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

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

**Class: IT 4th Sem**   **Name of the Teacher: Sonika**

**Subject: Computer N/Ws & web programming Period:**

**Paper: Room No:**

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| **S. No** | **Dates** | **Topics to be Covered** |
| Week 1 | 09-01-2020 to 11-01-2020 | Networking: Definition, Network hardware and Software, Network Topologies, Types and Uses of Computer Networks |
| Week 2 | 13-01-2020 to 18-01-2020 | OSI reference model and TCP/IP reference Model. Internet, WWW, URL, Introduction to Search engines. |
| Week 3 | 20-01-2020 to 25-01-2020 | HTML: Introduction to HTML, Building blocks of HTML, lists, links, images, tables. |
| Week 4 | 27-01-2020 to 01-02-2020 | Introduction to cascading style sheets (CSS), Types of Style sheets (Inline ,embedded, external) ,class, applying CSS.  Java Script: Features, tokens, data types, variables, operations, control constructs. |
| Week 5 | 03-02-2020 to 08-02-2020 | strings arrays, functions, core language objects, Document object model, client side objects, event handling. Applications related to client side form validation |
| Week 6 | 10-02-2020 to 15-02-2020 | Java Vs. C++, Byte lode, Java virtual machine, constants,  variables, data types, operators, expressions, control structures,  , method overriding |
| Week 7 | 17-02-2020 to 22-02-2020 | Defining class , creating objects, accessing class members, constructions, method overloading. |
| Week 8 | 24-02-2020 to 29-02-2020 | Arrays, String handling Inheritance: Basics, member access, using super to call super class constructors, creating a multi level hierarchy |
| Week 9 | 02-03-2020 to 05-03-2020 | Dynamic method dispatch, using abstract classes, using Final. |
| **Mid Semester Exams (06-03-2020 to 13-03-2020)** | | |
| Week 11 | 14-03-2020, 16-03-2020 to 21-03-2020 | Packages and Interfaces: Defining a package, understanding CLASSPATH, Access protection: Importing packages, Interfaces, Defining an Interface |
| Week 12 | 24-03-2020 to 28-03-2020 | Implementing. Interfaces, Applying, Interfaces, Variables in Interfaces |
| Week 13 | 30-03-2020 to 04-04-2020 | Fundamentals, exception types, using Try and catch, Multiple Try and Catch clauses, Nested Try statements, Built – in exceptions. |
| Week 14 | 07-04-2020 to 11-04-2020 | The Java Thread model, Thread priorities, |
| Week 15 | 15-04-2020 to 18-04-2020 | synchronizations, Messaging. The thread class and run able Interface |
| Week 16 | 20-04-2020 to 24-04-2020 | The Main Thread: Creating a Thread, Implementing Runnable, Extending Thread, communication, Deadlock, suspending |
| Week 17 | 27-04-2020 to 02-05-2020 | creating Multiple Threads, Thread Priorities; synchronizations: Methods, statements, Inter Thread communications |
| Week 18 | 04-05-2020 | Resuming and stopping Threads, Applet fundamentals |