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

**Teaching Plan Session Even Semester**

**(2017-18)**

**Class: BCA 3(SIXTH SEM) Name of the Teacher: Sonika**

**Subject: COMPUTER ORGANISATION Period :**

**Paper : Room No :**

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| **S. No** | **Date From** | **Date Upto** | | **Topics to be covered** |
| Week 1 | Jan 08, 2018 | Jan 13, 2018 | | Evolution of Computers, Stored program concept and Von Neumann Architecture,Information representation and codes. |
| Week 2 | Jan 15, 2018 | Jan 20, 2018 | | Integer multiplication using shift and add. |
| Week 3 | Jan 22, 2018 | Jan 27, 2018 | | Booth's algorithms, Integer and floating point representation. |
| Week 4 | Jan 29, 2018 | Feb 3, 2018 | | Arithmetic algorithms : Addition and subtraction for signed magnitude and 2's complement numbers |
| Week 5 | Feb 5, 2018 | Feb 10, 2018 | | Blocks: Gates, Multiplexers, Decoders, Encoders, Sequential Building blocks: Flip Flops, Registers, Counters. |
| Week 6 | Feb 12, 2018 | Feb 17, 2018 | | An instruction set, Addressing Modes, Instruction formats, Instruction execution in terms of Microinstructions. |
| Week 7 | Feb 19, 2018 | Feb 24, 2018 | | Concept of interrupt and simple I/O organisation, large registers, Stacks and handling of interrupts and subroutines. |
| Week 8 | Feb 26, 2018 | Mar 03 , 2018 | | I/O organization : Strobe based and Handshake based communication, Vector and priority interrupts, DMA based data transfer; CPU. |
| **2nd week March (Mid Semester Exam)** | | | | |
| Week 9 | March 12, 2018 | | March 17, 2018 | Concept of Bus, data movement among registers, data movement from/to memory. |
| Week 10 | March 19 , 2018 | | March 24, 2018 | RAM, Basic cell of static and dynamic RAM, Building large memories using chips, Associative memory. |
| Week 11 | March 26, 2018 | | March 31, 2018 | Cache memory organisation,  Virtual memory organisation. Assembly Language Programming. |
| Week 12 | April 02, 2018 | | April 07, 2018 | Machine and assembly language, Pseudo operations, subroutines in assembly language. |
| Week 13 | April 09, 2018 | | April 14 , 2018 | Assembly language programs:-To add/subtract two numbers, Program to input/output one character, Program to demonstrate the use of subroutines. |
| Week 14 | April 16, 2018 | | April 21, 2018 | Register Transfer Language and micro-operations; Language to represent conditional data transfer, Arithmetic and logical operations along with register transfer. |
| Week 15 | April 23, 2018 | | April 28, 2018 | SystemMaintenance,Physical Inspection of a PC and internal cards,  Diagnostics on a PC, Functional description of various modules and cards. PC Doctor, Norton, Semantics. |
| Week 16 | April 30, 2018 | | May 05, 2018 | Steps of Diagnostics, Viruses, Types of viruses. Detection, Protection and Cure of Viruses on a PC. |