Tentative Training Schedule on Web Technologies and Advance Java

Day No.	Date	Timings	Session's Heading	Session's Topics
Day-1	11-Aug-25	02:00 PM to 05:00 PM	Phase 1: Introduction to Web Technologies	1) Web Application basics, HTTP protocol, HTTP methods (GET/POST)
				2) Request, Response, URL, includuing Port mapping. Hot Deploy Mode.
				3) HTML basics, CSS basics, JavaScript and jQuery basics
				4) Static, Dynamic web application, Generating and deploying WAR(Web Application
Day-2	12-Aug-25	02:00 PM to 05:00 PM	Phase 2: Core Java EE – Servlets and Web App Fundamentals	5) Web Application Structure, Web.xml Deployment Descriptor
				6) Servlet & Servlet Life cycle
				7) HTTP Methods of Servlet, HTTPRequest and HTTPResponse
				8) Servlet Parameters
				9) Request Dispatcher, Redirection
				10) Servlet Context, Servlet Config
Day-3	13-Aug-25	02:00 PM to 05:00 PM	Phase 2: Core Java EE – Servlets and Web App Fundamentals	11) Session Management, Cookes Management
				12) Session Tracking:
				13) Cookies, Hidden Form Fields.
				14) URL Rewriting.
				15) Session id.
				16) HTTP Session.
				17) Session Invalidation:
				18) Filter
				19) Servlet Filters.
				20) Defining Filters and
				21) Filter Chaining.
Day-4	14-Aug-25	10:00 AM to 05:00 PM	Phase 3: WebApp in Eclipse IDE and Spring Framework & Dependency	22) Developing First Web App using Eclipse (IDE) – Simple application with GET and POST request from HTML form
				23) Deploying applications to Tomcat
				24) STS-64 bit, Introduction to Spring MVC Framework

				Injection	25) Inversion of Control, Dependency Injection, Spring Container, Setter DI, Constructor DI, Autowiring
					26) Introduction to Spring Boot, Spring Initializer, Spring Boot Starters
Day-5&6	18-19 Aug-25	02:00 PM to 05:00 PM		Phase 4: Spring Boot & Annotations	27) Spring Boot Autoconfiguration, Spring Boot Annotations
					28) Creating your first Spring Boot application using Maven (Spring Boot Starters)
					29) Spring Annotations: @Component, @Bean, @Service, @Repository, @Controller
					30) Embedding Tomcat in Spring Boot Jar
					31) Actuator and Health End points
Day-7	20-Aug-25	02:00 PM to 05:00 PM		Phase 5: Data Handling with JDBC and DAO	32) Spring JDBC, DataSource configuration, Executing Statement, SQL Parameters
					33) JDBCTemplate, Named JDBC Template, ResultSetExtractor, RowMapper, Function and StoredProcedurecall from JDBC, Transaction Management, 34) DAO Pattern
Day-8	21-Aug-2025	02:00 PM to 05:00 PM		Phase 6: Thymeleaf & Form Handling	35) Introduction to Thymeleaf (all further examples to use Thymeleaf)
					36) Spring Web MVC, Form Design, Data Binding, Binding Result, Form Validation,
					37) Redirect and Flash attributes, Message Source
Day-9	22-Aug-2025	10:00 AM to 05:00 PM			38) Error handling, Global Exception Handling
					39) File Upload and Download
Day-10	23-Aug-25	10:00 AM to 05:00 PM		Phase 7: Web Services & RESTful APIs	40) Introduction to Web Services, RESTful Web Service, SOAP Vs RESTful web services
					41) Create RESTful Web Service using Spring Boot - @RestController, @RequestBody, @ResponseBody42) RESTful Web Service JSON and CRUD examples
					43) Using POSTMAN client to invoke REST APIs
					44) REST Service invocation using REST Template
					45) REST Service consumption using Feign client
Day-11	25-Aug-25	02:00 PM to 05:00 PM		Phase 8: Messaging and Testing	46) Introduction to Messaging using Spring AMQP and RabbitMQ
					47) Send Message to Queue, implement AMQP Listener
					48) Introduction to Unit Testing using TestNG
					Assessment Test