**Post Graduate Govt. College for Girls, Sector-42, Chandigarh**

**Teaching Plan (Even Semester) Session (2019-2020)**

**Class: PGDCA 2ndsem**   **Name of the Teacher: Sarbjit kaur**

**Subject: Object Oriented Concepts Using JAVA Period:4(1-3)7(6)**

**Paper: PGD - 2101 Room No:202,101**

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| **S. No** | **Dates** | **Topics to be Covered** |
| Week 1 | 09-01-2020 to 11-01-2020 | OOPs concepts: Basic Concepts of Object-Oriented Programming (Objects and  Classes, Data abstraction and encapsulation, Inheritance, Polymorphism, Dynamic  binding, Message communication) |
| Week 2 | 13-01-2020 to 18-01-2020 | Difference between procedure oriented and object oriented approach, Benefits of OOP’s; Applications of OOP’s, Object-Oriented languages. |
| Week 3 | 20-01-2020 to 25-01-2020 | Object oriented programming with JAVA: Byte code, Java virtual machine, Java Development Kit, java tokens, constants, variables, data types, operators, expressions. |
| Week 4 | 27-01-2020 to 01-02-2020 | control structures, defining class, creating objects, accessing class members, method overloading, static members |
| Week 5 | 03-02-2020 to 08-02-2020 | Inheritance: Defining a subclass, subclass constructor, multilevel inheritance,Hirerchical inheritance. Overriding methods |
| Week 6 | 10-02-2020 to 15-02-2020 | Final variables, methods, and classes,Abstract Methods and Classes. |
| Week 7 | 17-02-2020 to 22-02-2020 | Visibility Control: Public access, friendly access, protected access, private access,  private protected access |
| Week 8 | 24-02-2020 to 29-02-2020 | Arrays:One dimensional array, declaration |
| Week 9 | 02-03-2020 to 05-03-2020 | creation and initialization of arrays,  Array length, Two dimensional array |
| Mid Semester Exams (06-03-2020 to 13-03-2020) | | |
| Week 11 | 14-03-2020, 16-03-2020 to 21-03-2020 | Strings: String arrays, String methods, StringBuffer class |
| Week 12 | 24-03-2020 to 28-03-2020 | Interfaces:Defining interfaces, Extending Interfaces, Implementing Interfaces. Accessing Interface variables |
| Week 13 | 30-03-2020 to 04-04-2020 | Packages:Java API packages, Defining a package, Creating and Accessing  packages, Adding class to a package, Hiding Classes |
| Week 14 | 07-04-2020 to 11-04-2020 | Multithreaded Programming: Creating Thread, Extending the Thread class, Stopping and Blocking a Thread, Life cycle of a Thread. |
| Week 15 | 15-04-2020 to 18-04-2020 | Errors and Exception Handling: Fundamentals, error types, exception types, |
| Week 16 | 20-04-2020 to 24-04-2020 | Using Try and catch, finally statement, Built–in exceptions. |
| Week 17 | 27-04-2020 to 02-05-2020 | Applet Programming: Local and remote applets, Applet Life Cycle, Creating an  executable Applet |
| Week 18 | 04-05-2020 | Applet tag, Adding Applet to a HTML file, Passing parameters to  Applets |