Dr. A. G. D. Bendale Mahila Mahavidyalaya, Jalgaon
Department of Computer Science
Advance Diploma in Web Designing
Paper – I
Java Programming

1. **Java Basics**   10L, 10M
   Data types, Variables, Scope of variables, Constant, Operators,
   Statements, Exception Handling, Multithreading

2. **Objects and Classes**   10L, 10M
   Introduction- Classes, Objects, Data members, Methods, Use of
   existing classes, Packages

3. **Distributed Computing**   15L, 20M
   Remote Method Invocation, Distributed garbage collection, RMI,
   IIOP, Interface Defination Language, CORBA, JINI, JSP

4. **Graphics Programming**   10L, 10M
   Introduction, Frames, Frame layouts, Displaying information in a frame,
   Graphics objects and paint components method, Text and Fonts,
   Colors, Drawing Shapes, Filling Shapes, Paint mode and Images

5. **Event Handling**   15L, 20M
   Basic event handling, The AWT hierarchy, low level events – Focus,
   window, keyboard, mouse events, Multicasting, Event sources and listener,
   adapter classes

6. **Collections**   15L, 15M
   Introduction to the collection framework, Collection classes:
   Set, List, Queue and Map
   Set: HashSet, TreeSet, and LinkedHashSet

7. **Streams and Files**   15L, 15M
   Streams, The complete stream family – Layering stream files,
   Data stream, random access file stream, Putting stream to use –
   writing delimited output, and delimited input, Object streams

   References
   1. Core Java Volume – 1 Fundamentals – By: Cay's Horstmann and Gary Cornell
   2. The complete reference JAVA-2 Fifth Edition By: Herbert Schildt(TMH)
   3. Programming in Java By: E Balguruswamy

Advance Diploma in Web Designing
Paper – II
Web Development and PHP

8. **Introduction to Web techniques**   10L, 15M
   Introduction to web server and web browser, Domain Name System,
   URL, HTTP, HTML, Working with HTML forms

9. **The Basics of PHP**   20L, 20M
   Overview of PHP, Data types, Variables, Constants, Operators, Arrays,
   Conditional statements, Iterations, Functions, Regular Expression

10. **Introduction to Object Oriented Programming**   15L, 15M
    Classes, Objects, accessing methods and properties, Introspection,
    Serialization, Inheritance, Interfaces, Object cloning, Encapsulation

11. **Using XML**   15L, 15M
    Introduction to XML, Use of XML, Comparison between XML and
    HTML, CSS, XSL, Working with XML using PHP

12. **Advanced Technique**   20L, 20M
    Introduction to Cookies, Creating cookies using PHP, Automatic login,
    Introduction to sessions, PHP session management rules, storing,
    retrieving and deleting data from session variables

13. **Web Techniques**   10L, 15M
    Variables, Server information, Processing forms, Setting response headers,
    Maintaining state, SSL

References
4. Programming PHP- Ramson Lerdorf and Kevin Tatroe, O'Reilly publication
5. Beginning PHP 5.1- Wrox publication
6. PHP web services- Wrox publication
7. AJAX Black Book- Kogent solution

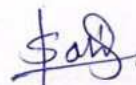# Advance Diploma in Web Designing
Paper – III
Practicals

Total Hours : 120H

Lab Course on Java Programming

1) Implement the concept of Exception handling using different program.
2) Implement the concept of multithreading using different programs.
3) Write a Java program that demonstrates JSP.
4) Write a Java program to change text font and color.
5) Implement the concept of event handling using different programs.
6) Write different Java programs that implements
   a) Arraylist b) Set c) Hashset d) Map
   e) Treeset f) Linked Hashset g)Queue

Lab Course on PHP

1) Design web pages to demonstrate HTML elements.
2) Write a Program to sort array.
3) Design XML application that will displayed using
   a) CSS b) XSL
4) Write a PHP script to store, retrieve and delete data using session variables.
5) Implement PHP script that demonstrates Inheritance.
6) Implement PHP script that demonstrates Object Cloning.

Head
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