

Dr. A. G. D. Bendale Mahila Mahavidyalaya, Jalgaon
Department of Computer Science

Advance Diploma in Web Designing

Paper – I

Java Programming

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| 1. Java Basics
Data types, Variables, Scope of variables, Constant, Operators, Statements, Exception Handling, Multithreading | 10L, 10M |
| 2. Objects and Classes
Introduction- Classes, Objects, Data members, Methods, Use of existing classes, Packages | 10L, 10M |
| 3. Distributed Computing
Remote Method Invocation, Distributed garbage collection, RMI, IIOP, Interface Definition Language, CORBA, JINI, JSP | 15L, 20M |
| 4. Graphics Programming
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 | 10L, 10M |
| 5. Event Handling
Basic event handling, The AWT hierarchy, low level events – Focus, window, keyboard, mouse events, Multicasting, Event sources and listener, adapter classes | 15L, 20M |
| 6. Collections
Introduction to the collection framework, Collection classes: Set, List, Queue and Map
Set: HashSet, TreeSet, and LinkedHashSet | 15L, 15M |
| 7. Streams and Files
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 | 15L, 15M |

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(TM)
3. Programming in Java By: E Balguruswamy

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

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| 8. Introduction to Web techniques
Introduction to web server and web browser, Domain Name System, URL, HTTP, HTML, Working with HTML forms | 10L, 15M |
| 9. The Basics of PHP
Overview of PHP, Data types, Variables, Constants, Operators, Arrays, Conditional statements, Iterations, Functions, Regular Expression | 20L, 20M |
| 10. Introduction to Object Oriented Programming
Classes, Objects, accessing methods and properties, Introspection, Serialization, Inheritance, Interfaces, Object cloning, Encapsulation | 15L, 15M |
| 11. Using XML
Introduction to XML, Use of XML, Comparison between XML and HTML, CSS, XSL, Working with XML using PHP | 15L, 15M |
| 12. Advanced Technique
Introduction to Cookies, Creating cookies using PHP, Automatic login, Introduction to sessions, PHP session management rules, storing, retrieving and deleting data from session variables | 20L, 20M |
| 13. Web Techniques
Variables, Server information, Processing forms, Setting response headers, Maintaining state, SSL | 10L, 15M |

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

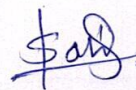
Total Hours : 120H

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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