

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

**Diploma In Web Designing**

**Syllabus**

**Paper I - Java script and VBScript**

- 1) Introduction - (L 15 , M 18)  
Introduction to JavaScript, JavaScript Statement, Comments, Data-Strings, numbers, Boolean, Null, Expressions, Variables, Functions, User Defined Function, Function Returning value.
- 2) Branching & Looping - (L 5 , M 10)]  
If & if-Else, for loop, while loops, break & continue statement, Objects, Method, Properties, Array.
- 3) Overview of JavaScript - (L 10 , M 15)  
Window Object- Structure of window object, document object, Location Object, History Object, Frames Collection, Screen Object. Document Object Structure.
- 4) Events- (L 20 , M 15)  
Mouse Events- Onclick, ondblclick, onmousedown, onmouseup, onmouseover, onmouseout.  
Keyboard Events- Onkeydown, onkeypress, onkeyup  
Focus and selection events- onfocus event, onselect event, ondragstart event.
- 5) VBScript- (L 20 , M 20)  
VBScript Constants, Variables, Creating Variables, Using Arrays, Variable checking functions, Array Functions, Conversion Functions, Mathematical Operations, Comparison Operators, Logical Operators, Implicit Type conversion looping and decision structure- If/then/else structure, Nested If-Else structure, If-Else if structure, For/Next Structure, Select/Case Structure, Do/Loop structure.
- 6) VBScript Functions and Objects- (L 20 , M 22)  
Cbool Function, Cbyte Function, Cdate Function, Character to Number function, Mathematical Function- Abs, Atn, Cos, Exp, Log, Rnd, Round, Sin, Sqr, Tan Functions.  
Data Formatting Function – FormatCurrency, FormatDateTime, FormatNumberFunction. Text Manipulation Function- Filter Function, Instr Function, InstrRev Function, Join Function, Lcase Function, Len Function, Ltrim Function, mid Function, Date and Time Function, Dictionary Object.

**Reference Book-**

- 1) ABCs of JavaScript -Lee Purcell, Mary Jane Mara
- 2) HTML 4 Unleashed -Second Edition
- 3) VBScript Interactive Course -Tec media Publication.
- 4) Asp3 Programming Bible -Eric Smith

## Paper II - Java Programming

- 1) Introduction: - (L 5 , M 08)  
Introduction to OOPs, Concept of OOPs and application of OOPs.
- 2) JAVA Evaluation:- (L 8 , M 07)  
Java History, Java features, Java Environment.
- 3) Overview of Java: - (L 15 , M 10)  
Introduction, Simple Java Program, Comment, Java Program Structure, Java Keywords, identifiers, Literals, Operators, Separators, Java Statements, Compiling, Running the Program, JVM, Command Line Arguments.
- 4) Constant, Variables, data types :- (L 10 , M 10)  
Introduction, Constants, Variables, data types, Declaration of constant, Scope of variables, Symbolic Constant, Type casting, Getting Values of variables.
- 5) Operators and Expressions:- (L 15 , M 20)  
Arithmetic Operators, Relational Operators, Logical Operators, Assignment Operators, Increment & decrement Operators, Conditional Operators, Bitwise Operators, Special Operators, Arithmetic Expression, Precedence of Arithmetic Operators, Mathematical Function.
- 6) Decision Making, Branching & Looping :- (L 15 , M 17)  
Simple If statement, If-Else statement, Nesting of If-Else, else-if ladder, switch statement, the ?: operator, the while statement, do statement, for statement.
- 7) Classes, Object & Methods :- (L 15 , M 20)  
Defining a class, Adding variables, adding Methods, Creating Objects, Access class member, Constructor, Inheritance, final variables & methods.

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### Reference Books:-

- 1) Programming with JAVA - E. Balguruswamy., 2nd Edition
- 2) Complete Reference: - Herbert Schildt,

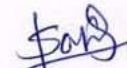
### Paper III – Practicals

#### a) Lab Course on Java Programming (any four)

- 1) Write a Java Program to read a number as Command Line Argument and find square root of number using math function.
- 2) Write a Java Program to check whether given number is prime or not.
- 3) Write a Java Program to find the area of rectangle using classes and methods.
- 4) Write a Java Program that demonstrates use of string methods.
- 5) Write a Java Program to check whether given number is palindrome.
- 6) Write a Java Program to find factorial of given number.

#### b) Lab Course on Java Script, VB Script (any four)

- 1) Write a Program For Mouse Events Using Java Script.
- 2) Write a Program For Keyboard Events Using Java Script.
- 3) Write a Program For Objects Using Java Script.
- 4) Write a Program for Array using VB Script.
- 5) Write a Program For Formatting Functions and Text Manipulation Functions Using VB Script.
- 6) Write a Program find Prime numbers, factorial and palindrome numbers using VBScript JavaScript



Head

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