Training Plan - Basics of Core Java and Advanced Java

SI	Training Activity	Detailed Objectives	Labs	Learning Outcomes
1	Basics of Core Java and Advanced Java	Object-oriented programming concepts: - Classes, objects, sub-classes, inheritance, encapsulation, polymorphism. The Java programming language and standard library packages: - Packages, classes, interfaces, instances, fields, methods. - Variables, identifiers, types, values. - Expressions, statements, conditionals, loops, iterators. - Collections. J2EE Architecture	 Write a Java Program that reads a line of integers, and then displays each integer, and the sum of all the integers (Use String Tokenizer class of java. util) Write a Java program to illustrate the concept of class with method overloading. Write a Java program to illustrate the concept of Dynamic Polymorphism. Write a Java program to implement searching and sorting. Write a Java program to implement the concept of exception handling. 	Participants will be able to: - Design OO Programs - Implement Advanced Programs
	e-requisite	Knowledge of Object Oriented Program	ming	
Evaluation End of unit quiz		,		
	ntact Hours	18		
Re	porting	Training Report		

Training Plan – MVC Architecture, Struts 2.0, MySQL Database Connectivity, Report etc.

SI	Training Activity	Detailed Objectives	Labs	Learning Outcomes
2	MVC Architecture, Struts2.0, MySQL Database Connectivity, Report etc.	Software development - principles and practice: - Producing correct, understandable and maintainable classes. MySQL Database - Database Administration - Database Development - Database Backup	 Understand MVC Architecture Concept. Introduction to Struts Framework for developing MVC based Web Applications in Java. Write a Java program to implement basic MVC Architecture. Write a Java program to implement Database Connectivity module. Write a Java program for generating Reports as per given 	Participants will be able to: - Design Database - Develop programs in Struts 2.0 Framework with Database Connectivity Develop programs to generate reports in prescribed formats.
Pro	e-requisite	Knowledge of Java	format.	
Evaluation		End of unit quiz		
Contact Hours		12		
Reporting		Training Report		

Training Plan – Software Architecture of iWS

SI	Training Activity	Detailed Objectives	Labs	Learning Outcomes
3	Software Architecture of iWS	Using appropriate development tools: - Integrated development environments.	 iWS Architecture Concept Develop small modules using similar architecture 	Participants will be able to: - Understand the basic Software Architecture of iWS Make minor modifications in the iWS software modules.
-	e-requisite aluation	Knowledge of Java, Struts 2.0 End of unit quiz		i modulesi
Contact Hours 6 Reporting Tra		6 Training Report		

Training Plan – Database Design of iWS

SI	Training Activity	Detailed Objectives	Labs	Learning Outcomes
4	Database		1. iWS Database Concept	Participants will be able to:
	Design of iWS	Understanding of:	2. Design and creation of Database	
		- Database Architecture of iWS.	3. Add, Modify, Delete, Query Database operations	Understand the basicDatabase Design of iWS.Add/modify the Databaseof iWS.
Pre	e-requisite	Knowledge of RDBMS		
Eva	aluation	End of unit quiz	·	
Co	ntact Hours	12		
Re	porting	Training Report		

Training Plan – Class Design (w.r.t. iWS)

SI	Training Activity	Detailed Objectives	Labs	Learning Outcomes
5	Class Design (w.r.t. iWS)	Understanding of: - Class Design.	Understanding the iWS Class Design Creation of Class diagram using Universal Modeling Language	Participants will be able to: - Understand the basic Class Design of iWS. - Make minor modifications in the iWS software modules.
Pre-requisite		Knowledge of Java		
Evaluation		End of unit quiz		
Contact Hours		6		·
Re	porting	Training Report	·	

Training Plan – Tiles, CSS, UI Design

SI	Training Activity	Detailed Objectives	Labs	Learning Outcomes
6	Tiles, CSS, UI Design	Basic User Interfaces: - Graphical interface components Event handling.	 Write a program in JSP for given GUI using Tiles, CSS. Write a program in Java to handle a given event. 	Participants will be able to: - Develop programs in JSP using Tiles and CSS - Make minor modifications in the iWS software modules.
Pre	e-requisite	Knowledge of Java		
Evaluation		End of unit quiz		
Contact Hours		12		
Reporting		Training Report		

Training Plan – Javascript / Libraries

SI	Training Activity	Detailed Objectives	Labs	Learning Outcomes
7	Javascript /		1. Understand JavaScript and JavaScript Libraries.	Participants will be able to:
	Libraries	Introduction to:		
		- JavaScript.	2. Develop program in JSP and JavaScript.	- Develop programs using
		- JavaScript Libraries		JSP and implement
				JavaScript based on
				requirement.
				- Make minor modifications
				in the iWS software
				modules.
Pre	e-requisite	Knowledge of Java		
Evaluation		End of unit quiz		
Contact Hours		12		
Re	porting	Training Report		

Training Plan – Overall Environment

SI	Training Activity	Detailed Objectives	Labs	Learning Outcomes
8	Overall		1. Installation of OS.	Participants will be able to:
	Environment	Installation: - Installation of iWS Installation of Server Deployment of iWS Backup Strategy.	2. Installation of the Server.3. Deployment and Installation of IWS Software.4. Taking Regular Backups and Recovery.	- Install and Configure a Server for iWS implementation.
Pre	-requisite	Knowledge of Java, Struts 2.0, MySQL		
Ev	aluation	End of unit quiz		
Contact Hours		18		
Reporting		Training Report		_