1. **Session 1: Introduction to OOP and Basic JAVA programming.**
2. **Intended Learning Outcome:**

a. Get up and running with Java programming.  
b. Appreciate Java programming language.

1. **Expected skills:  
   a. Basic Java:**  
   - Will know what JVM is and can draw the work flow of JVM.  
   - Will know what JDK is and why it’s needed to run Java Programs.  
   - Can test if JDK is installed in the system using Command Line.   
   - Can install IDE (Eclipse/Net beans)  
   - Knows how to create project, create class, write code in them and run them.  
   - Knows Basic Input/ Output (Printing/Scanning)  
   - Knows about different data types and their usage (Int, long, double, char, byte, short)   
   -Basic use of String class (Declaration, input and output)
2. **Tools Required:**

a. JDK   
b. ECLIPSE / NETBEANS

1. **Session Detail:**
2. Teacher will introduce himself and talk about the complete course outline (10 minutes).
3. And introductory lecture on what is Java and why it’s important (25 minutes).
4. Teacher will talk about what JVM and JDK is and will draw the work flow of JVM on board. (25 minutes) ---
5. Teacher will show the students how to check if JDK is installed and how to install it. (20mintues)
6. Teacher will show how to install and IDE and will create a project and will assist and will make sure all the students were able to create a project in the IDE. (20 minutes) ---
7. Teacher will show how to declare variables different types of variables (20 minutes)
8. Will show how to print using System.out.println() (10 minutes)
9. Teacher will import Scanner class and show how to scan different types of data. (20 minutes)
10. Teacher will introduce String class and will show how to print and scan string in java. (20 minutes)
11. **Post Lab Exercise:**
12. **Further Readings:**

**[Exercise sheet is to be included]**