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

**Teaching Plan Session Odd Semester**

**(2017-18)**

**Class: B.Sc 3rd Sem Name of the Teacher:Mr. Pardeep Kumar**

**Subject: Computer Science Period : 2nd**

**Paper :CS05 & CS06 Room No : 318**

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| **S. No** | **Date From** | **Date Upto** | | **Topics to be covered** |
| Week 1 | July 22 & July 24 2017 | July 29, 2017 | | Object, Class, Encapsulation, Data Hiding, Inheritance, Polymorphism. Analysis and design of system using Object Oriented Approach, Benefit of OOPs.  Structure of C++ program. |
| Week 2 | July 31 2017 | Aug 5, 2017 | | Class Declaration : Data Members, Member Functions, Private and Public members, data hiding and encapsulation, arrays within a class. |
| Week 3 | Aug 7, 2017 | Aug 12, 2017 | | Creating Objects, Accessing class data members, Accessing member functions, Methods of passing arguments to functions. Arrays of Objects, Objects as function arguments: Pass by value, Pass by Reference, Pointers to Objects. |
| Week 4 | Aug 14, 2017 | Aug 19, 2017 | | Functions in C++(continued …) |
| Week 5 | Aug 21, 2017 | Aug 26, 2017 | | Functions in C++ , Constructors and Destructors: Constructors: Declaration and Definition, Default Constructors, Parameterized Constructors, Copy Constructors. |
| Week 6 | Aug 28, 2017 | Sept 2, 2017 | | Number system: Binary, Decimal, Hexadecimal, Octal; Conversions; integer and floating point representation, character codes (ASCII, EBCDIC) |
| Week 7 | Sept 4, 2017 | Sept 9, 2017 | | Error detection and correction codes. |
| Week 8 | Sept 11, 2017 | Sept 16, 2017 | | Combinatorial logic design. |
| Week 9 | Sept 18, 2017 | Sept 23, 2017 | | Sequential Building Block. |
| Week 10 | Sept 25, 2017 | Sept 29, 2017 | | Micrprocessor : Architecture of 8086/8088 Processor Model. |
| **Autumn Break (30 Sept 2017- 09 Oct 2017)**  **Mid Semester Exam (10 Oct 2017 – 17 Oct 2017)** | | | | |
| Week 11 | Oct 18, 2017 | | Oct 21, 2017 | Instruction Set; Addressing Modes: Registgers used in Mircoprocessor. |
| Week 12 | Oct 23, 2017 | | Oct 28, 2017 | Features of Assembly Language, Machine Language vs Assembly Language, Pseudo Instruction; use of Assembly for programs: Addition, Subtraction, Multiplication. |
| Week 13 | Oct 30, 2017 | | Nov 4, 2017 | Encoder, Decoder, Multiplexer, Microinstructions : Register Transfer, Arithmetic, Logical and Shift Operations. |
| Week 14 | Nov 6, 2017 | | Nov 11, 2017 | Instruction Format, Instruction Cycle; Interrrupt: Interrupt types, Interrupt Cycle. |
| Week 15 | Nov 13, 2017 | | Nov 18, 2017 | Destructors and Inheritance. |
| Week 16 | Nov 20, 2017 | | Nov 25, 2017 | Polymorphism : Definition, types, Function overloading, Operator Overloading, Virtual functions and pure virtual function.  Introduction to various physical components of a computer, Physical Inspection and Diagnostics on PC, types of displays and other peripheral devices. |
| Week 17 | Nov 27, 2017 | | Dec 1, 2017 | Installing software; Functional description of various Internal and External cards; Viruses: Types of Computer Viruses, Detection of Viruses and Protection. |