							farathawada Mitra Mandal's	1
						F	Institute of Technology Final Year Training Schedule	
Mode	Day	Date	Time	Hrs.	Batch	Trainer	Topics	
Offline	Monday	11-Mar-2024	9.00 AM to 11.00 AM	2	B1	Akhilesh	Setup Development Environment (JRE, JDK, Eclipse) Features of Jaw JMM Architecture JUK & Its usage	
Offline	Monday	11-Mar-2024	11.15 AM to 1.15 PM	2	B1	Akhilesh	Structure of Java class Writing your first Java program About main() method Constructor in Java Constructor in Java	
Offline	Monday	11-Mar-2024	2.00 PM to 4.00 PM	2	B1	Akhilesh	Class and Object Access specifier	
Offline	Tuesday	12-Mar-2024	9.00 AM to 11.00 AM	2	B1	Akhilesh	Java data types, primitives & binary literals	
Offline	Tuesday	12-Mar-2024	11.15 AM to 1.15 PM	2	B1	Akhilesh	Arithmatic Operator Relational Operator Logical Operator	
Offline	Tuesday	12-Mar-2024	2.00 PM to 4.00 PM	2	B1	Akhilesh	Unary Operator Ternary Operator Assignment Operator Assignment Operator	
Offline	Wednesday	13-Mar-2024	9.00 AM to 11.00 AM	2	B1	Akhilesh	If, else if, switch break & continue keyword for loop	
Offline	Wednesday	13-Mar-2024	11.15 AM to 1.15 PM	2	B1	Akhilesh	While loop do while loop state & final keyword Recursion	
Offline	Wednesday	13-Mar-2024	2.00 PM to 4.00 PM	2	B1	Akhilesh	Indializing an Array in Java Two dimensional array in Java Java variable arrayments explained Add, update, read array elements	
Offline	Thursday	14-Mar-2024	9.00 AM to 11.00 AM	2	B1	Akhilesh	Sorting and searching in array Java String Array to String How to copy arrays in Java	
							Introduction to OOP concepts: Encapsulation Inheritance: single & multilevel	
Offline	Thursday	14-Mar-2024	11.15 AM to 1.15 PM	2	B1	Akhilesh	Inheritance: Hierarchical* Polymorphism: Compile time and runtime polymorphism Rules of overriding and overloading of methods	
Offline	Thursday	14-Mar-2024	2.00 PM to 4.00 PM	2	B1	Akhilesh	super and this keywords Up casting & down casting of a reference variable	
Offline	Friday	15-Mar-2024	9.00 AM to 11.00 AM	2	B1	Akhilesh	Abstract class and abstract methods Interface (implementing multiple interfaces)	
							Final variables, final methods and final class	
Offline	Friday	15-Mar-2024	11.15 AM to 1.15 PM	2	B1	Akhilesh	Functional interface New interface features(Java 8 & above) Lambda expression and stream API Arrays Enumerations	
Offline	Friday	15-Mar-2024	2.00 PM to 4.00 PM	2	B1	Akhilesh	Access modifient/(public, private, protected and default) Prockages and import Prockages and import Statements Static imports Constructor chaining (with and without packages) Accessing protected variables and methods outside the package	
Offline	Saturday	16-Mar-2024	9.00 AM to 11.00 AM	2	B1	Akhilesh	Garbage collection in java Requesting JVM to run garbage collection Different ways to make object eligible for garbage collection: (Nulling a reference variable, Re-assigning a reference variable & island of isolation)	
							Finalize method	
Offline	Saturday	16-Mar-2024	11.15 AM to 1.15 PM	2	B1	Akhilesh	Wrapper classes and constant pools String class, StringBuffer & StringBuider class String pool Exception hierarchy, Errors, Checked and un-checked exceptions	
Offline	Saturday	16-Mar-2024	2.00 PM to 4.00 PM	2	B1	Akhilesh	Exception propagation	
