**LESSON-PLAN (Session 2021-22) Even Semester**

**Name of Professor**: Dr. Sapna **Subject:** Logical Organisation of Computers - II

**Class:** BCA 2nd Sem **Subject/Paper: 122**

|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No. | Days  | Topics to be covered | Remarks if any |
|  | 01-04-2022 to 15-04-2022 | Sequential Logic: Characteristics, Flip-Flops, Clocked RS, D type, JK, T type  |  |
|  | 16-04-2022 to 30-04-2022 | Master-Slave flip-flops. State table, state diagram. Flip-flop excitation tables |  |
|  | 01-05-2022 to 15-05-2022 | Sequential Circuits: Designing registers – Serial Input Serial Output (SISO), Serial Input Parallel Output (SIPO), Parallel Input Serial Output (PISO), Parallel Input Parallel Output (PIPO) and shift registers. | Assignment 1 |
|  | 16-05-2022 to 31-05-2022 | Designing counters – Asynchronous and Synchronous Binary Counters, Modulo-N Counters and Up-Down Counters |  |
|  | 01-06-2022 to 15-06-2022 | Memory & I/O Devices: Memory Parameters, Semiconductor RAM, ROM, Magnetic and Optical Storage devices, Flash memory, I/O Devices and their controllers | Assignment 2 |
|  | 16-06-2022 to 30-06-2022 | Instruction Design & I/O Organization: Machine instruction, Instruction set selection, Instruction cycle, Instruction Format and Addressing Modes. |  |
|  | 01-07-2022 to 16-07-2022 | I/O Interface, Interrupt structure, Program-controlled, Interrupt-controlled & DMA transfer, I/O Channels, IOP. |  |

\* Vacation as per university calendar

\* Unit test will be taken as per schedule.