**Post Graduate Government College for Girls, Sector-42, Chandigarh**

**Teaching Plan for Bachelors (Third and Fifth Semester) and Post Graduate (Third Semester)**

**Session (2020-2021)**

**Class: BCA 5sem**   **Name of the Teacher: Jasdeep Kaur**

**Subject: Java Programming Paper: BCA-16-503**

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| **S. No** | **Dates** | **Topics to be Covered** |
| Week 1 | 03/08/2020 – 08/08/2020 | I/O Basics: streams, the predefined streams; Reading console Input, Writing console Output. |
| Week 2 | 10/08/2020 – 14/08/2020 | Arrays and Strings: One-dimensional and two-dimensional Arrays |
| Week 3 | 17/08/2020 – 22/08/2020 | String Handling using String and StringBuffer class, String Functions. |
| Week 4 | 24/08/2020 – 29/08/2020 | Packages: Types of packages, defining a package. |
| Week 5 | 31/08/2020- 05/09/2020 | Importing packages, Access protection. |
| Week 6 | 07/09/2020- 12/09/2020 | Interfaces: Defining an Interface, Implementing Interfaces, Variables in Interfaces. |
| Week 7 | 14/09/2020- 19/09/2020 | Achieving multiple inheritance using interfaces, Interface and Abstract classes. |
| Week 8 | 21/09/2020- 26/09/2020 | Exception Handling: Java Exception handling model, Types of exception, using Try and catch, Multiple Try and Catch clauses, Nested Try statements, finally block. |
| Week 9 | 28/09/2020- 03/10/2020 | Multi-threaded Programming: The Java Thread model, the Thread class and Runnable interface, Creating a Thread using Runnable Interface and extending Thread. |
| Week 10 | 05/10/2020- 10/10/2020 | User defined exceptions., Creating Multiple Threads, Thread Priorities, Synchronizations: Methods, Statements, Inter Thread Communication, Deadlock, Suspending, Resuming and Stopping Threads. |
| Week 11 | 12/10/2020- 16/10/2020 | Applet Programming: Introduction, Types of applet, Life Cycle, Incorporating an applet into web page using Applet . |
| Week 12 | 19/10/2020- 24/10/2020 | Running applets, using Graphics class and its methods to draw lines. |
| Week 13 | 27/10/2020- 30/10/2020 | Methods to draw: Tagrectangles, circles, ellipses, arcs and polygons. |
| Week 14 | 03/11/2020- 07/11/2020 | Using AWT controls: Introduction to AWT, Creating GUI Applications using AWT AWT controls: Label, TextBox, TextArea. |
| Week 15 | 09/11/2020- 12/11/2020 | Check Boxes, Radio Buttons, Choice lists, Understanding Layout. |
| Week 16 | 16/11/2020- 21/11/2020 | Managers: FlowLayout, BorderLayout, GridLayout; Introduction to Event handling using Delegation Event Model. |
| Week 17 | 23/11/2020- 28/11/2020 | Java Database Connectivity (JDBC): JDBC Architecture, JDBC Drivers, Java.SQL package, Connecting to the Database and performing basic database operation like Insert, Delete, Update and Select. |