Offline	Monday	18-Mar-2024	9.00 AM to 11.00 AM	2	B1	Akhilesh	try-catch-finally block , throws clause and throw keyword Multi catch block Creating user defined checked and unchecked exceptions*	
Offline	Monday	18-Mar-2024	11.15 AM to 1.15 PM	2	B1	Akhilesh	Brief introduction to InputStream, OutputStream, Reader and Writer interfaces NIO package Serialization and de-serialization Shallow copy and deep copy Object Class & java util Package Date. Date Time, Calendar class Converting Date to String and String to Date using SimpleDateFormard class	
Offline	Monday	18-Mar-2024	2.00 PM to 4.00 PM	2	B1	Akhilesh	Introduction to collections: Collection hierarchy List, Queue, Set and Map Collections List Collection:	
Online	Monday	10-Mai-2024	2.00 PM 10 4.00 PM	2	В	Akillesii	Arraysts, LinkedLat Vector (insert, delete,search,sort, iterate, replace operations) Collections class Comparable and Comparator interfaces Queue collection Set Collection:	
Offline	Tuesday	19-Mar-2024	9.00 AM to 11.00 AM	2	B1	Akhilesh	- HashSet, LinkedHashSet & TreeSet collection - Backed set collections Map Collection: - HashTable, HashMap, LinkedHashMap & TreeMap classes - Backed Map collections Generics Concurrent collections*	
Offline	Tuesday	19-Mar-2024	11.15 AM to 1.15 PM	2	B1	Akhilesh	MultiThreading: Thread class and Runnable Interface sleep, join, yield, setPriority, getPriority methods: ThreadGroup class Synchronization Deadlock Wait, notify and notify All methods Inner classes	
Offline	Tuesday	19-Mar-2024	2.00 PM to 4.00 PM	2	B1	Akhilesh	Introduction to Relational Model Understanding Basic SQL Syntax SELECT, INSERT, UPDATE, DELETE Querying Data with the SELECT Statement The SELECT Lat Stident (") The FROM Clause How to Constrain the Results Got DISTINCT and NOT DISTINCT THE PROPERTY of THE STATE OF	
							DEF Complete	
Offline	Wednesday	20-Mar-2024	9.00 AM to 11.00 AM	2	B1	Akhilesh	JZEE Overview - JZEE Container - Packaging Whe applications - JZEE compliant web application - Deployment tools Web application life cycle - Upploying web applications - Upploying web applications	
Offline	Wednesday	20-Mar-2024	11.15 AM to 1.15 PM	2	B1	Akhilesh	- Web Services Support JDBC & Transaction Management Introduction to JDBC ADD ADD ADD ADD ADD ADD ADD ADD ADD AD	
Offline	Wednesday	20-Mar-2024	2.00 PM to 4.00 PM	2	B1	Akhilesh	Sieffi history of the Internet How does the Internet work? Internet Protocol: HTTP Domain Names; Domain Name Service servers HTTP Protocols o Difference between HTTP1.0, HTTP 1.1, and HTTP 2.0 o Methods – GET, POST, HEAD, PUT, DELETE, etc. Sistan codes Sistan codes Sistan codes Sistan codes Sistan codes Sistan codes O Statefess nature of the protocol and HTTP Session	
							Apache server	
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Offline	Thursday	21-Mar-2024	9.00 AM to 11.00 AM	2	B1	Akhilesh	Introduction to HTML Document Object Model (DOM) Basic HTML Tags Alignment, Headings, Anchor, Paragraph, Image, Lists, Tables, and Frames HTML5 New features in HTML5 New demants, new attributes, link relations, microdata, ARIA accessibility HTMLS. Validation Audio & Video Support HTML Forms & Controls Input, Text Area, Radio Button, Checkhox, Dropdown, Submit, Reset, Button, etc.
