROM, EPROM, PROM and other types of memory, cloud memory;  Number systems, binary arithmetic operations. Character codes and error detecting and correcting codes. Boolean algebra, Boolean functions, truth tables, simplifications of Boolean functions, digital logic gates. |