

Training Program Syllabus

JAVA PROGRAMMING

(180-240 hrs)

Java Basics

Overview - Environment Setup - Basic Syntax - Object & Classes - Basic Data types - Variable Types - Modifier Types - Basic Operators - Loop Control - Decision Making - Numbers - Characters - Strings - arrays - Date & Time - Regular Expressions - Methods - Files and I/O - Exceptions - Inner classes

Object Oriented

Inheritance - Overriding - Polymorphism - Abstraction - Encapsulation - Interfaces - Packages

Advanced

Data Structures - Collections - Generics - Serialization - Networking - Sending Email - Multithreading - Applet Basics - Documentation

JSP Basic

Overview - Environment - Architecture - Life Cycle - Syntax - Directives - Actions - Implicit Objects - Client Request - Server Response - Http Codes - Form Processing - Writing Filters - Cookies Handling - Session Tracking - File Uploading - Handling Date - Page Redirect - Hits Counter - Auto Refresh - Sending Email- Data Access

Theory + Practical + Java Projects (Desktop App & Web App)

.NET PROGRAMMING

(90-120 hrs)

C#.Net

Overview- Environment- Program Structure- Basic Syntax- Data Types- Type Conversion- Variables- Constants- Operators- Decision Making- Loops- Encapsulation- Methods- Arrays- Strings- Structure- Classes- Inheritance- Polymorphism- Operator Overloading- Interfaces- Namespaces- Regular -Expressions- Exception Handling- File I/O- Database Connectivity

ASP.Net

Introduction- Environment- Life Cycle- First Example- Event Handling- Server Side- Server Controls- HTML Server- Client Side- Basic Controls- Valuator's- Database Access- ADO.net- File Uploading- Multi Views- Panel Controls- Data Sources- Data Binding- Error Handling- Debugging-Database Connectivity

Theory + Practical + .Net Projects (c#.Net & Asp.Net)

PHP PROGRAMMING

(90hrs)

PHP Basic

Introduction, Install, Syntax, Variables, String, Operators, If...Else, Switch, Arrays, While Loops, For Loops, Functions, Forms, \$_GET, \$_POST, Date, File, sessions

PHP Database

MySQL Introduction, MySQL Connect, MySQL Create, MySQL Insert, MySQL Select, MySQL Where, MySQL Order By, MySQL Update, MySQL Delete,

PHP Database Connectivity

PHP Forms

Handling, Validation, Required, URL/E-mail, Complete

Theory + Practical + php Projects (Desktop App & Web App)

JAVASCRIPT

(45 hrs)

Java Script Basic

Introduction, Where To, Output, Syntax, Statements, Comments, Variables, Operators, Arithmetic, Assignment, Data Types, Functions, Objects, Scope, Events, Strings, String Methods, Numbers, Number Methods, Math, Dates, Date Formats, Date Methods, Arrays, Array Methods, Booleans, Comparisons, Conditions, Switch, Loop For, Loop While, Break, Type Conversion, RegExp, Errors, Debugging,,

Forms

Validation, API

Objects

Definitions, Properties, Methods, Prototypes

Functions

Definitions, Parameters, Invocation, Closures

Theory + Practical Programs

SQL PROGRAMMING

(30 hrs)

SQL Basic

Introduction, Syntax, Select, Distinct, Where And & Or ,Order By ,Insert Into Update Delete,Injection, Select Top ,Like ,Wildcards,In, Between,Aliases,Joins,Inner Join, Left Join, Right Join, Full Join, Union, Select Into, Insert Into, Select, Create DB, Create Table, Constraints, Not Null,Unique, Primary Key, Foreign Key, Check, Default, Create Index, Drop,SQLAlter,Auto Increment, Views, Dates, Null Values, Null Functions, Data Types,L DB Data Types

SQL Functions

Functions, Avg(),Count(), First(), Last(), Max(), Min(), Sum(), Group By, Having,Ucase(),Lcase(),Mid(),Len(),Round(),Now(),Format(),

Theory + Practical Programs

CPP PROGRAMMING

(90 hrs)

C++ Basic

Basics ,Overview,Environment Setup, Basic Syntax,Comments,Data Types,Variable Types,Variable Scope,Constants/Literals,Modifier Types, Storage Classes,Operators,Loop Types,Decision Making,Functions,Numbers,Arrays,Strings,Pointers,References, Date & Time, Basic Input/Output,Data Structures

Object Oriented

Object Oriented, Classes & Objects, Inheritance,Overloading, Polymorphism Abstraction, Encapsulation, Interfaces,

Advanced

Files and Streams, Exception Handling, Dynamic Memory, Namespaces, Templates ,Preprocessor, Signal Handling, Multithreading, Web Programming,

Theory + Practical Programs

MySQL PROGRAMMING

(30 hrs)

MYSQL

Introduction- Installation- Administration- PHP Syntax- Connection- Create Database- Drop Database- Select Database- Data Types- Create Tables- Drop Tables- Insert Query- Select Query - Where Clause- Update Query- Delete Query- Like Clause- Sorting Results- Using Join - NULL Values- Regexps- Transactions- Alter Command- Indexes- Temporary Tables- Clone Tables- Database Info- Using Sequences- Handling Duplicates- SQL Injection- Database Export - Database Import

Theory + Practical Programs

C PROGRAMMING

(90-120 hrs)

C Basics

Overview - Environment Setup - Program Structure- Basic Syntax - Data Types - Variables - Constants - Storage Classes - Operators - Decision Making - Loops - Functions - Scope Rules - Arrays - Pointers - Strings - Structures - Unions - Bit Fields - Typedef - Input & Output - File I/O - Preprocessors - Header Files - Type Casting - Error Handling - Recursion - Variable Arguments - Memory Management - Command Line Arguments

C Advanced

Data Structures- Linked Lists, Queues, Stack, Computer Graphics- Drawing, graphics programming

Theory + Practical Programs

HTML 5

(30 hrs)

HTML

Introduction-Editors-Basic-Elements-Attributes-Headings-Paragraphs-Styles-Formatting-Quotations-Computercode-Comments-Colors-CSS-Links-Images-Tables-Lists-Blocks-Classes-Layout--Responsive-Iframes-JavaScript-Head-Entities-Symbols-Charset-URL Encode-XHTML

HTML Forms

Forms-Form Elements-Input Types-Input Attributes

HTML5

Introduction-Support-Elements-Semantics-Migration-Style Guide

HTML Graphics

Canvas-SVG

HTML Media

HTML Media-Video-Audio-Plug-ins-YouTube

HTML APIs

Geolocation-Drag/Drop-Local Storage-App Cache-Web Workers-SSE

Theory + Practical Programs

Introduction to Python-Overview of Python- History of Python, Features of Python-Basic Syntax-Variables, Data types, Lines and Indentations-Operators-Types of Operator -Arithmetic Operators Comparison (Relational) Operators Assignment Operators Logical Operators Bitwise Operators Membership Operators Identity Operators

Decision making-If Statements, ifElifElse Statement, Nested Statements

Loops- While loop , For loop, nested loop , Loop Control Statement

Numbers-Numbers in Python, Type Conversions, Mathematical Functions, Number Functions

Strings-Strings, Updating Strings, Escape Characters, String Special Operators

Lists-Lists ,Built in Functions on List, List Operations

Tuples-Tuples, Operations in Tuple, Built In Functions

Functions -Defining a Function, Calling a Function, Pass by reference vs value

File I\O

Error Handling-Types of error, try..expect..else, try..finally

Theory + Practical Programs +Projects