Offline	Thursday	21-Mar-2024	11.15 AM to 1.15 PM	2	B1	Akhilesh	Introduction to CSs, Shyling HTML with CSs, Structuring pages with CSs, Internal CSs, Internal CSs, Multiple styles, CSS Fonts CSS Box Model id Attribute, class Attribute HTML Style Tags Linking a style to an HTML document
Offline	Thursday	21-Mar-2024	2.00 PM to 4.00 PM	2	B1	Akhilesh	Introduction of UI Scripting The Best Experience for All Users Desktop, Tablet, Mobile Bootstrap Overview of Bootstrap, Need to use Bootstrap Bootstrap Grid System, Grid Classes, Basic Structure of a Bootstrap Grid Typography
Offline	Friday	22-Mar-2024	9.00 AM to 11.00 AM	2	B1	Akhilesh	Components – Tables, Images, Jumbotron, Wells, Alerts, Button, Button Groups, Badges/Labels, Progress Bars, Pagination, List Groups, Panels, Dropdowns, Collapse, Tabs/Pills, Navbar Forms, Inputs Bootstrap Themes, Templates Lab
Offline	Friday	22-Mar-2024	11.15 AM to 1.15 PM	2	B1	Akhilesh	Introduction to JavaScript Variables in JavaScript Statements, Departers, Comments, Expressions, and Control Structures JavaScript Scopes Strings, String Methods Numbers, Number Methods Boolean Values Dates, Date Formats, Date * Methods Arrays, Array Methods Arrays, Array Methods Arrays, Object Definitions, Object Properties, Object Methods, Objects, Object Prototypes Function Definitions, Function Parameters, Function Invocation, Function Closures Object Oriented Programming o Method, Constructor, Inheritance, Encapsulation, Abstraction, Polymorphism
Offline	Friday	22-Mar-2024	2.00 PM to 4.00 PM	2	B1	Akhilesh	Document Object Model (DOM) o Object hierarchy in JavaScript o HTML DOM, DOM Elements, DOM Events o DOM Methods, DOM Manipulation Forms, Forms API, Forms Validation* Regular Expressions Errors, Debugging Introduction to Browser Dev Tool Pushing code quality via JSLint tool
Offline	Saturday	23-Mar-2024	9.00 AM to 11.00 AM	2	B1	Akhilesh	- Hibernate Framework - Introduction to Hibernate Framework Architecture Creating web application using Hibernate API o Lifecycle of Hibernate Entitles HB with annotation example
Offline	Saturday	23-Mar-2024	11.15 AM to 1.15 PM	2	B1	Akhilesh	- Hibernate Mappings and Relationships - Collection and Component Mapping - HOL, Named Queries, Criteria Queries Lab
Offline	Saturday	23-Mar-2024	2.00 PM to 4.00 PM	2	B1	Akhilesh	- What is Spring Framework - Overview of Spring Architecture - Spring Modules Overview Understanding Spring 4 annotations(Basic Introduction) What is IoC (Inversion of Control) IoC container Dependency Injection
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Offline	Monday	25-Mar-2024	9.00 AM to 11.00 AM	2	B1	Akhilesh	Spring Beans and its lifecycle Authoriting Beans Configuring collections Spring Validations Spring Validations Spring I the, Localization, Properties File Upload example
Offline	Monday	25-Mar-2024	11.15 AM to 1.15 PM	2	B1	Akhilesh	Spring Boot essentials Why Spring boot Spring Boot Overview Spring Boot Overview Basic Introduction of MAVEN Basic Introduction of MAYEN Building Spring application with Boot
Offline	Monday	25-Mar-2024	2.00 PM to 4.00 PM	2	B1	Akhilesh	- Spring Boot in detail (Use Spring Boot for all demo & assignments here onwards) Running a web application using Spring Boot with CRUD (with Static Data not DB) Spring Data Module - Spring Data MyR (Repository support for JPA) - CrudRepository&JPARepository - Query methods - Using custom query (@Query)
Offline	Tuesday	26-Mar-2024	9.00 AM to 11.00 AM	2	B1	Akhilesh	Building REST services with Spring Introduction to web services SOAP Vs RESTful web services RESTful web service introduction
Offline	Tuesday	26-Mar-2024	11.15 AM to 1.15 PM	2	B1	Akhilesh	Create RESTful web service in java using Spring Boot RESTful web service in java using Spring Boot RESTful web service CRUD example - RESTful web service CRUD example - Valing POSTMAN client to invoke REST APTs - REST service invocation using REST Template
Offline	Tuesday	26-Mar-2024	2.00 PM to 4.00 PM	2	B1	Akhilesh	Introduction to unit testing Introduction to Junit - Fix the annotations - Assert Exceptions - Run Tests Exceptions - Run Tests
Offline	Wednesday	27-Mar-2024	9.00 AM to 11.00 AM	2	B1	Akhilesh	Introduction to Mockito - Create DAO and BO Layer - Adding Mockito Dependency - Stubbing and Setting Expectation - Result verification - Unit Testing of Spring Service Layer
Offline Offline	Wednesday Wednesday		11.15 AM to 1.15 PM 2.00 PM to 4.00 PM	2	B1 B1	Akhilesh Akhilesh	Doubt Clearing & Practice Session Doubt Clearing & Practice Session