

		<b>SAGAR INSTITUTE OF SCIENCE &amp; TECHNOLOGY</b> <b>DEPARTMENT OF COMPUTER SCIENCE &amp; ENGINEERING</b> <b><u>WIPRO TRAINING PLAN</u></b>	FORM NO	
BRANCH	CSE		REV. NO	
SEMESTER	VI		REV. DT	
<b>NAME OF THE FACULTY: JAI MUNGI</b> <b>SUBJECT/CODE: JAVA PROGRAMMING (WIPRO CERTIFIED JAVA PROGRAMMER)</b>				

DAY	MON	TUE	WED	THU	FRI	SAT	Total Hours
PERIOD NO.	FOR THE WHOLE DAY						66 HRS.
DAYS	TOPICS TO BE COVERED				PLANNED DATE	ACTUAL DATE	REMARK
Day - 1	<b>[Java Fundamentals]</b> <ul style="list-style-type: none"> <li>JVM, JRE and JDK</li> <li>Identifiers, Variables and Literals</li> <li>Primitive Data Types</li> <li>Type Conversion and Casting</li> <li>Autoboxing and Unboxing</li> <li>Conditional Statement and Switch Case statements.</li> <li>Iteration Statements</li> <li>While, For and For-Each loop</li> <li>Jump, Break and Continue statement</li> <li>Arrays</li> </ul> <b>~ Pre-Assessment</b>				03.02.2025		
Day - 2	<b>[OOPS]</b> <ul style="list-style-type: none"> <li>Fundamental Principles of OOPs <ul style="list-style-type: none"> <li>Classes and Objects</li> <li>Member Variables</li> <li>Object and References</li> <li>Constructors</li> <li>This Reference</li> <li>Static class members</li> <li>Static block</li> <li>Java's Cleanup Mechanism - The Garbage Collector</li> </ul> </li> </ul>				04.02.2025		
Day - 3	<b>[OOPS_Inheritance]</b> <ul style="list-style-type: none"> <li>Abstraction in Java</li> <li>Encapsulation in Java</li> <li>Polymorphism in Java <ul style="list-style-type: none"> <li>Method Overloading</li> <li>Method Overriding</li> <li>Run Time Polymorphism</li> <li>instanceof Operator</li> </ul> </li> <li>Inheritance in Java</li> <li>Final keyword</li> <li>Interface in Java (Concept of Abstract class)</li> </ul> <b>~ Assessment - 1</b>				05.02.2025		
Day - 4	<ul style="list-style-type: none"> <li>Super keyword</li> <li>Exceptions Handling in Java</li> <li>Exception Types</li> <li>Catching an exception using Try-Catch statement</li> </ul>				06.02.2025		

	<ul style="list-style-type: none"> <li>▪ Custom Exceptions</li> <li>▪ Using try-catch-finally statements</li> <li>▪ Throw, Throws, Finally Keyword</li> <li>▪ Packages</li> <li>▪ Wrapper Classes</li> </ul>			
<b>Day - 5</b>	<b>[Collections]</b> <ul style="list-style-type: none"> <li>▪ Introduction to Collections</li> <li>▪ Generics <ul style="list-style-type: none"> <li>▪ Types</li> <li>▪ Autoboxing and Unboxing with Collections</li> </ul> </li> <li>▪ List <ul style="list-style-type: none"> <li>▪ List</li> <li>▪ ArrayList</li> <li>▪ Vector</li> <li>▪ LinkedList</li> </ul> </li> </ul>	07.02.2025		
<b>Day - 6</b>	<b>[Collections Continue....]</b> <ul style="list-style-type: none"> <li>▪ Map <ul style="list-style-type: none"> <li>▪ Map</li> <li>▪ HashMap</li> <li>▪ Hashtable</li> <li>▪ TreeMap</li> </ul> </li> <li>▪ Set <ul style="list-style-type: none"> <li>▪ Set</li> <li>▪ TreeSet</li> <li>▪ Comparable Interface</li> <li>▪ HashSet</li> </ul> </li> </ul> <b>~ Assessment - 2</b>	08.02.2025		
<b>Day - 7</b>	<b>[JDBC Connectivity]</b> <ul style="list-style-type: none"> <li>▪ Fundamentals of Database Management System – MySql</li> <li>▪ DCL, DML and DDL Query</li> <li>▪ Introduction to JDBC drivers –Types</li> <li>▪ Configuration of JDBC Driver</li> </ul> Establishing connection between Program and Database (Console Based)	10.02.2025		
<b>Day - 8</b>	<b>[Servlet and JSP]</b> <ul style="list-style-type: none"> <li>▪ Servlet <ul style="list-style-type: none"> <li>▪ Servlet Architecture</li> <li>▪ Servlet API</li> <li>▪ Servlets Life Cycle</li> <li>▪ Servlet Example</li> <li>▪ Session Example – Login/Logout Application</li> </ul> </li> <li>▪ Java Server Pages <ul style="list-style-type: none"> <li>▪ JSP Architecture</li> <li>▪ JSP Life Cycle</li> <li>▪ JSP Elements</li> <li>▪ JSP Example</li> </ul> </li> </ul> <b>~ Assessment – 3</b>	11.02.2025		
<b>Day - 9</b>	<b>[Hibernate]</b> <ul style="list-style-type: none"> <li>▪ Introduction to Hibernate</li> <li>▪ ORM – Object Relational Mapping</li> <li>▪ Advantages of Using Hibernate</li> <li>▪ Hibernate Architecture</li> <li>▪ Hibernate Mapping</li> </ul>	12.02.2025		

<b>Day - 10</b>	<b>[Spring Core]</b> <ul style="list-style-type: none"> <li>▪ Dependency Injection</li> <li>▪ Overview of Spring Framework</li> <li>▪ Bean Wiring</li> <li>▪ Inner Bean</li> <li>▪ Bean Properties</li> <li>▪ Bean Life Cycle</li> <li>▪ Bean Scope</li> <li>▪ Bean Auto Wiring</li> </ul>	13.02.2025		
<b>Day - 11</b>	<b>[Spring Boot]</b> <ul style="list-style-type: none"> <li>▪ Introduction to Spring Boot</li> <li>▪ POM.xml</li> <li>▪ Application.properties</li> <li>▪ Annotations <ul style="list-style-type: none"> <li>▪ @SpringBootApplication</li> <li>▪ @Controller</li> <li>▪ @RestController</li> <li>▪ @Autowired</li> <li>▪ @Service</li> <li>▪ @Repository</li> <li>▪ @GetMapping</li> <li>▪ @PostMapping</li> <li>▪ @RequestParam</li> <li>▪ @RequestBody</li> </ul> </li> </ul> <b>~ Post – Assessment</b>	14.02.2025		

<b>PREPARED BY</b>	<b>REVIEWED/ VERIFIED BY</b>	<b>APPROVED BY</b>
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