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

**Teaching Plan Even Semester**

**Session (2018-19)**

**Class: PGDCA 2nd sem. Name of the Teacher: Sarbjit Kaur**

**Subject: Object Oriented Concepts Using JAVA Period : 6th (1-4)**

**Paper : PGD - 2101 Room No : 201**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 14 /01/2019 – 19/01/2019 | OOPs concepts: Basic Concepts of Object-Oriented Programming (Objects and  Classes, Data abstraction and encapsulation, Inheritance, Polymorphism, Dynamic  binding, Message communication) |
| Week 2 | 21/01/2019 –  25/01/2019 | Difference between procedure oriented and object oriented approach, Benefits of OOP’s; Applications of OOP’s, Object-Oriented languages. |
| Week 3 | 28/01/2019 –  2/02/2019 | Object oriented programming with JAVA: Byte code, Java virtual machine, Java Development Kit, java tokens, constants, variables, data types, operators, expressions. |
| Week 4 | 4/02/2019 –  9/02/2019 | control structures, defining class, creating objects, accessing class members, method overloading, static members |
| Week 5 | 11/02/2019 –  16/02/2019 | Inheritance:Defining a subclass, subclass constructor, multilevel inheritance,Hirerchical inheritance. Overriding methods, Final variables, methods, and classes,Abstract Methods and Classes. |
| Week 6 | 18/02/2019 –  23/02/2019 | Visibility Control: Public access, friendly access, protected access, private access,  private protected access |
| Week 7 | 25/02/2019 –  02/03/2019 | Arrays:One dimensional array, declaration, creation and initialization of arrays,  Array length, Two dimensional array |
| Mid Semester Exam | | |
| Week 8 | 11/03/2019 –  16/03/2019 | Strings: String arrays, String methods, StringBuffer class |
| Week 9 | 18 /03/2019 –  22/03/2019 | Interfaces:Defining interfaces, Extending Interfaces, Implementing Interfaces. Accessing Interface variables |
| Week 10 | 25/03/2019 –  30/03/2019 | Packages:Java API packages, Defining a package, Creating and Accessing  packages, Adding class to a package, Hiding Classes |
| Week 11 | 1/04/2019 –  6/04/2019 | Multithreaded Programming: Creating Thread, Extending the Thread class, Stopping and Blocking a Thread, Life cycle of a Thread. |
| Week 12 | 8/04/2019 –  12/04/2019 | Errors and Exception Handling: Fundamentals, error types, exception types, |
| Week 13 | 15/04/2019 –  20/04/2019 | Using Try and catch, finally statement, Built–in exceptions. |
| Week 14 | 22/04/2019 –  27/04/2019 | Applet Programming: Local and remote applets, Applet Life Cycle, Creating an  executable Applet |
| Week 15 | 29 /04/2019 –  3/05/2019 | Applet tag, Adding Applet to a HTML file, Passing parameters to  Applets |