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

**Teaching Plan Session Odd Semester**

**(2018-19)**

**Class: BCA 5th Sem Name of the Teacher: Monika Gogna**

**Subject:.** **Java Programming Period :3rd(5,6) & 4th(1,2)**

**Paper : BCA-16-503 Room No :201 & 202**

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| **S. No** | **Date From** | | **Date Upto** | **Topics to be covered** |
| Week 1 | **(For ongoing classes)** | | | The Java programming language and its characteristics; Java development kit, Java run- time environment; Java compiler |
| July 24, 2018 | | July 28, 2018 |
| Week 2 | July 30, 2018 | August 4, 2018 | | Java Vs. C++, Byte Code, Java Virtual Machine, constants, variables, data types, operators, expressions, control structures, defining class, creating objects, accessing class members, constructors, Garbage Collection |
| Week 3 | August 6, 2018 | August 11, 2018 | | method overloading, Inheritance: Different types of Inheritance, member access, using super keyword to call super class constructors |
| Week 4 | August 13, 2018 | August 18, 2018 | | creating a multilevel hierarchy, method overriding, dynamic method dispatch, using abstract classes, using Final keyword. |
| Week 5 | August 20, 2018 | August 25, 2018 | | I/O Basics: streams, the predefined streams; Reading console Input, Writing console Output. |
| Week 6 | August 27, 2018 | September 1, 2018 | | Arrays and Strings: One-dimensional and two-dimensional Arrays, String Handling using String and StringBuffer class, String Functions. |
| Week 7 | September 3, 2018 | September 8, 2018 | | Packages: Types of packages, defining a package, Importing packages, Access protection Interfaces: Defining an Interface, Implementing Interfaces, Variables in Interfaces, Achieving multiple inheritance using interfaces, Interface and Abstract classes. |
| Week 8 | September 10, 2018 | September 15, 2018 | | Exception Handling: Java Exception handling model, Types of exception, using Try and catch, Multiple Try and Catch clauses, Nested Try statements, finally block, user defined exceptions. |
| Week 9 | September 17, 2018 | September 22, 2018 | | Multi-threaded Programming: The Java Thread model, the Thread class and Runnable interface, Creating a Thread using Runnable Interface and extending Thread, Creating Multiple Threads, |
| Week 10 | September 24, 2018 | September 29, 2018 | | Thread Priorities, Synchronizations: Methods, Statements, Inter Thread Communication, Deadlock, Suspending, Resuming and Stopping Threads. |
| Week 11 | October 1, 2018 | October 8, 2018 | | Applet Programming: Introduction, Types of applet, Life Cycle, Incorporating an applet into web page using Applet Tag, |
| **MID SEMESTER EXAMINATION (October 11, 2018 to October 17, 2018)** | | | | |
| Week 12 | October 20, 2018 | October 27, 2018 | | running applets, using Graphics class and its methods to draw lines, rectangles, circles, ellipses, arcs and polygons. |
| Week 13 | October 29, 2018 | November 3, 2018 | | Using AWT controls: Introduction to AWT, Creating GUI Applications using AWT, AWT controls: Label, TextBox, TextArea, Check Boxes, Radio Buttons, Choice lists, |
| Week 14 | November 5, 2018 | November 10, 2018 | | Understanding Layout Managers: FlowLayout, BorderLayout, GridLayout; Introduction to Event handling using Delegation Event Model. |
| Week 15 | November 12, 2018 | November 17, 2018 | | Introduction to Java Database Connectivity (JDBC): JDBC Architecture, JDBC Drivers, Java.SQL package, |
| Week 16 | November 19, 2018 | November 22, 2018 | | Connecting to the Database and performing basic database operation like Insert, Delete, Update and Select. |
| Week 17 | November 26, 2018 | December 1, 2018 | | Revision |