STUDENT COURSE WORKSHEET

COURSE NAME:

TOTAL HRS :

JOINING DATE :

STUDENT NAME :

REG NO :

CONTACT NO. :

STAFF NAME :

Session	Topic		Student Sign	Guide Sign
	Theory	**Software**		
	Front End			
Session1	**HTML:** Introductions: What is HTML HTML Tags HTML Attributes, HTML Images HTML Tables, HTML List, HTML Links, HTML Forms, HTML Block Element, Inline Element, HTML Marquee, HTML iframe, HTML Layout Element, HTML Quotation, HTML Formatting Elements	visual studio code		
Session2	**CSS:** Introduction: What is CSS? CSS Types: Inline CSS Internal CSS External CSS Color Property Text Property CSS Box Model Background and Border Property Display Property Font Property Padding Margin CSS Navigation Bar Position Property Cursor Property Z-index Property Opacity Property 2D-3D Transform Pseudo-Classes and Pseudo-Elements, Gradient Property Key frame Property	visual studio code		

Session3	**BOOTSTRAP:** Introduction to Bootstrap framework What is Bootstrap? What is Responsive Web Design? Why Use Bootstrap? Where to Get Bootstrap? Install bootstrap and environment setup Bootstrap CDN CDN Link **Bootstrap Tags:** Bootstrap Container Bootstrap Grid System Bootstrap Color Bootstrap Table Bootstrap Images Bootstrap Button Bootstrap Progress Bar Bootstrap Spinner Bootstrap Pagination Bootstrap Dropdown Bootstrap button Bootstrap Collapse Bootstrap Navbar Bootstrap Carousel Slideshow Bootstrap Forms	visual studio code		
Session4	**JAVA SCRIPT:** Introduction JavaScript JavaScript Syntax JavaScript Operators Conditional Statement Looping Statement JavaScript Events JavaScript Object JavaScript Array JavaScript String JavaScript Date Object JavaScript DOM JavaScript Page Redirection JavaScript PopupBoxes Form Validation JavaScript Animation Local storage	visual studio code		

Session5	**JQuery**
	Why use jQuery
	jQuery installation and environment setup
	jQuery attributes:
	  #ID selector
	  .Classselector
	jQuery effect:
	  jQuery hide() show ()
	jQuery event**:**
	  click()
	  mouseenter()
	  mouseleave()
	  mouseup()
	  mousedown()
	  hover()
	  fadeIn() fadeout() fadeToggle()
	  slideup() slidedown()
	jQuery animation
		visual studio code		

Session1	**React** **ES6 Primer** JavaScript history ES6 and Babel Arrow functions and template literals Rest and spread operators Classes and inheritance	Visual Studio Code		
Session 2	**Introduction to React** Why React? Version history of React React 15 vs React 16 Using create-react-app Debugging first react app	visual studio code		

Session 3	**Templating Using JSX** Working with React.createElement Logical operators and expressions Specifying attributes and children Function Component Class Component	visual studio code		
Session 4	**Components of React** Component architecture and its significance Types of components **"This"** Keyword	visual studio code		
Session 5	**Working with Props and State** State and its significance Set and read states Passing data to a component through props Validation of props with prop Types Using default props to supply default values to props Rendering lists Using the React key propUsing the map function for iteration on arrays to generateelements	visual studio code		
Session 6	**Event Handling in React** React event system and the synthetic eventPassing arguments to event handlers Component life-cycle	visual studio code		

Session 7	**Working with Forms** Controlled and uncontrolled components Significance of the default Value prop using the React ref prop to access the DOM element			
Session 8	**Routing with React Router** Setting up the router Understanding routing with the help of single-page applications Working with HashRouter and BrowserRouter components Configuration of the router, using the route component Using switch component for defining routing rules Working with nested routes Navigation to pages, using NavLink and Link components			
Session 9	**Redux and Immutable.js** What is Redux? Why Redux? Principles of Redux Installation and setup process of Redux Creation of reducer, actions, and store what is Immutable.js? Collections in ImmutableLists, sets, and maps			
Session 10	**React Redux** What is React Redux, and why is it used? Installation and setting up of React Redux Container components vs presentational components Understanding the high-order component			
Session 11	**React CSS / SASS** What is React CSS and SASS, why is it used? Installation and setting up of React SASS			

Session 12	**Fragments & Hooks** What is Fragment, why is it used? Installation and setting up of React Hooks Programming with Hooks State & Effects			
Session 13	**Bootstrap** What is Bootstrap, why is it used? Installation and setting up of Bootstrap Css & Styles			
Session 14	**Simple Workouts** Login Form Using React Sign Up & Sign in Form Using React Create Mail Form Work with Mail Simple App			
	Data Base			
Session 1	**SQL Server :** Introduction of SQL server, SQL server management studio, Create a database, Alter Statement Use data base,Create query, Insert query, Update query, Delete query, Views, Stored Procedures	SQL Server 2022		
Session 2	**Constraints:** Not null constraints, Unique key constraints, Primary key constraints, Foreign key constraints, Default constraints	SQL Server 2022		

