**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Even Semester**

**Session (2018-19)**

**Class: BCA (2ND SEM) Name of the Teacher: Sonika**

**Subject: Computer Organization Period :**

**Paper : Room No :**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 14 /01/2019 – 19/01/2019 | Evolution of Computers, Stored program concept and Von Neumann Architecture, Integer and floating point |
| Week 2 | 21/01/2019 –  25/01/2019 | Arithmetic algorithms : Addition and subtraction for signed magnitude and 2's complement numbers, Booth algo |
| Week 3 | 28/01/2019 –  2/02/2019 | Blocks: Gates, Multiplexers |
| Week 4 | 4/02/2019 –  9/02/2019 | Decoders, Encoders |
| Week 5 | 11/02/2019 –  16/02/2019 | Sequential Building blocks: Flip Flops,. |
| Week 6 | 18/02/2019 –  23/02/2019 | Registers, Counters |
| Week 7 | 25/02/2019 –  02/03/2019 | Architecture of 8086/8088 |
| Mid Semester Exam | | |  | I/O organization : Strobe based and Handshake based communication, Vector and priority interrupts, DMA based data transfer; CPU. |
| Week 8 | 11/03/2019 –  16/03/2019 | **2nd week March (Mid Semester Exam)** |
| Week 9 | 18 /03/2019 –  22/03/2019 | Micro instructions, register transfer, arithmetic logic and shift ,instruction cycle |
| Week 10 | 25/03/2019 –  30/03/2019 | Interrupt types, interrupt cycle. |
| Week 11 | 1/04/2019 –  6/04/2019 | Strobe based and handshake based, DMA Transfer |
| Week 12 | 8/04/2019 –  12/04/2019 | Memory Hierarchy, RAM,ROM |
| Week 13 | 15/04/2019 –  20/04/2019 | CACHE memory ,Virtual Memory |
| Week 14 | 22/04/2019 –  27/04/2019 | Features, Assembly language programs:-To add/subtract two numbers, Program to input/output one character, Program to demonstrate the use of subroutines. |
| Week 15 | 29 /04/2019 –  3/05/2019 | Introduction to various Physical components of a computer. Physical Inspection of a PC Diagnostics on a PC, Functional description of various cards. |
|  |  | Viruses, Types of viruses. Detection, Protection and protection from Viruses. |