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	Back End			
Session 1	**Introduction of Java programmingJava introduction:** What is Java? Why Choose Java? What is Java Virtual Machine?	Eclipse IDE 2019-09 R (4.13.0)		
Session 2	**Java – Overview:** Java – Software Environment Setup Java – Program Structure Java – Input/output Statement	Eclipse IDE 2019-09 R (4.13.0)		
Session 3	**Java - Basic Data types** Java - Variable Types Java - Modifier Types **Java - Basic Operators** Arithmetic operator, Unary arithmetic operator, Relational operator, Logical operator, Bitwise operator, Assignment operator, Conditional operator, Instance of operator	Eclipse IDE 2019-09 R (4.13.0)		
Session 4	**Java - Decision Making Statement:** if-Statement if-else Statement nested if-else Statement if-else if Statement Switch Case Jump Statement: Break Continue	Eclipse IDE 2019-09 R (4.13.0)		

Session 5	**Java – Loop Statement** for loop while do while	Eclipse IDE 2019-09 R (4.13.0)		
Session 6	**Java – Strings** equals( ),compareTo( ),concat( ),length( ), indexOf( ),charAt( ),subsring( ),toLowerCase( ) toUpperCase( ),String builder, string buffer, string builder and buffer methods	Eclipse IDE 2019-09 R (4.13.0)		
Session 7	**Java – Arrays** Define array, Type of array: single dimensional array, multi-dimensional array, jagged array, **Java methods:** Creating Method Method Calling	Eclipse IDE 2019-09 R (4.13.0)		
Session 8	**Java - OOPs:** Class Object Constructors Abstraction Encapsulation Inheritance Polymorphism	Eclipse IDE 2019-09 R (4.13.0)		
Session 9	**Java – class and object:** Define Class, Define Object,Class syntax, Object Creation Syntax, Example Program	Eclipse IDE 2019-09 R (4.13.0)		

Session 10	**Java – Constructors:** Define constructor, Constructor syntax, Default Constructor, Parameterized Constructor	Eclipse IDE 2019-09 R (4.13.0)		
Session 11	**Java – Abstraction** Abstract Class Inheriting the Abstract Class Abstract Methods	Eclipse IDE 2019-09 R (4.13.0)		
Session 12	**Java – Polymorphism:** Define Polymorphism, Types of Polymorphism: Compile time Polymorphism, Runtime Polymorphism	Eclipse IDE 2019-09 R (4.13.0)		
Session 13	**Java – Inheritance:** Define inheritance, Inheritance syntax, **Type of inheritance:** single inheritance, multilevel inheritance, multiple inheritance, hieratical inheritance, Hybrid inheritance	Eclipse IDE 2019-09 R (4.13.0)		
Session 14	**Java – Encapsulation** Benefits of Encapsulation	Eclipse IDE 2019-09 R (4.13.0)		
Session 15	**Java – Interfaces:** Define interface, Interface syntax, implementation of interface, nested interface, multiple concept interface	Eclipse IDE 2019-09 R (4.13.0)		
Session 16	**Java – Packages:** Built in package , User Defined Package	Eclipse IDE 2019-09 R (4.13.0)		

Session 17	**Java – Exceptions:** Define Exception, Exception Keyword, try, catch, throw, throws, finally User-defined Exceptions	Eclipse IDE 2019-09 R (4.13.0)		
Session 18	**Java threads:** Define threads, Thread life cycle, Single thread, Multiple thread	Eclipse IDE 2019-09 R (4.13.0)		
Session 19	**Wrapper Class &** **Collections** List, Set, Map	Eclipse IDE 2019-09 R (4.13.0)		
Session 20	**Java GUI:** Java Abstract Window Tool Kit Java Swing	Eclipse IDE 2019-09 R (4.13.0)		
Session 21	**JDBC Connection** Database connectivity	Eclipse IDE 2019-09 R (4.13.0)		
Session 22	**Java frame works:** Introduction to Spring core and IOC, Why to learn Spring, Application of Spring **Benefits of using spring frame work** Spring framework architecture, Spring IOC Containers, Spring Bean Factory Container, Spring Application Context Container **Introduction Spring MVC :** What is Spring MVC? One Page to Multiple Page Creation	Eclipse IDE 2019-09 R (4.13.0)		
Session 23	**Spring Boot** Introduction Spring Boot Spring Vs Spring Boot Vs Spring MVC Spring Boot MVC Spring Boot Validation Annotation Spring Project	Eclipse IDE 2019-09 R (4.13.0)		

Checked by   Verified by   Verified by

Technical head   Centre Manager   Placement Director